ELEVATUS
ARCHITECTURE

A D D E N D U M

Project No.: 2301108
Project: West Noble Weight High School Renovation and Addition

Addendum No: 2
Date: 02-28-2024

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 2, to Drawings and Specifications dated 02-12-2024, for the West Noble High School Renovation and Addition for West Noble; as prepared by ELEVATUS Architecture, 111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802

This ADDENDUM shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified and set forth in this ADDENDUM.

Each Bidder shall acknowledge receipt of this ADDENDUM on the Bid Form.

SPECIFICATIONS:

ITEM NO. 1.01 - PROJECT MANUAL, 00 01 10, TABLE OF CONTENTS

A. Add Section 07 42 13 – Preformed Wall Panels
B. Remove Section 07 46 43 – Composite Building Panels
C. Add Section 10 14 00 – Identifying Devices in its entirety
D. Revise “Date of Issue” and “Issued For” to reflect Addendum Issuance for sections shown below.

ITEM NO. 1.02 - PROJECT MANUAL, 00 21 13, INSTRUCTIONS TO BIDDERS

A. Re-issue specification section in its entirety with changes below.
   a. 1.15.B.2.I – Remove “including, but not limited to, the prevailing wage law”

ITEM NO. 1.03 - PROJECT MANUAL, 01 11 00, SUMMARY OF WORK

A. Re-issue specification section in its entirety with changes below.
   a. 1.15 – Add Liquidated Damages in its entirety.

ITEM NO. 1.04 - PROJECT MANUAL, 07 41 13, PREFORMED METAL ROOFING

A. Re-issue specification section in its entirety with changes below.
   a. 2.1 – Add acceptable manufacturer “SMI 2.0 MS” by Sheffield Metals, Cleveland, OH
   b. 2.4.F - Add acceptable manufacturer “Sharkskin Ultra SA”, by Kirsh Building Products, Simi Valley CA

ITEM NO. 1.05 - PROJECT MANUAL, 07 42 13, PREFORMED WALL PANELS

A. Add this section in its entirety.

ITEM NO. 1.06 - PROJECT MANUAL, 07 46 43, COMPOSITE BUILDING PANELS

A. Remove this section in its entirety.

ITEM NO. 1.07 - PROJECT MANUAL, 08 71 00, DOOR HARDWARE

A. Add this section in its entirety.

ITEM NO. 1.08 - PROJECT MANUAL, 10 14 00, IDENTIFYING DEVICES

A. Add this section in its entirety.

ITEM NO. 1.09 - PROJECT MANUAL, 32 31 19, ORNAMENTAL PICKET FENCES AND GATES

A. Re-issue specification section in its entirety with changes below:
   a. 2.1.A –
      i. Revise to say “Basis of Design” in lieu of “Approved Manufacturer”
      ii. 2.1.A.1 – Remove in its entirety.
   b. 2.1.B – Add The following manufacturers are also acceptable:
      i. 1. Ameristar Fence Products, Tulsa, Oklahoma
      ii. 2. Ametco Manufacturing Corporation, Willoughby, Ohio

DRAWINGS – WEIGHT ROOM ADDITION AREA A:

ITEM NO. 1.01 - DRAWING NO. G-001 Cover Sheet
   A. Add sheet A-502 Architectural Details Area B.

ITEM NO. 1.02 - DRAWING NO. A-111A Architectural Plan – First Floor Area A
   A. Add Acoustical Partition Tags.

ITEM NO. 1.03 - DRAWING NO. A-111B Architectural Plan – First Floor Area B
   A. Add Acoustical Partition Tags.
   B. Add Notes 5.01 and 10.03.
   C. Add call out to Detail 7/A-201B.

ITEM NO. 1.04 - DRAWING NO. A-201B Building Elevations – Area B
   A. Revision of 5.01 note.
   B. Revision of 10.01 note.
   C. Add note 10.03.
   D. Add Sign Detail 6,7.

ITEM NO. 1.05 - DRAWING NO. A-211A Enlarged Plans & Elevations – Area A
   A. Add note on Elevation – Weights East 2.

ITEM NO. 1.06 - DRAWING NO. A-311A Wall Sections – Area A
   A. Update details, Bond Beam position.
      a. Wall Section - Area A 1,2,3,4,5.
      b. Enlarged Detail - Area A 6,9.

ITEM NO. 1.07 - DRAWING NO. A-311B Wall Sections – Area B
   A. Revision of 1-Wall Section – Area B.
   B. Revision of 2-Wall Sections – Area B.

   C. Revision of 9-Enlarged Detail – Area B.
   D. Revision of 12-Enlarged Detail – Area B.

ITEM NO. 1.08 - DRAWING NO. A-312A Wall Sections – Area A
   A. Updates details to reflect the roof standard specification.
      a. Wall Section – Area A 1.
      b. Enlarged Details – Area A 4,5.

ITEM NO. 1.09 - DRAWING NO. A-502 Architectural Details – Area B
   A. Addition of sheet A-502 Architectural Details - Area B

ITEM NO. 2.01 – Civil Addendum #2

A. Refer to attached Civil Addendum

ITEM NO. 2.02 – MEP Addendum #2

A. Refer to attached MEP Addendum

Submitted By:

Andreia Rossato, PA

ELEVATUS
ARCHITECTURE

cc: ☐ File: Document55
☐ Owner:
☐ Contractor:
☐ Consultant:
☐ Consultant:

ENGINEERING
RESOURCES, INC.

West Noble

Addendum #2
Date: 02/28/2024

This addendum is issued as a supplement to the plans and specifications and shall be considered an integral part of the same.

Item:	**Sheet:**	**Description:**
2.01	C-201b	Revise layout notes #21 & #22. Chainlink fencing to be 2" mesh in lieu of ¾" mesh.

11020 Diebold Rd. ● Fort Wayne, IN 46845 ● 260-490-1025 ● www.eri.consulting

ENGINEERING, LLC

Addendum

6534 Constitution Drive
Fort Wayne, IN 46804
(260) 436-9213
fax (260) 432-5481

ADDENDUM NO.	Addendum No. 2
DATE:	02/28/2024
PROJECT:	West Noble Renovation and Addition
COMMISSION NO.	***SCO*** Engineering, LLC – 232707

The Contractor shall incorporate, into the Contract Documents and into his bid, the following changes and/or clarifications to the Drawings, Specifications and Scope of Work.

SPECIFICATIONS

1. Specification Section 224716 – Pressure Water Coolers.
    a. Insert the attached new section into the project manual.

MECHANICAL

1. It is acceptable to use ProPress press fittings on the natural gas piping.

ELECTRICAL

1. Electrical contractor shall refer to attached drawing “E-101B” for changes associated with IDF rack relocation.
2. Electrical contractor shall refer to attached drawing “E-301B” for changes associated with IDF rack relocation, and changes to “Panel CH.”
3. Electrical contractor shall refer to attached drawing “E-501” for changes to riser diagram and pad mount transformer detail #5.

SECTION 224716 - PRESSURE WATER COOLERS

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 pressure water coolers and related components.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of pressure water cooler.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
2. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.

B. Shop Drawings: Include diagrams for power, signal, and control wiring.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For pressure water coolers to include in maintenance manuals.

PART 2 - PRODUCTS

2.1 PRESSURE WATER COOLERS

A. Pressure Water Coolers: Wall mounted.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Elkay Manufacturing Co.
b. Halsey Taylor.
c. Oasis International.

2. Cabinet: Bi-level with two attached cabinets and with a bi-level skirt kit, all stainless steel.
3. Bubbler: One, with adjustable stream regulator, located on each cabinet deck.
4. Control: Push bar.
5. Bottle Filler.
6. Drain: Grid with NPS 1-1/4 tailpiece.
7. Supply: NPS 3/8 with shutoff valve.

8. Waste Fitting: ASME A112.18.2/CSA B125.2, NPS 1-1/4 brass P-trap.
9. Cooling System: Electric, with hermetically sealed compressor, cooling coil, air-cooled condensing unit, corrosion-resistant tubing, refrigerant, corrosion-resistant-metal storage tank, and adjustable thermostat.

    a. 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.

10. Capacities and Characteristics:

    a. Cooled Water: 8 gph.
    b. Ambient-Air Temperature: 90 deg F.
    c. Inlet-Water Temperature: 80 deg F.
    d. Cooled-Water Temperature: 50 deg F.

11. Support: ASME A112.6.1M, Type I water-cooler carrier.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine roughing-in for water-supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before fixture installation.

B. Examine walls for suitable conditions where fixtures will be installed.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install fixtures level and plumb according to roughing-in drawings. For fixtures indicated for children, install at height required by authorities having jurisdiction.

B. Install off-the-floor carrier supports, affixed to building substrate, for wall-mounted fixtures.

C. Install mounting frames, affixed to building construction, and attach recessed, pressure water coolers to mounting frames.

D. Install water-supply piping with shutoff valve on supply to each fixture to be connected to domestic-water distribution piping. Use ball or gate valve. Install valves in locations where they can be easily reached for operation. Valves are specified in Section 220523.12 "Ball Valves for Plumbing Piping."

E. Install trap and waste piping on drain outlet of each fixture to be connected to sanitary drainage system.

F. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Use deep-pattern escutcheons where required to conceal protruding fittings.

G. Seal joints between fixtures and walls using sanitary-type, one-part, mildew-resistant, silicone sealant. Match sealant color to fixture color.

3.3 CONNECTIONS

A. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.

B. Comply with water piping requirements specified in Section 221116 "Domestic Water Piping."

C. Install ball shutoff valve on water supply to each fixture. Comply with valve requirements specified in Section 220523.12 "Ball Valves for Plumbing Piping."

D. Comply with soil and waste piping requirements specified in Section 221316 "Sanitary Waste and Vent Piping."

3.4 ADJUSTING

A. Adjust fixture flow regulators for proper flow and stream height.

B. Adjust pressure water-cooler temperature settings.

3.5 CLEANING

A. After installing fixture, inspect unit. Remove paint splatters and other spots, dirt, and debris. Repair damaged finish to match original finish.

B. Clean fixtures, on completion of installation, according to manufacturer's written instructions.

C. Provide protective covering for installed fixtures.

D. Do not allow use of fixtures for temporary facilities unless approved in writing by Owner.

END OF SECTION 224716

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SECTION 00 21 13 - INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

A. To be considered, bids must be submitted in accordance with these Instructions to Bidders.

B. Communications for the administration of the Contract shall be as set forth in the General Conditions and, in general, shall be through the Architect.

1.2 DEFINITIONS

A. Definitions set forth in the General Conditions of the contract for Construction, AIA Document A201, 2017 ed., are applicable to these Instructions to Bidders.

B. A Bidder is the person or entity who submits a Bid for the Work as described in the Contract Documents and with whom the Owner would enter into a Contract.

C. A Sub bidder is the person or entity who submits a bid, to a Bidder, for materials or labor for a portion of the Work.

1.3 DOCUMENTS

A. Failure to Execute Contract Documents: In the event the bidder withdraws the bid or fails to execute a satisfactory Contract and furnish a satisfactory Contract Performance Bond and Labor and Material Payment Bond with a surety company in accordance with Article 1.15 of these Instructions to Bidders within 5 days after a contract has been awarded to such a bidder by the Owner, said Owner may declare such certified or cashier's check or bid bond forfeited to the Owner for extra costs incurred by reason of delay of the project and obtaining acceptable prices from another bidder.

1.4 BIDDER'S REPRESENTATION AND EXAMINATION

A. By submitting a Bid, each Bidder represents that:

1. He has visited the site of the proposed Work and has fully acquainted himself with conditions as they exist, so that he may fully understand the facilities, difficulties and restrictions attending the execution of the Work.
2. He has thoroughly examined, read and understands the Bidding Documents, and where the Bidding Documents require, in any part of the Work, a given result to be produced, that the Bidding Documents are adequate and the required result can be produced under the Bidding Documents.
3. His Bid is based upon materials, equipment and systems as shown in the Bidding Documents, all as prepared by Elevatus Architecture, Fort Wayne, IN.

B. The failure or omission of any Bidder to receive or examine any form, instrument or document, or to visit the site and acquaint himself with conditions there existing, shall in no way relieve any Bidder from any obligations with respect to his Bid.

C. No claim for any extra will be allowed because of alleged impossibilities in the performance of the Work because of inadequate or improper Bidding Documents.

D. Each bidder by making his bid represents that he has read and understands the bidding requirements and the Construction Documents.

E. Each bidder by making his bid represents that he has visited the site and familiarized himself with the local conditions under which the Work is to be performed.

1.5 QUALIFICATIONS OF BIDDERS

A. AIA Document A305, Contractor Qualifications Statement shall be included with the Bid Proposal. This shall clearly show the bidder's financial resources, his construction experience, his organization, and equipment available for Work contemplated.

B. The Owner shall have the right to take such steps as he deems necessary to determine the ability of the bidder to perform the Work, and the bidder shall furnish the Owner such data for this purpose as the Owner may request.

C. Where Bidder is a corporation, limited liability company, or other entity, evidence that Bidder is in good standing under the laws of the State of Indiana is required. In case of entities organized under the laws of any other state, it shall produce evidence that Bidder is licensed (or is capable of being licensed) to do business and is in good standing under the laws of the State of Indiana or a sworn statement that it will take all necessary action to become so licensed, if its bid is accepted.

1.6 BIDDING DOCUMENTS

A. Complete sets of Bidding Documents may be obtained by Bidders from the office of the printer. Eastern Engineering, in such numbers and for the deposit sum or purchase amount as determined by Copy Country. Bidders have the option to purchase printed sets of Bidding Documents or electronic sets of Bidding Documents as defined by Copy Country.

B. The Owner or the Architect, in making printed or electronic copies of the Bidding Documents do so only for the purpose of obtaining Bids on the Work. They do not confer a license or grant for any other use.

C. All documentation and submittals provided to Owner may be considered public documents under applicable laws and may be subject to disclosure under the Indiana Access to Public Records Act. By submitting a bid, Bidder recognizes and agrees that Owner will not be responsible or liable in any way for any losses that Bidder may suffer from the lawful disclosure of information or materials to third parties.

D. Owner accepts its legal obligations under IC § 5-14-3-4(a)(4) not to release any public record that constitutes a trade secret. To that end, any material requested to be treated as a confidential document, proprietary information, or trade secret must be clearly identified as such and readily separable from the balance of the bid or proposal. Such designation will not necessarily be conclusive, and Bidder may be required to justify why such material should not, upon written request, be disclosed by Owner under the applicable public records act.

1.7 INTERPRETATION, SUBSTITUTION, AND ADDENDA

A. Interpretation:

1. No oral interpretation or clarification will be made to any Bidder as to the meaning of the Bidding Documents. Every request for such an interpretation or clarification shall be made in writing, and submitted, by the Bidder, to the Architect.

B. Substitutions:

1. Each bidder represents that his bid is based upon the materials and equipment described in the Bidding Documents.
2. The materials, products and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution.
3. No substitution will be considered unless a written request for approval has been submitted by the Bidder, to the Architect, within ten (10) days prior to bid due date. Each such request shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including Drawings, cuts, performance and test data, and any other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment, or work that incorporation of the substitute would require, shall be included. The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of the proposed substitution shall be final.

C. Addenda:

1. No request for an interpretation or clarification of, or no request for a substitution received by the Architect earlier than ten (10) days prior to the date fixed for opening of bids will be given consideration. Every interpretation or clarification made to a Bidder or every proposed substitution approved, will be set forth in an Addendum to the Bidding Documents. Issued Addendum will be emailed or distributed electronically to all prospective bidders by the Printer not later than five (5) days prior to the date fixed for the opening of bids, except where such Addendum withdraws request for bids or postpones date for receipt of bids, or other reason as deemed necessary by the Architect. Failure of any bidder to receive any such Addendum shall not relieve any bidder from any obligation under his bid as submitted.
2. All Addenda so issued shall become a part of the Contract Documents. Indicate receipt of addenda on Bid Proposal Form. Failure to do so may result in rejection of bid.
3. Bidders shall not rely upon interpretations, clarifications, and/or approvals made in any other way.

1.8 ALTERNATES AND UNIT PRICES

A. Requested unit prices and alternatives are listed on the Bid Proposal Form and are described in detail under Section 01 22 00 Unit Prices and Section 01 23 00, Alternates.

1. NOTE: The terms "alternate" and "alternative" are used interchangeably in this Project Manual and on the Drawings.

B. The cost of each Alternate shall include omissions, additions, and adjustments of trades as may be necessary because of each change, substitution, addition, or omission.

C. Each bidder shall be responsible for bidding alternatives which affect the Work. No additional monies will be allowed after signing of contracts for failure to bid applicable Alternates.

D. If, during the progress of the Work, the Owner desires to reinstate alternates not included in the Contract, the Owner reserves the right to reinstate the alternates at the price bid by the contractor. If this action is not taken in sufficient time and causes delay in the progress of the work or causes the Contractor uncontrollable and justifiable additional expense, this expense shall be negotiated and resolved with the Owner by Change Order.

1.9 TIME FOR RECEIVING THE BIDS

A. Bids received prior to the time of opening will be securely kept unopened. The person whose duty it is to open them will decide when the specified time has arrived, and no bid received thereafter will be considered; No responsibility will be attached to the office for the premature opening of a bid not properly addressed and identified.

1.10 ARCHITECT'S COOPERATION DURING BIDDING PERIOD

A. Each bidder is requested to contact the Architect in the event that problems occur or questions arise in analyzing the Drawings and Specifications, where additional clarification or information would be helpful in the preparation of a proper bid.

B. The Architect will cooperate fully in connection with requests, and will provide information required, providing the Architect's ethical responsibilities are not encroached upon.

C. It is the general policy of the Architect to be as helpful as possible to bidders, insofar as is consistent with fair and open competition.

1.11 PREPARATION AND SUBMISSION OF BIDS

A. Bid Forms:

1. Bids must be submitted on Indiana State Board of Accounts Form No. 96 - Revised 2013, including the Supplemental Bid Proposal Form included in the Project Manual
2. Oral, telephonic, telegraphic or emailed Bids are invalid and will not receive consideration.

B. Preparation of Bid Forms:

1. Taxes, Permits, Inspections, Etc.:

a. All bid amounts are to include all applicable taxes, cost of all required permits and inspections as required by governing agencies and other tests or inspections, if any, assigned to the General Contractor in the Contract Documents. State sales tax is not to be included in the bid price. The Owner is sales tax exempt. The exemption number will be furnished by the Owner to the Contractor for his use.
b. State approval and fee incidental thereto will be obtained and paid for directly by the Owner through the Architect.

2. Indication of Amounts:

a. Each proposal shall have bid amounts written with ink or type written in both words and figures. Should there be any discrepancies between the words and figures indicating any amount in the proposal, the amount written in words shall be taken as the correct amount.

3. Time of Completion:

a. Each bidder shall state, in his proposal, the number of calendar days which he will require to complete the Work after formal Notice to Proceed is issued or Agreement with the Owner signed. The time so stated in his Bid Proposal will be the basis of establishing a completion date in the Contract.

C. Requirements for Signing Bids:

1. Any bid not signed by the individual making same, shall have attached to it a Power of Attorney evidencing authority to sign the bid in the name of the person for whom it is signed.
2. A bid submitted by a partnership shall be signed by one of the partners, or by an attorney in fact. If signed by an attorney in fact, there shall be a Power of Attorney attached to the bid evidencing authority to sign the bid, executed by the partners.
3. Bids which are submitted by a corporation shall have the correct name thereof and the signature of the president or other authorized officers of the corporation. Signatures affixed by secretary or assistant secretary shall be identified by signer manually "by_____".

D. Alternates, Unit Prices, Allowances:

1. All bidders are required to submit proposals for all requested alternates and unit prices. In the event the bidder does not desire to make a change from the base bid, he shall so indicate by using the words "No Change".
2. Failure of any bidder to submit proposals for any requested alternate and/or unit price shall be sufficient reason for rejection of his bid or acceptance of alternate by the Owner at no additional cost to the Bid.
3. Voluntary alternates will not be considered unless called for or approved by the Architect.
4. Refer to Section 01 23 00, Alternates, for the complete description of alternates.
5. Refer to Section 01 22 00, Unit Prices, for the complete description of unit prices.
6. Refer to Section 01 22 00, Unit Prices, for the complete description of unit prices.

E. Bid Security

1. Each bid must be accompanied by a bid security which shall not be less than five percent (5%) of the Base Bid. Submit bid security in the form of a certified check, or cashier's check. If a Bid Bond is to be used by a surety company, the Bid Bond shall not be less than five percent (5%) of the Base Bid. Bid bond shall Bid Bond AIA Form A310, or similar from an acceptable surety. No bid will be considered unless it is so guaranteed. The bid security shall insure the execution of the Contract and the furnishing of 100% Performance & Labor and Material Payment Bonds by the successful bidder, as specified in the Bidding Documents.

    a. Bidders whose principle place of business is not in the State of Indiana shall submit bid security in the form of a certified check only.

2. Bidder is authorized to use the bonding company's standard Bid Bond, in lieu of the AIA form specified above, providing the form is substantially the same.
3. Revised bids, whether forwarded by mail or telegram, if representing an increase in excess of two percent (2%) of the original bid, must have the bid security adjusted accordingly, otherwise, the revision of the bid will not be considered, and the original bid shall remain in force.
4. In case the Bid Bond is in the form of a certified check for 5% of the Base Bid, Owner may make such disposition of same as will accomplish the purpose for which it was submitted. Certified checks of unsuccessful bidders will be returned as soon as practicable after the opening of the bids.
5. In case the bid bond is in the form of a certified check, Owner may make such disposition of same as will accomplish the purpose for which it was submitted. Certified checks of unsuccessful bidders will be returned as soon as practicable after the opening of the bids.

F. Non Collusion Affidavit:

1. Each bidder shall furnish, with his bid, an affidavit that such bidder has not directly or indirectly entered into a combination, undertaking, collusion, or agreement with any other bidder or prospective bidder, or with any officer or members of the Owner which tends to or does lessen or destroy free competition in the letting of contracts sought for by these Instructions to Bidders.
2. Non Collusion Affidavit shall be properly notarized and with seal affixed.

G. Employment Practices:

1. Bidders and sub bidders shall not discriminate in employment practices.

H. Submission of Bids:

1. All bids must be submitted in duplicate in hard copy paper form inside a sealed envelope.

2. Bid documents shall be enclosed in envelopes (inner and outer), both of which shall be sealed and clearly labeled "West Noble Weight Room and Stadium Renovation", so as to guard against opening prior to the time set thereof. The bidder shall be responsible for the placement of his firm's name and address, the name of the Work, and the name of the project on the outside of both such bid envelopes.
3. A bid is invalid if it has not been deposited at the designated location prior to the time and date for receipt of bids indicated in the Advertisement for Bids, or prior to extension thereof issued to the bidders.
4. A bid is invalid if it has not been deposited at the designated location prior to the time and date for receipt of bids indicated in the Notice To Bidders, or prior to extension thereof issued to the bidders.
5. Telecommunicated bids, emailed or texted bids will not be considered.

1.12 MODIFICATION OR WITHDRAWAL OF BIDS

A. A Bidder with proper notice may withdraw or modify his Bid at any time prior to the scheduled time and date set for receipt of the Bids. Notice shall be in writing over the signature of the Bidder or by telegram; telegraphic notice must be confirmed in writing and postmarked on or before the time set for receipt of bids.

B. No Bid or any portion thereof, may be modified, withdrawn or canceled by the Bidder after the pronouncement of the closing of bids.

1.13 OPENING OF BIDS

A. The Advertisement for Bids indicates the time and place fixed for opening bids.

B. Bids received prior to the time of opening will be securely kept, unopened. The officer whose duty it is to open them will decide when the specified time has arrived, and no bid received thereafter will be considered.

C. No responsibility will be attached to an officer for the premature opening of a bid not properly addressed and identified.

D. Every bid received within the time fixed for the receiving of bids will be opened and read aloud, irrespective of irregularities therein. Bidders and other persons properly interested may be present, in person or by representative.

E. The amounts involved in alternatives requested will be read or disclosed as part of the requirements of this Article. Voluntary alternates will not be read.

F. The Owner, reserves the right to delay the time for opening of bids when, in his judgment, is desirable or necessary. Comply with IC 36-1-12-4(7).

1.14 DISQUALIFICATION

A. The Owner reserves the right to reject each and every bid, to waive informalities and irregularities in bidding, to accept and reject alternatives regardless of their order or sequence, unless otherwise called for on the Bid Proposal Form.

B. The Owner reserves the right to reject each and every bid, to waive informalities and irregularities in bidding, to accept and reject alternatives regardless of their order or sequence, unless otherwise called for on the Supplemental Bid Proposal Form.

C. The right is reserved to reject bids where an investigation of the available evidence of information does not satisfy the Owner that the bidder is qualified to properly carry out the terms of the Contract Documents.

D. Bona fide bids in a definite stated amount, without special clauses governing price of labor and material increases, shall be the only ones that will be considered. No contract shall be entered into carrying what is commonly known as an "Escalator Clause."

E. Bids which contain qualifications or conditions that are contrary to the text or intent of the Contract Documents, and which are inserted in the bid for the purpose of limiting or otherwise qualifying the responsibility of the bidder, outside of the text or intent of the Contract Documents, will be subject to disqualification.

F. The Owner also reserves the right to reject the bid or a bidder who has previously failed to perform properly or to complete contracts of a similar nature on time, who is not in a position to perform the Contract, or who has habitually, and without just cause neglected the payment of bills or otherwise disregarded his obligations to subcontractors, materialmen, or employees.

G. The ability of the bidder to obtain or qualify for a performance bond or labor and material payment bond shall not be regarded as a sole test of such bidder's competence or responsibility.

H. The bidder acknowledges the right of the Owner to reject bids and to waive informalities and irregularities in bids received. In addition, the bidder recognizes the right of the Owner to reject a bid, if the bidder failed to furnish required bid security, or to submit the data required by the bidding documents, or if the bid is incomplete or irregular.

1.15 AWARD OF CONTRACT

A. When Award is Effectual:

1. The Contract shall be deemed to have been awarded when notice of award shall have been duly served upon the awardee (i.e., the bidder or bidders to whom the Owner contemplates awarding the Contract or Contracts) by some officer or agent of the Owner duly authorized to give such notice.

B. Award of Contract, Rejection of Bids:

1. The Contract will be awarded to the lowest responsive and responsible bidder complying with the conditions of the Bidding and Contract Documents, provided his bid is reasonable, and it is to the interest of the Owner to accept it. The bidder to whom the award is to be made, will be notified at the earliest possible date. The Owner, however, reserves the right to reject any and all bids, and waive any informality in bids received whenever such rejection or waiver is in the interest of the Owner.
2. In determining the lowest legal bidder, the following elements, in addition to those above mentioned, will be considered:

    a. Maintains a permanent place of business,
    b. Has adequate plant equipment and personnel to do the work properly and expeditiously,
    c. Has a suitable financial status to meet the obligations incidental to the work, and,
    d. Has appropriate technical experience.
    e. The bidder's financial ability to complete the Contract successfully without resort to its Surety;
    f. The bidder's prior experience with similar work on comparable or more complex projects.
    g. The bidder's prior history for the f]successful and timely completion of projects;
    h. The bidder's prior experience on other projects of the Owner, including the bidder's demonstrated ability to complete its work on these projects in accordance with the Contract Documents

i. The bidder's compliance with federal, state, and local laws, rules, and regulations, ~~including, but not limited to, the prevailing wage law.~~
j. Depending upon the type of the work, other essential factors.

3. The Bidder shall submit to the Architect a properly executed Contractor's Qualifications Statement, AIA Document A305, and include with the Bid Proposal.
4. The Owner reserves the right to accept any, or all, or any combination of the requested alternates, and accept them in any order as he may deem it to be in his best interest, in determining the lowest responsible bidder.

C. Performance Bond, Payment Bond, and Certificates of Insurance:

1. The successful Bidder shall furnish Performance & Labor and Material Payment Bonds in a penal sum of one hundred percent (100%) of the total amount payable by the terms of the Contract. Such bond shall be in a form and by a bonding company acceptable to the Owner.
2. The successful bidder shall furnish Certificates of Insurance covering Workmen's Compensation, Public Liability, Property Damage and any other which may be required, as stated in Supplementary Conditions.
3. No Contracts can be issued and signed until the Performance & Labor and Material Payment Bonds, and Certificate of Insurance have been furnished to the Owner by the successful bidder.

D. Execution of Contract:

1. The successful bidder shall execute the Contract with the Owner in the Standard AIA Form AIA A101, 2017 ed., in such number of counterparts as the Owner may request.
2. Such Performance & Labor and Material Payment Bonds, and such Certificates of Insurance, will be furnished, and such Contract shall be executed and delivered to the Owner, by the successful bidder, within ten (10) days after he has received notice of the acceptance of his bid.
3. The Contractor shall submit with his bid, in writing, the names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for each principal portion of the Work.

a. After submission of this list by the bidder, and after approval by the Owner, and Architect, it shall not be changed unless written approval of change is authorized by the Owner, Architect,

4. The failure of the Awardee to **execute** the Contract and to supply the required bonds when the Agreement is presented for signature, or within such extended period as the Owner may grant, based upon reasons determined adequate by the Owner, shall constitute a default; and the Owner may either award the Contract to the next responsible bidder or re-advertise for bids. In the event of a default, the Owner shall have the right to declare the amount of the bid security forfeited. It shall be a further condition that the Owner not collect more on a defaulted bid than the difference between the defaulted bid amount and the bid of the firm to which the award is made, after giving due weight and consideration to alternatives accepted.

E. Liquidated Damages for Failure to enter into Contract:

1. The successful bidder, upon his refusal to execute and deliver the Contract, Bonds, Certificates and other required documents, within ten (10) days after he has received notice of the acceptance of his bid, shall forfeit, to the Owner as liquidated damage for such failure or refusal, the bid security (5%) deposited with his bid.

1.16 CONTRACTOR'S REQUIREMENTS SPECIFIC TO INDIANA STATE LAW

A. Contractor submitting bids must be qualified by the State Certification Board or the Indiana Department of Transportation on accordance with IC 5-16-13-10© or IC 8-23-10-0.5(d).

B. Contractors shall E-Verify each employee on the project in accordance with IC 22-5-1.7-11.1.

C. Contractors cannot pay employees in cash in accordance with IC 5-16-13-11(2).

D. Contractors shall certify that they are compliant with the federal Fair Labor Standards Act (FLSA); Indiana worker's compensation laws; Indiana self-insurance laws; Indiana unemployment insurance laws; Indiana drug-testing program laws; the Indiana Minimum Wage Law; and Indiana journeyman training programs where applicable. IC § 36-1-12-15(a); IC § 5-16-13-11(3)-(7).

E. Contractors shall certify that they are compliant with antidiscrimination laws. IC § 36-1-12-15(b).

F. Steel Products. Pursuant to IC § 5-22-15-25, steel or foundry products that are to be used or supplied in the performance of this Project or any subcontract related thereto, only steel or foundry products made in the United States shall be used or supplied.

G. The General Prime Contractor shall contribute at least 15% of the contract price in work, materials, services, or any combination thereof. IC § 5-16-13-9.

H. In accordance with IC § 4-13-18-5, Bidder shall submit with the Bid a written plan for a program to test Bidder's employees for drugs. A contractor that is subject to a collective bargaining agreement that establishes an employee drug-testing program shall only submit a copy of the relevant part of the collective bargaining agreement establishing the program. Failure to submit a written plan for an employee drug-testing program, or relevant parts of a collective bargaining agreement establishing an employee drug-testing program shall result in the Bid being rejected as non-responsive.

I. Bidder's employee drug-testing program must satisfy all of the following requirements:

1. In accordance with IC § 4-13-18-5, if Bidder's employee drug-testing program is established by a collective bargaining agreement it shall include the following:

   a. Provides for the random testing of the contractor's employees.
   b. Contains a five (5) drug panel that tests for the following substances:

      1) amphetamines;
      2) cocaine;
      3) opiates (2000 ng/ml);
      4) PCP;
      5) THC;

   c. Imposes disciplinary measures on an employee who fails a drug test which includes at a minimum all of the following:

      1) the employee is subject to suspension or immediate termination;
      2) the employee is not eligible for reinstatement until the employee tests negative on a five-(5)-panel test certified by a medical review officer;
      3) the employee is subject to unscheduled sporadic testing for at least one (1) year after reinstatement; and
      4) the employee successfully completes a rehabilitation program recommended by a substance abuse professional if the employee fails more than one (1) drug test.

2. In accordance with IC § 4-13-18-6, if Bidder has its own employee drug-testing program (which is not included as part of a collective bargaining unit), Bidder's program shall include the following:

   a. Subject each of the contractor's employees to a drug test at least one (1) time each year.

b. Provide for random employee testing, with at least two percent (2%) of the contractor's employees randomly selected each month for testing.
c. Contain at least a five (5) drug panel that tests for:

1) amphetamines;
2) cocaine;
3) opiates (2000 ng/ml);
4) PCP;
5) THC.

d. Impose progressive discipline on an employee who fails a drug test with at least the following progression:

1) after the first positive test, an employee must be:

a) suspended from work for 30 days;
b) directed to a program of treatment or rehabilitation; and
c) subject to unannounced drug testing for one (1) year from the day the employee returns to work.

2) after a second positive test, an employee must be:

a) suspended from work for 90 days;
b) directed to a program of treatment or rehabilitation; and
c) subject to unannounced drug testing for one (1) year from the day the employee returns to work.

3) after a third or subsequent positive test, an employee must be:

a) suspended from work for one (1) year;
b) directed to a program of treatment or rehabilitation; and
c) subject to unannounced drug testing for one (1) year from the day the employee returns to work.

e. The program may require dismissal of the employee after any positive drug test or other discipline more severe than described above. An employer complies with the requirement to direct an employee to a program of treatment or rehabilitation if the employer either advised the employee of any such program covered by employer-provided insurance, or, if the employer's insurance does not provide insurance coverage, the employer advises the employee of agencies that provide such programs.
f. In accordance with IC § 4-13-18-7, if awarded a contract for the Project, Bidder must implement the employee drug-testing program as described in the plan or collective bargaining agreement. Owner shall cancel the contract with the successful Bidder if it:

1) fails to implement its employee drug-testing program during the term of the contract;
2) fails to provide information regarding implementation of the employee drug-testing program at the request of Owner; or
3) provides Owner with false information regarding the Contractor's employee drug-testing program.

1.17 PUBLIC DISCLOSURE

A. All documentation and submittals provided to Owner may be considered public documents under applicable laws and may be subject to disclosure under the Indiana Access to Public Records Act. By submitting a bid, Bidder recognizes and agrees that Owner will not be responsible or liable in any way for any losses that Bidder may suffer from the lawful disclosure of information or materials to third parties.

B. Owner accepts its legal obligations under IC § 5-14-3-4(a)(4) not to release any public record that constitutes a trade secret. To that end, any material requested to be treated as a confidential document, proprietary information, or trade secret must be clearly identified as such and readily separable from the balance of the bid or proposal. Such designation will not necessarily be conclusive, and Bidder may be required to justify why such material should not, upon written request, be disclosed by Owner under the applicable public records act.

1.18 TIME OF COMMENCEMENT AND COMPLETION

A. The General Prime Contractor shall commence Work for this project and shall complete the Work as established for the project, as follows:

1. Time of Commencement = May 1st, 2024

2. Time of Completion = July 15th, 2025

a. General Prime Contractor (Bidder) shall indicate on the Bid Proposal Form the number of consecutive calendar days required to complete the project. That date will strictly be used to establish the construction schedule and will be used for the Substantial Competition Date for the project. This date also determines the start of the Liquidated Damages Clause date as specified in Section 00 73 00 Supplementary Conditions, Article 9.8.7 in this Project Manual.

END OF SECTION **00 21 13**

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SECTION 01 11 00- SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 PROJECT DESCRIPTION

A. The Project consists of a Addition and Renovation to West Noble Weight Room and Stadium as shown on Contract Documents prepared by **©ELEVATUS Architecture,** Fort Wayne, Indiana, dated 2/12/2024.

B. The Work consists of all items as indicated on the Drawings and as specified in the Project Manual and those items of construction not indicated but normal and necessary and usual in the construction industry for construction of a building project.

1.3 WORK UNDER SINGLE CONTRACT

A. Work for the complete construction of the Project will be under a Single Multiple Prime Contract with the Owner**.** The General Prime Contractor will manage the construction of the Project.)

1.4 ADMINISTRATIVE RESPONSIBILITIES OF GENERAL PRIME CONTRACTOR CONSTRUCTION MANAGER

A. The General Prime Contractor shall be responsible for the maintenance of the Construction Manager Schedule and the general supervision of every phase of the Work.

1. Requirements for a specific trade of contract will be described by the General Prime Contractor related to that trade or contract. Such requirements may, however, be described in other Sections of the Contract Documents. Contractors will be held responsible for having carefully examined all Drawings and read all Divisions of the Specifications and all Contract Drawings, Details and Addenda to avoid omissions or duplications, and to ensure a complete job

B. Contractor's shall be responsible to field verify the conditions of the site and conditions affecting new building construction..

C. Contractors shall cooperate with and assist the General Prime Contractor in the preparation of construction progress and procedures, schedule of product deliveries, and their effect on the overall project progress and completion. Other subcontractors shall cooperate in getting their Work completed according to the schedule as prepared and maintained by the General Prime Contractor. Each subcontractor shall immediately notify the General Prime Contractor of a delay in delivery of products or the scheduled date of completion that may affect the total progress of construction.

D. The Owner will furnish the topographical survey, either as a part of these Drawings or separately, giving the general topographical lines existing at the site and the property lines.

E. Contractors required to make connections to existing utilities, especially sewerage where gravity flow occurs, shall verify grades and locations at points of such connections and shall notify the Architect of circumstances which would adversely affect the proper flow or connection to such facilities.

1.5 CONTRACTOR USE OF PREMISES

A. Coordinate use of the premises, under direction of the General Prime Contractor.

B. General Prime Contractor shall obtain and pay for the use of additional storage as needed for operation.

C. Limit use of the premises to construction activities in areas indicated or as directed by the General Prime Contractor.

1. Confine operations to areas within Contract limits as may be indicated. If not indicated, the General Prime Contractor shall coordinate with the Owner and the Architect. Portions of the site beyond areas in which construction operations occur are not to be disturbed.
2. Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's Representatives, Architect and Engineer's at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on site.
3. Each contractor shall limit his use of the premises for work and for storage to allow for work by other contractors as directed by the General Prime Contractor.

D. Each contractor shall assume complete responsibility for the protection and safekeeping of products under this Contract, stored on the site.

E. Each contractor shall move his stored products which interfere with operation of the Owner or another subcontractor.

1.6 TAXES

A. Taxes which the General Prime Contractor and subcontractors must pay which are legally enacted at the time bids are received, whether or not effective, shall be paid by the contractors.

1.7 LABOR AND MATERIALS

A. Unless otherwise specifically noted, General Prime Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated at the Work.

B. General Prime Contractor shall enforce strict discipline and good working order among his employees or other persons carrying out Work of his Contract and shall not permit employment of unfit person or persons or anyone not skilled in the task assigned to them.

1.8 CUTTING AND PATCHING

A. Refer to Section 01 73 29 for provisions on this subject.

1.9 PROJECT COORDINATION

A. General Prime Contractor and Subcontractors shall verify all building dimensions shown on the Drawings and as-built and obtain all measurements required for proper execution of Work.

1.10 PERMITS, FEES, AND NOTICES

A. The General Prime Contractor will secure the general building permit for the Owner. Each subcontractor shall secure and pay for other permits, governmental fees, and licenses necessary for the proper execution and completion of his Work, which are applicable at the time the bids are received. Fees to install utilities on Owner's property shall be included in the Bid of the contractor doing the Work. Each bidder shall be responsible for contacting the local Governing Agency for such cost information and requirements to be included in their Bid.

B. Utility Tie-Ins: Shall be arranged with local utility company and other involved parties for minimum interruption of service.

C. Inspections of installed work shall be performed by the Governing Authority or Agency and/or utility company as arranged for by the General Prime Contractor. Work shall not be covered until inspected or approved in writing by the governing authority.

D. Each contractor shall give notices and comply with laws, ordinances, rules, regulations, and orders of public authorities bearing on the performance of his Work. If a Contractor observes that the Contract Documents are at variance therewith, he shall promptly notify the Architect in writing, and necessary changes shall be adjusted by appropriate notification. If a Contractor performs Work knowing it to be contrary to such laws, ordinances, rules, and regulations, and without such notice to the Architect, he shall assume full responsibility therefore and shall bear the costs attributable thereto.

1.11 PROJECT COORDINATION

A. General Prime Contractor shall provide full-time, on-site supervision including a competent Project Coordinator and competent Superintendent to coordinate all aspects of the Work with the subcontractors' Work. It shall be the full responsibility to coordinate with all phases of Architectural, Structural, Mechanical (including Plumbing, Heating, Ventilation, and Sheet Metal Trades), Electrical Work, Site Work, Special Equipment, Kitchen Equipment, Detention Equipment, Security Electronics and all the Work as defined on the Contract Drawings, Project Manual and Addenda. All subcontractors shall fully cooperate with each other, General Prime Contractor, Architect, Engineer's and the Owner and Owner's Representative.

B. General Prime Contractor shall coordinate the performance of all subcontractors in the utilization of the site, as well as in the actual performance of their contractual obligations to the Owner.

C. Each contractor shall verify all dimensions shown on the Drawings and obtain all measurements required for proper execution of Work.

D. Each contractor shall see that sleeves and inserts for pipes, conduits, and similar items shall be correctly placed and kept in their proper positions in forms, walls, partitions, and floors, and not displaced by the placing of concrete or other construction work. All items shall be placed in ample time so as not to delay concrete operations or other work. Do not place sleeves so they pass vertically through beams, girders, and similar construction, unless locations are approved by the Architect. Locations of chases are indicated in the mechanical and electrical drawings. The separate Contractor and/or Subcontractor of the Work involved shall be responsible for inclusion of these items in the work and shall advise the Contractor and Architect of all required changes.

E. Before commencing work, each Contractor shall examine all spaces, surfaces, and areas indicated on the Drawings to receive their Work. Report necessary corrections in writing immediately to the General Prime Contractor and Architect. Do not proceed until corrections (if any required) have been made. Commencing work signifies the contractor's acceptance of said spaces, surfaces, areas, and of job conditions.

F. Special Equipment, Other Equipment

1. Copies of Equipment Specifications and Shop Drawings shall be made available to the Architectural Trade contractors, Mechanical subcontractor, and Electrical subcontractor and all other subcontractors for information by which they shall determine the amount of Work to be done as described herein and as may be defined by the General Prime Contractor.
2. As the building project nears completion, certain rooms may be made ready to accept the equipment intended for them.
3. The General Prime Contractor and all subcontractors shall cooperate with the suppliers' installation personnel by providing unobstructed areas in which they may assemble and install equipment. These areas shall be adequately heated and lighted with temporary or permanent power available for tools or testing purposes.
4. The responsibilities of the Electrical and Mechanical Work Subcontractors shall be as follows:

    a. Final connections of equipment to building electrical and mechanical rough-ins will be made by the Electrical and Mechanical Work Subcontractors (interconnection between items of equipment will be done by the installing personnel, not by the Electrical or Mechanical Work Subcontractors). Equipment requiring only plug-in connections shall have floor outlets or wall outlets installed in accordance with these documents.

G. Temporary Omission of Work

1. If any materials and finishes are of such nature that it is necessary to temporarily omit certain portions of work (as illustrated on Drawings or specified in Specifications) in order to make final installation, the contractor whose work is involved shall omit such parts of this work or finish as necessary until other said work and/or materials have been installed and shall then return and install such omitted parts of his work as part of this Contract and without additional cost to the Owner.

1.12 TESTS AND ADJUSTMENTS

A. If the Contract Documents, laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction require any portion of the Work to be inspected, tested, or approved, the contractor shall give the Architect 48 hours advance notice so he may observe such inspection, testing, or approval as may be required. The General Prime Contractor shall bear all costs of such inspections, tests, or approvals conducted by or for public authorities.

B. The complete installation of piping, wiring, and working components, including all operating equipment and systems, shall be subjected to test at full operating conditions. The General Prime Contractor or subcontractor shall make all necessary adjustments and/or replacements which are necessary to fulfill the requirements of the Contract Documents, and to comply with all codes and regulations which may apply to the entire installation. The complete installation shall be left ready in all respects for use by the Owner. The General Prime Contractor shall bear all costs of such testing and adjustments.

C. Unless otherwise provided, the General Prime Contractor shall bear all costs of other inspections, tests, and approvals as may be required by Lawrence County or the State of South Dakota.

1. The General Prime Contractor shall bear all costs for scheduled pick-ups or tests if the testing agency makes a trip to the site and material, or work is not ready for pick up or tests.

1.13 VERIFICATIONS OF DIMENSIONS

A. When verification of dimensions is required, the contractor requiring said verification for the construction or fabrication of his material shall be the contractor responsible for procurement of the field information.

1.14 PROJECT SECURITY (Contractors Equipment and Tools)

A. Each subcontractor and the General Prime Contractor shall be responsible for securing his work and equipment at the close of each workday.

1.15 LIQUIDATED DAMAGES

A. The Contract Time shall be as stipulated in the Bid Form, or Summary of the Work, or Pre-Bid Schedule. By execution of the Agreement the Contractor acknowledges and agrees that the Owner will suffer substantial losses difficult to ascertain with precision if the Project is not substantially complete on the date set forth in the Form of Proposal and agreed upon in the Contract or if not finally completed within the Contract Time. For each calendar day beyond the date of Final Completion that the Work remains incomplete liquidated Damages will be assessed at the rate of One Thousand Dollars ($1000.00) per calendar day. The sum of One Thousand Dollars ($1000.00) will be withheld for each and every day that the Contractor fails to complete the Work within the Contract Time, delays the overall Project schedule, or delays the completion of the Project. If the Contractor fails to maintain the schedule of the Work and causes delays as described above, the sum of One Thousand Dollars ($1000.00) for each day may be withheld from the monthly progress payment for each day the Project is being delayed. The retained sum will be paid to the Contractor when the lost Contract Time is regained and/or an agreement is accepted to extend the Contract Time.

B. The Contractor understands and agrees by execution of the Contract that all remaining Work defined by the Architect as Punchlist Work at Substantial Completion shall be completed within thirty (30) days from the date of Substantial Completion and, that if the Punchlist Work is not completed entirely within the Punchlist Time period, the Owner shall suffer financial loss and, Liquidated Damages will be assessed in the amount of five hundred dollars ($500.00) per calendar day for any item of the Work that remains incomplete.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 11 00

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SECTION 07 41 13 - PREFORMED METAL ROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Preformed metal roofing and related Work as specified herein, and as required for a complete and watertight installation. Work under this Section includes, but is not limited to:

1. Metal roofing and fascia.
2. Flashing, closures, and cap trim.
3. Metal gutters and downspouts.
4. Vent roof jacks and mechanical curbs.
5. Clips, accessories, and fasteners.
6. Ice and snow guards.
7. Sealants for components under this Section.
8. Membrane underlayment.
9. Splashblocks.

1.2 SUBMITTALS

A. Submit complete manufacturer prepared shop drawings for approval in accordance with Division 1 requirements. Shop drawings shall show profile and gage of items, location and type of fasteners; location, gage, shape, and method of attachment of trim; and other details as may be required for a weathertight installation.

1. Do not proceed with manufacture prior to review of shop drawings. Do not use Drawings prepared by Architect for shop or erection drawings.
2. Shop drawings shall show methods of erection, elevations, and plans of roof panels, sections, and details, anticipated loads, flashings, roof curbs, vents, sealants, interfaces with materials not supplied, and proposed identification of components parts and their finishes.

B. Submit 3 copies of appropriate color selection materials.

C. Submit pre-roofing conference meeting minutes.

D. Submit warranties as specified herein.

1.3 QUALITY ASSURANCE

A. Applicable standards - Comply with the provisions of the latest editions for the following codes, specifications, and standards:

1. AISC: "Steel Construction Manual," American Institute of Steel Construction.
2. AISI: "Cold Form Steel Design Manual," American Iron and Steel Institute.
3. ASTM A792-AZ55: "Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process."
4. ASTM E 1680: "Standard Test Method for Rate of Air Leakage through Exterior Metal Roof Systems."
5. ASTM E 1646: "Standard Test for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Differential."
6. ASTM A 653: "Standard Specifications for Steel Sheet, Zinc-Coated (Galvanized) Steel or Zinc-Iron Alloy-Coated (Galvanized) by Hot-Dip Process."

B. Manufacturer's Qualifications: Manufacturer shall have a minimum of 10 years successful experience in manufacturing panels of this nature, in a permanent, stationary, indoor production facility.

C. Installer's Qualifications: Installer shall have been actively installing the type of roofing system defined in these Specifications for a minimum of 5 years and be approved by the manufacturer of the system being installed.

D. Design: The preformed metal roof system shall be designed to sustain the specified loads in accordance with governing building codes in the county and state which this Project is located in. Components of the preformed metal roof system shall meet the design loads and applied in load combinations as specified in governing building codes, without exceeding the allowable working stresses.

E. When tested in accordance with ASTM E 1680 and ASTM E 1646, the panel assembly shall show no more than 0.01 cfm/ft2 of air infiltration at 6.24 psf test pressure and no water leakage at 12 psf test pressure for 15 minutes with a volume spray of 5 gallons per hour.

F. Structural: Uniform load capacity shall be determined by testing in accord with the principles of ASTM E 330 adapted to testing of formed sheet panels by clarifying specific sections of this standard as follows:

1. Roof test specimens shall be representative of the main body of the roof, free from influence of perimeter conditions. The setup shall be continuous over one or more supports and contain at least 5 panel widths.
2. No roof attachments are permitted at the sides other than the standard gable or rake condition. For uplift tests, at least one end seal shall be flexible and in no way restrain the crosswise distortion of panels. One end may simulate an eave condition if at least 12 feet away from the mid-roof clip under evaluation.
3. Roofing panels and accessories shall be production material of the same type and thickness proposed for use on the Project.
4. Longitudinal seals or plastic film shall not span any crevice or cracks that may tend to separate under pressure (e.g. plastic films used to seal the chamber must be applied into the side seam of the panel so as to apply a uniform static pressure to the entire cross section of the panel).
5. Design capacity for conditions of gage, span or loading other than those tested may be determined by the interpolation of test results in accord with the AISI Cold Formed Steel Manual. Extrapolation outside the range of the tests is not acceptable. In addition to the clarified ASTM 330 testing, the system, as installed, shall carry an Underwriters Laboratory Wind Uplift Class 90 rating in addition to and not in lieu of other performance criteria set forth by this specification.

G. Weathertightness: When tested in accord with the principles of NAAM TM-1, the roof system without sealant in the ribs shall show no leakage when exposed to dynamic rain and wind velocity up to 70 mph for 5 minutes.

H. Thermal Cycle Test: An assembly consisting of clips, 3 or more panels in width, and spanning 3 or more supports with clips positively loaded to 10 pounds shall resist 100,000 thermal cycles and show no visible signs of wear from the exterior and erode no more than 25 percent of the panel of clip material from the underside (non-exposed surfaces).

I. Roof system shall comply with ASTM E 1592, "Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference", latest edition.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver panels to job site properly packaged to provide against transportation damage.

B. Handling: Exercise extreme care in unloading, storing, and erecting panels to prevent banding, warping, twisting, and surface damage.

C. Storage: Store materials and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation to panels to prevent condensation build-up between panels.

1.5 JOB CONDITIONS

A. Pre-Roofing Conference:

1. Before installation of the roofing and associated work, meet at the Project site with the installer, the installer of each component of associated work, the installers of deck or substrate construction to receive roofing work, the installers of other work in and around roofing that must follow the roofing work (including Mechanical Work), the Architect, and other representatives directly concerned with performance of the work, including (where applicable) insurers, test agencies, product manufacturers, governing authorities, and the Owner. Record (by Contractor) the discussions of the conference and the decisions and agreements (or disagreements) reached and furnish a copy of the record to each party attending. Review foreseeable methods and procedures related to the roofing work including, but not necessarily limited to, the following:

a. Review Project requirements (Drawings, Specifications, and other Contract Documents).
b. Review required submittals, both completed and yet to be completed.
c. Review status of substrate work (not by the Metal Roofing Installer), including drying, structural loading limitations, and similar considerations.
d. Review required inspection, testing, certifying, and accounting procedures.
e. Review regulations concerning code compliance, environmental protection, health, safety, fire, and similar considerations.
f. Consider each party's extant judgment, as advanced in the interest of successful completion of Work.

1.6 WARRANTY

A. General: Guarantees/warranties shall include, but not be limited to, preformed metal roofing, fascias, roof insulations, flashings, cap flashings, closures and trims, fasteners, accessories, sealants, gutters, and watertight connection to downspouts.

1. Guarantee/warranty period shall begin on the Date of Substantial Completion for the Project or such date that the roof is accepted by the Architect and Owner.

B. Installer's Material and Workmanship Warranty: The Contractor shall furnish to the Owner a written guarantee covering the roofing and flashing work including the installation of products furnished by others and installed under this Section of the Work against defects in materials and workmanship for indicated warranty period. Guarantees are not intended to serve as protection against poor workmanship or inferior or improper materials at the time the roof is installed, but are for the purpose of protecting the Owner against future failures during the intended life of the roof covering.

1. Warranty Period: 5 years from Date of Substantial Completion.

C. Manufacturer's Finish Warranty: Preformed metal roofing manufacturer shall furnish to the Owner a written guarantee covering the finish of exposed coated metal surfaces against blistering, peeling, cracking, flaking, checking, chipping, rusting, and excessive chalking and color change for indicated warranty period.

1. Warranty Period: 20 years from Date of Substantial Completion.

D. Manufacturer's Weathertightness Warranty: Provide manufacturer's weathertightness warranty equal to Industry Standard weathertightness warranty for indicated warranty period.

1. Repairs required, either permanent or temporary, to preformed metal roofing or roof flashings under this guarantee to keep the roof watertight shall be started within 3 days after notice of the need for repairs. Should the Contractor fail to make such repairs within a reasonable time period, the Owner may have such repairs made and charge the cost to the Contractor.
2. Warranty Period: 20 years from Date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Acceptable Manufacturers

1. "VSR II Architectural Roof System" by Butler Manufacturing, Kansas City, MO
2. "Zee-Lock Panel" by Berridge Manufacturing Company, San Antonio, TX
3. "Una-Clad UC-6" by Holcim/Elevate, Nashville, TN
4. “SMI 2.0” MS” by Sheffield Metals, Cleveland, OH

B. Preformed metal roofing shall be 2" high, vertical leg field crimped, standing seam panels with concealed fasteners.

C. Metal sheets or coils selected for forming into panels must be cut to size before receipt of finish coating or have cut edges specially coated with similar film of same applied finish after being sized. Actual finish and coating method intended for provision must appear on submitted shop drawings.

2.2 DESIGN OF SYSTEM

A. Panel shall be designed in accordance with sound engineering methods and practices and in accordance with the latest edition of AISI's "Specification for the Design of Cold Formed Steel Structural Members."

B. Roof structure shall be designed with proper recognition for the "floating system" which must exist to have a roof panel that meets expansion and contraction requirements.

C. Panel shall be designed so that damaged panels may be replaced without interfering with adjacent panels. Replacement shall not require the use of through the roof fasteners.

D. Roof system shall have Underwriters Laboratories UL-90 wind uplift classification and comply with Indiana ASCE 7, latest edition.

E. Wind Loads:

1. The wind load on a roof shall be proportioned and applied as an uplift force according to and as recommended by ANSI 58.1.

F. Design of system shall conform to ASTM E 1592.

2.3 MATERIALS

A. Panels shall be fabricated in full lengths from ridge to eave without end laps. Panels shall be 16 inches wide maximum with concealed anchors that resist wind uplift yet permit expansion and contraction with temperature changes. Standing ribs 2 inches high shall have a continuous groove capillary break. Ribs shall be securely locked over anchor clips with an electrically driven, field operated, roll forming tool. Individual panels shall be removable for replacement of damaged material. A minimum of two, 3/8 inch high intermediate stiffener ribs shall be located in the flat pan to minimize oil-canning and telegraphing of structural members, striated panels are also acceptable. Panels shall be prefinished 50 ksi steel per ASTM A 792, latest edition, ("Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process") in 24 gauge minimum.

1. 24 gauge galvanized G-90 panels finished with full strength Kynar 500 coating as specified above are acceptable.
2. Optional Galvalume sheet shall be produced in accordance with ASTM A792/A792M and shall have a coating designation of AZ50.
3. Use clean, dry gloves during handling and installation.
4. Care shall be exercised to prevent the roofing panels from sliding over each other during shipment and installation.

B. Clip angle "bearing plate" shall be a minimum of 18 gauge 36,000 psi G90 hot dip galvanized steel. The concealed backing plate shall have recessed pre-punched holes for deck attachment.

C. Concealed clips shall be not less than 24 gauge galvanized coated, 50,000 psi minimum yield or nonmagnetic stainless steel. Clip design is to be such that it will accommodate expansion and contraction requirements while being anchored securely to structure.

D. Concealed fasteners shall be self drilling, self tapping sheet metal screws of SAE #1022 steel with 0.0003 inch minimum zinc coating meeting Federal Specification QQ-Z325 Type II.

E. Exposed fasteners shall be self tapping, stainless steel sheet metal screws. Provide self drilling, self tapping screws where required by conditions.

F. Roofing panels shall be manufactured in continuous lengths to eliminate perpendicular panel end laps. End laps will not be allowed.

2.4 ROOF SYSTEM ACCESSORIES

A. Ridge Cap:

1. Closure strips formed to fit the roof panel profile shall be provided as required. The closure shall be closed cell "EPDM" synthetic rubber or factory formed metal closure to match roofing panel, or manufacturer's standard watertight detail and components.
2. Integrated steel roof curbs shall be fabricated with sides made in the form of roof panels and seamed directly to the roof panel during erection. Weathertight end laps shall require the roof panel to lap over the curb flange on the high side and curb flange to lap over the roof panel on the low side.

B. Gutter, Downspout, Trim, and Flashings

1. Gutters, downspouts, ridge cap, and curbs shall be furnished in 24 gauge G90 hot dip galvanized steel or Galvalume with Kynar 500 color finish on all exposed sides and edges, matching the roof panel finish. Unexposed sides and edges shall be standard baked-on finish. Form to configuration indicated on the Drawings. Provide gutter straps of 24 gauge galvanized steel, color and finish to match gutter and roof panels. Custom color required. Provide manufacturers standard gutter design.
2. Fascia, eave, and rakes shall be 22 gauge G90 hot dipped galvanized steel or Galvalume with Kynar 500 color finish on all exposed sides and edges in colors as selected by Architect. Color finish shall be air-dried Kynar 500 finish in custom color.

C. Sealant: The standard of quality shall be that of a reputable and established sealant manufacturer, approved by the manufacturer of the metal building in which the sealant is used. Sealants shall have good cohesion as well as good adhesion to the protective coated metal and shall not be corrosive to components on which it is applied. Each shall have adequate handling characteristics during normal ranges of construction or erection temperatures. The sealant shall be one that will retain its weather sealing properties under the conditions for which it is used and each (sealant) is recommended for only the applications listed hereafter.

1. Extrudable sealant, non-migratory, nondrying, and non-skinning synthetic elastomer base material conforming to the National Association of Architectural Metal Manufacturer's NAAMM Standard SS-1a-68, and except for the "tack free time" shall conform to the performance requirements of Federal Specification TTC-598-b Type 1. Use at the following locations:

   a. Factory applied sealant in longitudinal ribs of standing seam roof panels.
   b. Spot sealing laps (where applicable) of standing seam roof panels.
   c. Sealing ridge cover and miscellaneous flashing.
   d. Sealing curbs for roof accessories.

2. Extruded butyl material conforming to performance requirements of Military Specification #MIL-C-18969B Type II Class B. With the exception of the "compressor set" requirement, it shall also conform to the National Association of Architectural Metal Manufacturer's NAAMM Standard #SS-1b-68 Class A for nonskinning resilient preformed compounds. Size of tape shall be that recommended by the building manufacturer. Use at the following locations:

   a. Sealing swaged end laps of standing seam roof panels.

3. Extrudable sealant, nondrying (but skinning) and nonmigratory synthetic elastomer base material, conforming to the performance requirements of Federal Specification TT-C-598-b Type 1. Use at the following locations:

   a. Sealing ridge channels.
   b. Sealing exposed seams, butts, and laps at roof curbs.

D. Pipe Flashings:

1. Provide (ethylene propylene diene monomer) rubber flashings for vent pipe penetrations in metal roof. Provide clamping rings, sealant, and fasteners as recommended by manufacturer.

E. Ice and Snow Guards: “ColorGard□by S-5!, Metal Roof Innovations, Iowa Park, TX; or equal.

1. Color: As selected by Architect

F. Membrane Underlayment: Provide one of the following:

1. "WinterGuard HT," CertainTeed Corp., Valley Forge, Pennsylvania.
2. "Grace Ultra," Grace Construction Products, Cambridge, Massachusetts
3. "TW Metal and Tile Underlayment," Tamko Roofing Products, Joplin, Missouri
4. “Sharkskin Ultra SA”, by Kirsh Building Products, Simi Valley CA

G. Provide manufacturers standard valley flashing for valleys. Gauge and finish shall match roof panels as a minimum. All valleys shall be watertight and shall be included in the manufacturer's standard roof watertightness warranty. Provide all items as required for a complete installation in every respect.

H. Splashblocks shall be precast concrete, 12 inches wide by 30 inches long; 3000 psi minimum and provide and integral water repellent. Provide one splashblock for each downspout that empties on the low roof and the grade.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Areas on which insulation and metal roofing is to be installed shall be completely secured and free of dirt and debris.

B. This Contractor shall give written notice to the Architect of defects in substrate that would be detrimental to metal roofing installation before start of Work.

C. Start of insulation and metal roofing installation shall constitute acceptance of substrates by this Contractor.

D. Membrane Flashing:

1. Install eave and valley membrane directly on the top layer of insulation in strict accordance with manufacturer's recommendations from perimeter of roof to 2 feet inside wall line of building, including rake. Fold edge over fascia. Apply 2 layers of 3 foot wide membrane down center of valleys, lapping 6 inches beyond the valley center line and extend up the opposite roof slope. Membrane from opposite slopes shall then overlap previously installed membrane up the opposite slope a minimum of 6 inches, increasing the protection of roof valley from 18 to 30 inches on each roof slope.

3.2 METAL ROOFING INSTALLATION

A. Erection of the preformed metal roofing system shall be performed in accordance with the manufacturer's erection drawings.

B. Set bearing plates on surface of insulation board at standing slip angle locations.

C. Install concealed clips on top of bearing plates with self drilling shoulder screws into metal roof deck below. Size and length of screws and bearing plates shall be as recommended by manufacturer.

D. Install concealed backing plates on surface of insulation at locations where panel end laps occur. The concealed backing plate shall be continuous under panel end laps. The backing plates shall be fastened to the metal deck with self drilling screws at 16 inches on center.

E. Interlocking ribs shall be crimped together by an electric powered mechanical device in accordance with the roof manufacturer's instructions, immediately after securing in place.

F. Preformed metal roofing, fascia, and gutter work shall be watertight and weathertight, lines and angles sharp and true, plain surfaces free from waves and buckles. Workmen shall be experienced in the trade and thoroughly capable of performing the Work in accordance with these requirements.

G. Fasteners are to be concealed wherever possible. Exposed fasteners shall be stainless steel painted to match.

H. Brake formed cap, trim, closure, and flashing sections are to be furnished with a minimum of joints.

1. Brake formed members with exposed corner intersections shall have corner pieces shop fabricated. Other miscellaneous trim corners may be field cut, mitered, or butted.
2. Trim shall be of the same material as, and have a finish to match, the metal roofing panels.

I. Install roof jacks at pipe penetrations in metal roofing and roof curbs at all roof mounted equipment indicated on the Drawings. Provide required fastened, foam rods, plastic cement, and other sealant or material to provide watertight and weathertight construction.

J. Install panels and accessories in strict accordance with the panel manufacturer's written instructions and the approved shop drawings. Use electrically driven "crimper tool" for closing seams wherever possible. Attach panels to framing members per the manufacturer's written instructions, providing fixed anchorage or allowing thermal movement where specified on shop drawings.

K. Use appropriate clips, fasteners, braces, and anchors as indicated on the Drawings and any other items required for a complete installation and as recommended by manufacturer.

L. Make repairs and perform additional work necessary to provide a roof watertight and acceptable to the Architect prior to start of roofing guarantee.

M. The installation shall be designed to safely resist the positive and negative loads.

N. Roof panels shall be able to support walking loads without excessive distortion or telegraphing of the structural supports. For the maximum span used on the project, panels shall withstand a 250 pound concentrated load applied to a 4 square inch pad located at the center of the panel flat without buckling of the rib or noticeable permanent distortion of the panel.

O. Roof panel and flashing attachments shall be designed to accommodate the thermal expansion and contraction of the exterior material through a total of 150 degrees F. temperature change.

P. Factors of safety on design loads to ultimate strength of fasteners shall be as stated in the industry standard for the material into which the fastener is driven.

1. AISI for steel

Q. Provide all items and accessories as required for a complete installation in every respect.

3.3 GENERAL INSTALLATION PROVISIONS

A. Inspection of Conditions: Require the Installer of each major component to inspect both the substrate and conditions under which Work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.

B. Manufacturer's Instructions: Comply with manufacturer's installation instructions and recommendations, to the extent that those instructions and recommendations are more explicit or stringent than requirements contained in Contract Documents.

C. Inspect materials or equipment immediately upon delivery and again before installation. Reject damaged and defective items.

D. Provide attachment and connection devices and methods necessary for securing Work. Secure Work true to line and level. Allow for expansion and building movement.

E. Visual Effects: Provide uniform joint widths in exposed Work. Arrange joints in exposed Work to obtain the best visual effect. Refer questionable choices to the Architect for final decision.

F. Recheck measurements and dimensions, before starting each installation.

G. Install each component during weather conditions and Project status that will ensure the best possible results. Isolate each part of the completed construction from incompatible material as necessary to prevent deterioration.

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SECTION 07 42 13- PREFORMED WALL PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Provide labor, materials, and equipment necessary for providing the preformed metal wall and soffit panels, and related Work as shown on the Drawings, specified herein, and required for a complete and watertight installation. Work under this Section includes, but is not limited to:

1. Preformed metal wall panels.
2. Flashings, closures, corners, and trims.
3. Sealants for components under this Section.
4. Miscellaneous accessories and fasteners.

1.2 SUBMITTALS

A. All preformed wall and soffit panels and accessories specified in this Section shall be submitted as a single package as practicable. Separate submittals for each system or product may not be acceptable.

B. **Do not submit MSDS or SDS sheets with the product data submittal.** Architect is not responsible for review of this information. Submittals that include MSDS or SDS data sheets may be returned as rejected.

C. Show fabrication and installation layouts of preformed metal wall panels and soffit panels; details of edge conditions, joints, panel profiles, reveals, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details. Distinguish among factory-, shop-, and field-assembled work. Fully dimension and layout all panels and accessories.

1. Accessories: Include details of all accessories at a full scale, not less than 12 inches in length.

a. Manufacturers Standard Extrusions.
b. Special extrusions required to meet with the intent of the Contract Documents and as required by the Architect.

D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below:

1. Preformed metal Wall Panels: 2' x 2' actual project panel sample.

E. Coordination Drawings: Exterior elevations, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:

1. Preformed metal wall panels and attachments.
2. Girts.
3. Wall-mounted items including doors, windows, louvers, and lighting fixtures.
4. Penetrations of wall by pipes and utilities.

F. Qualification Data: For Manufacturer and for Installer.

G. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each product.

H. Operation and Maintenance Data: For preformed metal wall panels to include in maintenance manuals.

I. Warranties: Sample of Manufacturers standard warranty for not less than five (5) years after date of substantial completion.

J. Submit pre-installation meeting minutes.

1.3 PERFORMANCE REQUIREMENTS

A. General: Provide metal wall panel assemblies meeting performance requirements as determined by application of specified tests by a qualified testing agency on manufacturer's standard assemblies.

B. Air Infiltration: When installed over Insulated Composite Backup Panels or Metal Liner Panels, maximum 0.06 cfm/sq. ft. (0.3 L/s per sq. m) per ASTM E 283 at a static-air-pressure difference of 1.57 lbf/sq. ft. (75 Pa), using minimum 10-by-10 foot (3050-by-3050 mm) test panel that includes side joints.

C. Water Penetration, Static Pressure: When installed over Insulated Composite Backup Panels or Metal Liner Panels, no uncontrolled water penetration per ASTM E 331 at a minimum static differential pressure of 6.24 lbf/sq. ft. (299 Pa), using minimum 10-by-10 foot (3050-by-3050 mm) test panel that includes side joints.

D. Maximum allowable deflection limitation.

E. Single Skin Panels Less than 1-inch (25-mm) in Depth: Limited to L/90 deflection of panel perimeter normal to plane of wall.

1. Single Skin Panels greater than 1-inch (25-mm) in Depth: Limited to L/120 deflection of panel perimeter normal to plane of wall.

F. Thermal Movements: Allow for thermal movements from variations in both ambient and internal temperatures. Accommodate movement of support structure caused by thermal expansion and contraction.

G. Modular metal wall panel assemblies shall comply with performance requirements without failure due to defective manufacturing, fabrication, installation, or other defects in construction. Testing shall be performed without any intermediate flashings or perimeter caulking. Design, fabricate, and erect a pressure equalized “rainscreen” aluminum wall panel system to meet the requirements of **AAMA 508-14** Voluntary Test Method and Specifications for Pressure Equalized Rain Screen Wall Cladding Systems, specifically as follows.

H.

1. Pressure Equalization: ASTM E1233 Cyclic Static Air Pressure Differential Testing; Positive pressure loading to 1200 pa. (25psf) for 100 three second cycles.
2. Air Leakage: Not more that 0.6 (cfm)/sf of wall area when tested at 1.57 psf in accordance with ASTM E283.
3. Water Penetration; Static: No water infiltration under static pressure when tested in accordance with ASTM E331 at a differential of 10% of inward acting design load, 6.24 psf min. after 15 minutes.
4. Water Penetration; Dynamic: AAMA 501.1 Dynamic Water Test at a minimum of 300 Pa (6.24 psf.)
5. Structural: Provide systems that have been tested in accordance with ASTM E330 and have been certified to be without permanent deformation or failures of structural members.

1.4 PRE-INSTALLATION MEETING

A. Preinstallation Meeting: Conduct preinstallation meeting at site attended by Owner, Architect, manufacturer's representative, and other trade contractors.

1. Coordinate building framing in relation to metal wall panel assembly.
2. Coordinate installation of building air and water barrier behind metal wall panel assembly.
3. Coordinate window, door and louver, and other openings and penetrations of metal wall panel assembly.
4. Review details on drawings and review shop drawings.

1.5 DELIVERY, STORAGE, AND HANDLING:

A. Deliver components, preformed metal wall panels, and other manufactured items so as not to be damaged or deformed. Package panels for protection during transportation and handling. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from weather, excessive temperatures, and construction operations.

B. Store and erect preformed metal wall panels in a manner to prevent bending, warping, twisting, and surface damage.

C. Store covered with suitable weather tight and ventilated covering. Store panels to ensure dryness, with positive slope for drainage of water. Do not store panels in contact with other materials that might cause staining, denting, or other surface damage.

D. Protect installed panels from damage until final completion. Remove and replace any damaged panels at no cost to the owner if damaged prior to final acceptance.

1.6 JOB CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of modular metal wall panels to be performed according to manufacturer's written instructions and warranty requirements.

B. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before modular metal wall panel fabrication and indicate measurements on Shop Drawings.

1.7 WARRANTY

A. Special Manufacturer’s Warranty: On manufacturer’s standard form, in which manufacturer agrees to repair or replace components of metal wall panel assemblies that fail in materials and workmanship within two years from date of Substantial Completion.

B. Special Panel Finish Warranty: On manufacturer’s standard form, in which manufacturer agrees to repair or replace metal wall panels that display evidence of deterioration of finish within 20 years from the date of substantial completion

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design:

1. "Box Rib 4" by Pac-Clad, Carlisle, Elk Grove, IL

B. Acceptable Preformed Wall Panel Manufacturers

1. DMI Metals. Reynoldsburg, OH
2. CENTRIA, Moon Township, PA
3. ATAS International, Allentown, PA

2.2 MATERIALS AND FINISHES

A. Preformed metal panels shall be fabricated of 24 GA

B. Color shall be as selected by Architect.

C. Finish shall be Kynar 500 or Hylar 5000 Fluorocarbon coating with a top side film thickness of 0.70 to 0.90 mil over a 0.25 to 0.3 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil, to meet AAMA 621. Bottom side shall be coated with a primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for adhesions, flexibility and longevity as specified by Kynar 500 or Hylar 5000 finish supplier.

D. Strippable coating shall be applied on the pre-finished panels to the top side to protect the finish during fabrication, shipping and handling, film shall be removed before installation.

E. Trim: Trim shall be fabricated of the same material and finish to match the profile, and will be press broken in lengths of 10 to 12 feet. Trim shall be formed only by the manufacturer of their approved dealer. Trim to be erected in overlapped condition. Use lap strips only as indicated on drawings. Miter conditions shall be factory welded material to match the sheeting.

F. Accessories/Fasteners: Fasteners shall be of type, material, size, corrosion resistance, holding power and other properties required to fasten miscellaneous framing members to substrates. Accessories and their fasteners shall be capable of resisting the specified design wind uplift forces and shall allow for thermal movement of the wall panel system. Exposed fasteners shall not restrict free movement of the roof panel system resulting from thermal forces, except at designed points of roof panel fixity

G. Sealants

1. Provide two-part polysulfide class B non-sag type for vertical and horizontal joints or
2. One part polysulfide not containing pitch or phenolic extenders or
3. Exterior grade silicone sealant recommended by roofing manufacturer or

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, modular metal wall panel supports, and other conditions affecting performance of the Work.

1. Examine wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by modular metal wall panel manufacturer.
2. Verify that weather-resistant sheathing paper has been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

B. Examine roughing-in for components and systems penetrating modular metal wall panels to verify actual locations of penetrations relative to seam locations of panels before installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Preformed metal siding and soffit work shall be watertight and weathertight, lines and angles sharp and true; plain surfaces free from waves and buckles. Workmen shall be experienced in the trade and thoroughly capable of performing the Work in accordance with these requirements.

B. Exposed fasteners are to be colored to match material they are attaching.

C. Brake formed sill, trim, and closure sections are to be furnished with a minimum of butt joints. Where butt joints occur, provide concealed splice plates with sealant to insure watertightness while allowing for movement from thermal expansion and contraction. . Flashing shall be the same gauge and finish and the wall panels. Mitered Corners (where detailed): Structurally-bonded horizontal interior and exterior trimless corners matching metal wall panel material, profile, and factory-applied finish, fabricated and finished by metal wall panel manufacturer. Welded, riveted, fastened, or field-fabricated corners do not meet the requirements of this specification.

1. 20 gauge steel, galvalume.

D. Install panels and accessories in strict accordance with the panel manufacturer's written instructions and the shop drawings. Attach panels to framing members per the manufacturer's written instructions. Show connections and method of installation on the shop drawings.

E. Provide all items and accessories as required for a complete installation in every respect.

F. General: Install metal wall panels in accordance with approved shop drawings and manufacturer's recommendations. Install metal wall panels in orientation, sizes, and locations indicated. Anchor metal wall panels and other components securely in place.

G. Attach panels to metal framing using recommended screws, fasteners, sealants, and adhesives indicated on approved shop drawings.

1. Fasteners for Steel Wall Panels: Stainless-steel for exterior locations and locations exposed to moisture; carbon steel for interior use only.
2. Provide weatherproof escutcheons for pipe and conduit penetrating exterior walls.

3. Dissimilar Materials: Where elements of metal wall panel system will come into contact with dissimilar materials, treat faces and edges in contact with dissimilar materials as recommended by manufacturer.

H. Joint Sealers: Install joint sealants where indicated on approved shop drawings.

3.3 FIELD QUALITY CONTROL

A. Installation of preformed metal siding shall be in conformance with approved shop drawings, manufacturer's written instructions, and current minimum requirements of Industry Standards for Quality Workmanship.

B. Manufacturer's Field Service: Engage a service representative authorized by metal wall panel manufacturer to inspect completed installation. Submit written report.

C. Correct deficiencies noted in manufacturer's report.

3.4 CLEANING AND PROTECTION

A. On completion of metal wall panel installation, clean finished surfaces as recommended by panel manufacturer.

B. After metal wall panel installation, clear weep holes and drainage channels of obstructions, dirt.

C. Replace metal wall panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION

SECTION 08710 - DOOR HARDWARE

PART 1- GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This section includes items known commercially as finish or door hardware that are required for swing, sliding, and folding doors, except special types of unique hardware specified in the same sections as the doors and door frames on which they are installed.

B. This section includes the following:

1. Hinges.
2. Lock cylinders and keys.
3. Lock and latch sets.
4. Bolts.
5. Push/pull units.
6. Closers.
7. Overhead stops
8. Kick plates.
9. Smoke Seals

C. Related Sections: The following Sections contain requirements that relate to this Section:

1. Division 6 Section “Interior Architectural Woodwork” for cabinet hardware.
2. Division 8 Section “Standard Steel Doors and Frames” for silencers integral with hollow metal frames.
3. Division 8 Section “Flush Wood Doors” for factory prefitting and factory premachining of doors for door hardware.

1.3 SUBMITTALS

A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification sections.

B. Product data including manufacturer’s technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.

C. Final hardware schedule coordinated with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Final Hardware Schedule Content: Based on hardware indicated, organize schedule into “hardware sets” indicating complete designations of every item required for each door or opening. Include the following information:

a. Type, style, function, size, and finis of each hardware item.
b. Name and manufacturer of each item.
c. Fastenings and other pertinent information.
d. Location of each hardware set cross referenced to indications on Drawings both on floor plans and in door and frame schedule.
e. Explanation of all abbreviations, symbols, and codes contained in schedule.
f. Mounting locations for hardware.
g. Door and frame sizes and materials.
h. Keying information.

2. Submittal Sequence: Submit final schedule at earliest possible date particularly where acceptance of hardware schedule must precede fabrication of other work that is critical in the Project construction

schedule. Include with schedule the product data, samples, shop drawings of other work affected by door hardware, and other information essential to the coordinated review of schedule

3. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.

E. Templates for doors, frames, and other work specified to be factory prepared for the installation of door hardware. Check shop drawing of other work to confirm that adequate provision are made for locating and installing door hardware to comply with indicated requirements.

1.4 QUALITY ASSURANCE

A. Single Source Responsibility: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) From a single manufacturer

B. Supplier Qualification: A recognized architectural door hardware supplier, with warehousing facilities within 50 miles of the job site that has a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that employs an experienced architectural hardware consultant who is available to Owner, Architect, and Contractor, at reasonable times during the course of the Work, for consultation..

1. Require supplier to meet with Owner to finalize keying requirements and to obtain final instructions in writing.

C. Fire-Rated Openings: Provide door hardware for fire-rated openings that complies with NFPA Standard No. 80 and requirements of authorities having jurisdiction. Provide only items of door hardware that are listed and are identical to Protect tested by UL, Warnock Hersey, FM, or other testing and inspecting organization acceptable to authorities having jurisdiction for use on types and sizes of door indicated in compliance with requirements of fire-rated door and door frame labels

1.5 PRODUCT HANDLING

A. Tag each item or package separately with identification related to final hardware schedule, and include basic installation instructions with each item or package.

B. Packaging of door hardware is responsibility of supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set number to match set number of approved hardware schedule. Two or more identical sets may be packed in same container.

C. Inventory door hardware jointly with representative of hardware supplier and hardware installer until each is satisfied that count is correct.

D. Deliver individually packaged door hardware items promptly to place of installation (shop or Project site).

E. Provide secure lock-up for door hardware delivered to the Project, but not yet installed. Control handling and installation of hardware items that are not immediately replaceable so that completion of the Work will not be delayed by hardware losses both before and after installation.

1.6 MAINTENANCE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include the following: (Manufacturer whose name is prefixed with an asterisk *, indicates the manufacturer whose products are listed in the schedule at the end of this section.)

1. Hinges:
   a. * Ives
   b. Select Hinges
   c. Mckinney

2. Lock and Latchsets
   a. * Sargent

3. Wall and Floor Stops and Flush Bolts
   a. * H.B. Ives Co.
   b. Rockwood
   c. Trimco

4. Overhead Closers and Automatic Door Operators
   a. LCN

5. Kick, Mop, and Armor Plates:
   a. * Rockwood
   b. Ives
   c. Burns

6. Exit Devices
   a. *Von Duprint

7. Thresholds, Weathestripping, Seals
   a. *National Guard
   b. Pemko

8. Continuous Hingees
   a. * Ives
   b. Mckinney

2.2 SCHEDULED HARDWARE

A. Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in the “Hardware Schedule” at the end of this Section. Products are identified by using hardware designation numbers of the following:

1. Manufacturer’s Product Designation: The product designation and name of one manufacturer are listed for each hardware type required for the purpose of establishing minimum requirements. Provide either the product designated or, where more than one manufacturer is specified under the Article “Manufacturers” in Part 2 for each hardware type, the comparable product of one of the other manufacturers that complies with requirements.

2.3 MATERIALS AND FABRICATION

A. Manufacturer’s Name Plate: Do not use manufacturers’ products that have manufacturer’s name or trade name displayed in a visible location (omit removable nameplates) except in conjunction with required fire-rated labels and as otherwise acceptable to Architect.

1. Manufacturer’s identification will be permitted on rim of lock cylinders only.

B. Base Metals: Produce hardware units of basic metal and forming method indicated using manufacturer’s standard metal alloy, composition, temper, and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware unit for finish designations indicated.

C. Fastener: provide hardware manufactured to conform to published templated, generally prepared for machine screw installation. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.

D. Furnish screws for installation with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in

surfaces of other work, to match finish of this other work as closely as possible including “prepared for paint” surfaces to receive painted finish.

2.4 HINGES, BUTTS, AND PIVOTS

A. Templates: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.

B. Screws: Provide Phillips flat-head screws complying with the following requirements:

1. For metal doors and frames install machine screws into drilled and tapped holes.
2. For wood doors and frames install wood screws.
3. For fire-rated wood doors install #12 x 1 1/4-inch (32mm), threaded-to-the-head steel wood screws.
4. Finish screw heads to match surface of hinges or pivots

C. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:

1. Out-Swing Exterior Doors: Nonremovable pins.
2. Interior Doors: Nonrising pins.
3. Tips: Flat button and matching plug, finished to match leaves, except where hospital tip (HT) indicated.

D. Number of Hinges: Provide number of hinges indicated but not less than 3 hinges per door leaf for doors 90 inches (2250mm) or less in height and one additional hinge for each 30 inches (750mm) of additional height.

1. Fire-Rated Doors: Not less than 3 hinges per door leaf for doors 86 inches (2150mm) or less in height with same rule for additional hinges.

2.5 LOCK CYLINDERS AND KEYING

A. All new locks/cylinders are to be keyed into the owner’s existing Sargent Signature keying system. This is a restricted CIH system. Meet with owner to determine specific requirements. Allow for 2 change keys per lock and a total of 6 masterkeys.

2.7 LOCKS, LATCHES, AND BOLTS

A. Strikes: Provide manufacturer’s standard wrought box strike for each latch or lock bolt, with curved lip extended to protect frame, finished to match hardware set, unless otherwise indicated.

1. Provide flat lip strikes for locks with 3-piece, antifriction latch bolts as recommended by manufacturer.

2. Provide extra long strike lips for locks used on frames with applied wood casing trim.
3. Provide recess type top strikes for bolts locking into head frames, unless otherwise indicated.

B. Lock Throw: Provide 5/8-inch (16mm) minimum throw of latch on pairs of doors. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.

1. Provide ½-inch (13mm) minimum throw of latch for other bored and preassembled types of locks and 3/4-inch (19mm) minimum throw of latch for mortise locks. Provide 1-inch (25mm) minimum throw for all dead bolts.

C. Flush Bolt Heads: Minimum of ½-inch (13mm) diameter rods of brass, bronze, or stainless steel with minimum 12-inch (300mm) long rod for doors up to 84 inches (2100mm) in heights. Provide longer rods as necessary for doors exceeding 84 inches (2100mm) in height.

D. Exit Device Dogging: Except on fire-rated doors where closers are provided on doors equipped with exit devices, equip the unit with keyed dogging device to keep the latch bolt retracted, when engaged.

2.8 PUSH/PULL UNITS

A. Exposed Fasteners: Provide manufacturer's standard exposed fasteners for installation, thru-bolted for matched pairs but not for single units.

B. Concealed Fasteners: Provide manufacturer's special concealed fastener system for installation, thru-bolted for matched pairs but not for single units.

2.9 CLOSERS AND DOOR CONTROL DEVICES

A. Size of Units: Except as otherwise specifically indicated, comply with the manufacturer's recommendations for size of door control unit depending on size of door, exposure to weather, and anticipated frequency of use.

1. Where parallel arms are indicated for closers, provide closer unit one size larger than recommended for use with standard arms.
2. Provide parallel arms for all overhead closers, except as otherwise indicated.

B. Access-Free Manual Closers: Where manual closers are indicated for doors required to be accessible to the physically handicapped, provide adjustable units complying with ANSI A117.1 provisions for door opening force and delayed action closing.

C. Combination Door Closers and Holders: Provide units designed to hold door in open position under normal usage and to release and close door automatically under fire conditions. Incorporate an integral electromagnetic holder mechanism designed for use with UL listed fire detectors, provided with normally closed switching contacts.

2.10 DOOR TRIM UNITS

A. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units consisting of either machine screws or self-tapping screws.

B. Fabricate edge trim of stainless steel to fit door thickness in standard lengths or to match height of protection plates.

C. Fabricate protection plates not more than 2 inches less than door width on the push side by the height indicated.

1. Metal Plates: Stainless Steel, .050 inch (U.S. 16 gage) (1.6mm).

2.15 HARDWARE FINISHES

A. Match items to the manufacturer's standard color and texture finish for the latch and lock sets (for push-pull units if no latch or lock sets).

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.

C. The designations used in schedules and elsewhere to indicate hardware finishes are the industry recognized standard commercial finishes, except as otherwise noted.

1. Rust-Resistant Finish: For iron and steel base metal required for exterior work and in areas shown as "High Humidity" areas (and also when designed with the suffix-RR), provide 0.2ml (0.005mm) thick copper coating on base metal before applying brass, bronze, nickel, or chromium plated finishes.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Mount hardware units at heights indicated in following applicable publication, except as specifically indicated or required to comply with governing regulation and except as otherwise directed by Architect.

1. “Recommended Locations for Builders Hardware for Standard Steel Doors and Frames” by the Door and Hardware Institute.

B. Install each hardware item in compliance with the manufacturer’s instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 9 Section. Do not install surface mounted items until finishes have been completed on the substrates involved.

C. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.

D. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

E. Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements specified in Division 7 Section “Joint Sealers.”

F. Weatherstripping and Seals: Comply with manufacturer’s instructions and recommendations to the extent installation requirements are not otherwise indicated.

3.2 ADJUSTING, CLEANING, AND DEMONSTRATING

A. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.

B. Clean adjacent surfaces soiled by hardware installation.

3.3 ELECTRONIC DOOR HARDWARE – Responsibility

A. Hardware supplier is responsible to provide/install all low voltage wiring for all electronic door hardware provided in this section, including the access control system, AIPhone, electronic exit devices, power supplies, power transfers, electric locks, automatic door operators, operator actuators, and other electronic door hardware specified and provided as part of this specification section.

B. Installers are required to be factory trained/certified by manufacturers of electronic door hardware.

C. Electrical Contractor is responsible to provide and Install 120V power to all power supplies, automatic operator headers, and other locations required, noted herein, and/or shown on the electrical drawings. Electrical Contractor is also responsible to provide and install all conduit and/or wire chases for low voltage wiring and all required electrical boxes and junction boxes.

D. Hardware Supplier is to meet with Electrical Contractor early during the construction period to instruct E.C. in requirements for power and for low voltage conduit/chases. Hardware supplier and E.C. are to communicate continually during construction as necessary to coordinate power with low voltage (hardware) requirements.

E. Hardware supplier is required to install/wire/program automatic door operators and actuators and return to job at the end of construction to instruct owner in use/adjustment.

3.4 HARDWARE SCHEDULE

A. General: Provide hardware for each door to comply with requirements of Section “Door Hardware,” hardware set numbers indicated in door schedule, and in the following schedule of hardware sets.

Hardware Sets

Set #001

Doors: A102A

3	Hinges	5BB1 4 1/2 x 4 1/2	652	IV
1	Lockset	10 28 10XG38 LL	26D	SA
1	Electric Strike	6211	US32D	VO
1	Closer	4040XP RWPA	AL	LC
1	Overhead Stop	104S	US32D	GL
1	Protection Plate	8400 8" x 34" B-CS	US32D	IV
1	Wall Stop	WS406/407CCV	US32D	IV
1	Power Supply	PS902		VO

NOTE: Card reader by others.

Set #002

Doors: A100A

1	Continuous Hinge	112HD 83"	628	IV
1	Continuous Hinge	112HD 83" EPT	628	IV
1	Steel Mullion	KR4954 7'6"	SP28	VO
1	Exit Device	SD-QEL 99NL-OP x 110MD-NL	US26D	VO
	NOTE: LHR Active Leaf			
1	Exit Device	CD 99EO	US26D	VO
1	Rim Cylinder	10-34	32D	SA
4	Signature Mortise Cylinder	10-42	32D	SA
2	Offset Door Pull	BF158	US32D	RO
1	Automatic Operator	9542 REGARM HDR2	AL	LC
	NOTE: LHR Active Leaf			
1	Closer	4040XP RWPA	AL	LC
1	Adapter Plate	4040XP-18PA	AL	LC
2	Overhead Stop	104S	US32D	GL
2	Actuator	59HSS		MSED
1	Electric Power Transfer	EPT 10	SP28	VO
1	Power Supply	PS902 900-2RS		VO
1	Key Switch	653-14	SF-626	LO
2	Door Sweep	D698A 36"		NA
1	Threshold	896 V 72"	AL	NA

NOTE: Card Reader by Others.Pereimeter Seals by Door Supplier. Operation: Egress side by exit device or wall actuator at all times. Ingress sijde by key or card reader, or by wall actuator when enabled by keyswitch.

Set #003

Doors: A100B

2	Continuous Hinge	112HD 83"	628	IV
1	Steel Mullion	KR4954 7'6"	SP28	VO
1	Steel Mullion	KR9954 7'5"	SP28	VO
2	Exit Device	QEL 99L-BE-F x 996L-BE-R&V	US26D	VO
1	Automatic Operator	9542 REGARM HDR2	AL	LC

Set #003

NOTE: LHR Active Leaf

1	Closer	4040XP RWPA	AL	LC
1	Adapter Plate	4040XP-18PA	AL	LC
2	Overhead Stop	104S	US32D	GL
2	Actuator	59HSS		MSED
2	Electric Power Transfer	EPT 10	SP28	VO
1	Power Supply	PS902 900-2RS		VO
1	Time Delay	TDM		MSED

NOTE: Tie exit devices into F.A. to be held unlatched until tripped by F.A.

Set #004

Doors: A103, A107

3	Hinges	5BB1 4 1/2 x 4 1/2	652	IV
1	Lockset	10 28 10XG05 LL	26D	SA
1	Protection Plate	8400 8" x 34" B-CS	US32D	IV
1	Wall Stop	WS406/407CCV	US32D	IV

Set #005

Doors: A106

3	Hinges	5BB1 4 1/2 x 4 1/2	652	IV
1	Deadbolt	B571 10-087	626	SC
	NOTE: Locate 48" C/L AFF			
1	Passage Set	28 10XU15 LL	26D	SA
1	Closer	4040XP RWPA	AL	LC
1	Protection Plate	8400 8" x 34" B-CS	US32D	IV
1	Wall Stop	WS406/407CCV	US32D	IV

Set #006

Doors: A104

3	Hinges	5BB1 HW 4 1/2 x 4 1/2	626	IV
1	Exit Device	QEL 99L-F-2SI x 996L-R&V	US26D	VO
2	Rim Cylinder	10-34	32D	SA
1	Closer	4040XP RWPA	AL	LC
1	Protection Plate	8400 8" x 34" B-CS	US32D	IV
1	Wall Stop	WS406/407CCV	US32D	IV
1	Electric Power Transfer	EPT 10	SP28	VO
1	Power Supply	PS902 900-2RS		VO

NOTE: Card reader by others.

Set #007

Doors: A108

2	Continuous Hinge	112HD 83"	628	IV
1	Steel Mullion	KR4954 7'6"	SP28	VO
2	Exit Device	99EO	US26D	VO
1	Signature Mortise Cylinder	10-42	32D	SA
2	Closer	4040XP RWPA	AL	LC
2	Adapter Plate	4040XP-18PA	AL	LC
2	Overhead Stop	104S	US32D	GL
2	Door Sweep	D698A 36"		NA
1	Threshold	896 V 72"	AL	NA

NOTE: Perimeter seals by door supplier.

Set #008

Doors: B105, B106

1	Continuous Hinge	112HD 83"	628	IV
1	Deadlock	10 28 4877	26D	SA
	NOTE: Locate 34" C/L AFF			
1	Push Plate	70E 6 X 16	US32D	RO
1	Pull Plate	BF 107 X 70B	US32D	RO
1	Closer	4040XP REGARM	AL	LC
1	Protection Plate	8400 8" x 34" B-CS	US32D	IV
1	Door Stop	WS443	US26D	IV
1	Gasketing Set	160 V 3' X 7'		NA
1	Drip Cap	16 A 40"		NA
1	Door Sweep	D698A 36"		NA
1	Saddle Threshold	425 36"	AL	NA

Set #009

Doors: B102

1	Continuous Hinge	112HD 83" EPT	628	IV
1	Lockset	10 28 10XG38 LL	26D	SA
1	Closer	4040XP REGARM	AL	LC
1	Protection Plate	8400 8" x 34" B-CS	US32D	IV
1	Door Stop	WS443	US26D	IV
1	Gasketing Set	160 V 3' X 7'		NA
1	Drip Cap	16 A 40"		NA
1	Door Sweep	D698A 36"		NA
1	Saddle Threshold	425 36"	AL	NA

Set #010

Doors: B103

3	Hinges	5BB1 4 1/2 x 4 1/2	652	IV
1	Deadbolt	B571 10-087	626	SC
	NOTE: Locate 48" C/L AFF			
1	Passage Set	28 10XU15 LL	26D	SA
1	Closer	4040XP RWPA	AL	LC
1	Overhead Stop	104S	US32D	GL
1	Protection Plate	8400 8" x 34" B-CS	US32D	IV

Set #011

Doors: B101A

1	Continuous Hinge	112HD 83"	628	IV
1	Lockset	10 28 10XG04 LL	26D	SA
1	Closer	4040XP REGARM	AL	LC
1	Door Stop	WS443	US26D	IV
1	Gasketing Set	160 V 3' X 7'		NA
1	Drip Cap	16 A 40"		NA
1	Door Sweep	D698A 36"		NA
1	Saddle Threshold	425 36"	AL	NA

Set #012

Doors: B104A

3	Hinges	5BB1 4 1/2 x 4 1/2	652	IV
1	Lockset	10 28 10XG26 LL	26D	SA
1	Closer	4040XP REGARM	AL	LC
1	Protection Plate	8400 8" x 34" B-CS	US32D	IV
1	Wall Stop	WS406/407CCV	US32D	IV

Set #013

Doors: B104B

3	Hinges	5BB1 4 1/2 x 4 1/2	652	IV
1	Lockset	10 28 10XG04 LL	26D	SA
1	Closer	4040XP REGARM	AL	LC
1	Protection Plate	8400 8" x 34" B-CS	US32D	IV
1	Wall Stop	WS406/407CCV	US32D	IV

Set #014

Doors: C101A, C102A

1	Continuous Hinge	112HD 83"	628	IV
1	Lockset	10 28 10XG04 LL	26D	SA
1	Closer	4040XP REGARM	AL	LC
1	Wall Stop	WS406/407CCV	US32D	IV
1	Gasketing Set	160 V 3' X 7'		NA
1	Drip Cap	16 A 40"		NA
1	Door Sweep	D698A 36"		NA
1	Saddle Threshold	425 36"	AL	NA

Set #015

Doors: B101B, B101C

1	Signature Mortise Cylinder	10-42	32D	SA

NOTE: Confirm cylinder requirements. Balance of existing hardware by door manufacturer.

Set #016

Doors: A102B

1	Continuous Hinge	112HD 83"	628	IV
1	Exit Device	99EO	US26D	VO
1	Closer	4040XP RW62A	AL	LC
1	Overhead Stop	904S	US32D	GL
1	Gasketing Set	160 V 3' X 7'		NA
1	Drip Cap	16 A 40"		NA
1	Door Sweep	D698A 36"		NA
1	Threshold	896 V 36"	AL	NA

Set #017

Doors: A109

2	Continuous Hinge	112HD 83"	628	IV
1	Exit Device	CD 9947NL-OP x 110MD-NL	US26D	VO
1	Exit Device	CD 9947EO	US26D	VO
1	Rim Cylinder	10-34	32D	SA
2	Signature Mortise Cylinder	10-42	32D	SA
2	Offset Door Pull	BF158	US32D	RO
2	Closer	4040XP RWPA	AL	LC
2	Adapter Plate	4040XP-18PA	AL	LC
2	Overhead Stop	103S	US32D	GL
2	Door Sweep	D698A 36"		NA
1	Threshold	896 V 72"	AL	NA

Set #018

Doors: A110

2	Continuous Hinge	112HD 83"	628	IV
2	Exit Device	CD 9947EO	US26D	VO
2	Signature Mortise Cylinder	10-42	32D	SA
2	Offset Door Pull	BF158	US32D	RO
2	Closer	4040XP RWPA	AL	LC
2	Adapter Plate	4040XP-18PA	AL	LC
2	Overhead Stop	103S	US32D	GL
2	Door Sweep	D698A 36"		NA
1	Threshold	896 V 72"	AL	NA

Opening List

Opening	Hdw Set	Opening Label	Door Type	Frame Type
A103	004			
A104	006			
A106	005			
A107	004			
A108	007			
A109	017			
A110	018			
B102	009			
B103	010			
B105	008			
B106	008			
A100A	002			
A100B	003			
A102A	001			
A102B	016			
B101A	011			
B101B	015			
B101C	015			
B104A	012			
B104B	013			
C101A	014			
C102A	014			

SECTION 10 14 00 - IDENTIFYING DEVICES

PART 1 - GENERAL

1.1 SUMMARY

A. Provide labor, materials, and equipment necessary for the complete installation of identifying devices as indicated on the Drawings and specified herein.

1. Exterior building letters.
2. Metal Support System

1.2 SUBMITTALS

A. All identifying devices and accessories specified in this Section shall be submitted as a single package. Separate submittals for each system or product will not be acceptable.

B. Do not submit MSDS or SDS sheets with product data submittal. Architect is not responsible for review of this information. Submittals that include MSDS or SDS data sheets will be returned as rejected.

C. Furnish required shop drawings and other submittals as required for Architect selection in accordance with Division 01 requirements.

D. Product data sheets including installation instructions for each item specified.

E. Samples:

1. Exterior building letters.

F. Shop drawings shall be stamped, sealed and signed by a registered structural engineer in the State of Indiana. Indicate all loading requirements as specified herein and as required by State and local codes and regulations.

G. Contractor shall provide a comprehensive list of all room names and numbers for each building space as well as quantities and locations for all other signs specified.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Interior identifying devices and exterior building letters shall be as manufactured by one of the following:

1. Indiana Signworks, Fort Wayne, IN
2. Diskey Architectural Signage, Fort Wayne, IN
3. Baldus Company, Fort Wayne, IN
4. Bright Signs Marketing, Fort Wayne, IN
5. Essential Architectural Signs, Indianapolis, IN

2.2 EXTERIOR BUILDING LETTERS

A. 18-inches-high (or other sizes as indicated on the Drawings, 2 inches deep letters, baked enamel finish. Color as selected by Architect.

B. Letter Style: To be Determined

C. Material: Cast aluminum.

D. Installation Method: Manufacturers standard mounting on to flat steel. Stand-off as required to allow for drainage.

E. Verify actual copy and layout with Architect prior to fabrication.

2.3 METAL SUPPORT SYSTEM

A. Design to provide for movement of components without damage, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.

B. Design system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.

C. Wind Loads: Design and size components to withstand wind loads as calculated in accordance with the Indiana Building Code, current edition in force.

1. Basic Wind Speed: 90 mph.
2. Exposure Factor: C.
3. Importance Factor: I = 1.15.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Inspect both the substrate and conditions under which Work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.

B. Mount exterior building letters in conformance with manufacturer's instructions using only approved materials and methods.

C. Inspect materials or equipment immediately upon delivery and again prior to installation. Reject damaged and defective items.

D. Provide attachment and connection devices necessary for securing Work. Secure Work true to line and level.

E. Visual Effects: Provide uniform joint widths in exposed Work. Arrange joints in exposed Work to obtain the best visual effect. Refer questionable choices to the Architect for final decision.

F. Recheck measurements and dimensions, before starting each installation.

G. Isolate incompatible material as necessary to prevent deterioration.

END OF SECTION

SECTION 32 31 19 - ORNAMENTAL PICKET FENCES AND GATES

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. Ornamental picket fencing, gates, and accessories.
2. Excavation for post bases, concrete footings for posts.

1.3 SUBMITTALS

A. Refer to Division 01 Sections "Submittal Log" and "LEED Requirements."

B. Product Data: Submit product data for fabric, posts, accessories, fittings, and hardware.

C. Shop Drawings: Include plan layout, grid, spacing of components, accessories, fittings, hardware, anchorages, and schedule of components.

D. Assurance/Control Submittals:
1. Certificates: Manufacturer's certificate certifying that Products meet or exceed specified requirements.
2. Qualification Documentation: Submit documentation of experience indicating compliance with specified qualification requirements.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Company specializing in performing the Work of this Section with minimum 5 years documented experience.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. ~~Approved Manufacturer~~Basis of Design: “Highland Plus Commercial” for 6-foot heights, by Master Halco, Dallas, TX ~~(800) 883-8384. Substitutions permitted~~:

B. The following manufacturers are also acceptable:

1. Ameristar Fence Products, Tulsa, Oklahoma
~~A.~~ 2. Ametco Manufacturing Corporation, Willoughby, Ohio

~~1. Products from other qualified manufacturers having a minimum of 5 years’ experience manufacturing ornamental picket fencing will be acceptable to the General Prime Contractor as equal if they meet or exceed the following specifications for design, size, gage of metal parts and fabrication.~~

2.2 ORNAMENTAL FENCING

A. Ornamental Picket Infill: “U” channel rails formed of galvanized steel, 1-3/8 inches wide x 1-1/2 inches deep, 14 gage wall thickness. Punch rails to receive pickets and welded inside gate frames. Pickets, galvanized steel, 3/4-inch square tube. Attach pickets to “U” rails by industrial drive rivets #MIW 381080691.

B. Posts: Galvanized steel 4-inch square

C. Gate Hardware:
   1. Stop: For each leaf.
   2. Drop Rod: Interior side, one per leaf, to sleeves in slab at open positions (where hold back cannot be installed) and closed positions; lockable with padlock provided by Owner (not required at emergency exit gate).
   3. Latch: Double gate assembly; finish to match fence; lockable with padlock provided by Owner.
   4. Hinge: Tamper proof, 0.080 steel, finish to match fence.
   5. Gate Holdback (to hold gate in open position).

2.3 ACCESSORIES

A. Concrete: Minimum 28-day compressive strength of 3,000 psi.

B. Accessories: Assembled panels with ornamental accessories attached using industrial drive rivets to prevent removal and vandalism. Provide suitable materials to prevent galvanic action between dissimilar materials.

2.4 FINISH

A. Finish: After all steel components have been galvanized, clean and prepare the surface of all components to assure complete adhesion of finish coat. Apply 2 mil topcoat and 2 mil finish coat of polyester resin based powder coating by electrostatic spray process. Bake finish for 20 minutes at 450 degrees F metal temperature. Color: Black.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify areas to receive fencing are completed to final grades and elevations.

B. Verify areas to assure sufficient space to receive gate in open position (gate and overhang.)

C. Ensure property lines and legal boundaries of work are clearly established.

3.2 FRAMING INSTALLATION

A. Install in accordance with Manufacturers instructions.

B. Concrete Set Gate Posts: Perform cutting, drilling, and fitting required for installation of miscellaneous metal fabrications. Set metal fabrication accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels. Drill holes in firm, undisturbed or compacted soil. Holes shall have diameter 4 times greater than outside dimension of post, and depths approximately 6 inches deeper than post bottom. Excavate deeper as required for adequate support in soft and loose soils, and for posts with heavy lateral loads. Set post bottom 36 inches below surface when in firm, undisturbed soil. Place concrete around posts in a continuous pour, tamp for consolidation. Trowel finish around post and slope to direct water away from posts. Check each post for vertical and top alignment and maintain in position during placement and finishing operations.

3.3 GATE INSTALLATION

A. Install gates plumb, level, and secure for full opening without interference.

B. Attach hardware by means which will prevent unauthorized removal.

C. Adjust hardware for smooth operation.

3.4 CLEANING

A. Clean up debris and unused material and remove from the Site.

~~Addendum #1 - 2/21/24~~
Addendum #2 -2/28/2024

END OF SECTION 32 31 19

~~Addendum #1 - 2/21/24~~
Addendum #2 -2/28/2024

West Noble High School
Renovation and Addition

5050 US-33,
Ligonier, IN, 46767

Design Team

ELEVATUS Architecture
111 E. Wayne Street, Suite 555
Fort Wayne, IN 46802
260 424-9080

ERI Consulting
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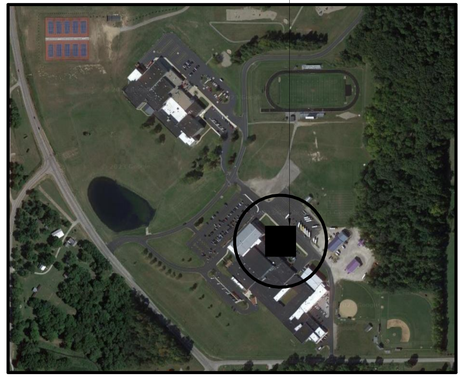
Fort Wayne, IN 46845
260 490-9741

SCO Engineering, LLC
6534 Constitution Drive
Fort Wayne, IN 46804
260 436-9213

PROJECT LOCATION



Location Map
Not To Scale

SHEET INDEX

Discipline	Sheet Number	Sheet Name
GENERAL		
GENERAL	G-001	Cover Sheet
GENERAL	G-101A	Life Safety Plan - First Floor Area A
GENERAL	G-101B	Life Safety Plan - First Floor Area B
CIVIL		
CIVIL	C-001A	Topographic Survey - Gym Addition
CIVIL	C-001b	Topographic Survey - Athletic Field Renovations
CIVIL	C-100	Site Demolition Plan-Overall
CIVIL	C-101A	Site Demolition Plan-Gym Addition
CIVIL	C-101B	Site Demolition Plan-Track and Bleachers
CIVIL	C-200	Site Layout Plan-Overall
CIVIL	C-201A	Site Layout Plan-Gym Addition
CIVIL	C-201B	Site Layout Plan-Track and Bleachers
CIVIL	C-300	Site Grading Plan-Overall
CIVIL	C-301A	Site Grading Plan-Gym Addition
CIVIL	C-301B	Site Grading Plan- Track and Bleachers
CIVIL	C-400	Site Utility Plan-Overall
CIVIL	C-401A	Site Utility Plan-Gym Addition
CIVIL	C-401B	Site Utility Plan-Track and Bleachers
CIVIL	C-500	Site Construction Erosion Control Plan-Overall
CIVIL	C-501A	Site Construction Erosion Control Plan-Gym Addition
CIVIL	C-501B	Site Construction Erosion Control Plan-Track and Bleachers
CIVIL	C-600	Site Details
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STRUCTURAL	S-002	Structural Notes
STRUCTURAL	S-101A	Foundation Plan Area A
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STRUCTURAL	S-201A	Roof Framing Plan Area A
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STRUCTURAL	S-301	Foundation Details
STRUCTURAL	S-401	Structural Details
STRUCTURAL	S-402	Structural Details
STRUCTURAL	S-501	Masonry Details
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ARCHITECTURAL	AD-101A	Architectural Demolition Plan - First Floor Area A
ARCHITECTURAL	AD-102A	Architectural Demolition Plan - Second Floor Area A
ARCHITECTURAL	AD-101B	Architectural Demolition Plan - First Floor Area B
ARCHITECTURAL	A-001	Architectural Information Sheet
ARCHITECTURAL	A-002	Partition Diagrams
ARCHITECTURAL	A-111A	Architectural Plan - First Floor Area A
ARCHITECTURAL	A-111B	Architectural Plan - First Floor Area B
ARCHITECTURAL	A-112A	Architectural Plan - Second Floor Area A
ARCHITECTURAL	A-121A	Reflected Ceiling Plan - First Floor Area A
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ARCHITECTURAL	A-131A	Architectural Roof Plan - Area A
ARCHITECTURAL	A-131B	Architectural Roof Plan - Area B

SHEET INDEX

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ARCHITECTURAL	A-141Aa	Finishes Plan - First Floor Alternates Area A
ARCHITECTURAL	A-141B	Finishes Plan - First Floor Area B
ARCHITECTURAL	A-201A	Building Elevations - Area A
ARCHITECTURAL	A-201B	Building Elevations - Area B
ARCHITECTURAL	A-211A	Enlarged Plans & Interior Elevations - Area A
ARCHITECTURAL	A-211B	Enlarged Plans & Interior Elevations - Area B
ARCHITECTURAL	A-212B	Enlarged Plans & Interior Elevations - Area B
ARCHITECTURAL	A-301A	Building Sections - Area A
ARCHITECTURAL	A-311A	Wall Sections - Area A
ARCHITECTURAL	A-311B	Wall Sections - Area B
ARCHITECTURAL	A-312A	Wall Sections - Area A
ARCHITECTURAL	A-313A	Wall Sections - Area A
ARCHITECTURAL	A-501	Architectural Casework Details
ARCHITECTURAL	A-502	Architectural Details - Area B
ARCHITECTURAL	A-601	Architectural Schedules & Diagrams
PLUMBING		
PLUMBING	FPG-100	Fire Protection and Plumbing Notes and General Information
PLUMBING	FP-211A	Fire Protection - First Floor Area A
PLUMBING	P-211A	Plumbing - First Floor Area A
PLUMBING	P-211B	Plumbing - First Floor Area B
PLUMBING	P-501	Plumbing Details
PLUMBING	P-502	Plumbing Details
PLUMBING	P-601	Plumbing Schedules
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MECHANICAL	MG-100	Mechanical Notes and General Information
MECHANICAL	MD-211A	Mechanical Demolition Plan - Area A
MECHANICAL	M-211A	Mechanical - Area A
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ELECTRICAL	CE-102	Electrical Site Plan
ELECTRICAL	E-000	Electrical General Information & Notes
ELECTRICAL	E-101A	First Floor Electrical Power Plan
ELECTRICAL	E-101B	First Floor Electrical Power Plan
ELECTRICAL	E-201A	First Floor Electrical Lighting Plan
ELECTRICAL	E-201B	First Floor Electrical Lighting Plan
ELECTRICAL	E-301A	First Floor Electrical Systems Plan
ELECTRICAL	E-301B	First Floor Electrical Systems Plan
ELECTRICAL	E-501	Electrical Details and Diagrams
ELECTRICAL	E-601	Electrical Schedules
ELECTRICAL	E-602	Electrical Schedules

2

SEAL

WEST NOBLE CHARGERS

West Noble High School
Renovation and Addition
5050 US-33,
Ligonier, IN, 46767

REVISIONS

NO.	DESCRIPTION	DATE
2	Addendum 2	2/28/2024

PROJECT NO. 2301108
ISSUE DATE 02-12-2024
SUBMITTAL 100% Construction Documents

Cover Sheet

G-001

2/27/2024 11:28:43 PM
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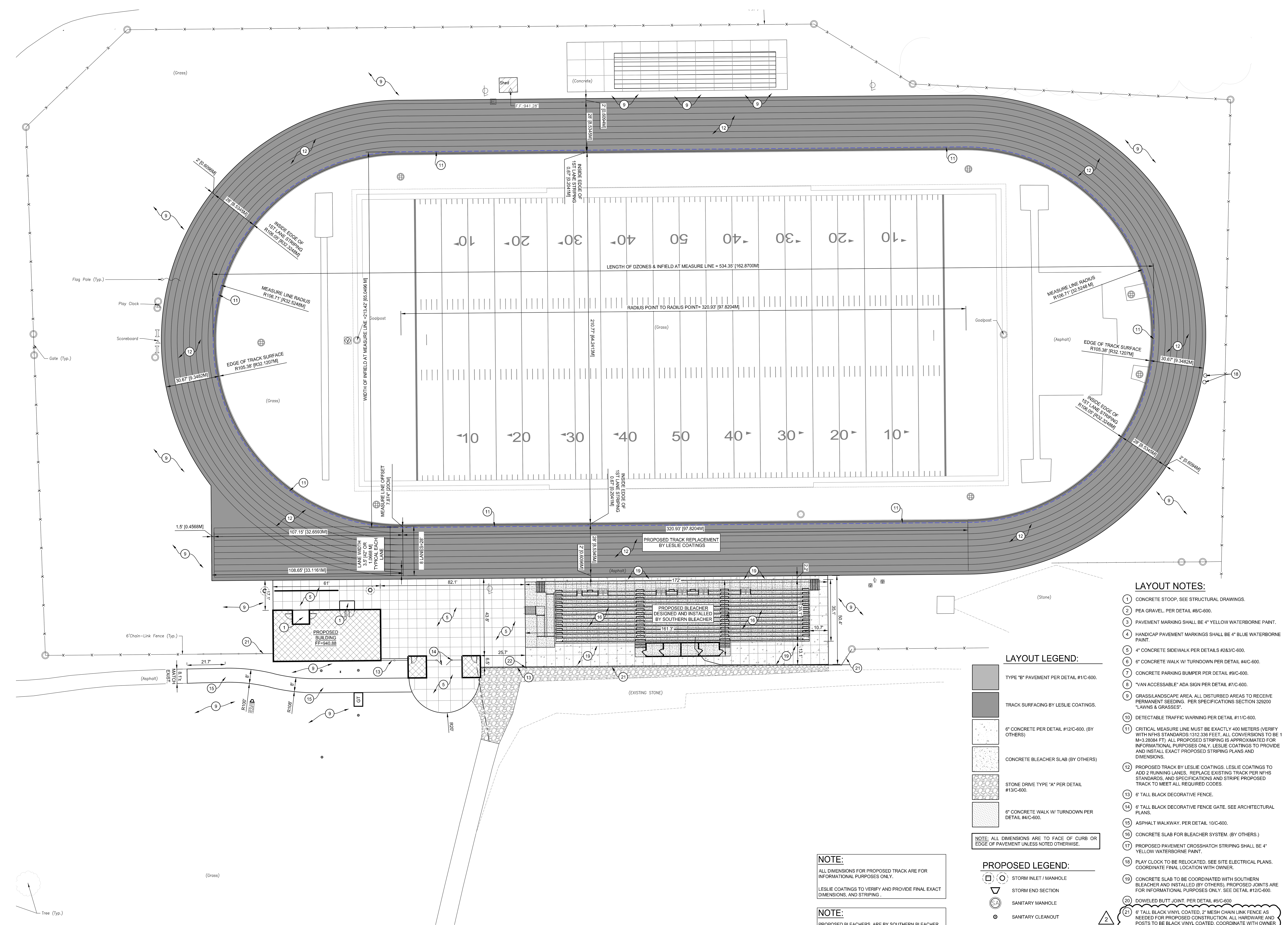

Site Layout Plan - Track and Bleachers

1 Site Layout Plan - Track and Bleachers
1" = 20'-0"

NOTE:

ALL DIMENSIONS FOR PROPOSED TRACK ARE FOR INFORMATIONAL PURPOSES ONLY.

LESLIE COATINGS TO VERIFY AND PROVIDE FINAL EXACT DIMENSIONS, AND STRIPING .

NOTE:

PROPOSED BLEACHERS ARE BY SOUTHERN BLEACHER.

CONCRETE SLAB BY OTHERS IN BLEACHER AREA TO BE COORDINATED WITH SOUTHERN BLEACHER.

LAYOUT LEGEND:

- TYPE "B" PAVEMENT PER DETAIL #1/C-600.
- TRACK SURFACING BY LESLIE COATINGS.
- 6" CONCRETE PER DETAIL #12/C-600. (BY OTHERS)
- CONCRETE BLEACHER SLAB (BY OTHERS)
- STONE DRIVE TYPE "A" PER DETAIL #13/C-600.
- 6" CONCRETE WALK W/ TURNDOWN PER DETAIL #4/C-600.

NOTE: ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

PROPOSED LEGEND:

- STORM INLET / MANHOLE
- STORM END SECTION
- SANITARY MANHOLE
- SANITARY CLEANOUT
- SIGN
- HANDICAP SYMBOL PER DETAIL #6/C-600.

LAYOUT NOTES:

1. CONCRETE STOOP, SEE STRUCTURAL DRAWINGS.
2. PEA GRAVEL. PER DETAIL #8/C-600.
3. PAVEMENT MARKING SHALL BE 4" YELLOW WATERBORNE PAINT.
4. HANDICAP PAVEMENT MARKINGS SHALL BE 4" BLUE WATERBORNE PAINT.
5. 4" CONCRETE SIDEWALK PER DETAILS #2&3/C-600.
6. 6" CONCRETE WALK W/ TURNDOWN PER DETAIL #4/C-600.
7. CONCRETE PARKING BUMPER PER DETAIL #9/C-600.
8. "VAN ACCESSABLE" ADA SIGN PER DETAIL #7/C-600.
9. GRASS/LANDSCAPE AREA. ALL DISTURBED AREAS TO RECEIVE PERMANENT SEEDING. PER SPECIFICATIONS SECTION 329200 "LAWNS & GRASSES".
10. DETECTABLE TRAFFIC WARNING PER DETAIL #11/C-600.
11. CRITICAL MEASURE LINE MUST BE EXACTLY 400 METERS (VERIFY WITH NFHS STANDARDS:1312.336 FEET, ALL CONVERSIONS TO BE 1 M=3.28084 FT) ALL PROPOSED STRIPING IS APPROXIMATED FOR INFORMATIONAL PURPOSES ONLY. LESLIE COATINGS TO PROVIDE AND INSTALL EXACT PROPOSED STRIPING PLANS AND DIMENSIONS.
12. PROPOSED TRACK BY LESLIE COATINGS. LESLIE COATINGS TO ADD 2 RUNNING LANES, REPLACE EXISTING TRACK PER NFHS STANDARDS, AND SPECIFICATIONS AND STRIPE PROPOSED TRACK TO MEET ALL REQUIRED CODES.
13. 6' TALL BLACK DECORATIVE FENCE.
14. 6' TALL BLACK DECORATIVE FENCE GATE. SEE ARCHITECTURAL PLANS.
15. ASPHALT WALKWAY. PER DETAIL 10/C-600.
16. CONCRETE SLAB FOR BLEACHER SYSTEM. (BY OTHERS.)
17. PROPOSED PAVEMENT CROSSHATCH STRIPING SHALL BE 4" YELLOW WATERBORNE PAINT.
18. PLAY CLOCK TO BE RELOCATED. SEE SITE ELECTRICAL PLANS. COORDINATE FINAL LOCATION WITH OWNER.
19. CONCRETE SLAB TO BE COORDINATED WITH SOUTHERN BLEACHER AND INSTALLED (BY OTHERS). PROPOSED JOINTS ARE FOR INFORMATIONAL PURPOSES ONLY. SEE DETAIL #12/C-600.
20. DOWELED BUTT JOINT. PER DETAIL #5/C-600
21. 6' TALL BLACK VINYL COATED, 2" MESH CHAIN LINK FENCE AS NEEDED FOR PROPOSED CONSTRUCTION. ALL HARDWARE AND POSTS TO BE BLACK VINYL COATED. COORDINATE WITH OWNER ON LOCATIONS.
22. TRANSITION 6' BLACK DECORATIVE FENCE TO 6' TALL BLACK VINYL COATED, 2" MESH CHAIN LINK FENCE. SET POSTS AS REQUIRED TO MAKE TRANSITION.

2

ELEVATUS ARCHITECTURE
111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260 424-9080 ElevatusArchitecture.com

WRITTEN DIMENSIONS ON THESE DOCUMENTS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DRAWINGS AND OR DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH FABRICATION.

SEAL
02-12-2024
MARK D. REINHARD REGISTERED No. 10911278 STATE OF INDIANA PROFESSIONAL ENGINEER

ENGINEERING RESOURCES, INC.
4175 New Vision Drive, Fort Wayne, IN 46845
Ph: (260) 490-1025 www.eri.consulting

WEST NOBLE CHARGERS

West Noble Renovation and Addition
5050 US-33
Ligonier, IN 46767

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02-21-24
2	ADDENDUM #2	02-28-24

PROJECT NO. 2301108
ISSUE DATE 02-12-2024
SUBMITTAL 100% Construction Documents

Site Layout Plan - Track and Bleachers

C-201B

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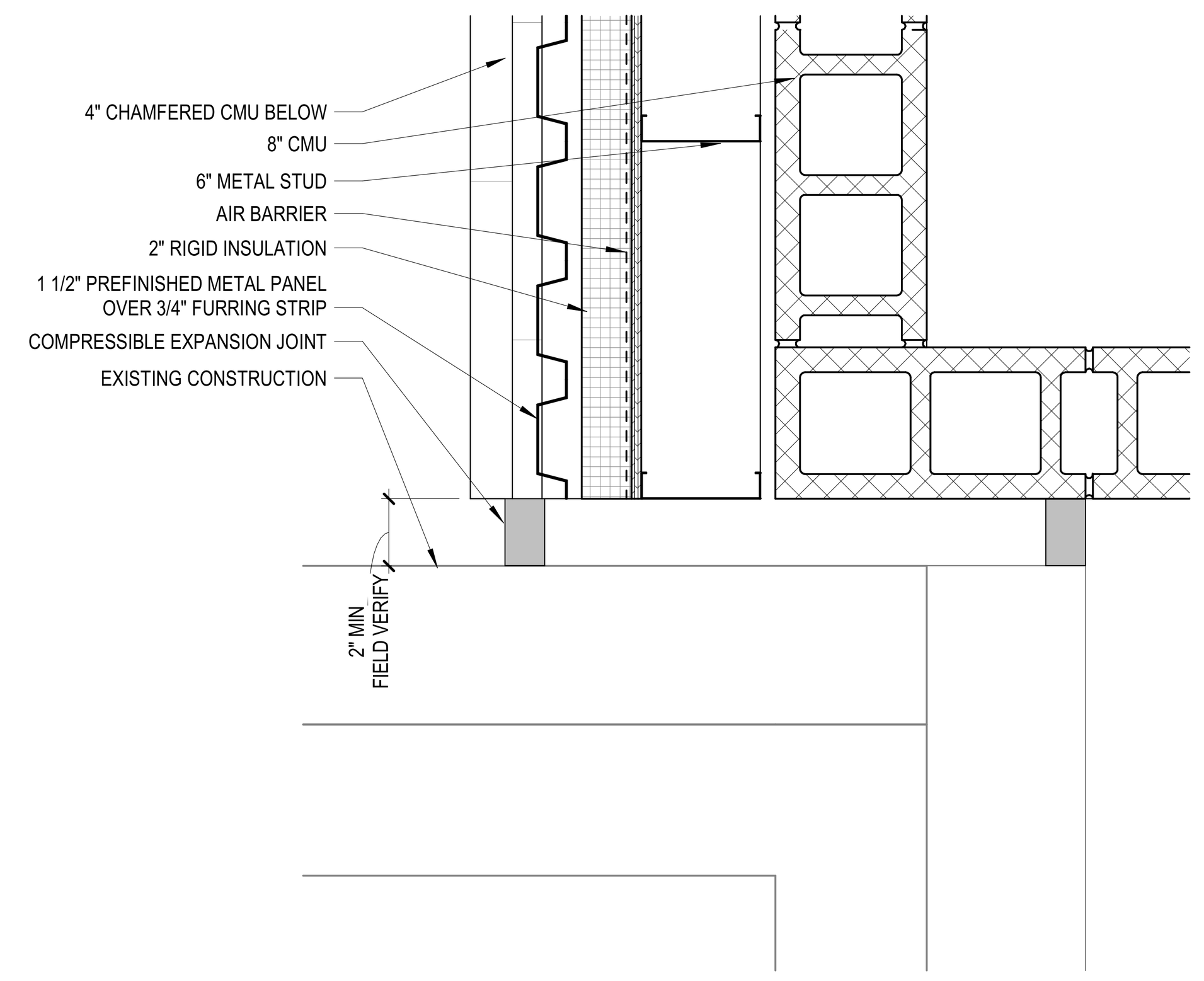
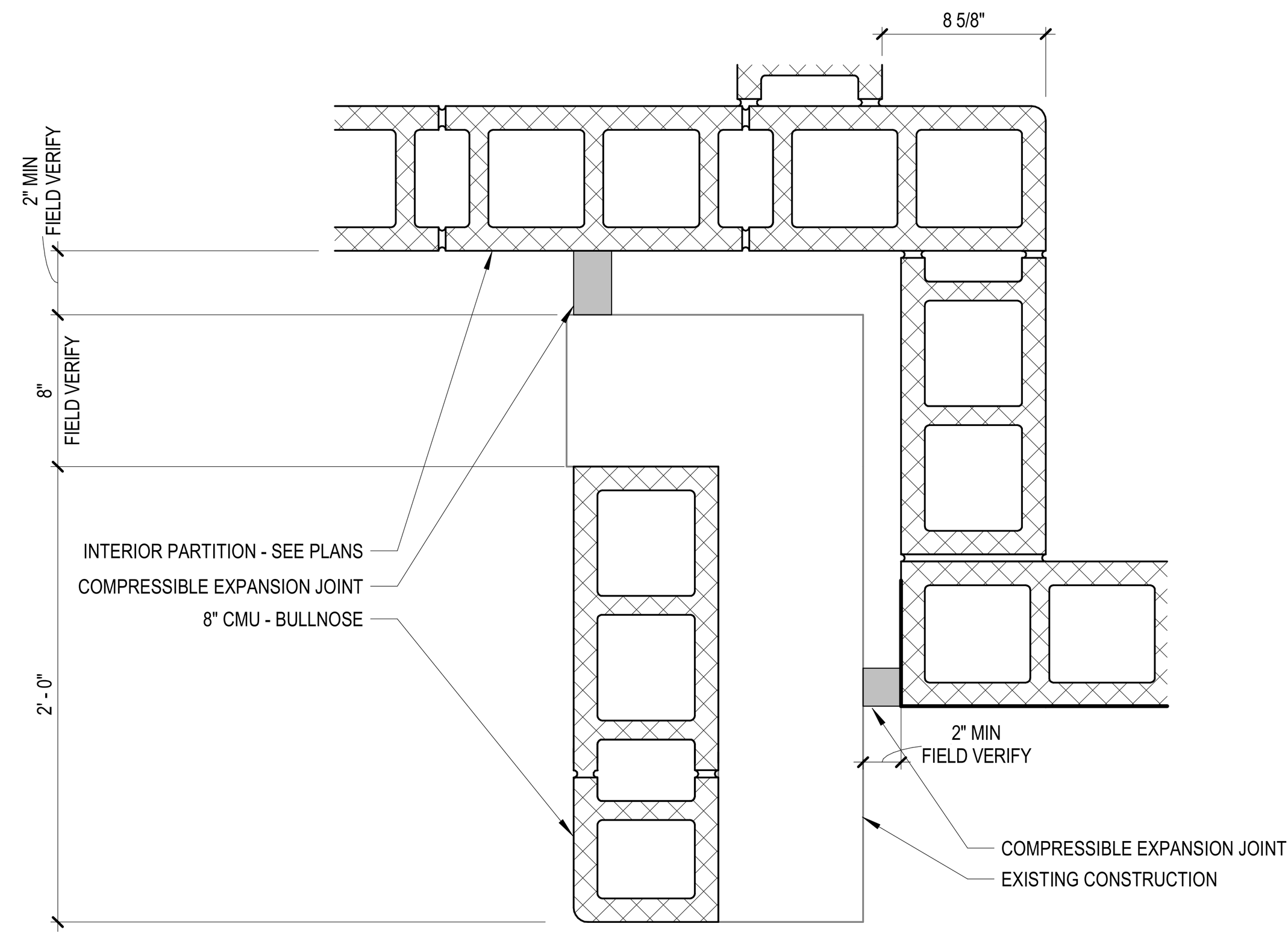
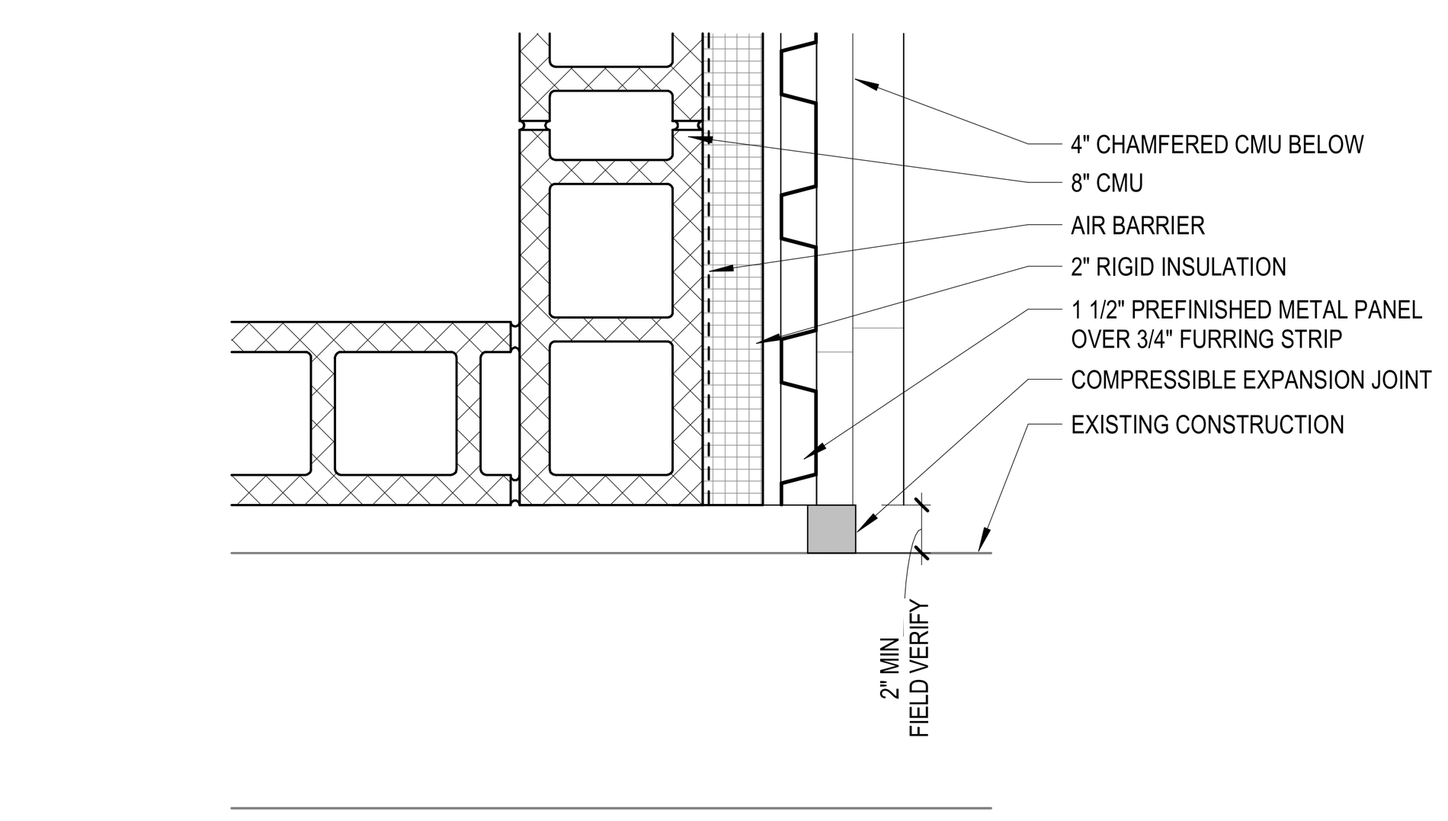


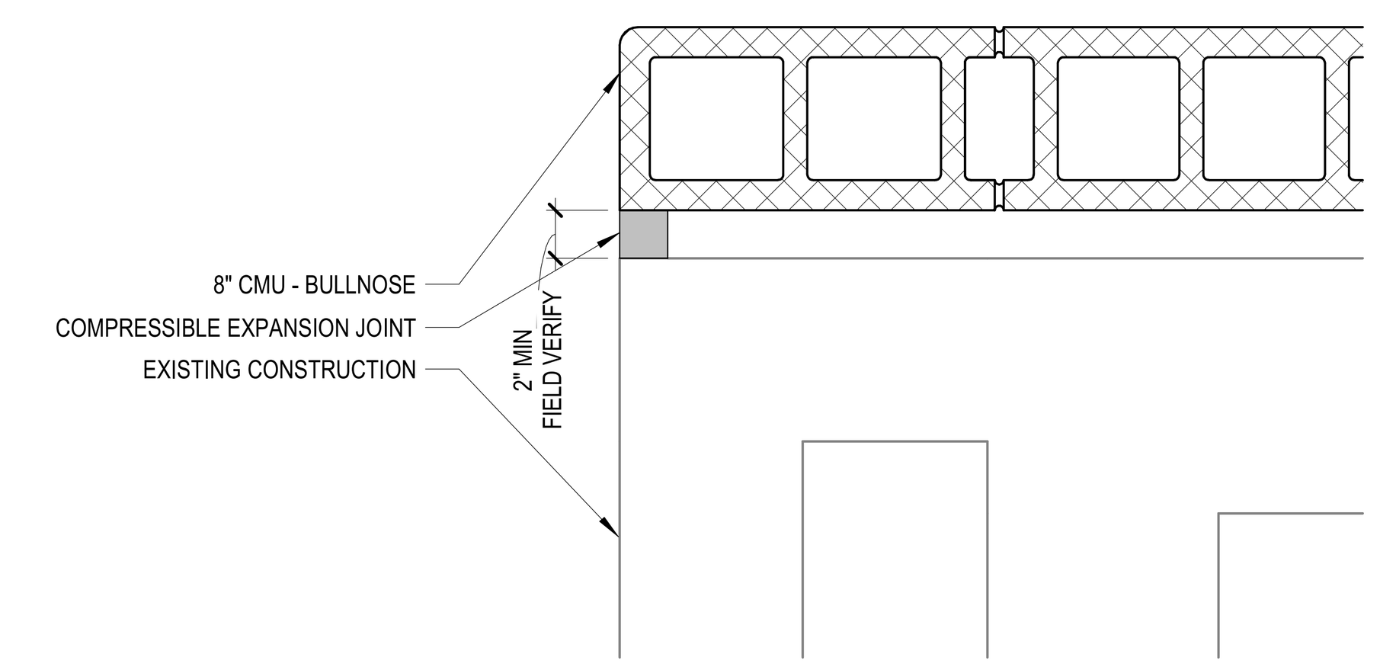
5 Enlarged Plan Detail - Area A
1 1/2" = 1'-0"



3 Enlarged Plan Detail - Area A
1 1/2" = 1'-0"



4 Enlarged Plan Detail - Area A
1 1/2" = 1'-0"



2 Enlarged Plan Detail - Area A
1 1/2" = 1'-0"

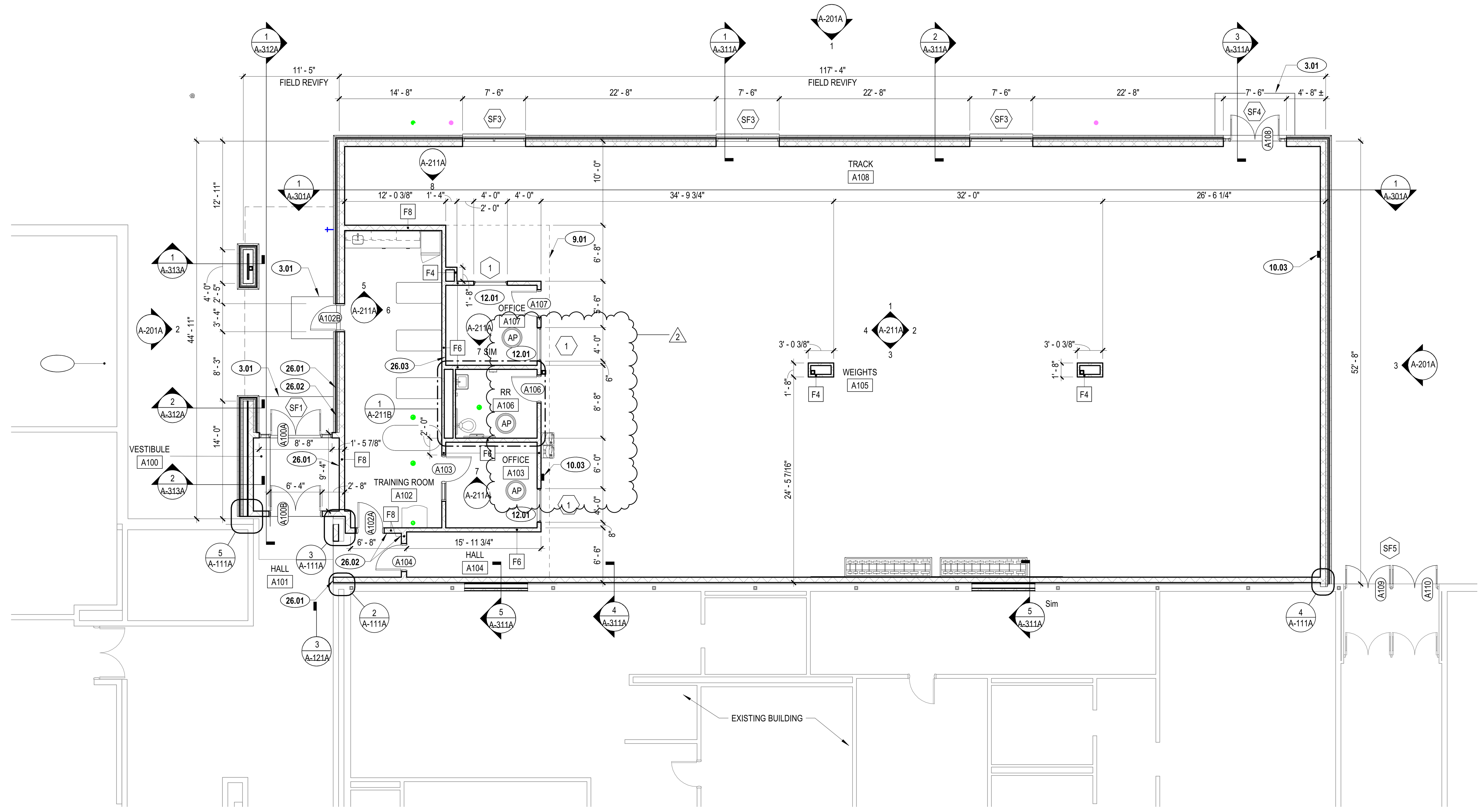
FLOOR PLAN GENERAL NOTES

1. GENERAL CONTRACTOR SHALL TAKE RESPONSIBILITY FOR COORDINATING REQUIRED WORK WITH ALL TRADES BASED UPON A COMPLETE SET OF CONSTRUCTION DOCUMENTS.
2. EACH CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AND OBTAIN ALL MEASUREMENTS REQUIRED FOR PROPER EXECUTION OF WORK. WHEN VERIFICATION OF EXISTING DIMENSIONS IS REQUIRED, THE CONTRACTOR REQUIRING SAID VERIFICATION FOR THE CONSTRUCTION OR FABRICATION OF HIS MATERIAL SHALL BE THE CONTRACTOR RESPONSIBLE FOR THE PROCUREMENT OF THE FIELD INFORMATION.
3. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.
4. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
5. UNLESS NOTED OTHERWISE, PLAN DIMENSIONS ARE TAKEN FROM FACE OF STUD, CMU, CONCRETE OR EXISTING FINISH TO FACE OF STUD, CMU OR CONCRETE.
6. REPAIR ALL SURFACES DAMAGED BY RENOVATION AND NEW CONSTRUCTION TO MATCH EXISTING ADJACENT OR CONTIGUOUS FINISH.
7. GENERAL CONTRACTOR TO PATCH ALL CONCRETE SLAB MECH/ELEC PENETRATIONS. PATCH SLAB FLUSH WITH EXISTING SLAB AND PROVIDE #4 DOWELS INTO EXISTING SLAB AS REQUIRED.
8. ALL CUTTING AND PATCHING AS A RESULT OF NEW CONSTRUCTION OR DEMOLITION SHALL BE PERFORMED IN A WORKMANLIKE MANNER, AND SHALL MATCH IN COLOR, SHAPE, SIZE AND TEXTURE ADJACENT AND/OR CONTIGUOUS FINISHED SURFACES.
9. WHERE PATCHING, REPAIRING OR INFILLING EXISTING MASONRY EXPOSED TO VIEW, "TOOTH-IN" NEW MASONRY TO ADJACENT EXISTING MASONRY TO REMAIN.
10. PATCH ALL CRACKS AND RESEAL JOINTS IN EXISTING SUBSTRATES SCHEDULED TO RECEIVE NEW FINISHES.
11. PROVIDE ALL BLOCKING NECESSARY FOR THE ATTACHMENT OF MISCELLANEOUS EQUIPMENT INCLUDING BUT NOT LIMITED TO CASEWORK, MILLWORK, TOILET ACCESSORIES, GRAB BARS, HANDRAILS, DOOR HARDWARE, ELECTRICAL DEVICES AND LABORATORY EQUIPMENT.
12. ALL INTERIOR WOOD BLOCKING SHALL BE FIRE-TREATED. ALL EXTERIOR WOOD BLOCKING SHALL BE PRESSURE TREATED.
13. PROVIDE FIRE-BLOCKING AND DRAFT-STOPPING IN COMBUSTIBLE CONCEALED WALLS AT 10'-0" O.C. MAX. HORIZONTALLY & VERTICALLY.
14. DOORS NOT OTHERWISE DIMENSIONED SHALL BE 8" FROM FACE OF ADJACENT CMU OR CONCRETE WALL TO ROUGH DOOR OPENING, AND 4" FROM FACE OF ADJACENT STUD WALL TO ROUGH DOOR OPENING.
15. THE TRANSITION OF DIFFERENT FLOORING MATERIALS AT A DOORWAY SHALL OCCUR AT THE CENTERLINE OF DOOR UNLESS NOTED OTHERWISE.
16. ALL WALL SURFACES, DOOR FRAMES, BULKHEADS AND CEILINGS SHALL RECEIVE PAINT WHEN PAINT IS INDICATED ON THE FINISH SCHEDULE OR FINISH PLANS. PAINT SURFACES BEHIND MOVABLE EQUIPMENT AND FURNITURE SAME AS SIMILAR EXPOSED SURFACES. PAINT SURFACES BEHIND PERMANENTLY FIXED EQUIPMENT OR FURNITURE WITH PRIME COAT ONLY BEFORE FINAL INSTALLATION OF EQUIPMENT. PAINT ALL MECHANICAL AND ELECTRICAL EQUIPMENT EXPOSED IN FINISHED SPACES UNLESS NOTED OTHERWISE.
17. FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE PRODUCT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND STANDARD DETAILS, IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATION REQUIREMENTS AND DESIGN INTENT.
18. PROVIDE FIRE EXTINGUISHERS (FE) AND FIRE EXTINGUISHER CABINETS (FEC) AS INDICATED ON THE PLANS. PROVIDE TYPE AND SIZE AS SPECIFIED. MOUNT AT 42" AFF TO TOP OF FE AND 48" AFF TO TOP OF FEC.
19. REFER TO LIFE SAFETY PLANS FOR RATED PARTITIONS AND ASSEMBLIES.
20. UNLESS NOTED OTHERWISE, NEW WALLS TO BE 3 5/8" METAL STUDS @ 16" O.C. WITH (1) LAYER OF 5/8" TYPE "X" GYPSUM BOARD EACH SIDE. EXTEND STUD AND GYPSUM BOARD TO MINIMUM 6" ABOVE FINISHED CEILING. SEAL AS REQUIRED FOR WALL RATINGS INDICATED.
21. THE DEMOLITION AND CONSTRUCTION OF THE BUILDINGS WILL BE DEFINED WITH THE OWNER IN PHASES ACCORDING TO THE SCHOOL CALENDAR AND THE FOOTBALL SEASON CALENDAR.

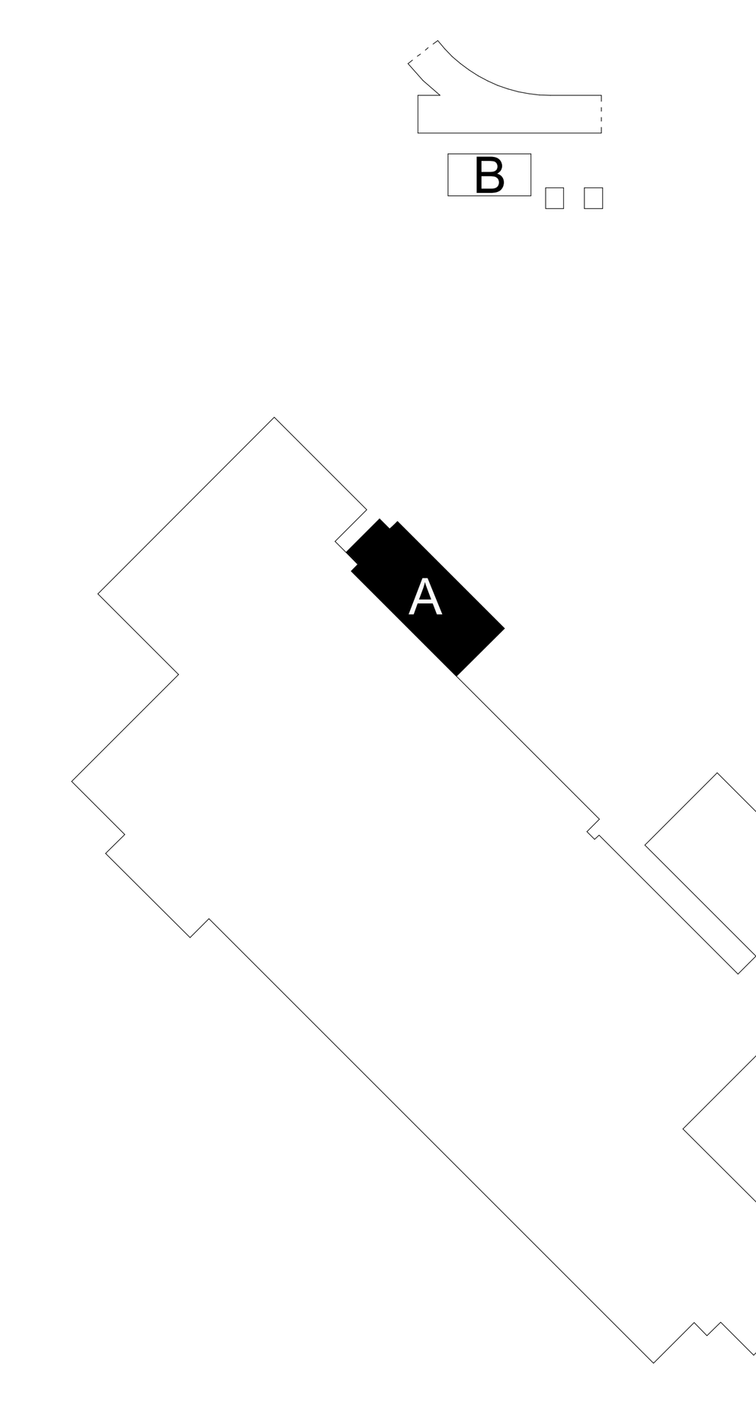
FLOOR PLAN NOTES

(3.01)

TAG	DESCRIPTION
DIV 3 - CONCRETE	
3.01	ADA COMPLIANT CONCRETE STOOP. COORDINATE WITH CIVIL AND STRUCTURAL DOCUMENTS
DIV 9 - FINISHES	
9.01	BULKHEAD ABOVE - SEE REFLECTED CEILING PLANS
DIV 10 - SPECIALTIES	
10.03	SEMI-RECESSED FIRE EXTINGISHER CABINET W/ 10-LB CLASS ABC EXTINGUISHER - SEE SPECIFICATIONS
DIV 12 - FURNISHINGS	
12.01	HORIZONTAL WINDOW BLINDS (LB-1) TO BE SURFACE MOUNTED
DIV 26 - ELECTRICAL	
26.01	ADA PUSH BUTTON - SEE ELECTRICAL
26.02	CARD ACCESS READER - SEE ELECTRICAL
26.03	MONITOR CONTROLS - SEE ELECTRICAL



1 First Floor Architectural Plan - Area A
1/8" = 1'-0"



Keyplan

ELEVATUS
ARCHITECTURE
111 E. Wayne Street, Suite 555, Fort Wayne, IN 46802
260 424-9080 ElevatusArchitecture.com

SEAL

CORY D. MILLER
REGISTERED
No. 10100148
STATE OF INDIANA
ARCHITECT

West Noble High School Renovation and Addition
5050 US-33,
Ligonier, IN, 46767

REVISIONS

NO.	DESCRIPTION	DATE
2	Addendum 2	2/28/2024

PROJECT NO.	ISSUE DATE
2301108	02-12-2024

SUBMITTAL
100% Construction Documents

Architectural Plan - First Floor Area A

A-111A

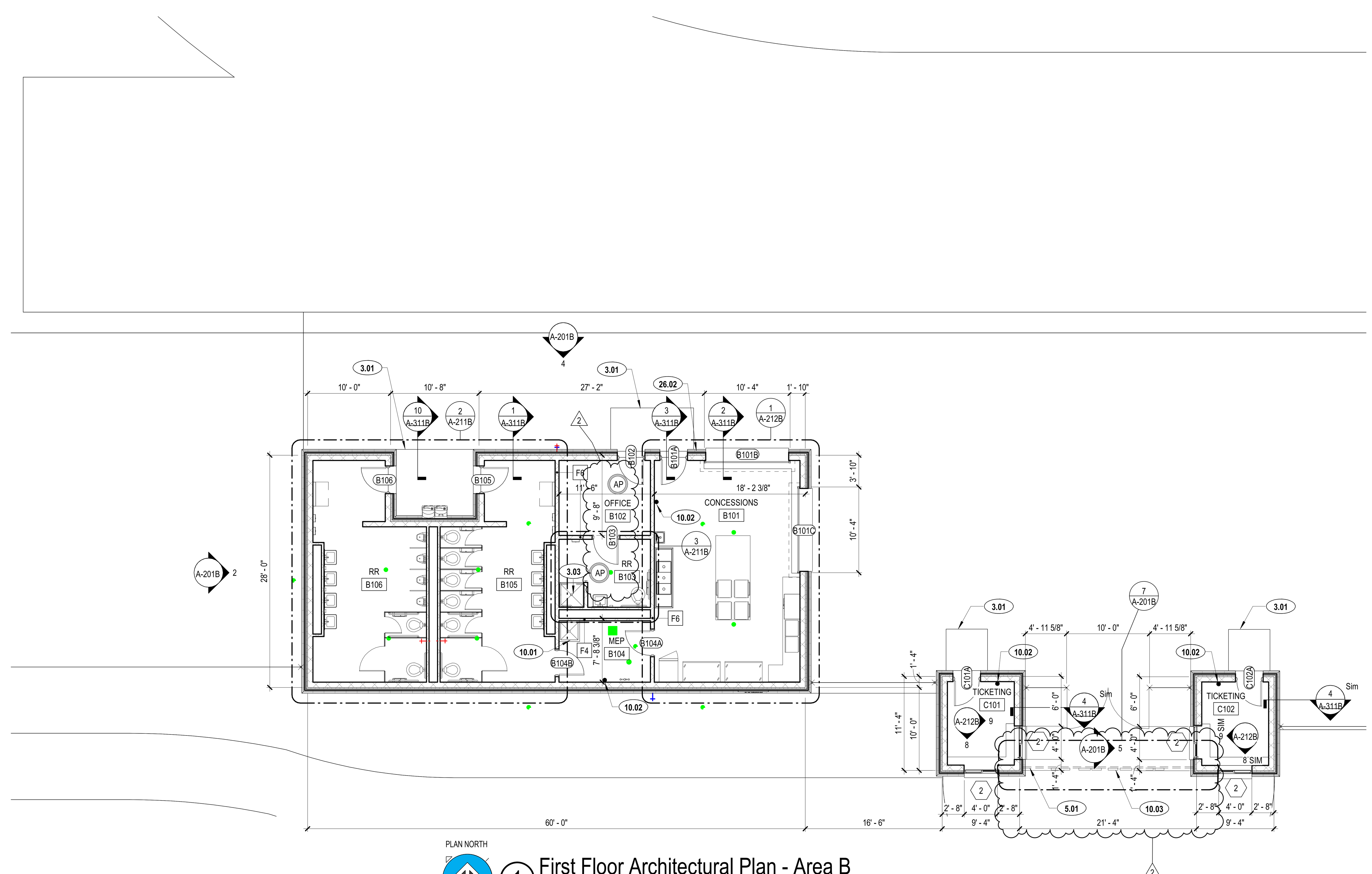
FLOOR PLAN GENERAL NOTES

1. GENERAL CONTRACTOR SHALL TAKE RESPONSIBILITY FOR COORDINATING REQUIRED WORK WITH ALL TRADES BASED UPON A COMPLETE SET OF CONSTRUCTION DOCUMENTS.
2. EACH CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AND OBTAIN ALL MEASUREMENTS REQUIRED FOR PROPER EXECUTION OF WORK. WHEN VERIFICATION OF EXISTING DIMENSIONS IS REQUIRED, THE CONTRACTOR REQUIRING SAID VERIFICATION FOR THE CONSTRUCTION OR FABRICATION OF HIS MATERIAL SHALL BE THE CONTRACTOR RESPONSIBLE FOR THE PROCUREMENT OF THE FIELD INFORMATION.
3. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.
4. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
5. UNLESS NOTED OTHERWISE, PLAN DIMENSIONS ARE TAKEN FROM FACE OF STUD, CMU, CONCRETE OR EXISTING FINISH TO FACE OF STUD, CMU OR CONCRETE.
6. REPAIR ALL SURFACES DAMAGED BY RENOVATION AND NEW CONSTRUCTION TO MATCH EXISTING ADJACENT OR CONTIGUOUS FINISH.
7. GENERAL CONTRACTOR TO PATCH ALL CONCRETE SLAB MECH/ELEC PENETRATIONS. PATCH SLAB FLUSH WITH EXISTING SLAB AND PROVIDE #4 DOWELS INTO EXISTING SLAB AS REQUIRED.
8. ALL CUTTING AND PATCHING AS A RESULT OF NEW CONSTRUCTION OR DEMOLITION SHALL BE PERFORMED IN A WORKMANLIKE MANNER, AND SHALL MATCH IN COLOR, SHAPE, SIZE AND TEXTURE ADJACENT AND/OR CONTIGUOUS FINISHED SURFACES.
9. WHERE PATCHING, REPAIRING OR INFILLING EXISTING MASONRY EXPOSED TO VIEW, "TOOTH-IN" NEW MASONRY TO ADJACENT EXISTING MASONRY TO REMAIN.
10. PATCH ALL CRACKS AND RESEAL JOINTS IN EXISTING SUBSTRATES SCHEDULED TO RECEIVE NEW FINISHES.
11. PROVIDE ALL BLOCKING NECESSARY FOR THE ATTACHMENT OF MISCELLANEOUS EQUIPMENT INCLUDING BUT NOT LIMITED TO CASEWORK, MILLWORK, TOILET ACCESSORIES, GRAB BARS, HANDRAILS, DOOR HARDWARE, ELECTRICAL DEVICES AND LABORATORY EQUIPMENT.
12. ALL INTERIOR WOOD BLOCKING SHALL BE FIRE-TREATED. ALL EXTERIOR WOOD BLOCKING SHALL BE PRESSURE TREATED.
13. PROVIDE FIRE-BLOCKING AND DRAFT-STOPPING IN COMBUSTIBLE CONCEALED WALLS AT 10'-0" O.C. MAX. HORIZONTALLY & VERTICALLY.
14. DOORS NOT OTHERWISE DIMENSIONED SHALL BE 8" FROM FACE OF ADJACENT CMU OR CONCRETE WALL TO ROUGH DOOR OPENING, AND 4" FROM FACE OF ADJACENT STUD WALL TO ROUGH DOOR OPENING.
15. THE TRANSITION OF DIFFERENT FLOORING MATERIALS AT A DOORWAY SHALL OCCUR AT THE CENTERLINE OF DOOR UNLESS NOTED OTHERWISE.
16. ALL WALL SURFACES, DOOR FRAMES, BULKHEADS AND CEILINGS SHALL RECEIVE PAINT WHEN PAINT IS INDICATED ON THE FINISH SCHEDULE OR FINISH PLANS. PAINT SURFACES BEHIND MOVABLE EQUIPMENT AND FURNITURE SAME AS SIMILAR EXPOSED SURFACES. PAINT SURFACES BEHIND PERMANENTLY FIXED EQUIPMENT OR FURNITURE WITH PRIME COAT ONLY BEFORE FINAL INSTALLATION OF EQUIPMENT. PAINT ALL MECHANICAL AND ELECTRICAL EQUIPMENT EXPOSED IN FINISHED SPACES UNLESS NOTED OTHERWISE.
17. FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE PRODUCT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND STANDARD DETAILS, IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATION REQUIREMENTS AND DESIGN INTENT.
18. PROVIDE FIRE EXTINGUISHERS (FE) AND FIRE EXTINGUISHER CABINETS (FEC) AS INDICATED ON THE PLANS. PROVIDE TYPE AND SIZE AS SPECIFIED. MOUNT AT 42" AFF TO TOP OF FE AND 48" AFF TO TOP OF FEC.
19. REFER TO LIFE SAFETY PLANS FOR RATED PARTITIONS AND ASSEMBLIES.
20. UNLESS NOTED OTHERWISE, NEW WALLS TO BE 3 5/8" METAL STUDS @ 16" O.C. WITH (1) LAYER OF 5/8" TYPE "X" GYPSUM BOARD EACH SIDE. EXTEND STUD AND GYPSUM BOARD TO MINIMUM 6" ABOVE FINISHED CEILING. SEAL AS REQUIRED FOR WALL RATINGS INDICATED.
21. THE DEMOLITION AND CONSTRUCTION OF THE BUILDINGS WILL BE DEFINED WITH THE OWNER IN PHASES ACCORDING TO THE SCHOOL CALENDAR AND THE FOOTBALL SEASON CALENDAR.

FLOOR PLAN NOTES

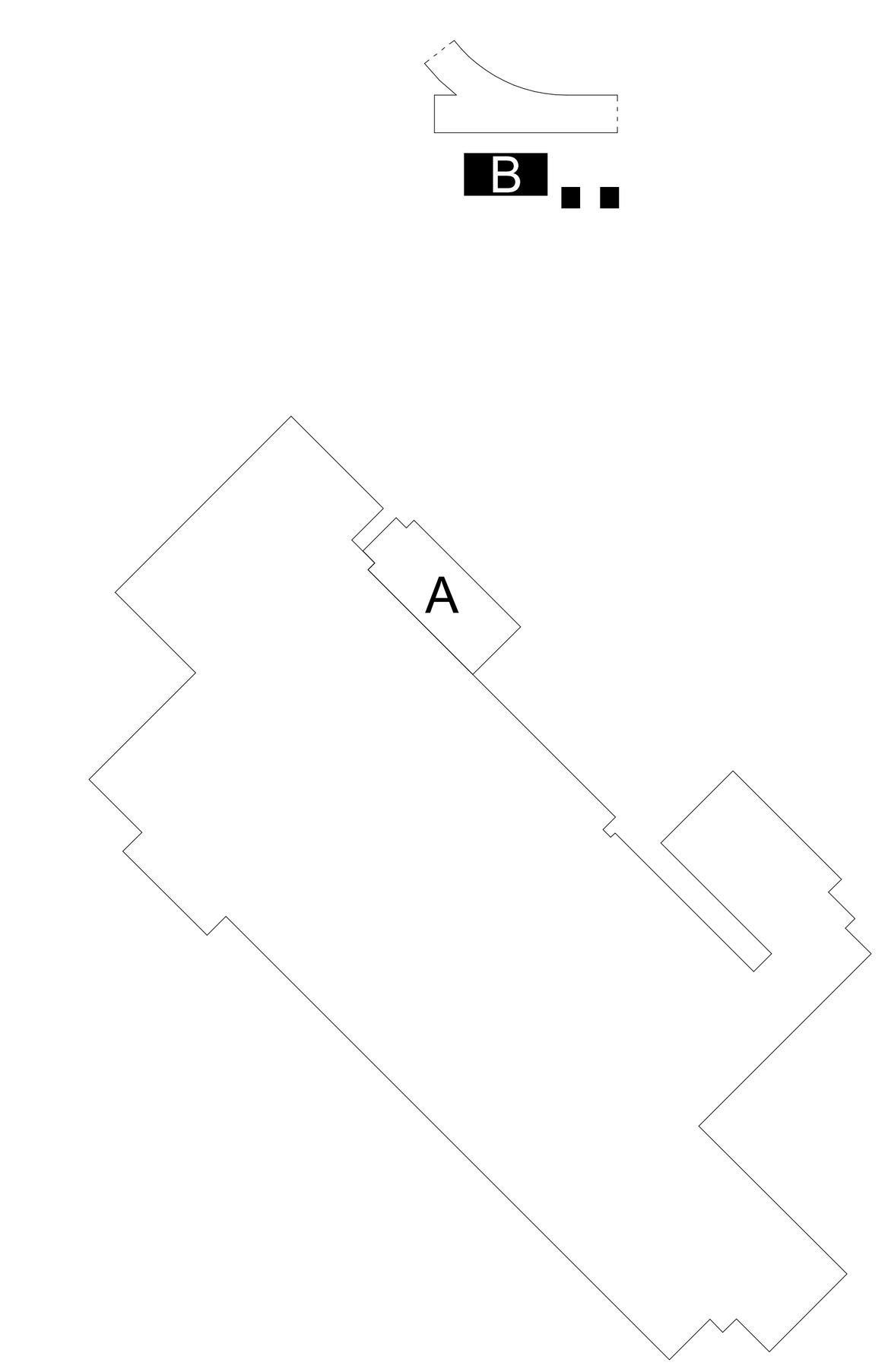
3.01

TAG	DESCRIPTION
DIV 3 - CONCRETE	
3.01	ADA COMPLIANT CONCRETE STOOP. COORDINATE WITH CIVIL AND STRUCTURAL DOCUMENTS
3.03	RECESSED CONCRETE FLOOR. SEE STRUCTURAL DOCUMENTS, FOUNDATION PLAN.
DIV 10 - SPECIALTIES	
5.01	GALVANIZED STEEL TRUSS TO SUPPORT THE LIGHTED SIGN ANCHOR TO CMU WALL BY DELEGATED DESIGN. DRAWING REPRESENTS CONCEPT.
10.01	UTILITY SHELF. SEE TOILET ACCESSORIES SCHEDULE. PROVIDE 36" HIGH PLASTIC SHEET WALL PROTECTION AT MOP SINK BELOW.
10.02	BRACKET MOUNTED 10-LB CLASS ABC FIRE EXTINGISHER - SEE SPECIFICATIONS
10.03	ELECTRIFIED/LIGHTED SIGNAGE MOUNTED (INDIVIDUAL LETTERS) TO TRUSS BY DELEGATE DESIGN. DRAWING REPRESENTS CONCEPT. SHOP DRAWINGS SUBMITTAL TO INCLUDE DETAILS, CONNECTION, FONT, SPACING, AND COLOR FOR FINAL REVIEW BY ARCHITECT AND OWNER.
DIV 26 - ELECTRICAL	
26.02	CARD ACCESS READER - SEE ELECTRICAL



PLAN NORTH

1 First Floor Architectural Plan - Area B
1/8" = 1'-0"



PLAN NORTH

Keyplan

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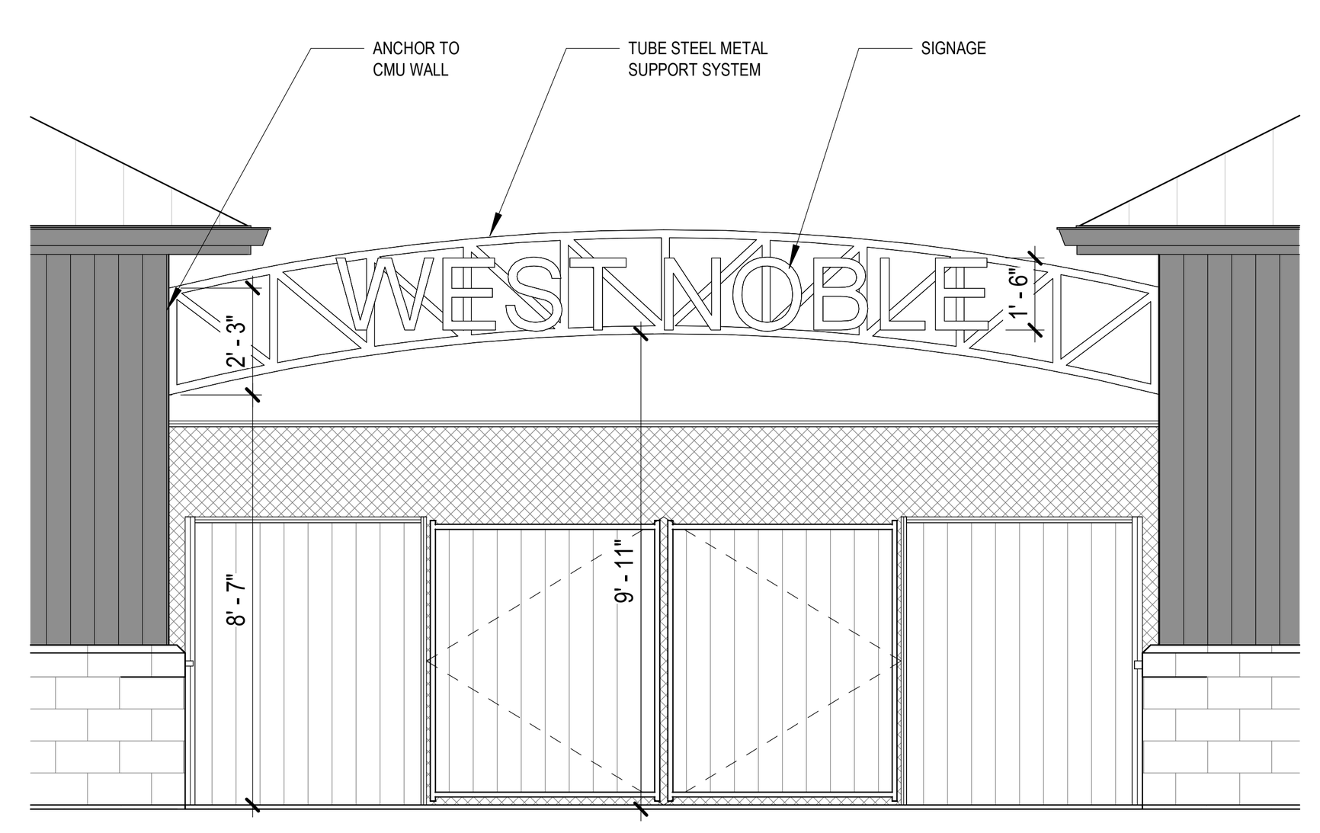
Architectural Plan - First Floor Area B

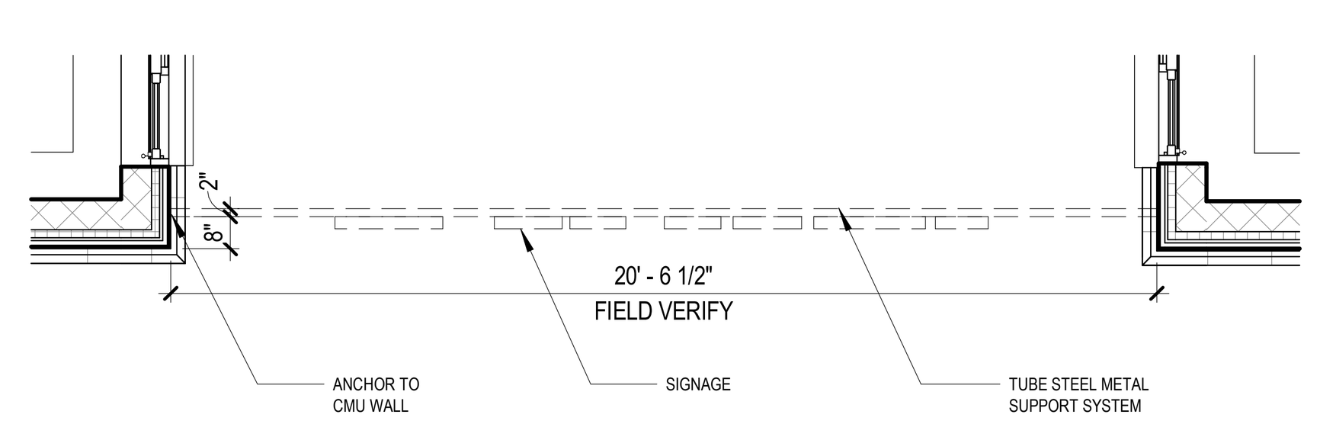
A-111B

ELEVATION NOTES

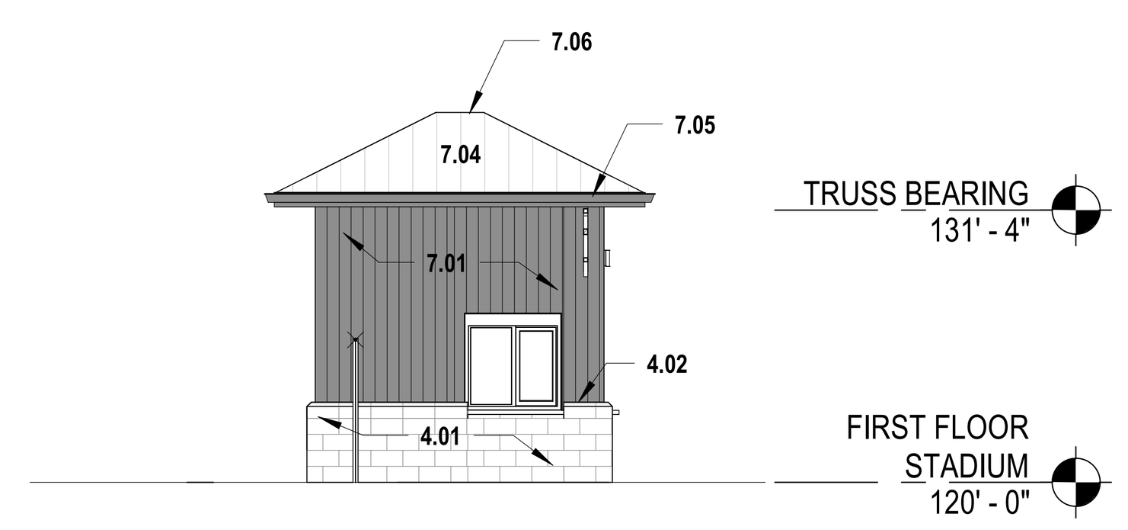
TAG	DESCRIPTION
DIV 4 - MASONRY	
4.01	SPLITFACE CMU VENNER. COLOR "STORMY" - TRY COUNTY
4.02	SOLID CHAMFERED 4" CMU.
DIV 5 - METALS	
5.01	GALVANIZED STEEL TRUSS TO SUPPORT THE LIGHTED SIGN BY DELEGATED DESIGN. DRAWING REPRESENTS CONCEPT. SHOP DRAWING SUBMITTAL TO INCLUDE DETAILS, CONNECTION, AND MATERIALS FOR AESTHETIC APPROVAL BY ARCHITECT AND OWNER.
5.02	CHAINLINK FENCE.
5.03	DECORATIVE FENCE GATE - SEE DETAIL.
5.04	DECORATIVE FENCE - SEE DETAIL.
DIV 7 - THERMAL AND MOISTURE PROTECTION	
7.01	PREFINISHED CONCELEAD FASTENER METAL SIDING PANEL PAC-CLAD COLOR MUSKET GRAY.
7.04	PREFINISHED METAL ROOF
7.05	ALUMINUM DOWNSPOTS & GUTTERS.
7.06	ROOF RIDGE VENT
DIV 10 - SPECIALTIES	
10.01	ELECTRIFIED/LIGHTED SIGNAGE MOUNTED (INDIVIDUAL LETTERS) TO TRUSS BY DELEGATE DESIGN. DRAWING REPRESENTS CONCEPT. SHOP DRAWINGS SUBMITTAL TO INCLUDE DETAILS, CONNECTION, FONT, SPACING, AND COLOR FOR FINAL REVIEW BY ARCHITECT AND OWNER.
10.02	STAINLESS STEEL COUNTERTOP
10.03	ELECTRIFIED/LIGHTED BUILDING SIGNAGE MOUNTED BY OTHERS. DRAWING REPRESENTS CONCEPT.



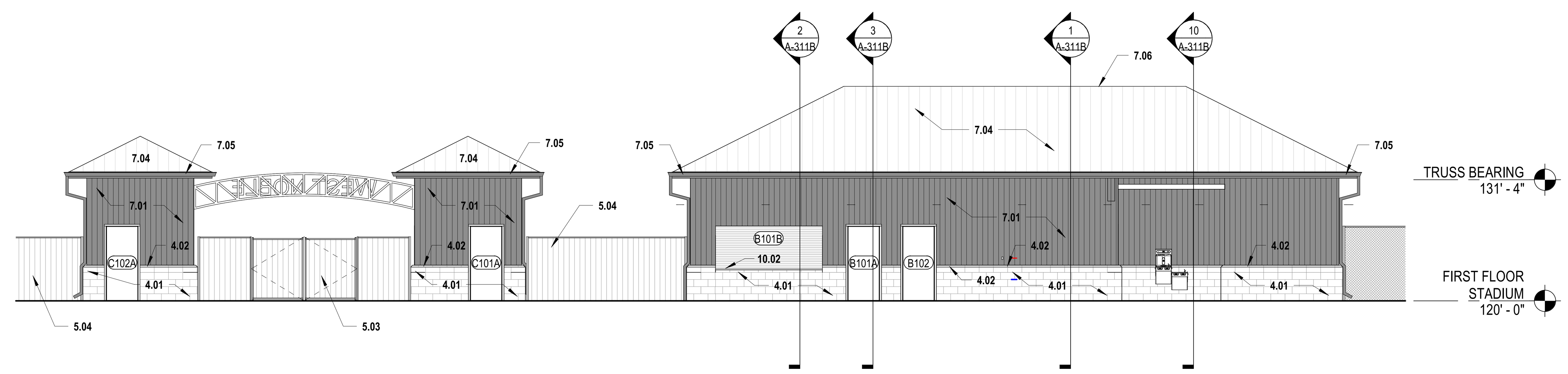
6 Elevation Detail - Sign - Area B
1/4" = 1'-0"



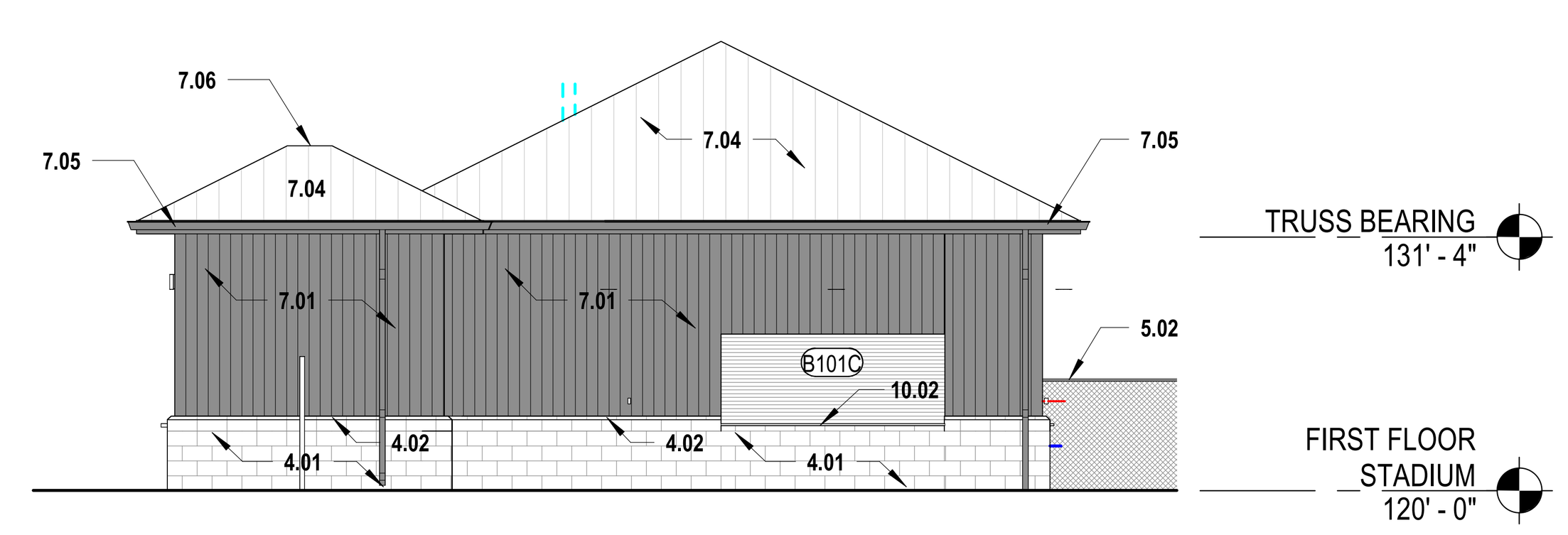
7 Enlarged Detail - Sign - Area B
1/4" = 1'-0"



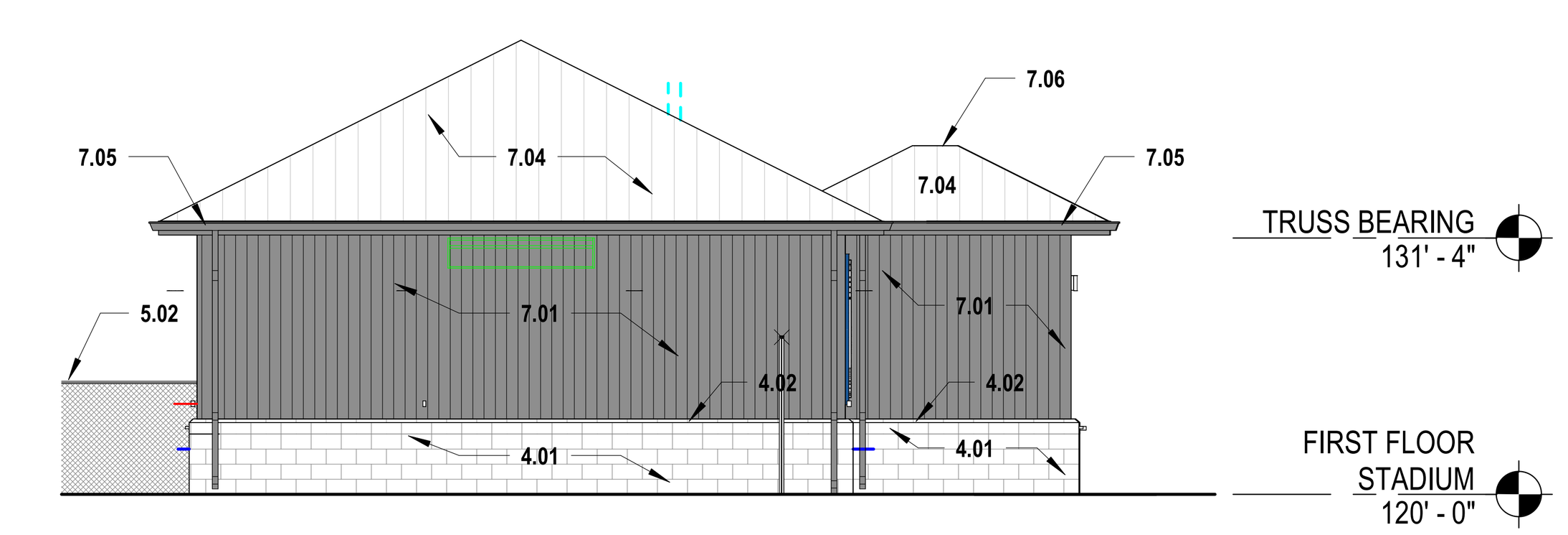
5 Building Elevation - West - Area B
1/8" = 1'-0"



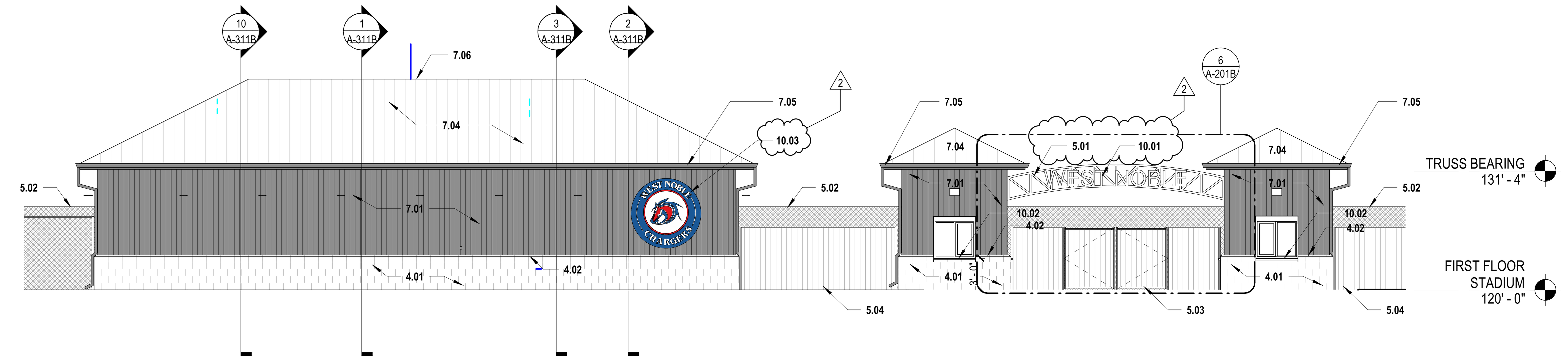
4 Building Elevation - North - Area B
1/8" = 1'-0"



3 Building Elevation - East - Area B
1/8" = 1'-0"



2 Building Elevation - West - Area B
1/8" = 1'-0"



1 Building Elevation - South - Area B
1/8" = 1'-0"

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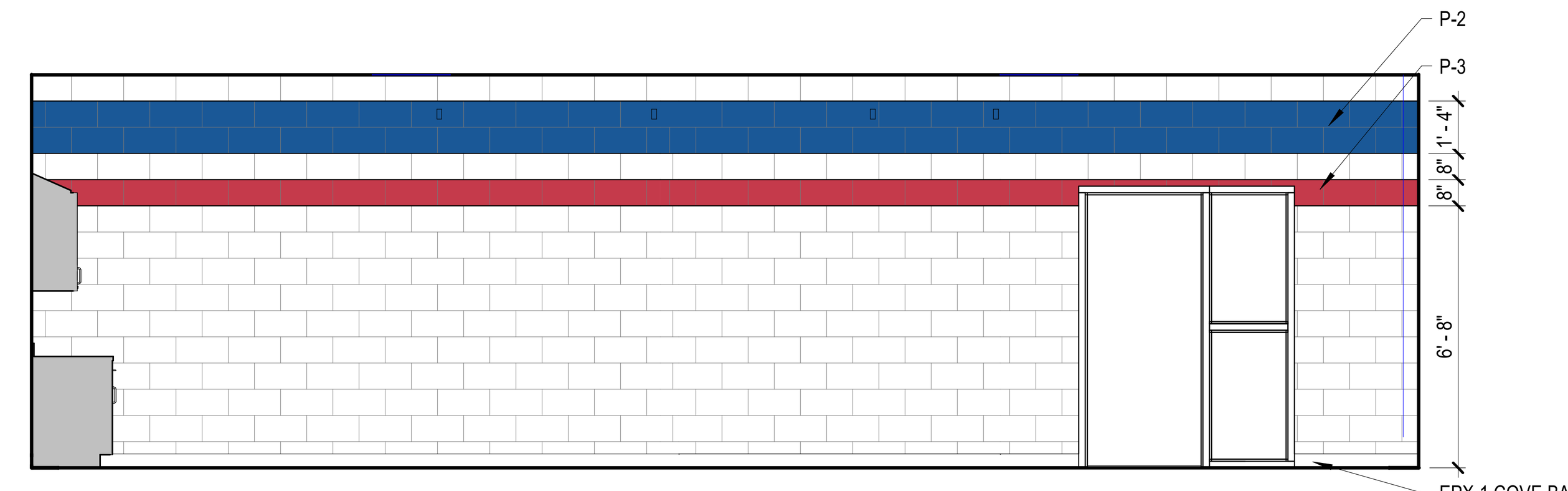
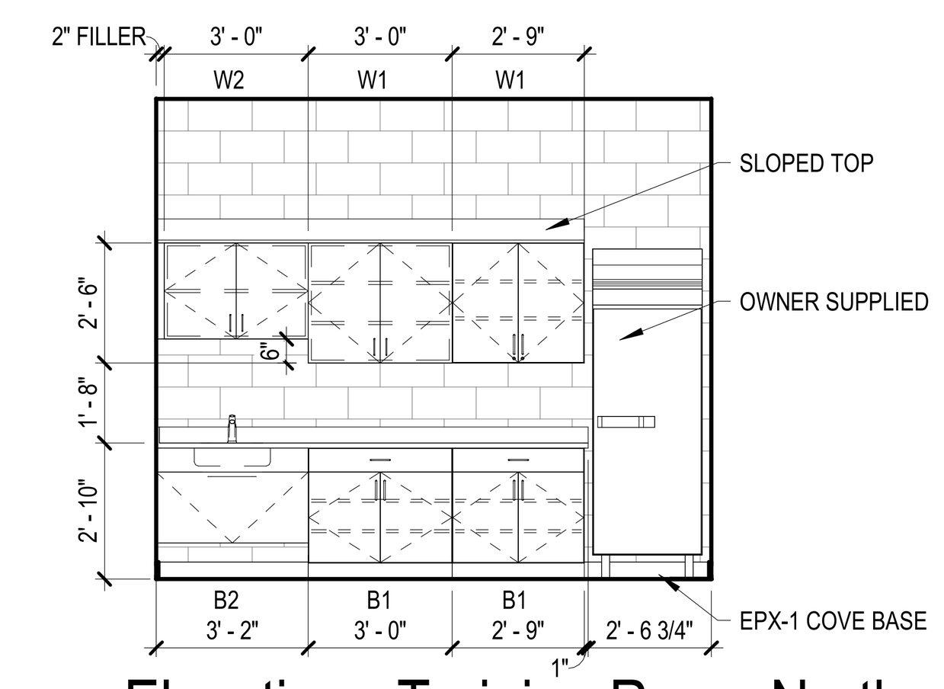
Building Elevations - Area B

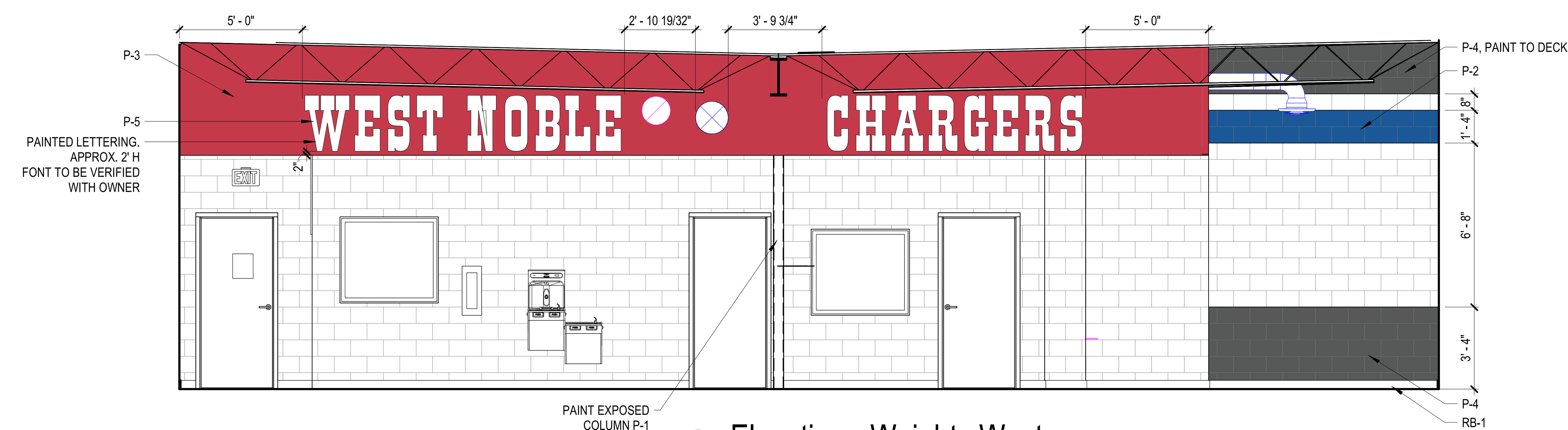
A-201B



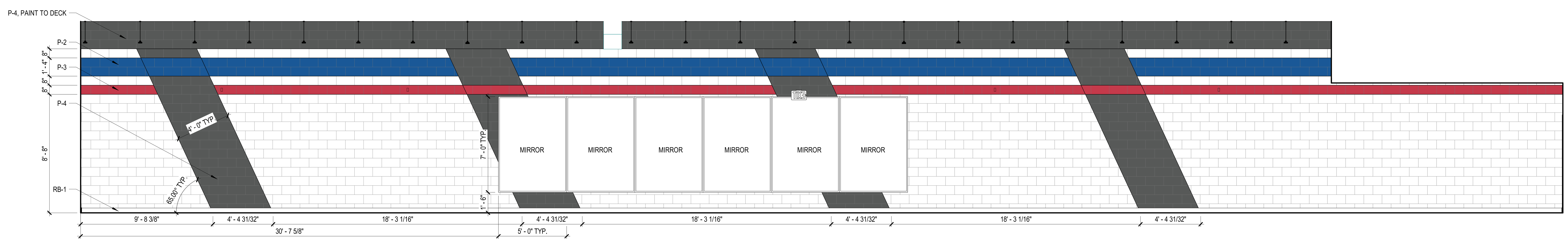
6 Elevation - Training Room East
1/4" = 1'-0"



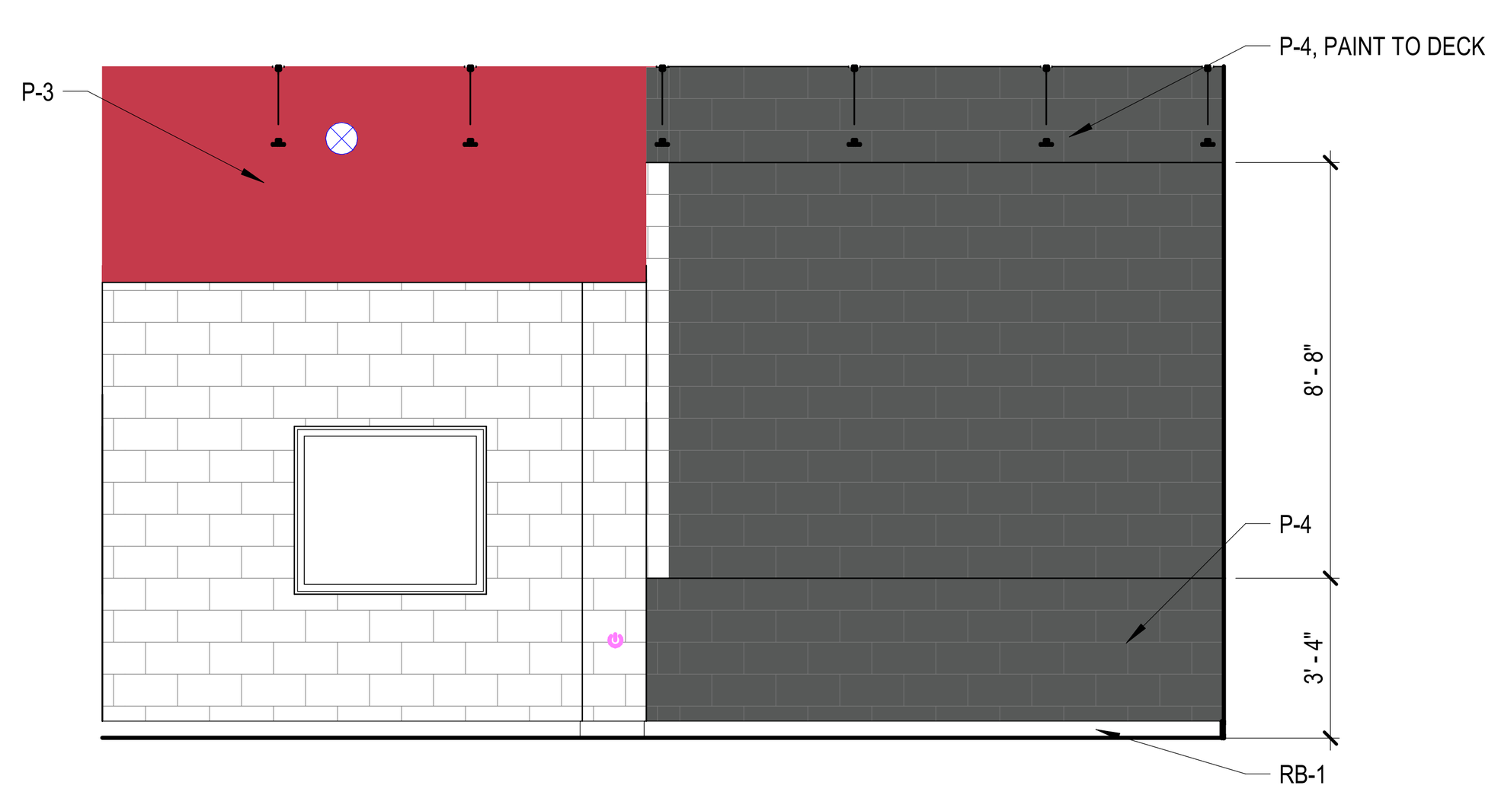
5 Elevation - Training Room North
1/4" = 1'-0"



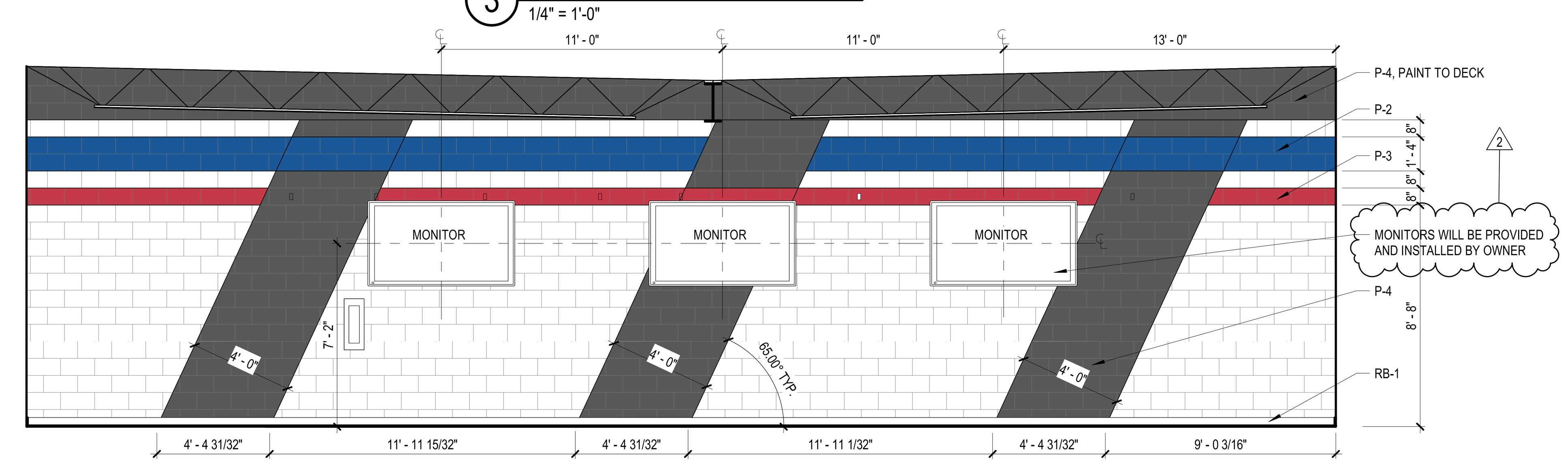
4 Elevation - Weights West
1/4" = 1'-0"



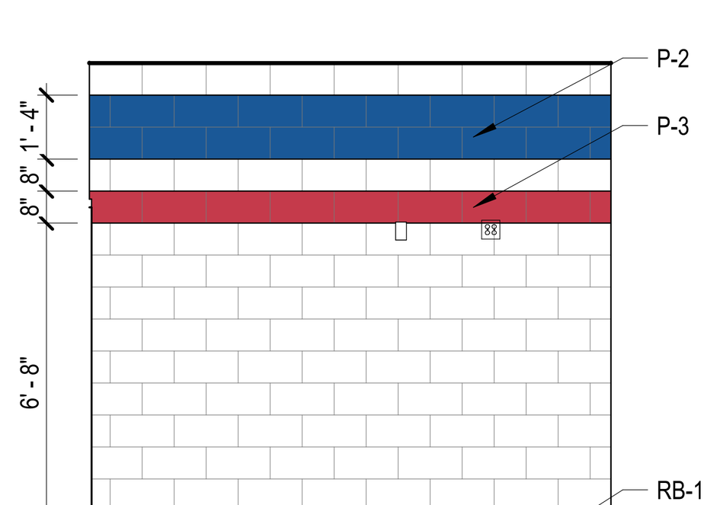
3 Elevation - Weights South
1/4" = 1'-0"



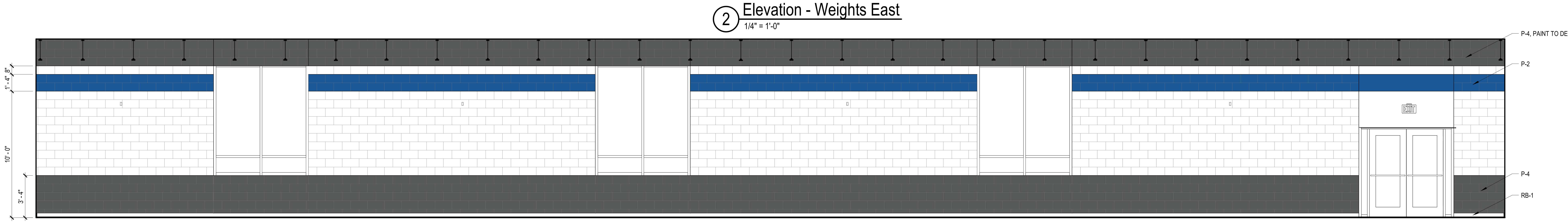
8 Elevation - Track South
1/4" = 1'-0"



2 Elevation - Weights East
1/4" = 1'-0"



7 Elevation - Office Typ.
1/4" = 1'-0"



1 Elevation - Weights North
1/4" = 1'-0"

CASEWORK GENERAL NOTES

1. ALL CASEWORK SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE.
2. WALL CABINETS SHALL BE 12" DEEP.
3. BASE CABINETS SHALL BE 24" DEEP.
4. COUNTERTOPS SHALL EXTEND 1" BEYOND THE DEPTH OF THE BASE CABINETS BELOW.
5. COUNTERTOPS WITH EXPOSED OUTSIDE CORNERS SHALL HAVE THE CORNERS CHAMFERED.
6. COUNTERTOPS SHALL HAVE 4" HIGH SIDE SPLASHES AND INTEGRAL BACKSPLASHES SCRIBED TO CONFORM TO THE SURFACES OF ABUTTING WALLS AT BACKS AND ENDS OF THE COUNTERTOP. TOPS OF SIDE SPLASHES SHALL BE FLUSH WITH TOP OF BACKSPLASH.
7. SHELVING UP TO 30" WIDE SHALL BE 3/4" THICK AND ADJUSTABLE, SHELVING OVER 30" WIDE SHALL BE 1" THICK AND HAVE INTERMEDIATE ADJUSTABLE SUPPORTS ALONG THE INSIDE BACK OF CABINET.
8. MAXIMUM CABINET DOOR WIDTHS SHALL BE 2'-0".
9. HINGES AND RELATED HARDWARE SHALL BE FIVE KNUCKLE.
10. EXPOSED CABINET SIDES SHALL RECEIVE FINISHED END PANELS.
11. GROMMETS TO BE BLACK, 2 1/2" DIAMETER .
12. CASEWORK DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO SUBMITTING SHOP DRAWINGS. DO NOT SCALE DRAWINGS.
13. THE CONTRACTOR SHALL PROVIDE SOLID BLOCKING AS REQUIRED FOR WALL MOUNTED CASEWORK AND ACCESSORIES.
14. THE CONTRACTOR SHALL VERIFY AND COORDINATE CLEAR DIMENSIONS REQUIRED FOR OWNER FURNISHED EQUIPMENT WHICH IS LOCATED WITHIN OR ADJACENT TO ANY PIECE OF CASEWORK.
15. CASEWORK SHALL BE CAULKED AT ALL JUNCTURES WITH ADJOINING MATERIALS INCLUDING WALL, BASE, COUNTERTOP, ETC. EVEN THOUGH JOINT MAY NOT BE VISIBLE.
16. CASEWORK FABRICATOR AND INSTALLER SHALL COORDINATE WITH APPROPRIATE SUBCONTRACTORS FOR INSTALLATION OF SINKS WITH ASSOCIATED PIPING AND FITTINGS, AND FOR INSTALLATION OF ELECTRICAL RECEPTACLES, LIGHT FIXTURES, VOICE/DATA OUTLETS, ETC. WITHIN THE CASEWORK.
17. PROVIDE SCHEDULED BASE ALONG BOTTOM OF EXPOSED FRONTS, BACKS, SIDES AND ENDS OF ALL FIXED CASEWORK, WARDROBES, END PANELS, VERTICAL SUPPORTS, KNEE SPACES, ETC.
18. INDIVIDUAL WALL CABINET WIDTHS SHALL BE ALIGNED WITH INDIVIDUAL BASE CABINET WIDTHS BELOW.
19. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER IN CONFLICTS BETWEEN THE PROPOSED EQUIPMENT SUPPLIED BY THE OWNER AND THE CASEWORK FOUND WITHIN THE CONSTRUCTION DOCUMENTS AND SHALL REPORT AT ONCE TO THE ARCHITECT ANY ERROR, INCONSISTENCY, OR OMISSION THAT MAY BE DISCOVERED DURING THIS COORDINATION.
20. COORDINATE OWNER SUPPLIED WALL ACCESSORIES PRIOR TO INSTALLATION.

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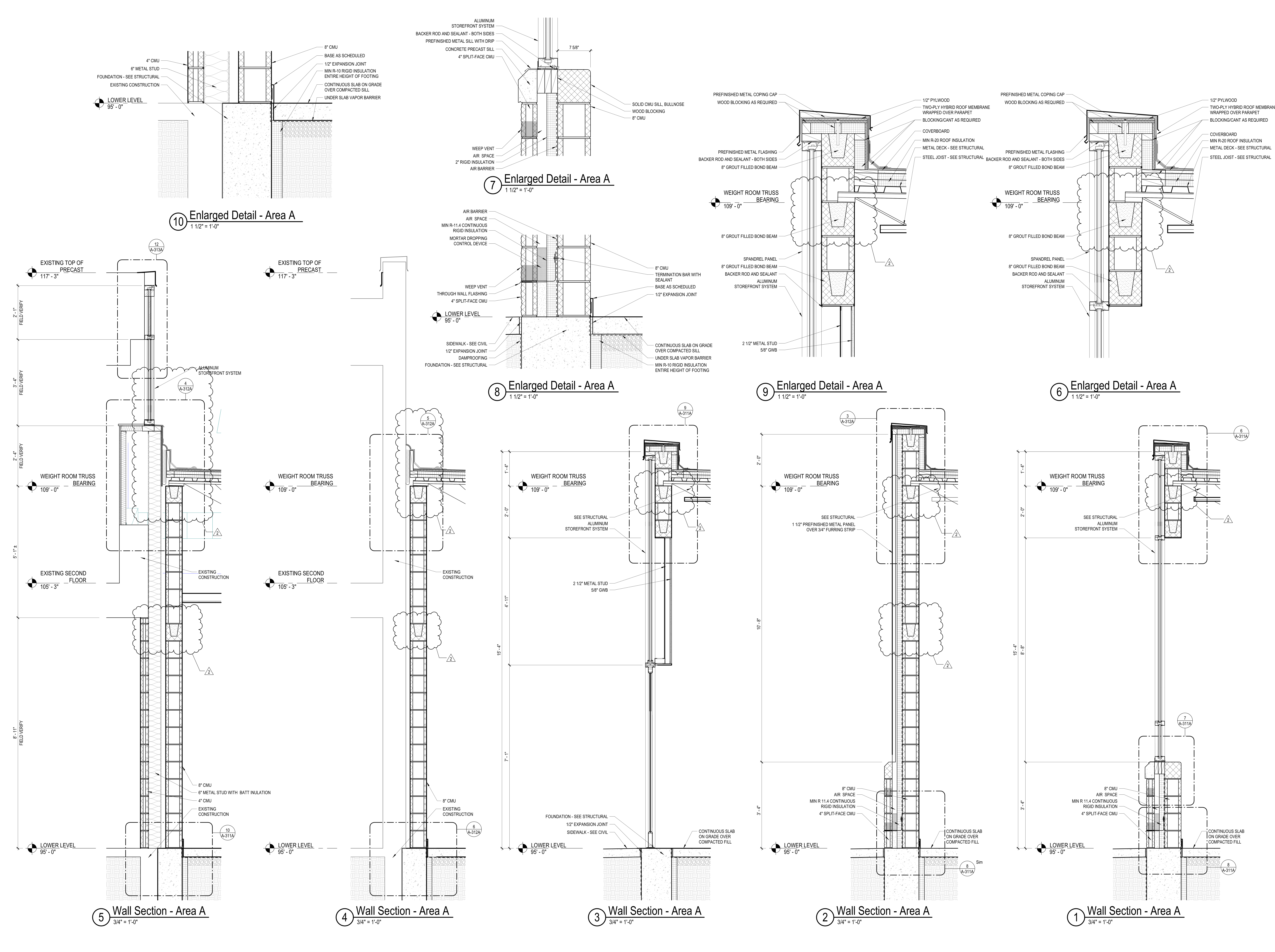
SUBMITTAL 100% Construction Documents

Enlarged Plans & Interior Elevations - Area A

A-211A



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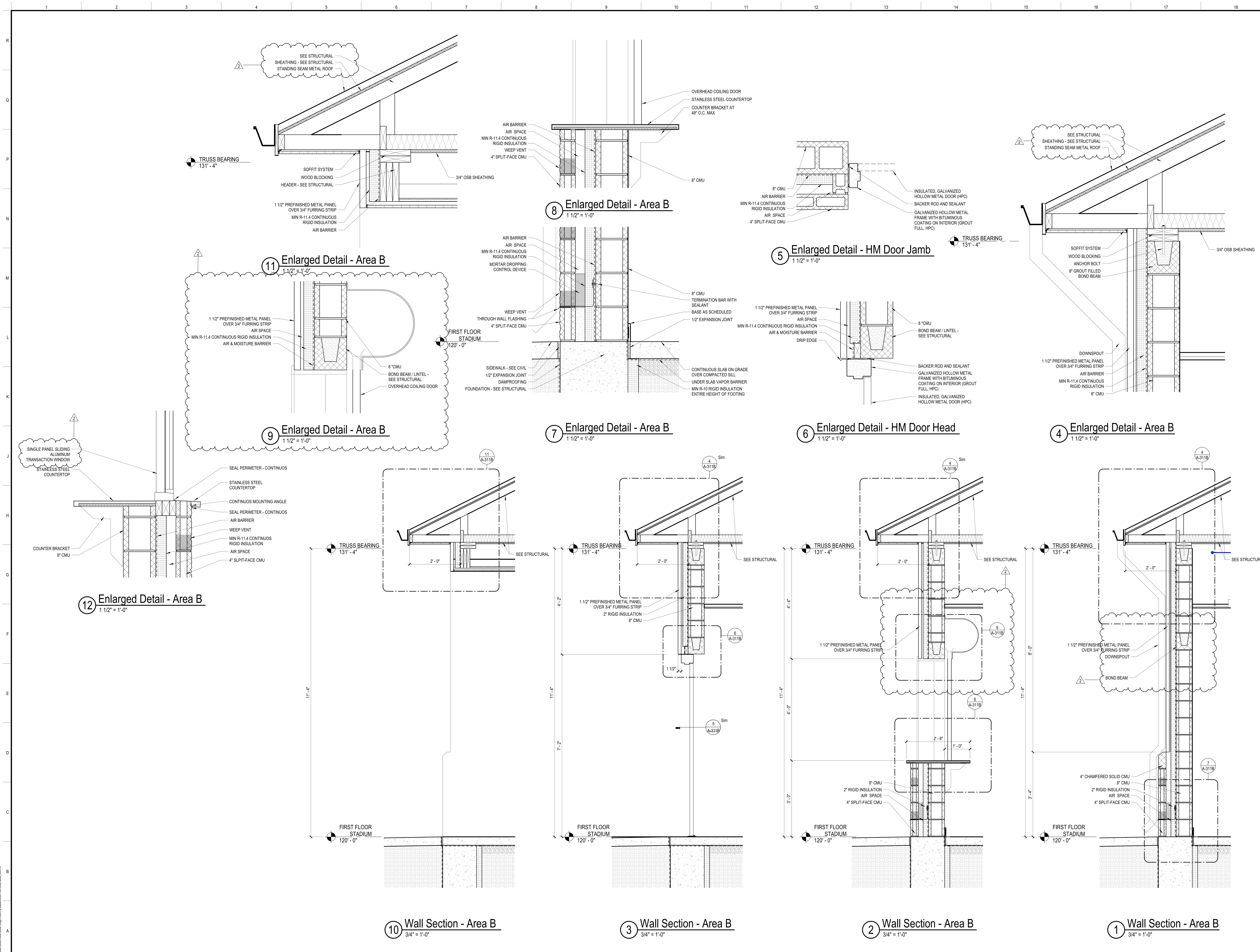
Wall Sections - Area A

A-311A



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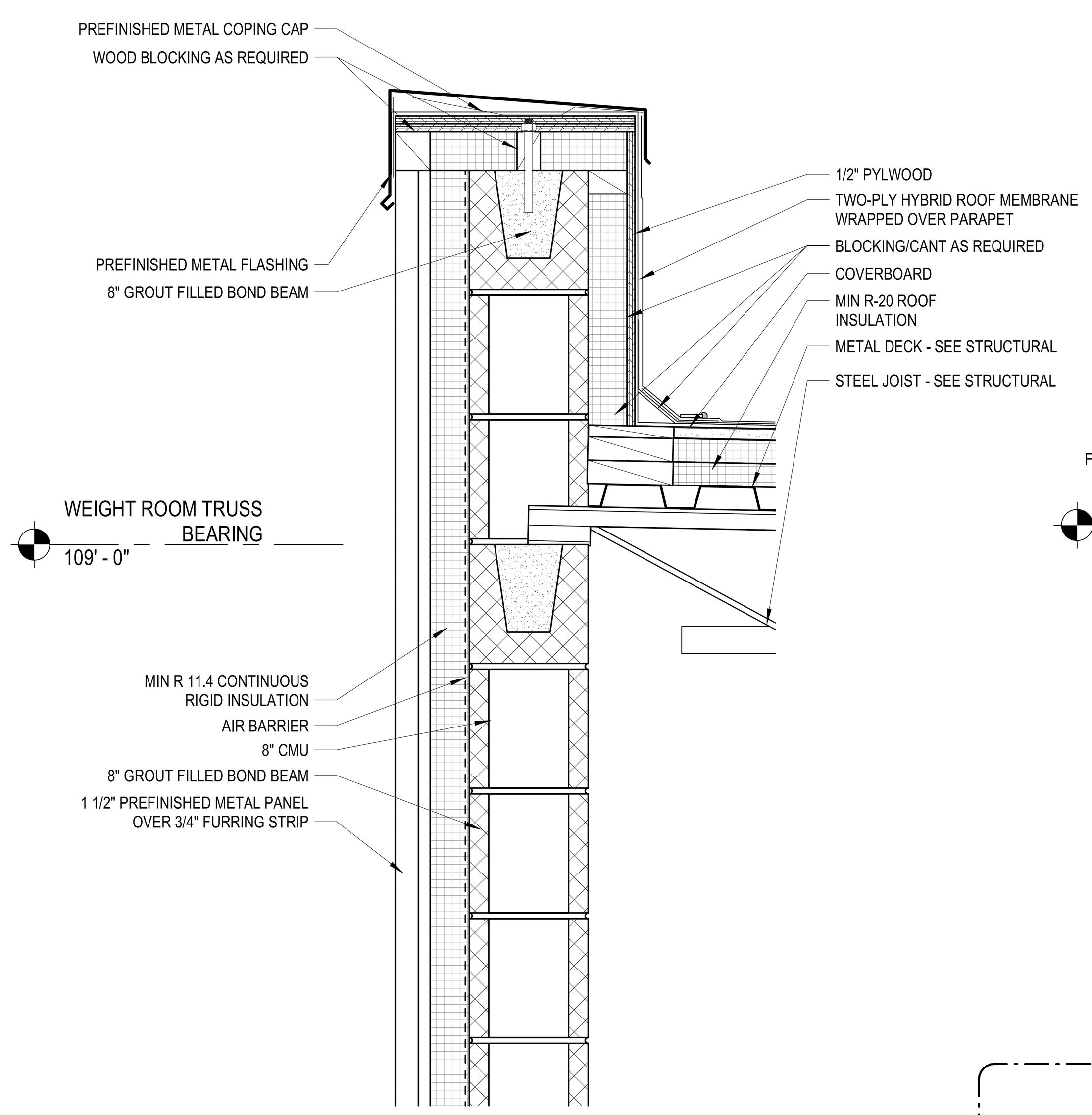
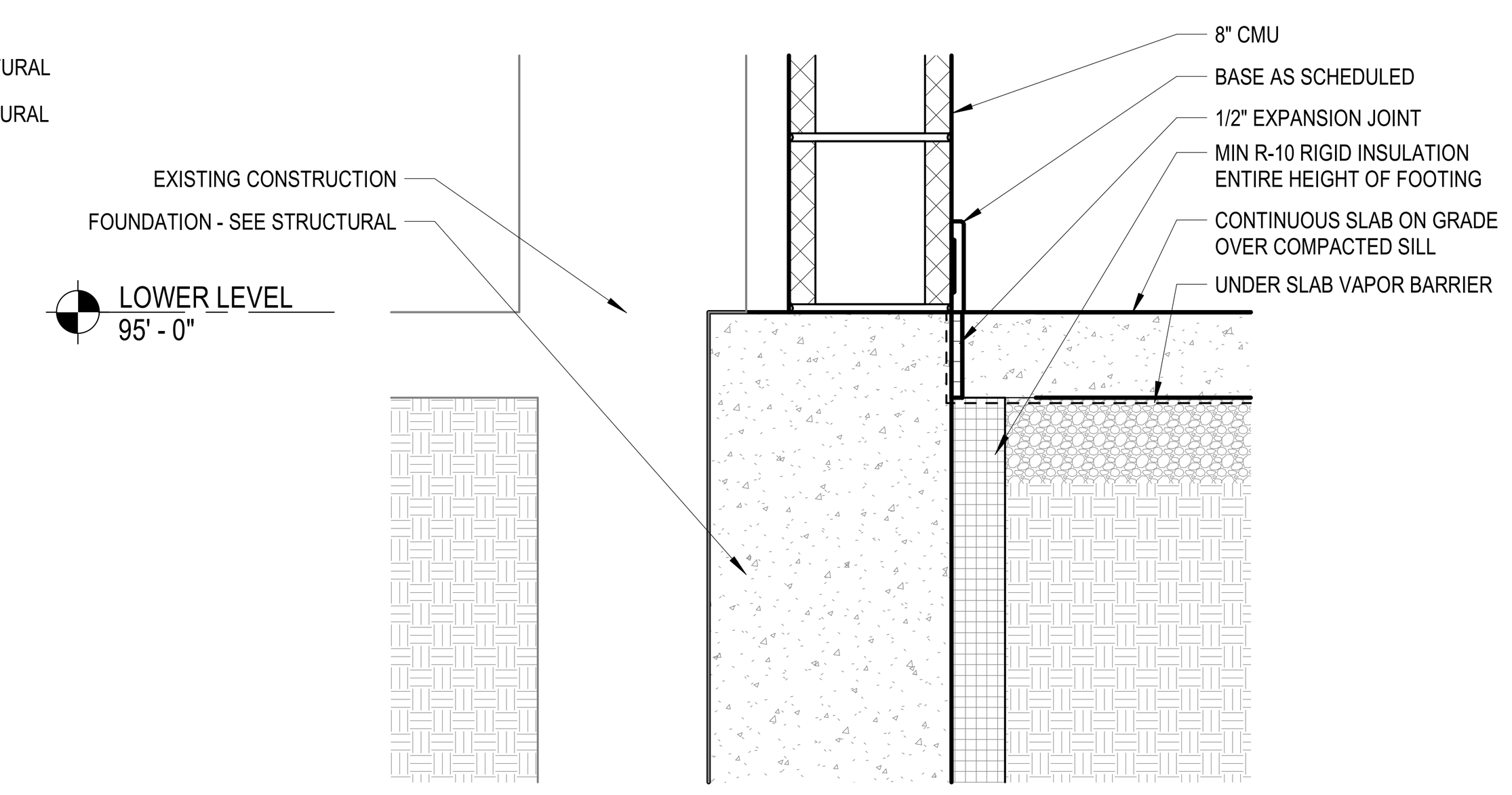
Wall Sections - Area B

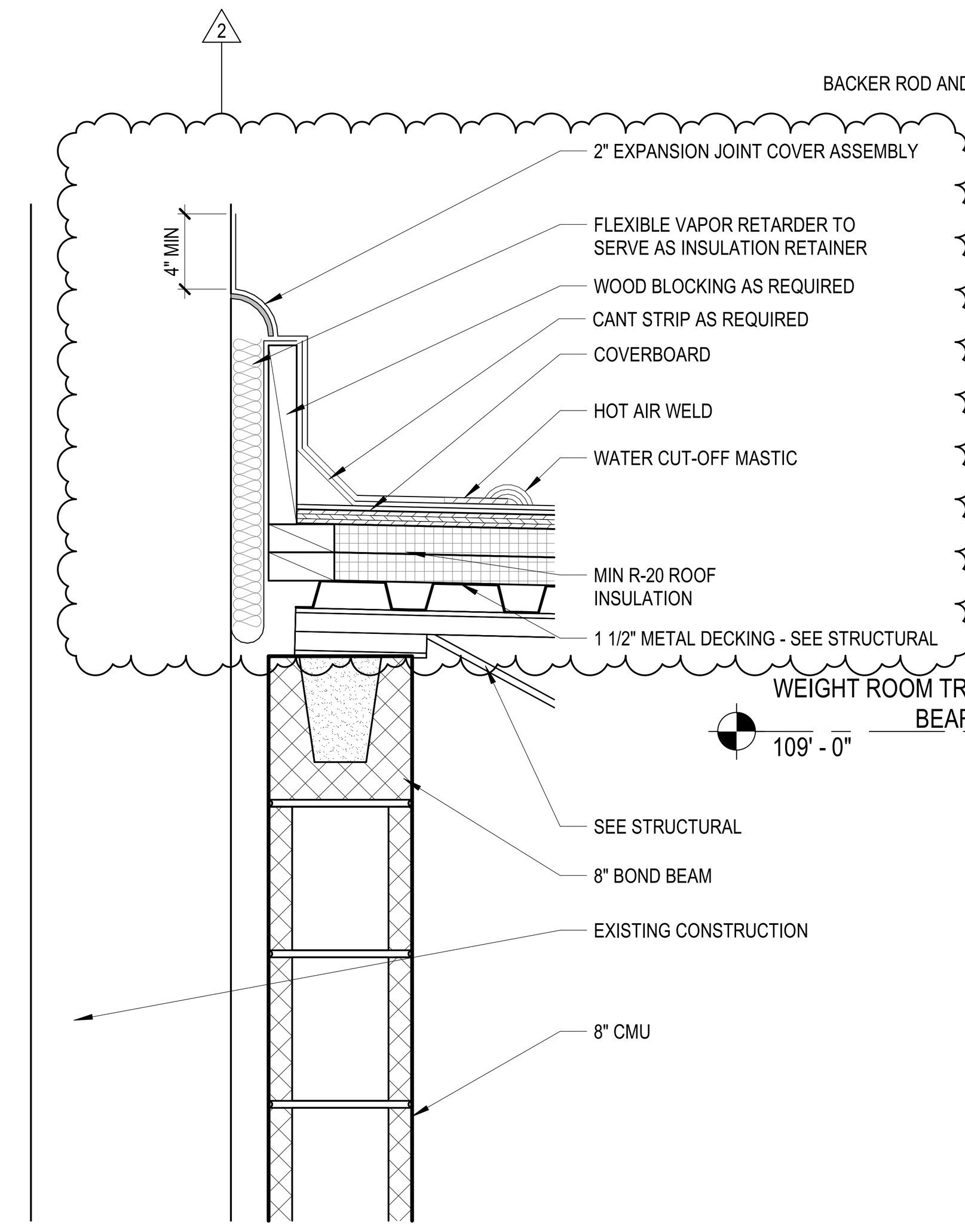
A-311B



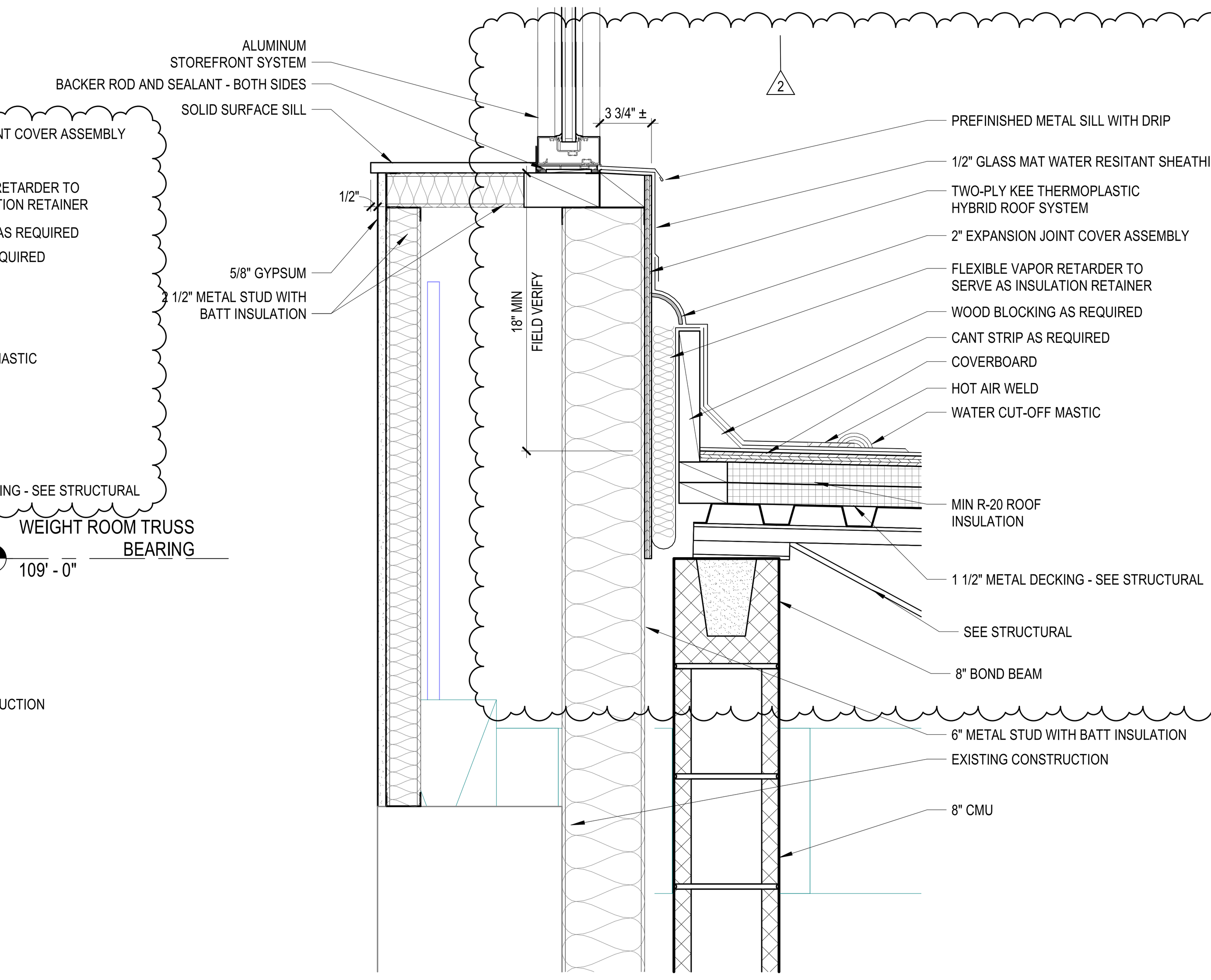
3 Enlarged Detail - Area A
1 1/2" = 1'-0"



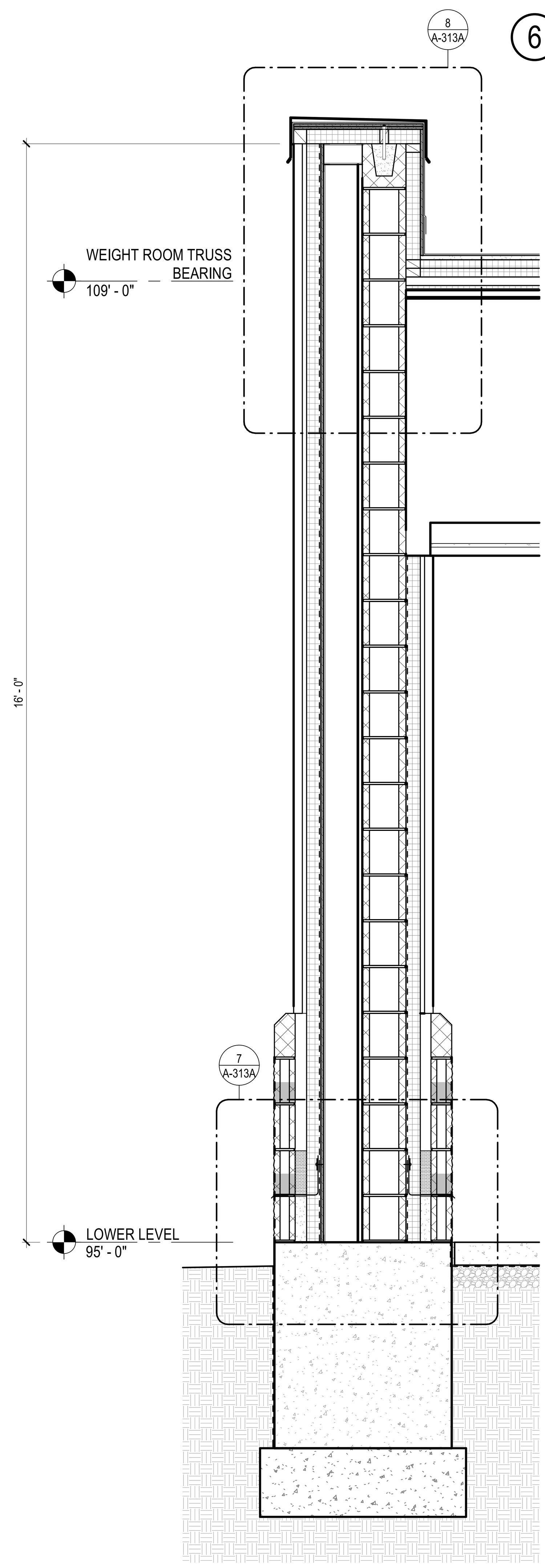
6 Enlarged Detail - Area A
1 1/2" = 1'-0"



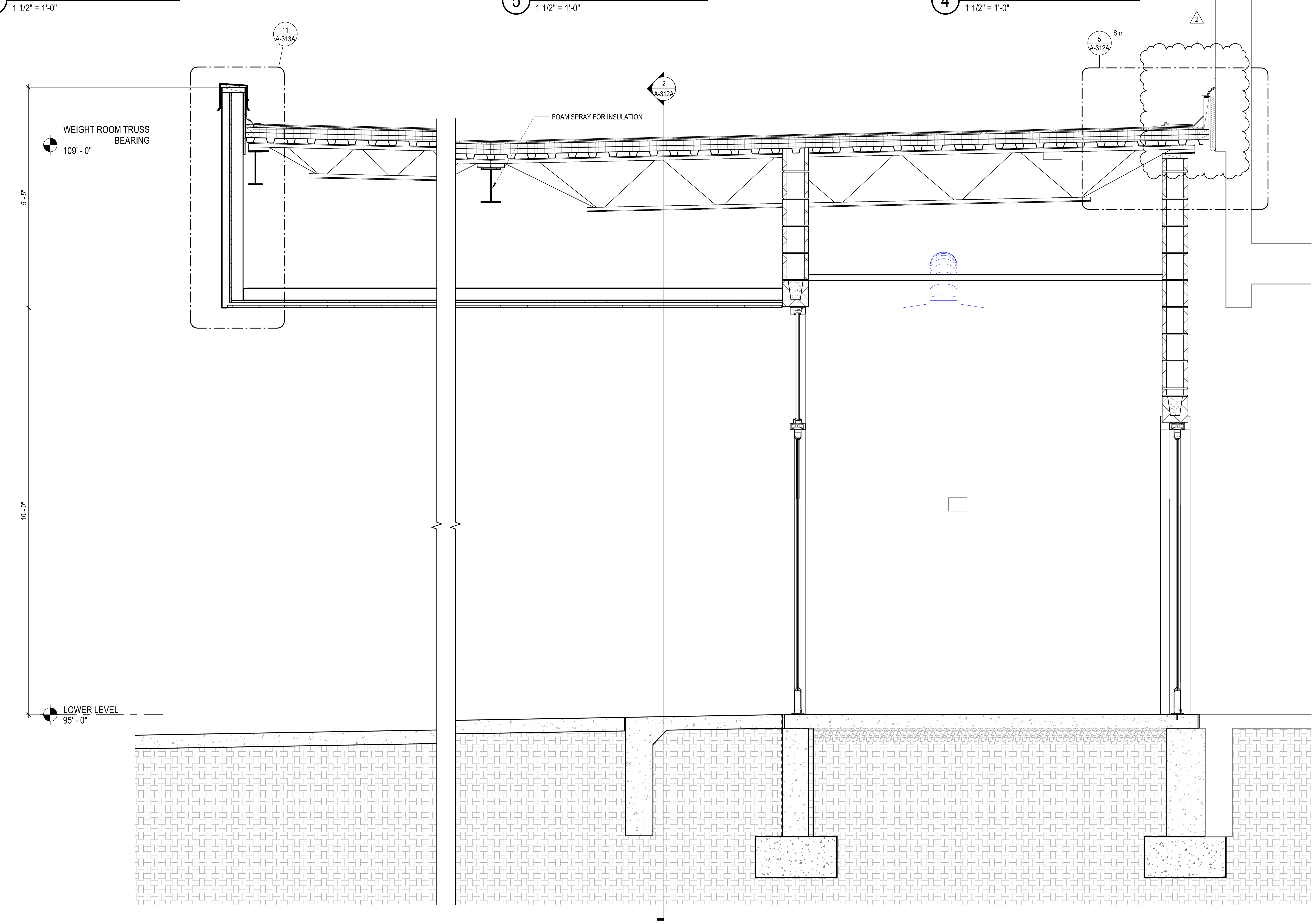
5 Enlarged Detail - Area A
1 1/2" = 1'-0"



4 Enlarged Detail - Area A
1 1/2" = 1'-0"



2 Wall Section - Area A
3/4" = 1'-0"



1 Wall Section - Area A
3/4" = 1'-0"

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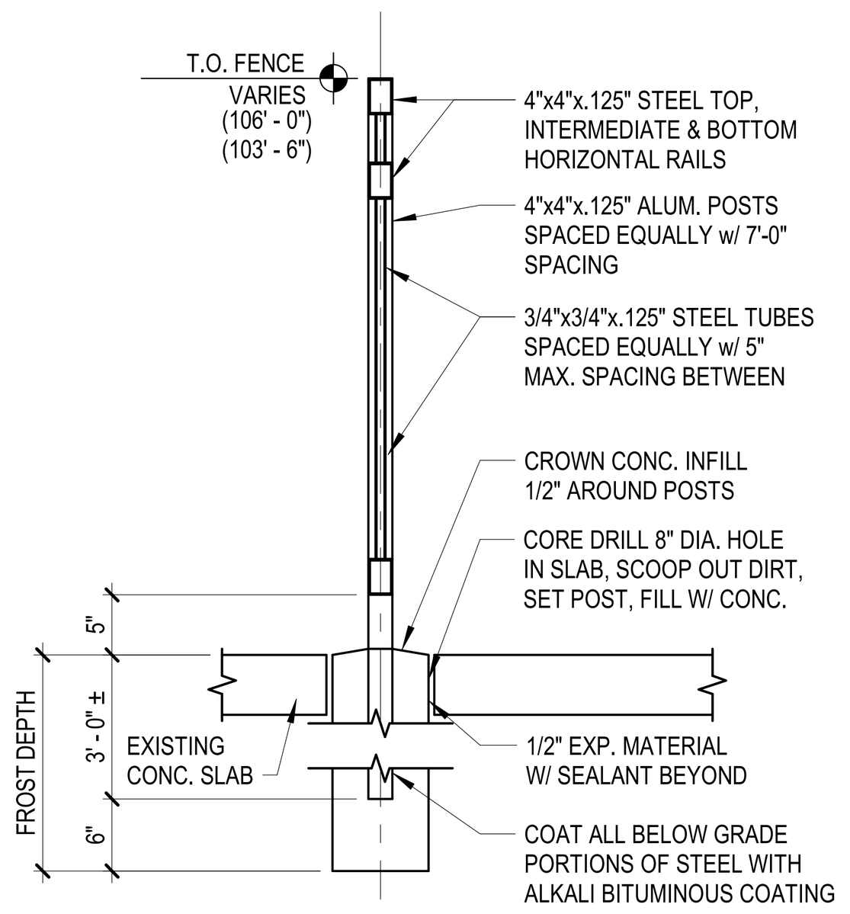
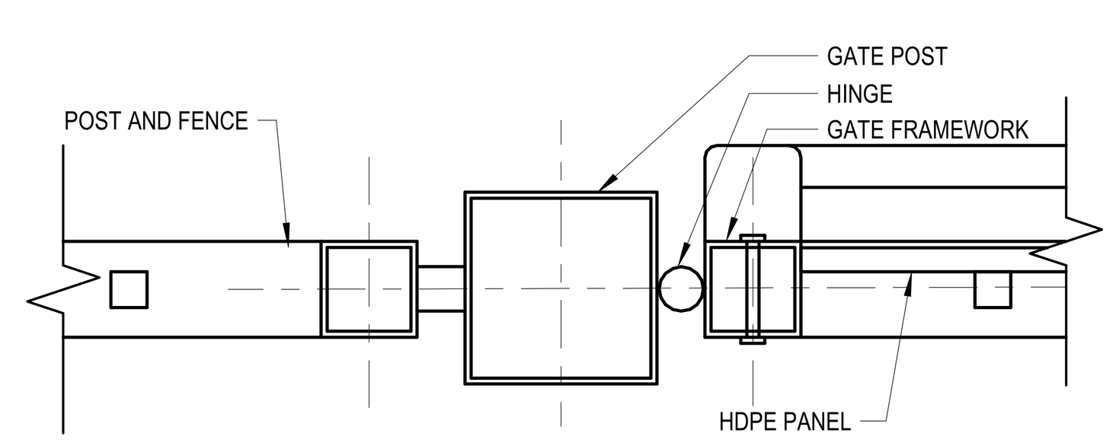
Wall Sections - Area A

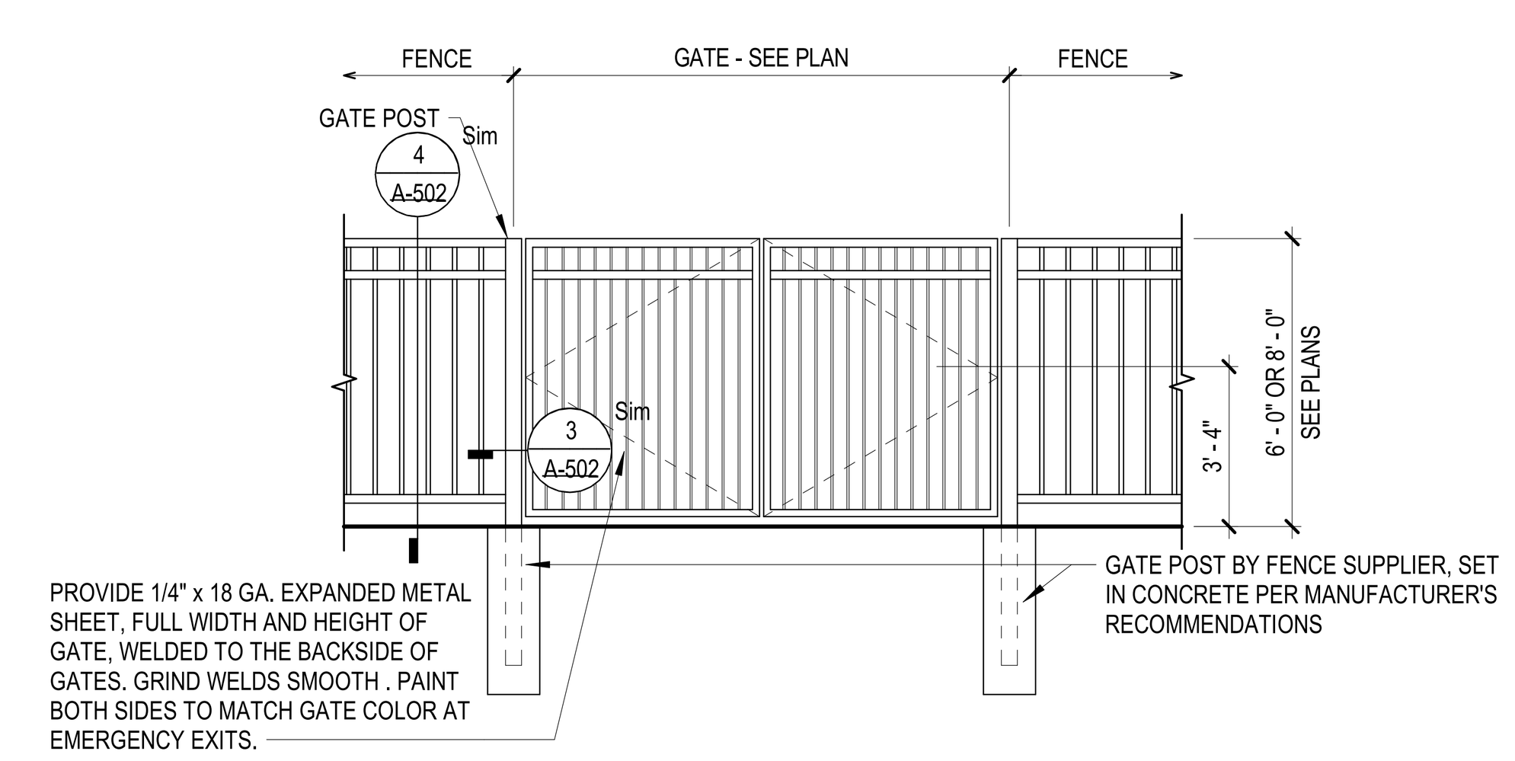
A-312A



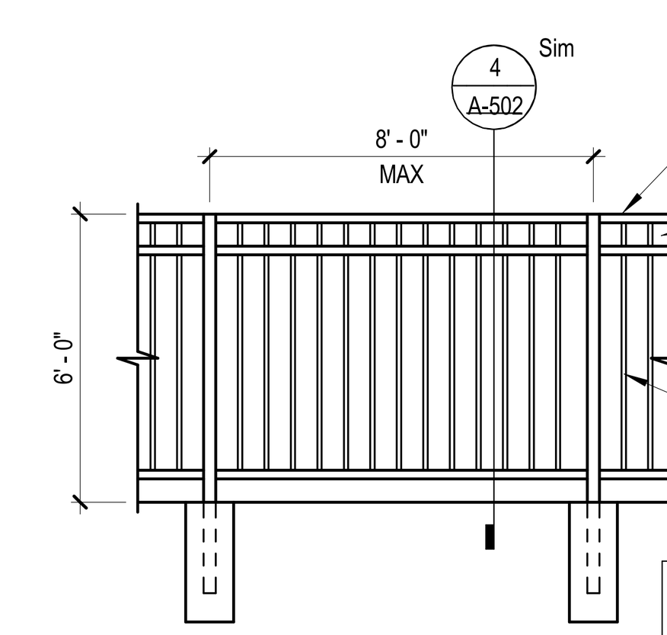
4 Decorative Fence Section
3/4" = 1'-0"



3 Decorative Fence Gate - Jamb Post
3" = 1'-0"



2 Decorative Fence Gate
1/4" = 1'-0"



FENCING MANUFACTURED STANDARD DECORATIVE FENCE PROFILES ARE ACCEPTABLE IF REASONABLY CLOSE TO THE SHOWN DIAGRAM

1 Decorative Fence Elevation
1/4" = 1'-0"

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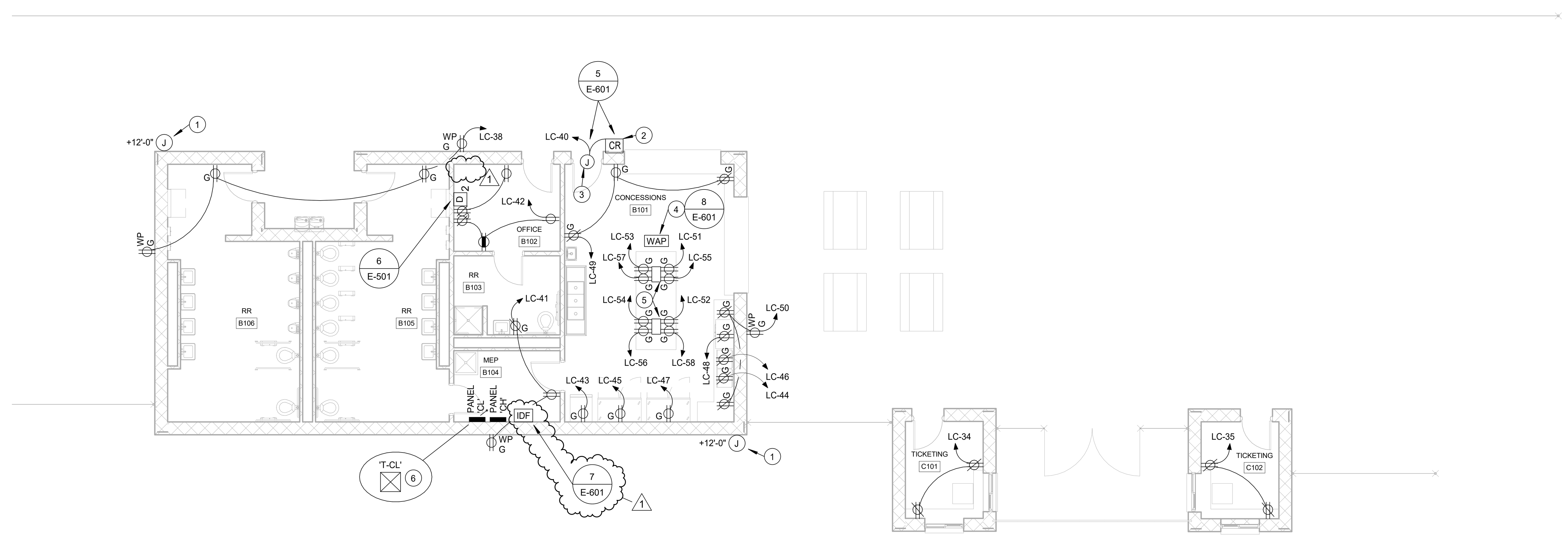
Architectural Details - Area B

2

A-502

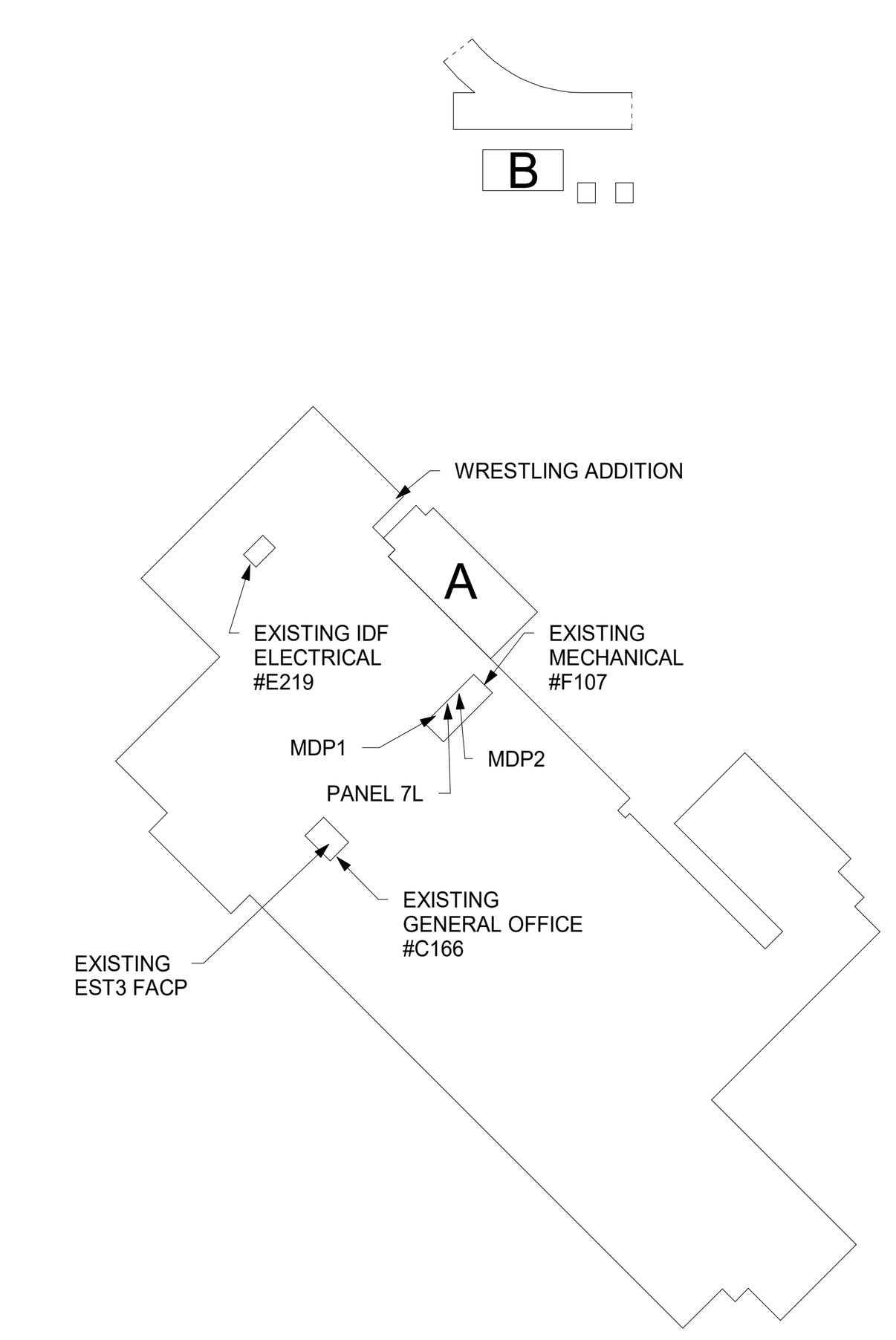
ELECTRICAL PLAN NOTES

1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL FLUSH MOUNTED SINGLE-GANG JUNCTION BOX WITH DATA CABLE ROUTED BACK TO IDF FOR OWNER PROVIDED AND INSTALLED CAMERA. COORDINATE ALL WORK WITH CONSTRUCTION MANAGER.
2. JUNCTION BOX FOR CARD READER, PROVIDED BY OTHERS. CONTRACTOR SHALL PROVIDE 3/4"C WITH PULL STRING ROUTED TO ACCESSIBLE CEILING SPACE. ALL ASSOCIATED DATA CABLING TO BE RUN BY ELECTRICAL CONTRACTOR TO EXISTING IDF LOCATED IN ROOM #E219. CONTRACTOR SHALL PROVIDE A LOOP OF +/- 20' BUNDLED ABOVE CEILING AT POINT OF FUTURE TERMINATION.
3. JUNCTION BOX MOUNTED ABOVE CEILING SPACE FOR DOOR HARDWARE TERMIANTIONS. CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES FOR A FULLY FUNCTIONAL SYSTEM.
4. JUNCTION BOX MOUNTED AT CEILING FOR WIRELESS ACCESS POINT (WAP) PROVIDED BY OTHERS.ALL ASSOCIATED DATA CABLING TO BE RUN BY ELECTRICAL CONTRACTOR TO EXISTING IDF LOCATED IN ROOM #E219. CONTRACTOR SHALL PROVIDE A LOOP OF +/- 20' BUNDLED ABOVE CEILING AT POINT OF FUTURE TERMINATION.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL WIREMOLD #MP4 SINGLE-SERVICE MULTIPLEX SERVICE FITTING WITH M-2GFI FACEPLATES, WITH (4)-GFCI DUPLEX RECEPTACLES. ROUTE UNDER SLAB TO ISLAND, THRU CABLETRAY AND NIPPLE THRU COUNTER AND FASTEN SECURE FITTING AS REQUIRED. COORDINATE ALL WORK WITH CONSTRUCTION MANAGER.
6. TRANSFORMER 'T-LC' SHALL BE CEILING HUNG. COORDINATE EXACT HEIGHT WITH ENGINEER PRIOR TO ROUGH-IN / INSTALLATION.



FIRST FLOOR ELECTRICAL POWER PLAN - FOOTBALL FIELD

2' 4' 8' 16' 32'
SCALE



PLAN NORTH

Keyplan

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SEAL

THOMAS P. OFFERLE
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WEST NOBLE CHARGERS

West Noble High School Renovation and Addition

5050 US-33,
Ligonier, IN, 46767

REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum #2	02-28-24

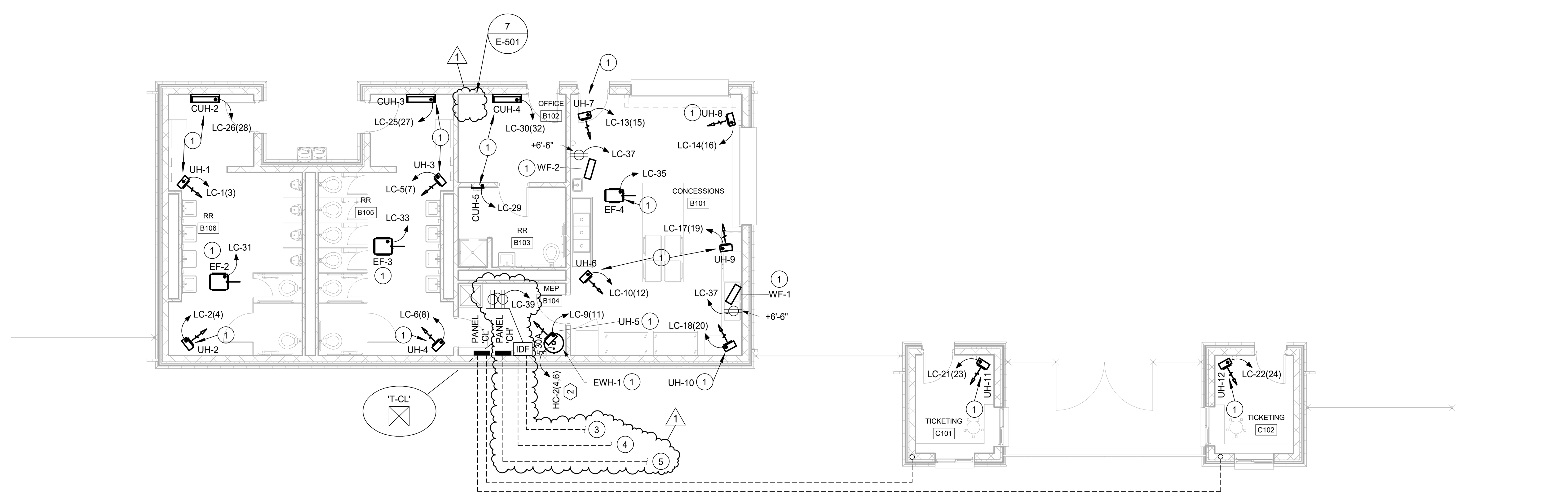
PROJECT NO. 2301108 (232707)
ISSUE DATE 02-12-2024
SUBMITTAL
100% Construction Documents

First Floor Electrical Power Plan Copy 1

E-101B

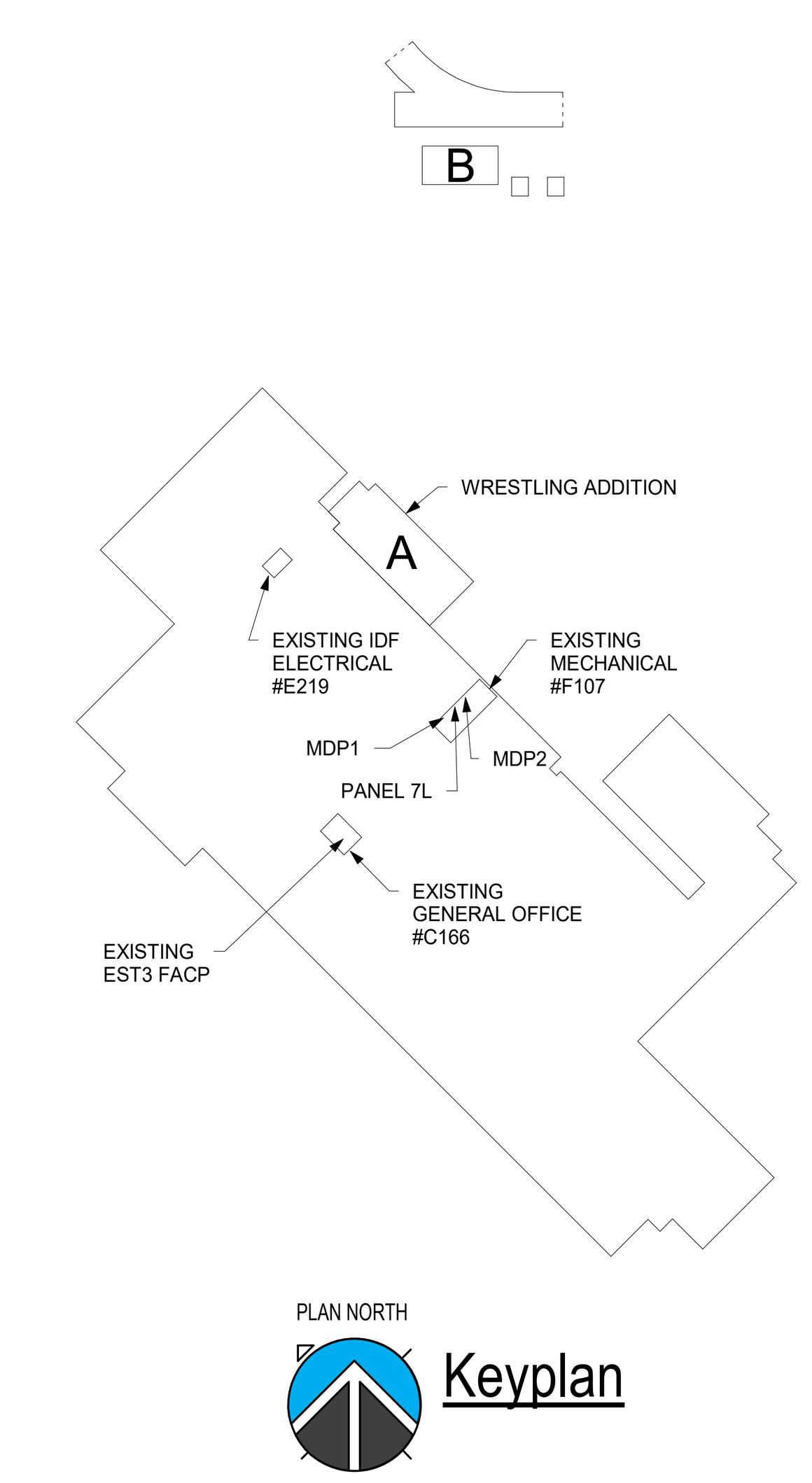
ELECTRICAL PLAN NOTES

1. EQUIPMENT IS PROVIDED AND INSTALLED BY ANOTHER CONTRACTOR. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND PLUMBING DRAWING SHEETS TO COORDINATE THE EXACT LOCATION OF EQUIPMENT WITH EQUIPMENT PROVIDER. ELECTRICAL CONTRACTOR SHALL TERMINATE EQUIPMENT AS REQUIRED. WHERE NO STARTERS, DISCONNECTS, OR SWITCHES ARE INDICATED, THEY WILL BE FACTORY MOUNTED AND LOAD-SIDE WIRED.
2. UNDERGROUND CONDUIT FOR BRANCH CIRCUITS AS REQUIRED.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (1)-4"C FROM ROOM #104 AND ROUTE UNDERGOUND AND TERMINATE TO EXISTING 4" FIBER CONDUIT AS SHOWN ON DRAWING CE-101.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (1)-2"C FROM ROOM #104 AND ROUTE UNDERGROUND AND TERMINATE TO EXISTING 2" FIBER CONDUIT AS SHOWN ON DRAWING CE-101.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL (1)-2-1/2"C TO EXISTING 2-1/2"C STUB FROM SERVICE DISCONNECT #1. PROVIDE, INSTALL, AND TERMINATE 4-#4/0, 1-#4G.



FIRST FLOOR ELECTRICAL SYSTEMS PLAN - FOOTBALL FIELD

2' 4' 8' 16' 32'
SCALE



Keyplan

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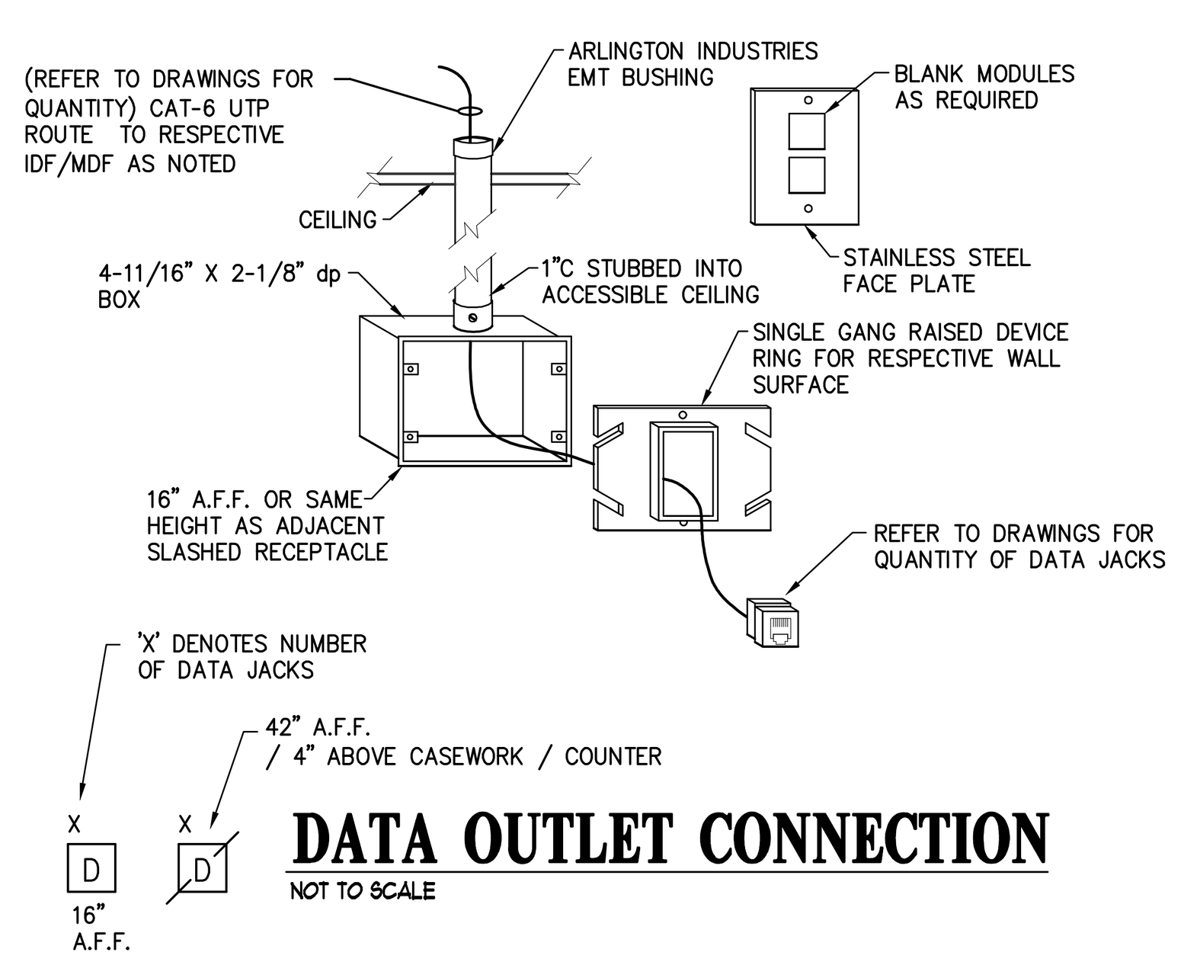
First Floor Electrical Systems Plan

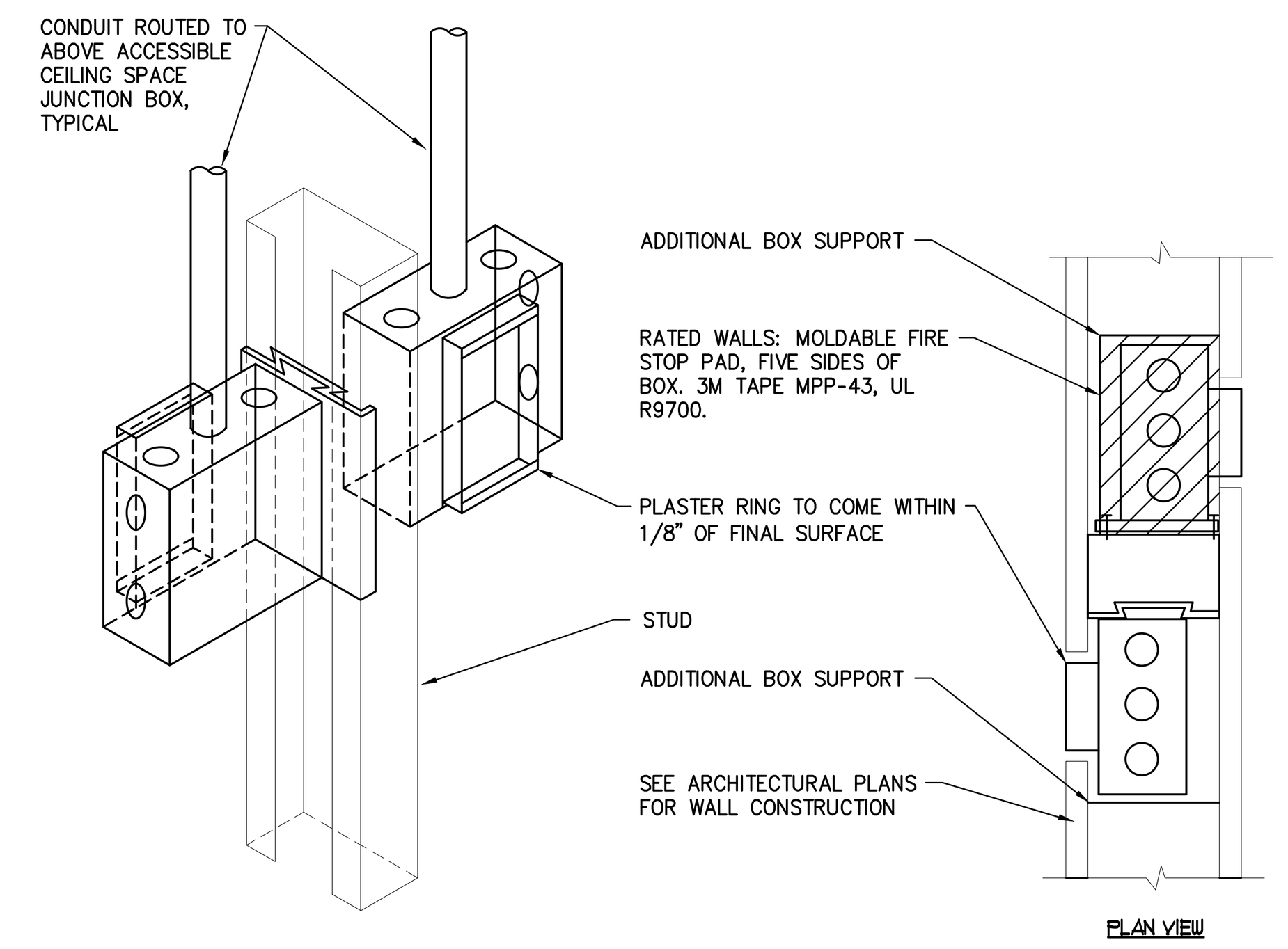
E-301B

NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL REQUIRED ACCESSORIES FOR A COMPLETE AND FUNCTIONAL SYSTEM.

NOTE: CABLING SHALL BE SUPPORTED FROM STRUCTURE ON J-HOOKS OR BRIDLE RINGS ON A MAXIMUM OF 5' CENTERS, ADD STRUCTURE AS REQUIRED.



6 DATA OUTLET CONNECTION
NOT TO SCALE

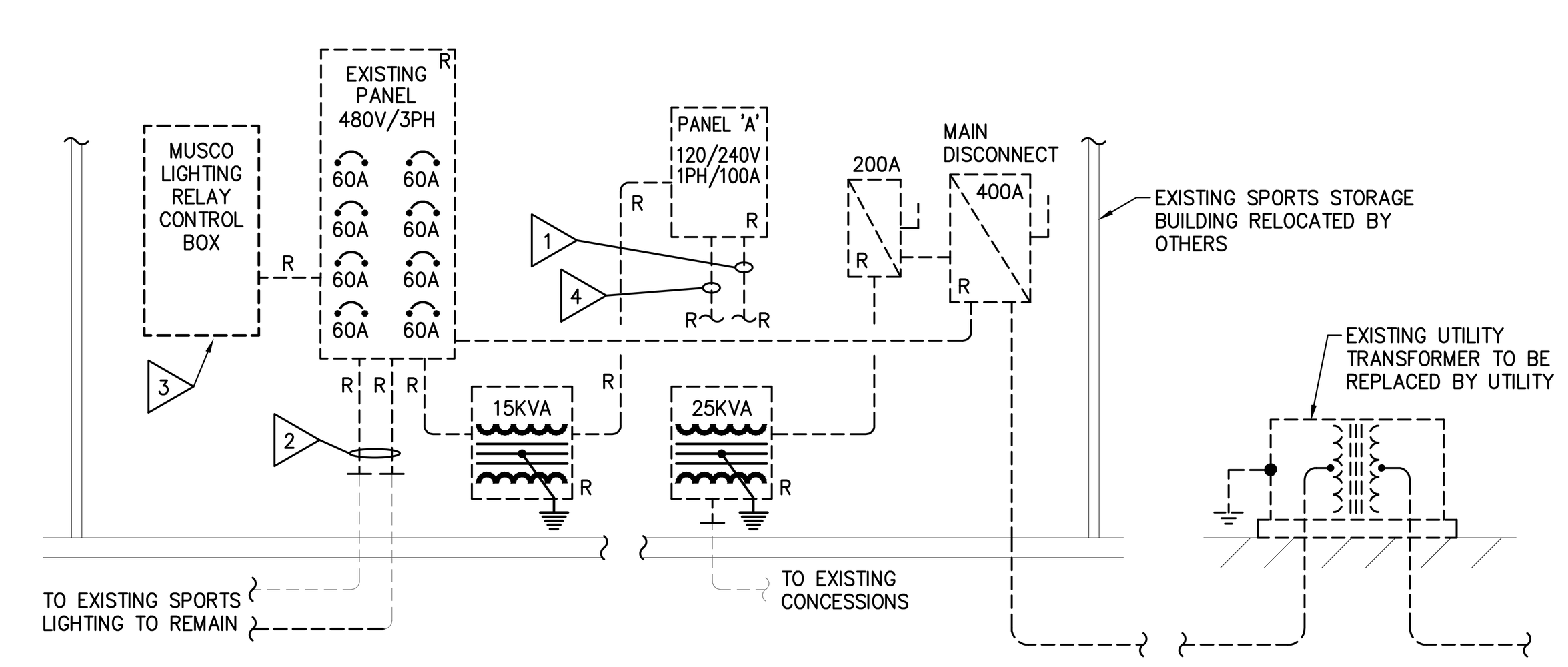


CONDUIT ROUTED HORIZONTALLY THRU WALL TO ADJACENT ELECTRICAL DEVICE IS PROHIBITED, EACH ELECTRICAL DEVICE SHALL BE SERVICED VERTICALLY ONLY.

11 SIDE BY SIDE DEVICE OPENINGS
NOT TO SCALE

STADIUM ELECTRICAL DEMOLITION RISER NOTES

1. EXISTING WEST PLAYCLOCK 1 1/2" CONDUITS SHALL REMAIN. ELECTRICAL CONTRACTOR SHALL EXTEND UNDERGROUND TO NEW PANEL 'LV1'.
2. EXISTING SPORTS LIGHTING CONDUCTORS SHALL REMAIN.
3. DISCONNECT MUSCO RELAY CABINET AND PREPAIR FOR RELOCATION.
4. EXISTING EAST PLAY CLOCK CONDUIT AND CONDUCTORS TO BE REMOVED.



1 EXISTING STADIUM RISER DIAGRAM
NOT TO SCALE

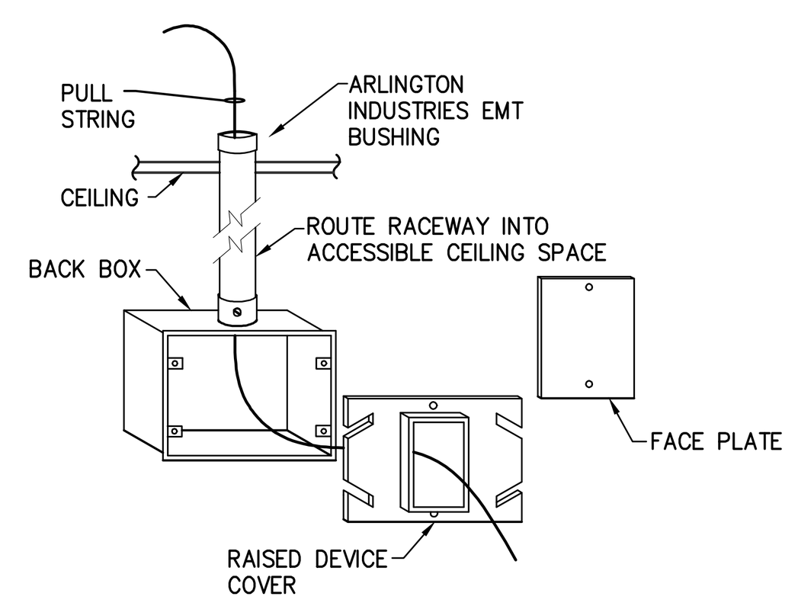
POWER CONDUIT AND CONDUCTORS SCHEDULE (CU)

NOTE NO.	CONDUIT, CONDUCTORS, GROUND	NOTE NO.	CONDUIT, CONDUCTORS, GROUND
1	3/4"C, 2-#10, 1-#10	28	3"C, 3-#350KcMil, 1-#4
2	3/4"C, 3-#10, 1-#10	29	3"C, 4-#350KcMil, 1-#4
3	3/4"C, 4-#10, 1-#10	30	4"C, 3-#500KcMil, 1-#3
4	3/4"C, 2-#8, 1-#10	31	4"C, 4-#500KcMil, 1-#3
5	3/4"C, 3-#8, 1-#10	32	4"C, 3-#600KcMil, 1-#3
6	1"C, 4-#8, 1-#10	33	4"C, 4-#600KcMil, 1-#3
7	1"C, 2-#6, 1-#8	34	2 SETS OF (2 1/2"C, 3-#4/0, 1-#2)
8	1"C, 3-#6, 1-#8	35	2 SETS OF (2 1/2"C, 4-#4/0, 1-#2)
9	1 1/4"C, 4-#6, 1-#8	36	2 SETS OF (3"C, 3-#250KcMil, 1-#2)
10	1 1/4"C, 3-#4, 1-#8	37	2 SETS OF (3"C, 4-#250KcMil, 1-#2)
11	1 1/4"C, 4-#4, 1-#8	38	2 SETS OF (3"C, 3-#350KcMil, 1-#1)
12	1 1/4"C, 3-#3, 1-#8	39	2 SETS OF (3"C, 4-#350KcMil, 1-#1)
13	1 1/4"C, 4-#3, 1-#8	40	2 SETS OF (4"C, 3-#500KcMil, 1-#1/0)
14	1 1/4"C, 3-#2, 1-#6	41	2 SETS OF (4"C, 4-#500KcMil, 1-#1/0)
15	1 1/2"C, 4-#2, 1-#6	42	2 SETS OF (4"C, 3-#600KcMil, 1-#1/0)
16	1 1/2"C, 3-#1, 1-#6	43	2 SETS OF (4"C, 4-#600KcMil, 1-#1/0)
17	2"C, 4-#1, 1-#6	44	3 SETS OF (4"C, 3-#350KcMil, 1-#2/0)
18	2"C, 3-#1/0, 1-#6	45	3 SETS OF (4"C, 4-#350KcMil, 1-#2/0)
19	2"C, 4-#1/0, 1-#6	46	3 SETS OF (4"C, 3-#600KcMil, 1-#3/0)
20	2"C, 3-#2/0, 1-#6	47	3 SETS OF (4"C, 4-#600KcMil, 1-#3/0)
21	2"C, 4-#2/0, 1-#6		[SERVICE ENTRANCE SETS]
22	2"C, 3-#3/0, 1-#6	48	2 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE]
23	2 1/2"C, 4-#3/0, 1-#6	49	3 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE]
24	2 1/2"C, 3-#4/0, 1-#4	50	4 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE]
25	2 1/2"C, 4-#4/0, 1-#4	51	5 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE]
26	2 1/2"C, 3-#250KcMil, 1-#4	52	6 SETS OF [4"C, 4-#600KcMil, W/(1) 4" SPARE]
27	3"C, 4-#250KcMil, 1-#4	53	7 SETS OF [4"C, 4-#750KcMil, W/(1) 4" SPARE]

REFER TO SPECIFICATIONS FOR CONDUIT TYPE REQUIREMENTS PER RESPECTIVE APPLICATION. ALL CONDUCTORS SHALL HAVE FACTORY APPLIED COLOR THE ENTIRE LENGTH OF THE INSULATION TO READILY IDENTIFY IT AS A SPECIFIC PHASE, NEUTRAL, OR EQUIPMENT GROUNDING CONDUCTOR AT ANY POINT ALONG IT'S ENTIRE LENGTH.

TRANSFORMER SCHEDULE

TAG	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE	TEMP RISE*	HOUSING	FED FROM	MOUNT
T-LC	75	480 3PH 3W	120/208 3PH 4W	115° C	NEMA 1	HC	CONCRETE PAD
T-PB	30	480 1PH 2W	120/240 1PH 3W	150° C	NEMA 3R	HV	CONCRETE PAD
T-LV	45	480 3PH 3W	120/208 3PH 4W	150° C	NEMA 3R	HV	CONCRETE PAD
T-LA	45	480 3PH 3W	120/208 3PH 4W	150° C	NEMA 1	MDP-1	CONCRETE PAD

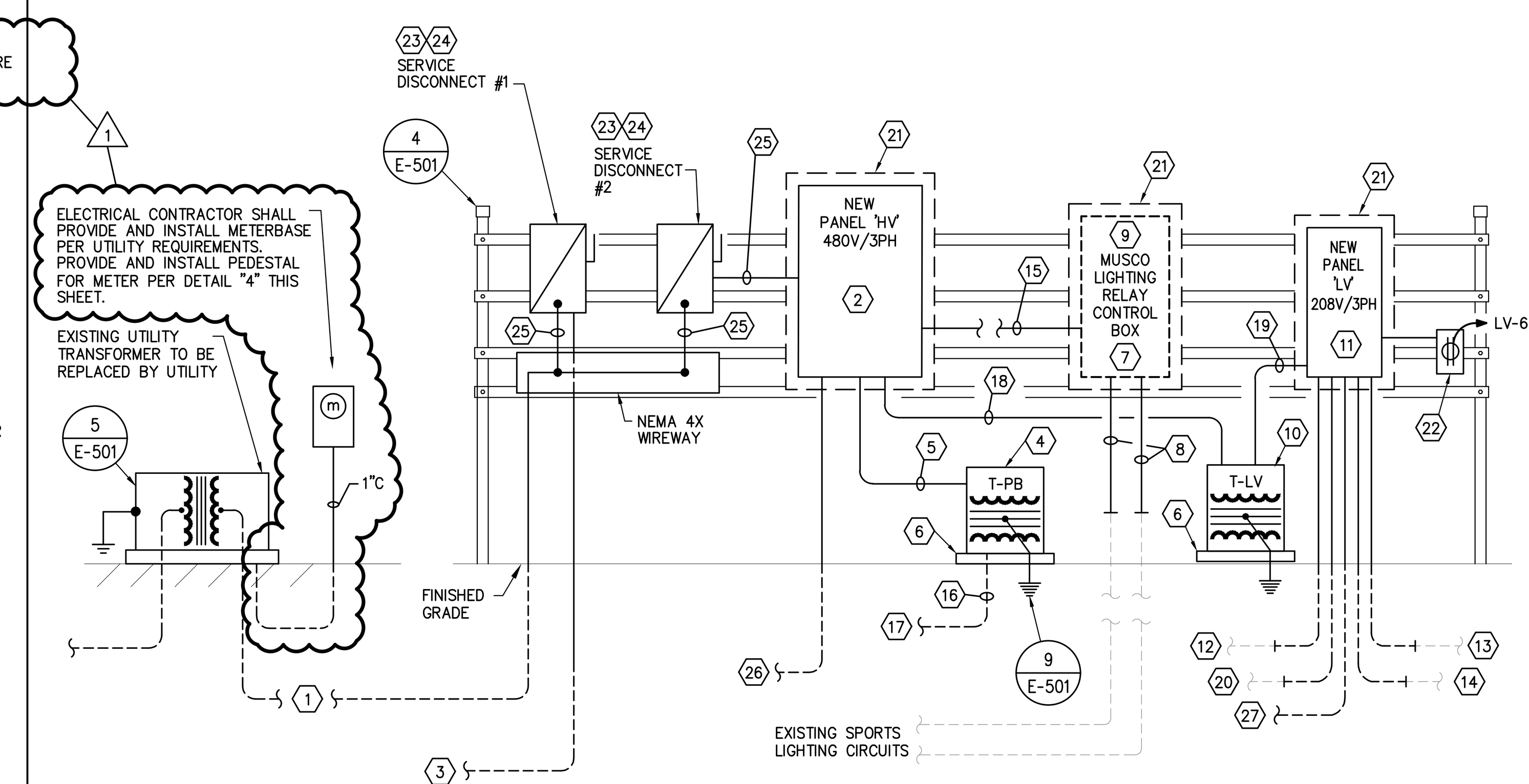


REFER TO JUNCTION BOX SCHEDULE FOR BOX SIZE, COVER CONFIGURATION, FACEPLACE REQUIREMENTS, MOUNTING HEIGHTS, AND RACEWAY SIZE

7 JUNCTION BOX DETAIL
NOT TO SCALE

STADIUM ELECTRICAL RISER NOTES

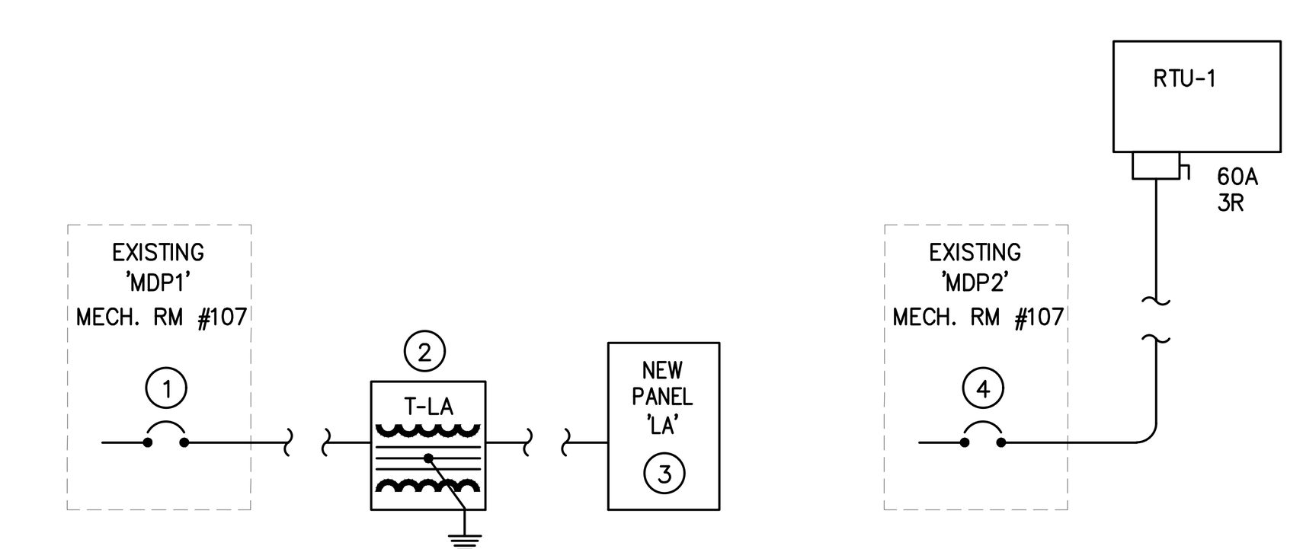
1. (2 SETS OF) 2 1/2"C, 4-#4/0 TERMINATED TO NEW PAD MOUNT TRANSFORMER. COORDINATE ALL WORK WITH CONSTRUCTION MANAGER AND UTILITY COMPANY (NOBLE REMC).
2. NEW 480V, 3 PHASE, 4 WIRE PANEL
3. ROUTE (1)-2 1/2"C FROM SERVICE DISCONNECT #1 TO BEYOND CONCRETE WALK, CAP, AND MARK FOR FUTURE EXTENSION BY OTHERS. COORDINATE EXACT LOCATION WITH CONSTRUCTION MANAGER PRIOR TO INSTALLATION. (FUTURE CONCESSION STAND FEEDER.)
4. NEW 25 KVA 480/240V, 1 PHASE, 3 WIRE TRANSFORMER
5. 1"C, 2-#6, 1-#10G
6. 6" CONCRETE PAD
7. EXISTING MUSCO RELAY CABINET RELOCATED.
8. EXTEND EXISTING 4" CONDUITS AND CONDUCTORS TO MUSCO RELAY CABINET TERMINATE FOR A COMPLETE AND FUNCTIONAL SYSTEM.
9. PROVIDE AND INSTALL A NEW MUSCO LOCKABLE HANDLE.
10. NEW 45 KVA 480/208V, 3 PHASE, 4 WIRE TRANSFORMER
11. NEW 225A, 208/120V, 3 PHASE, 4 WIRE PANEL BOARD
12. EXISTING NORTH CONCESSION STAND 2"C SHALL BE EXTENDED UNDERGROUND TO BOTH PANEL 'LV' AND LOAD CENTER IN CONCESSION STAND. PROVIDE, INSTALL, AND TERMINATE NEW CONDUCTORS (2-#3, 1-#6G) FOR A COMPLETE AND FUNCTIONAL SYSTEM.
13. EXISTING WEST SCOREBOARD 1 1/2"C SHALL BE EXTENDED UNDERGROUND TO NEW PANEL 'LV'. PROVIDE AND INSTALL NEW LOAD CENTER AT SCORE BOARD WITH 2-NEMA 3R DUPLEX RECEPTACLES AND TERMINATE EXISTING CIRCUITS TO NEW LOAD CENTER. PROVIDE, INSTALL, AND TERMINATE NEW CONDUCTORS (2-#3, 1-#6G) FOR A COMPLETE AND FUNCTIONAL SYSTEM.
14. EXISTING SOUTH CONCESSION STAND 2"C SHALL BE EXTENDED UNDERGROUND TO NEW PANEL 'LV'. PROVIDE, INSTALL, AND TERMINATE AT BOTH ENDS NEW CONDUCTORS (3-#1/0, 1-#6G) FOR A COMPLETE AND FUNCTIONAL SYSTEM.
15. REFER TO PANEL SCHEDULE 'HV' FOR MUSCO LIGHTING CIRCUITS. ALL CIRCUITS SHALL BE #10 AWG.
16. 1 1/2"C, 3-#1, 1-#6G
17. ROUTE UNDERGROUND TO STRUCTURAL BEAM AND ROUTE UP TO PRESS BOX PANEL (PROVIDED AND INSTALLED BY OTHERS). TERMINATE FOR A COMPLETE AND FUNCTIONAL SYSTEM.
18. 1 1/4"C, 3-#4, 1-#8G
19. 2 1/2"C, 4-#4/0, 1-#4G
20. PROVIDE A NEW LOAD CENTER AT EAST PLAY CLOCK WITH 1-NEMA 3R RECEPTACLE. PROVIDE AND INSTALL 1 1/2"C, 2-#3, 1-#6G, TERMINATED AT BOTH ENDS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
21. CONTRACTOR SHALL PROVIDE NEMA 4X LOCKABLE ENCLOSURE, SIZES TO MATCH MANUFACTUERS REQUIREMENTS.
22. NEW NEMA 3R DUPLEX RECEPTACLE.
23. SERVICE DISCONNECT #1 AND #2 SHALL BE NEMA 4X LOCKABLE SER RATED 400A FUSED AT 225A.
24. NEMA 4X HINGED LOCKABLE WIREWAY SIZED PER NEC
25. 2 1/2"C, 4-#4/0, 1-#6G
26. PROVIDE AND INSTALL (1)-2"C STUBBED BEYOND CONCRETE PAD AND CAP FOR FUTURE.
27. PROVIDE AND INSTALL (1)-2"C STUBBED BEYOND CONCRETE PAD AND CAP FOR FUTURE.



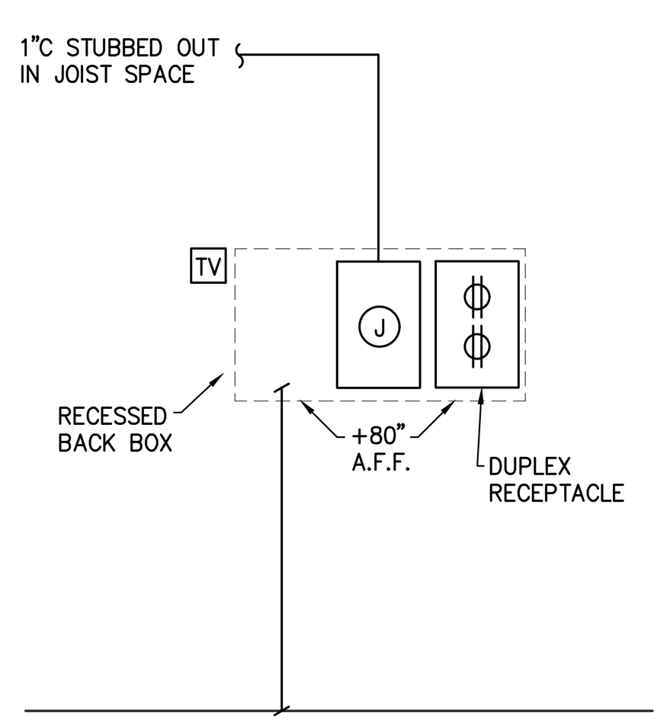
2 ELECTRICAL STADIUM RISER DIAGRAM
NOT TO SCALE

ELECTRICAL RISER NOTES

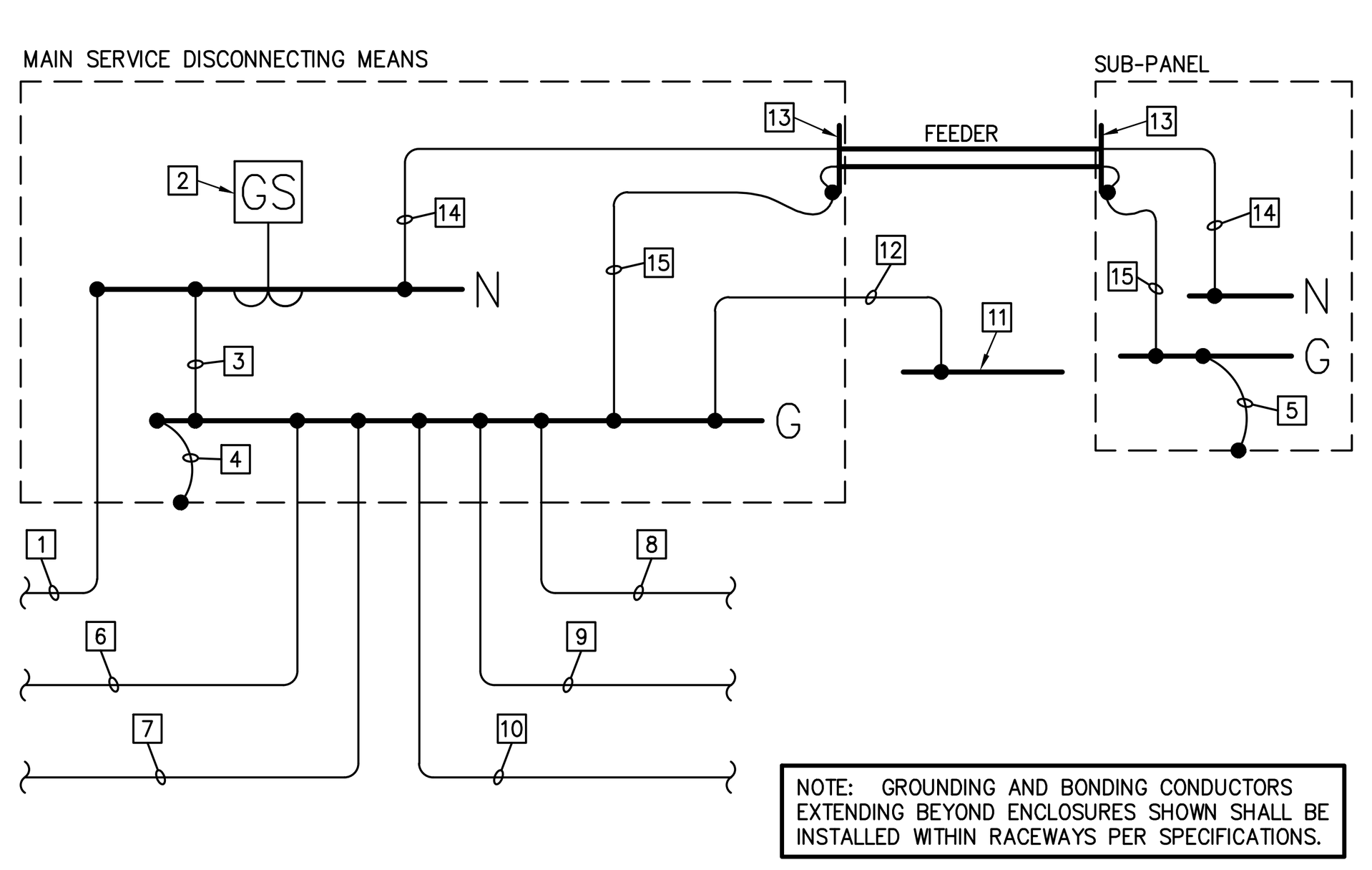
1. ELECTRICAL CONTRACTOR SHALL PROVIDE, INSTALL, AND TERMINATE A NEW 45A/3P CIRCUIT BREAKER INCLUDING ALL MOUNTING HARDWARE.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE, INSTALL, AND TERMINATE NEW TRANSFORMER T-LA.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE, INSTALL, AND TERMINATE NEW PANEL LA.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE, INSTALL, AND TERMINATE A NEW 50A/3P CIRCUIT BREAKER INCLUDING ALL MOUNTING HARDWARE.



3 ELECTRICAL WRESTLING RISER DIAGRAM
NOT TO SCALE



8 TV DETAIL
NOT TO SCALE



1. GROUNDED CONDUCTOR (NEUTRAL) EXTENDS TO UTILITY XFRMR BANK OR PAD MOUNT WITHIN SERVICE ENTRANCE FEEDERS.
2. GFCI SENSOR WHEN SHOWN OR SPECIFIED.
3. MAIN BONDING JUMPER AS PROVIDED BY MANUFACTURER OR SIZED PER TABLE 250.66.
4. MAIN BONDING SYSTEM JUMPER AS PROVIDED BY MANUFACTURER OR SIZED PER TABLE 250.66.
5. EQUIPMENT BONDING JUMPER AS PROVIDED BY MANUFACTURER ON SIZED PER TABLE 250.122.
6. #6 CU TO GROUNDING ELECTRODE TRIANGLE WITH ELECTRODES SPACED 11'-0" APART, EXOTHERMIC WELD REQUIRED.
7. #2/0 CU TO COUNTERPOISE LOOP WHEN SHOWN OR SPECIFIED.
8. BOND TO UNDERGROUND METALLIC PIPING SYSTEMS (DOMESTIC WATER, FIRE PROTECTION, NATURAL GAS) WITHIN 5'-0" OF ENTERING THE BUILDING. #6 CU MINIMUM UNLESS OTHERWISE NOTED. A JUMPER SHALL BE INSTALLED ACROSS ANY REMOVABLE ITEMS THAT WILL REQUIRE PERIODIC MAINTENANCE (METERS, FILTERS, BACK-FLOW PREVENTERS, ETC.).
9. BOND TO STRUCTURAL STEEL WHEN AVAILABLE, SIZED PER 250.66.
10. #4 CU, UNLESS NOTED OTHERWISE, TO FOUNDATION FOOTING RE-BAR, EXOTHERMIC WELD REQUIRED.
11. MASTER TEL/COM GROUND BAR AT SERVICE ENTRANCE WHEN SHOWN OR SPECIFIED.
12. #2/0 CU, UNLESS NOTED OTHERWISE.
13. THREADED BONDING BUSHING WITH INSULATED THROAT INSTALLED ON ALL FEEDERS.
14. GROUNDED CONDUCTOR (NEUTRAL) SIZED THE SAME AS PHASE CONDUCTORS OF EACH FEEDER. AS NOTED ON RISER DIAGRAM.
15. GROUNDING CONDUCTOR (EQUIPMENT GROUND) SIZED AS NOTED ON RISER DIAGRAM LOOPED THRU BOND LUG.

9 SERVICE ENTRANCE GROUNDING/BONDING DIAGRAM
NOT TO SCALE

CONTRACTOR TO PROVIDE AND INSTALL (2)-4" SCHEDULE 40 CONDUITS AND SWEEP ELBOWS WITH A 4' RADIUS. CONDUITS SHALL BE FLUSH WITH TOP OF CONCRETE.

PRIMARY CONDUITS SHALL EXTEND 5' FROM PAD AND ENDS STAKED ABOVE GROUND. A MINIMUM OF 4' OF COVER OVER PRIMARY CONDUITS IS REQUIRED.

ALL LABOR AND MATERIAL (SECONDARY CONDUITS, ELBOWS, CONNECTORS, CONDUCTORS, INSTALLATION AND LANDING OF CONDUCTORS AND 2" METERING CONDUITS ON SECONDARY SIDE) TO BE PROVIDED BY CONTRACTOR.

INSTALL 2" METERING CONDUIT FROM SECONDARY SIDE TO THE METER BASE. METERING CONDUIT TO BE SCHEDULE 80 PVC.

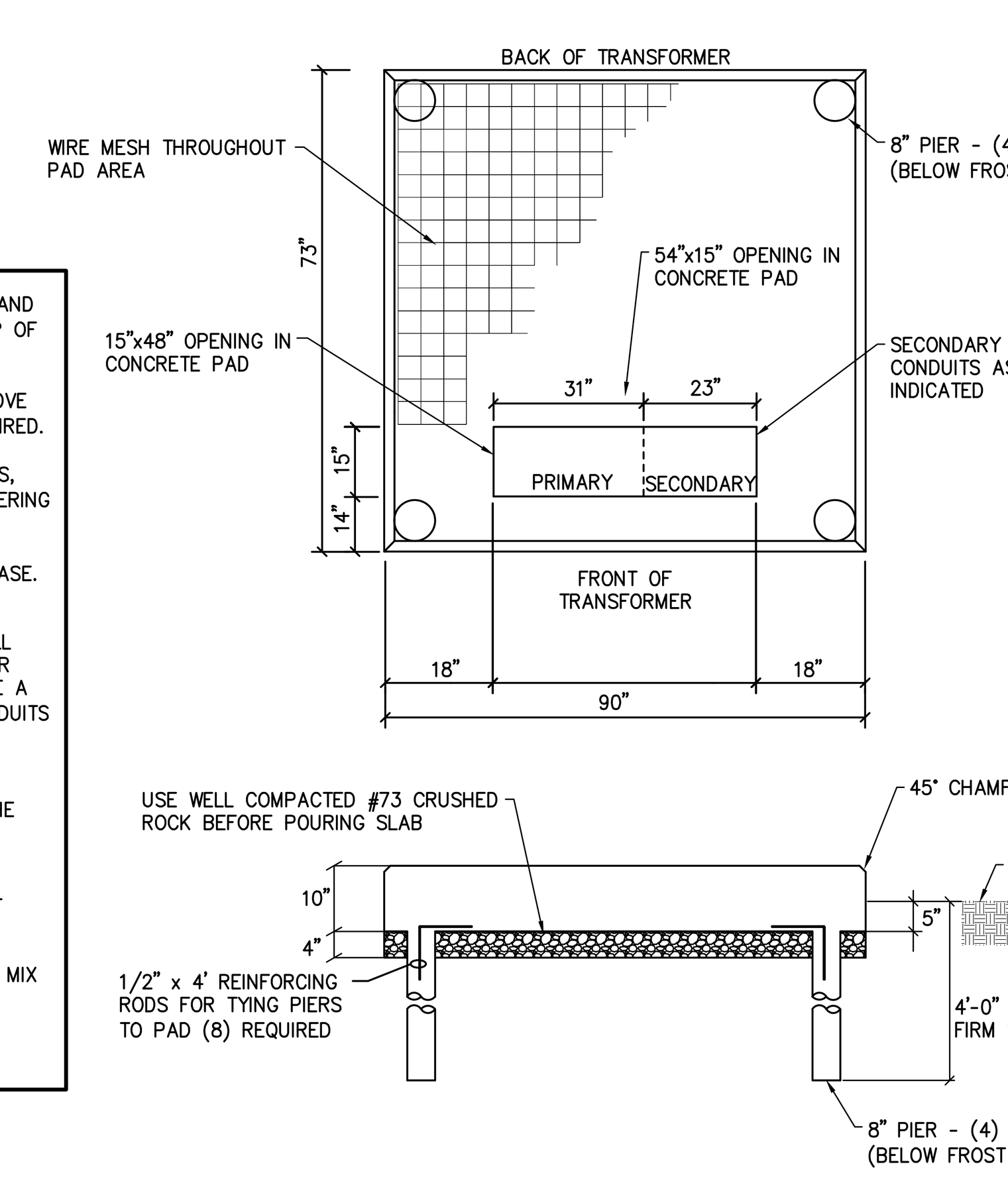
THE OPENING SHOWS A DASHED LINE WHICH REPRESENTS AN INNER WALL BETWEEN THE PRIMARY AND SECONDARY BUSHINGS IN THE TRANSFORMER CABINET. DO NOT INSTALL THE CONDUIT UNDER THIS INNER WALL. LEAVE A MINIMUM OF 2" BETWEEN THE CONDUITS AND THE INNER WALL. ALL CONDUITS SHALL BE CENTERED AND LOCATED NEAR THE FRONT OF THE REQUIRED OPENING (BOTH PRIMARY AND SECONDARY).

THERE SHALL BE A MINIMUM OF TEN (10) FEET OF CLEARANCE FROM THE FRONT OF THE TRANSFORMER TO ANY OBSTRUCTIONS. A FIVE (5) FEET MINIMUM CLEARANCE IS REQUIRED ON THE OTHER THREE SIDES.

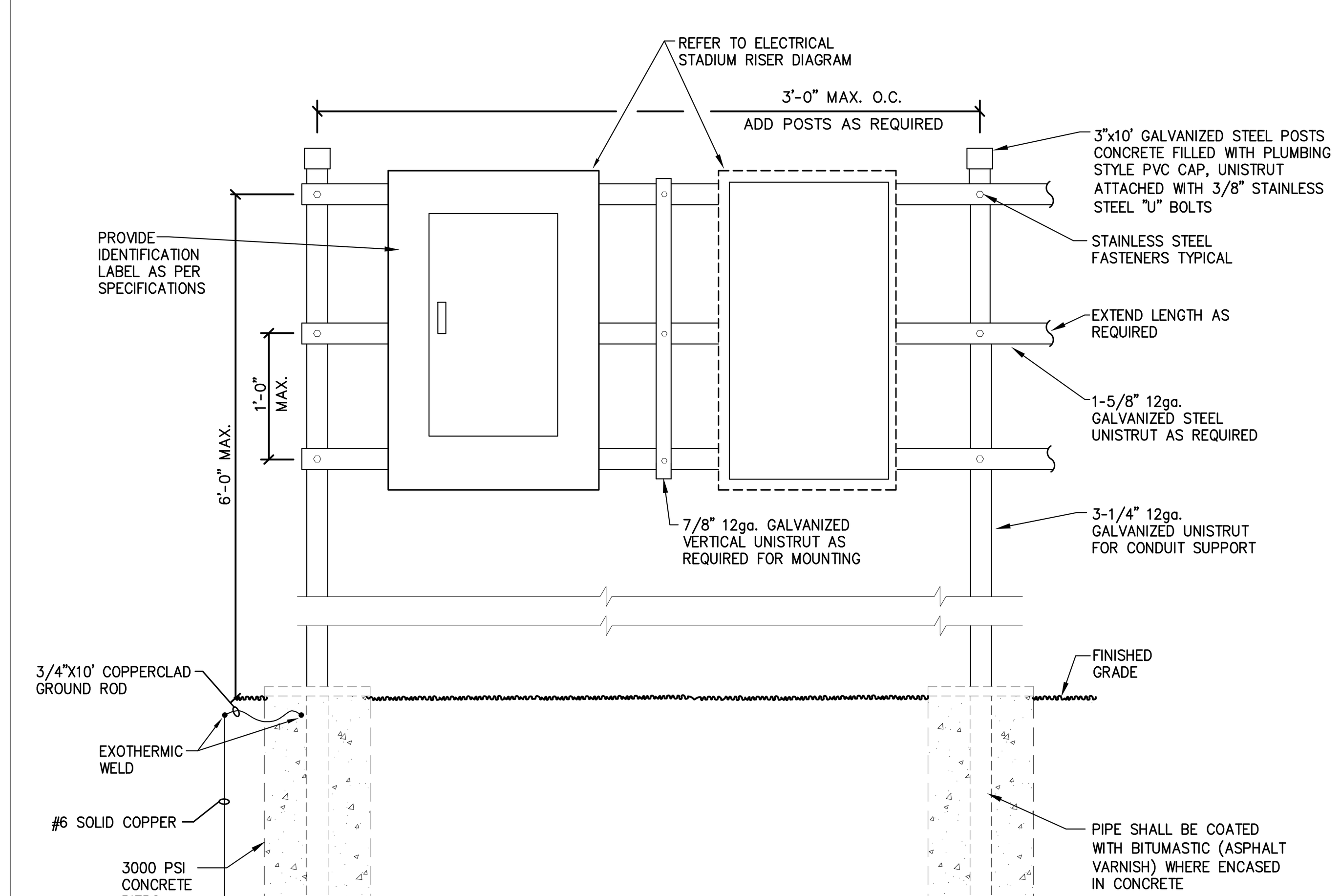
IF NEAR A TRAVELED AREA 4" STEEL POSTS ARE REQUIRED TO PROTECT TRANSFORMER. PLEASE CONTACT NOBLE REMC FOR LOCATION OF POSTS.

CONCRETE SLAB SHALL BE CONSTRUCTED WITH A MINIMUM OF 4000 PSI MIX AND REINFORCED WITH MESH THROUGHOUT.

NOBLE REMC PROVIDES AND INSTALLS THE PRIMARY GROUND ROD.



5 PAD MOUNT XFRMR
NOT TO SCALE



4 STADIUM PEDESTAL DETAIL
NOT TO SCALE

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Electrical Details and Diagrams

E-501