

**CONTRACT DOCUMENTS
&
TECHNICAL SPECIFICATIONS**

HU 2025-110

**WEC 1 BOTTOM ASH
BUNKER ENCLOSURE**

CITY OF HASTINGS

**Proposals Will Be Opened Promptly At
1:30 PM, Wednesday, October 1, 2025**

Bid Submitted By: _____



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**CONTRACT AND SPECIFICATIONS
FOR
WEC UNIT 1 BOTTOM ASH
BUNKER ENCLOSURE
FOR
CITY OF HASTINGS
HASTINGS, NEBRASKA
Contract No. HU 2025-110**

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ADVERTISEMENT FOR BIDS

The City of Hastings, Nebraska, will receive bids for the **WEC 1 Bottom Ash Bunker Enclosure, HU 2025-110** until 1:30 p.m. at the City of Hastings, 1228 N Denver Ave., Hastings, Nebraska, on Wednesday, October 1, 2025, at which time and place all bids will be publicly opened and read aloud. **Brief description of project: Supply and installation of materials to add an enclosure to the platform on the existing WEC Unit 1 bottom ash bunker in Hastings, Nebraska.** If you plan on bidding and are not already on our approved bidders list for this project, you are REQUIRED to fill out the [Plan Holders Submittal Form](https://www.cityofhastings.org/bids/) that is located on the City website: <https://www.cityofhastings.org/bids/>.

The Contract Documents, including plans and specifications, are on file at the City of Hastings 1228 N Denver Avenue, Hastings, Nebraska 68901. Copies of the plans and specifications in electronic (PDF) format may be obtained by visiting the City of Hastings Website: www.cityofhastings.org/bids. A paper copy is available for \$75.00, plus sales tax (\$5.25), plus shipping.

Each bid shall be accompanied by a certified check, drawn on a solvent bank in the State of Nebraska, or a bid bond in an amount of not less than five percent (5%) of the total bid of all contract construction costs, made payable to the City Treasurer of the City of Hastings, Nebraska, as security that the bidder to whom the contract may be awarded will enter into a contract to build all the improvements in accordance with this notice and give bond in the sum hereinafter provided for the construction of improvements.

No bid shall be withdrawn after opening of bids without the consent of the City of Hastings, Nebraska, for a period of sixty (60) days after scheduled time of closing bids.

Time is of the essence in this contract. In evaluating bid(s) received, the City will consider the timelines of completion of prior construction contracts, existing workload of bidders and available manpower that bidder commits to the project.

The successful bidder will be required to furnish a Performance Bond in the sum of the full amount of the Contract within ten (10) days of the date of award. No additional time will be allowed the Contractor for providing the Performance Bond.

DATED AT HASTINGS, NEBRASKA, this 3rd day of September, 2025.

CITY OF HASTINGS, NEBRASKA

Tyler Ficken, City Clerk

Publish:
September 5, 2025
September 12, 2025

Furnish 2 proofs of publication

INSTRUCTIONS TO BIDDERS

All proposal information, including any unit price fill in sheets or other required information, shall be submitted on the proposal forms hereto attached. Copies of addenda, if any, shall be signed and attached. City of Hastings does NOT accept faxed or emailed bid returns.

Bidders shall inform themselves of all relevant matters, and, if awarded the contract, shall not be allowed any extra compensation by reason of any matter or thing concerning which such Bidder might not have fully informed himself, prior to the bidding.

The Bidder bidding on the Specifications herein, who has exceptions to those called for in the Specifications, must so state in the space provided below and/or attach a letter explaining in detail the exceptions taken to those required in the Specifications. This letter of explanation shall become a part of the bid and shall be attached hereto. Failure by the Bidder to outline his exceptions will require the successful Bidder to comply with these Specifications.

EXCEPTIONS TO SPECIFICATIONS:

The City will not assume obligations resulting from losses or damages until acceptance of the equipment.

If any person contemplating submitting a bid for this contract is in doubt as to the true meaning of any part of the Specifications or other proposed contract documents, he may submit to Purchaser a written request for an interpretation thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the proposed documents will be made only by addendum duly issued or delivered to each person receiving a set of such documents. The Purchaser will not be responsible for any other explanation or interpretation of the proposed documents.

All addendums must be signed and attached to bid documents.

IF YOU HAVE QUESTIONS OR NEED HELP ON THESE SPECIFICATIONS

PLEASE CONTACT ANY OF THE FOLLOWING:

TECHNICAL QUESTIONS

Brandon Miller – Mechanical Engineer
1228 N Denver Ave
Hastings, NE 68901
Ph# 402-462-3653
Email: bidquestions@cityofhastings.org

GENERAL QUESTIONS OR REQUESTS

Rena Griess
Engineering Admin Assistant
Ph# 402-462-3665
Email: bidquestions@cityofhastings.org

IMPORTANT SUBMITTAL INSTRUCTIONS

ON HOW TO SUBMIT YOUR BID

FOR

CITY OF HASTINGS

WEC UNIT 1 BOTTOM ASH

BUNKER ENCLOSURE

Contract No. HU 2025-110

Your bid **MUST** be returned by means of hand delivery, USPS, Fed-X, UPS, or other carrier. City of Hastings **DOES NOT ACCEPT** bids that are faxed or emailed.

ALL the following documents are **TO BE SUBMITTED** in your bid packet.

- 1. Cover sheet with your company's name filled in**
- 2. ALL addendums received – must be acknowledged and signed**
- 3. Bid Bond**
- 4. If Exceptions, Instructions to Bidders with any exceptions listed**
- 5. Proposal Page(s)**

FAILURE TO RETURN REQUIRED BID DOCUMENTS

COULD SUBJECT YOUR BID PROPOSAL TO BE REJECTED

IMPORTANT MAILING (OR HAND DELIVERY) INSTRUCTIONS

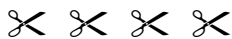
Please address your return envelope as shown in the example below. All bids must be sealed in a properly marked envelope.

To hand deliver, please drop off between the hours of 8am – noon and 1-5pm Monday through Friday.

Your Return Address

City of Hastings
Attn: Renae Griess
1228 N Denver Avenue
Hastings, NE 68901

**This Information MUST BE typed or written in the lower left hand corner of return envelope
OR SIMPLY CUT OUT AND TAPE ON YOUR RETURN ENVELOPE**



BID DOCUMENTS ENCLOSED

ATTN: Renae Griess

Contract No: Bottom Ash Bunker Enclosure HU 2025-110

Bid Opens: Wednesday, October 1, 2025 @ 1:30 PM

If returning Fed-X or similar carrier, please enclose the bid in an “inner” envelope which is sealed. Please make sure BOTH envelopes are properly marked on the OUTSIDE OF THE ENVELOPE as shown in the example above.

One bid per envelope. Bid submittal via email is not allowed. Bids must be checked in to the City of Hastings prior to 1:30 pm deadline.

**Proposal for WEC Unit 1
Bottom Ash Bunker Enclosure
Contract No. HU 2025-110**

TO: City of Hastings
1228 N. Denver Ave
Hastings, NE 68901

Bid Opening: October 1, 2025 (Wednesday)
SEALED BIDS MUST BE RECEIVED BY 1:30 P.M.
AND WILL BE OPENED PROMPTLY AT THAT
TIME

We, the undersigned, being familiar with all parts of these documents, being Notice to Bidders, Bid Proposal Price Sheets, Contract Document Forms, Plans and Specifications, Affidavit, Material List, and all other parts of this document, do herein submit our proposal to furnish, install, and perform all tasks required to complete said project area(s) for the total costs.

The labor portion is not subject to sales tax; however, the material portion is taxed accordingly. The project is outside of city limits and is subject to **5.5% sales tax**. See following tax rules and regulation language.

BID SECTION I: Bottom Ash Bunker Enclosure

Item#	Description	Unit Price	Total
1	Mobilization	<u>LUMP SUM</u>	<u>\$</u>
2	Labor for a complete bunker enclosure installation per the specifications and drawings including: all demolition, relocations, foundations, structural steel, grating, flooring, roofing, door, hatch, painting, and all other hardware and accessories	<u>LUMP SUM</u>	<u>\$</u>
3	Supply of all materials for a complete bunker enclosure per the specifications and drawings including: all structural steel, insulated metal panels, walk-in door, roof hatch, steel connections, foundation, grating, paint and all hardware and accessories	<u>LUMP SUM</u>	<u>\$</u>
4	Sales Tax	*(For Option 1 Contractors only) Sales Tax on materials of the above items	<u>\$</u>
TOTAL SECTION I			
			<u>\$</u>
In Words			

Project Completion Date: December 12, 2025

Note: Material and Labor for consumables, hardware, equipment base grouting, touch-up painting, and all other labor and materials not explicitly called out in proposal but needed for a complete bunker enclosure per the project drawings shall be subsidiary to line items listed in proposal.

**Proposal for WEC Unit 1
Bottom Ash Bunker Enclosure
Contract No. HU 2025-110**

Note: Unit prices shall prevail in the case of potential mathematical discrepancies.

The labor portion is not subject to sales tax; however, the material portion is taxed accordingly. See following tax rules and regulation language.

For purposes of sales/use tax, this project falls under Nebraska Sales and Use Tax Regulation 1-017 for Contractors. By definition, a contractor is "any person who repairs property annexed to, or who annexes property to, real estate, including leased property, by attaching building materials to the annexed property or improvement being built or repaired, or who arranges for annexation of property." Please refer to www.revenue.nebraska.gov/salestax.html for additional information.

For calculating this proposal:

- All contractors are to include sales/use tax on materials in the bidder's prices, if applicable.
- **Option 1 contractors must separately state materials, sales tax, labor, and other charges on all invoices for the project. Any invoices submitted that do not include this required breakdown of the charges will not be accepted for payment. (This requirement does not apply to Option 2 or 3 contractors.)**
- The sales/use tax rate on building materials is 7.0% for projects within Hastings' city limits and 5.5% for projects outside of city limits.
- Contractor labor charges for this proposal are not subject to sales/use tax per the Nebraska Department of Revenue Notice to Contractors effective October 1, 2007.
- In submitting this bid, the bidder certifies that he will comply with all applicable laws, ordinances, and codes of the City of Hastings and the State of Nebraska.
- For this project, Contractor will supply all materials.

What contractor option have you registered with the Nebraska Department of Labor (must select one)?

Please refer to <https://dol.nebraska.gov> for additional information.

Option 1 _____

Option 2 _____

Option 3 _____

Is Nebraska Sales/Use Tax included in the above prices.

Yes _____ No _____

(ALL COSTS TO INCLUDE CITY AND STATE SALES TAX)

The undersigned bidder agrees to furnish the required performance bond and to enter into a contract within ten (10) days after acceptance of the Proposal and further agrees to complete all work covered by the foregoing Proposal in accordance with specified requirements.

Exceptions: No ☐ Yes ☐ (If yes, list on ***"Instructions to Bidders"*** page)

**Proposal for WEC Unit 1
Bottom Ash Bunker Enclosure
Contract No. HU 2025-110**

Any modification of bid proposal will be considered non-conformance of the bid. All exceptions to the proposal shall be noted as an exception to the bid.

City of Hastings may at its own discretion delete any project area and / or component prior to award of contract. City of Hastings will award all bid sections to one contractor.

In submitting this proposal, it is further understood that the City of Hastings reserves the right to reject any or all proposals and may waive any informalities and may accept the proposal which best suits its needs. It is further understood that this proposal may not be withdrawn for a period of sixty days (60) days after bids are opened.

All bid documents, including proposals, bid bonds, subcontractor designation, etc., must be submitted with original signatures. No copies will be accepted.

OFFICIAL NAME & ADDRESS

_____ Firm Name	_____ Signature
_____ Address	_____ Typed or Printed Name
_____ City, State, Zip	_____ Title
_____ Phone No.	_____ Date
_____ Fax No.	_____ Email Address

ALL BIDS MUST BE CHECKED IN TO THE CITY OF HASTINGS
PRIOR TO 1:30 PM DEADLINE

AGREEMENT

THIS AGREEMENT, made and entered into this ___ day of _____, 2025, by and between the City of Hastings, Party of the First Part, hereinafter called the "Purchaser" or "City", and _____ of (town) _____ in the State of _____, Party of the Second Part, hereinafter called the "Contractor".

WITNESSETH: THAT,

WHEREAS: The Purchaser has caused the necessary contract documents to be prepared for defining material, equipment, and/or labor to be supplied to the City of Hastings and delivered complete as specified in the accompanying contract documents.

WHEREAS: The Purchaser has advertised for bids from Contractors, has received said bids, analyzed same and duly awarded a contract to the "Contractor", "Party of the Second Part", for material, equipment, and/or labor as hereinafter set forth and as stated more in detail in the Proposal and related contract documents to wit; Notice to Bidders, Instructions to Bidders, Specifications; all of which documents are attached hereto and made a part of this Contract.

NOW, THEREFORE: It is hereby agreed that for the sum of _____.
(\$ _____)

to be paid by the Purchaser, within Thirty (30) days after the acceptance of material, equipment, and/or labor by the Purchaser, to the Contractor, the Contractor agrees to furnish all materials, equipment, and/or labor as required by the accompanying specifications, and the aforesaid contract documents, for **HU 2025-110 WEC1 Bottom Ash Bunker Enclosure.**

All materials, equipment, and/or labor shall be in accordance with the accompanying contract documents and specifications which are as much a part of this Agreement as if repeated verbatim herein.

It is further agreed that the Contractor will start work promptly, furnish the necessary drawings promptly and complete the work in the number of days set forth in the Proposal.

IN WITNESS WHEREOF: The Parties of the First and Second Parts have hereto set their hands and seals on the day and year above written.

CITY OF HASTINGS
Party of the First Part

By: _____

Date: _____

ATTEST:

City Clerk

SEAL

CONTRACTOR
Party of the Second Part

By: _____

Title: _____

Date: _____

APPROVED TO FORM:

City Attorney

Note: If executed by one other than President, Partner or the individual Owner, a Power-of-Attorney authorizing execution should accompany this Contract.

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, the undersigned, _____,
as principal, and _____,
a corporation organized and existing under the laws of the State of _____,
and duly authorized to transact business in the State of Nebraska, as surety are held and firmly
bound unto the CITY OF HASTINGS, NEBRASKA, a municipal corporation organized and
existing under the laws of the State of Nebraska, hereinafter referred to as CITY, in the penal sum
of _____ Dollars (\$_____),
lawful money of the United States, for the payment of which will and truly be made, we the said
principal and the said surety do hereby bind ourselves, our heirs, executors, administrators and
assigns, jointly and severally, by these presents as follows:

The condition of this obligation is such that, whereas the principal, by an instrument in writing
attached hereto and bearing the date of _____, 20____, has agreed with the
CITY to do all work necessary and to furnish all labor, materials, supplies, tools and equipment to

as specified thereby and in the specifications, proposals and contract forming the Contract
Documents attached thereto and made a part hereof:

NOW THEREFORE, if the principal shall well and truly in good, sufficient and in a
workmanlike manner, and to the satisfaction of the CITY perform and complete the work required,
and shall defend, indemnify and save harmless the CITY against all damages, claims, demands,
expenses and charges of every kind (including claims of patent infringement) arising from any act,
omission or neglect of said principal, his agents, servants or employees, with relation to said work,
and shall pay all costs, charges, rentals and expenses for labor, materials, supplies and equipment
and deliver the said improvement to the CITY completed and ready for operation and free from all
encumbrances or claims for labor, materials or otherwise, and shall pay all other expenses lawfully
chargeable to the CITY, and this bond shall also be for the use and benefit of all persons who may
perform any work or labor or furnish any material in the execution of said Contract and may be

sued on thereby in the name of any such party claiming the benefit hereof, then this obligation shall be void, otherwise the same shall remain in full force and effect. This obligation shall be in full force and effect for the full guarantee period provided in the specifications contained herein.

PROVIDED FURTHER, that said surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any change, extension of time, alteration or addition to terms of the Contract, to the work or to the specifications.

PROVIDED FURTHER, that if the principal of his, their or its subcontractor or subcontractors fail to duly pay for any labor, materials team, hire sustenance, provisions, provender or any other supplies or materials used or consumed by such contractor of his, their or its subcontractors in performance of the work contracted to be done, the surety will pay the same in any amount not exceeding the sum specified in the bond together with interest as provided by law.

IT WITNESS WHEREOF, said principal and surety have hereunto set their hands and seals at _____ this _____ day of _____, 20____,

This Bond is executed in triplicate counterparts.

	_____	Principal
(SEAL)	_____	Street Address
_____	_____	City, State, Zip
Witness	_____	Name of Person Executing
	_____	Surety
ATTEST:	By: _____	
_____	Title: _____	

INSURANCE COVERAGE

The undersigned hereby certifies that Workmen's Compensation, Public Liability and Property Damage, and Automobile Liability and Property Damage Insurance is in force and effect in accordance with the requirements contained in "Instruction To Bidders" which is a part of this document "Bid Proposal And Specifications". We further agree to give ten (10) days notice to the Public Power Generation Agency before effective date of cancellation or reduction of any of the above coverage.

This Insurance Coverage applies only to _____

Dated _____

SUPPLIER

By _____

Title _____

Date _____

INSURANCE COMPANY

By _____

Title _____

Address _____

Date _____

AFFIDAVIT

[illegible]

I _____, _____
Name Title

of _____
Firm Name

do hereby certify that all subcontractors, vendors, persons or firms who have furnished labor or material for the _____

have been fully paid and that all taxes have been paid.

Signature

Date

Subscribed and sworn to me this _____ day of _____, 20_____

Notary Public

My commission expires _____.

A signed and notarized copy of affidavit must be in City of Hastings file before final payment may be made.

Copy of forms will be supplied by City of Hastings prior to final payment.

SECTION 1 - GENERAL CONDITIONS

GENERAL CONDITIONS

GC.1 Contract Documents

It is understood and agreed that the Notice to Bidders, Instructions to Bidders, Proposal, Proposal Data, Contract Agreement, Performance Bond, Payment Bond, General Conditions, Special Conditions, Specifications, Drawings, Addenda, and Change Orders issued by the Purchaser or the Engineer, and specifications and engineering data furnished by the Contractor and accepted by the Purchaser, are each included in this Contract and the work shall be done in accordance therewith.

GC.2 Definitions

Words, phrases, or other expressions used in these contract documents shall have meanings as follows.

1. "Contract" or "contract documents" shall include the items enumerated above under CONTRACT DOCUMENTS.
2. "Purchaser" shall mean the City of Hastings named and designated in the Contract Agreement as "Party of the First Part," and their duly authorized agents. All notices, letters, and other communication directed to the Purchaser shall be addressed and delivered to:

City of Hastings
1228 North Denver Avenue
P.O. Box 398
Hastings, Nebraska 68902-0289
Attention: Brandon Miller
Mechanical Engineer
3. "Contractor" shall mean the corporation, company, partnership, firm or individual named and designated in the Contract Agreement as the "Party of the Second Part," who has entered into this Contract for the performance of the work covered thereby, and its, his, or their duly authorized representatives.
4. "Subcontractor" shall mean and refer only to a corporation, partnership, or individual having a direct contract with the Contractor for performing work covered by these contract documents.
5. "Engineer" shall also refer to City of Hastings as the purchaser.
6. "Date of contract," or equivalent words, shall mean the date written in the first paragraph of the Contract Agreement.
7. "Day" or "days," unless herein otherwise expressly defined, shall mean a calendar day or days of 24 hours each.
8. "The work" shall mean the equipment, supplies, materials, labor, and services to be furnished under the contract and the carrying out of all obligations imposed by the contract documents.

SECTION 1 - GENERAL CONDITIONS

9. "Drawings" or "plans" shall mean all (a) drawings furnished by the Purchaser as a basis for proposals, (b) supplementary drawings furnished by the Purchaser to clarify and to define in greater detail the intent of the contract drawings and specifications, (c) drawings submitted by the successful bidder with his proposal, provided such drawings are acceptable to the Purchaser, (d) drawings furnished by the Purchaser to the Contractor during the progress of the work, and (e) engineering data and drawings submitted by the Contractor during the progress of the work, provided such drawings are acceptable to the Engineer.
10. Whenever in these contract documents the words "as ordered," "as directed," "as required," "as permitted," "as allowed," or words or phrases of like import are used, it shall be understood that the order, direction, requirement, permission, or allowance of the Purchaser or Engineer is intended only to the extent of judging compliance with the terms of the contract; none of these terms shall imply that the Purchaser or the Engineer has any authority or responsibility for supervision of the Contractor's forces or construction operations, such supervision and the sole responsibility therefor being strictly reserved for the Contractor.
11. Similarly the words "approved," "reasonable," "suitable," "acceptable," "proper," "satisfactory," or words of like effect and import, unless otherwise particularly specified herein, shall mean approved, reasonable, suitable, acceptable, proper, or satisfactory in the judgment of the Purchaser or Engineer, to the extent provided in (10) above.
12. Whenever in these contract documents the expression "it is understood and agreed" or an expression of like import is used, such expression means the mutual understanding and agreement of the parties executing the Contract Agreement.
13. "Official acceptance" shall mean the Purchaser's written acceptance of all work performed under this Contract, based on the Engineer's final inspection and issuance of a final payment certificate.
14. "Project completion" shall mean that the Bunker Enclosure is ready to allow for normal operation of the bottom ash bunker. The project construction completion date is at the end of day, December 4th, 2025.
15. "Final Acceptance" shall mean that all work has been completed in accordance with these specifications, the project has been walked down, punch list items have been completed, and Purchaser is ready to accept the Work as complete.
16. "Stop Work Order" shall mean that the Purchaser will provide a written order to the Contractor requiring the Contractor to stop all, or any part of, the work called for by this Contract, for a time defined by the order. The order shall specify the reasoning for the suspended work, which may include, but are not limited to, engineering considerations, changes to the project scope, safety or environmental concerns, or other issues

SECTION 1 - GENERAL CONDITIONS

detrimental to the project. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order. As soon as practical, the Purchaser and Contractor shall discuss the impacted activities, schedule, materials, labor, and equipment. If applicable, Purchaser and Contractor will seek to negotiate an equitable adjustment in the schedule, Contract price, or both, and the contract shall be modified, or a change order issued, as necessary. Upon any agreement and finalization of commercial conditions, Purchaser to provide written order to cancel the stop work order.

GC.3 Execution of the Contract

Once the bids have been evaluated, the Purchaser will electronically submit the Contract Agreement to the Contractor. The Contractor shall sign the Contract Agreement and return to Purchaser for the final approval process. Upon final approvals, the Contract Agreement will be signed by the Purchaser and electronically returned to the Contractor. Contractor shall then mail one hardcopy of required bonds, one electronic or hardcopy of insurance documents, and one electronic or hardcopy of power of attorney forms to the Purchaser. The date of contract on the bond forms and power of attorney forms shall match the date provided on the Contract Agreement by the Purchaser.

The Purchaser will review the final documents and electronically send a final conformed contract to the Contractor.

GC.4 Legal Addresses

The business address of the Contractor listed in the Proposal is hereby designated as the place to which all notices, letters, and other communication to the Contractor will be mailed or delivered. The address of the Purchaser appearing in section GC.2 is hereby designated as the place to which all notices, letters, and other communication to the Purchaser shall be mailed or delivered. Either party may change his address at any time by an instrument in writing delivered to the Engineer and to the other party.

GC.5 Scope and Intent of Contract Documents

The various parts of the contract documents are intended to supplement but not necessarily duplicate each other. Any work exhibited in one part and not in another shall be executed as if it had been set forth in all parts, so that the work will be performed according to the complete design as determined by the Engineer.

Should anything necessary for a clear understanding of the work be omitted from the contract documents, or should the requirements appear to be in conflict, the Contractor shall secure written instructions from the Engineer before proceeding with the work affected thereby. It is understood and agreed that the work shall be performed according to the true intent of the contract documents.

GC.6 Independent Contractor

The relationship of the Contractor to the Purchaser shall be that of an independent contractor.

SECTION 1 - GENERAL CONDITIONS

GC.7 Assignment

The Contractor shall not assign the work, or any part thereof, without the previous written consent of the Purchaser, nor shall he assign, by power of attorney or otherwise, any of the money payable under this Contract unless written consent of the Purchaser has been obtained. No right under this Contract, nor claim for any money due or to become due hereunder shall be asserted against the Purchaser, or persons acting for the Purchaser, by reason of any so-called assignment of this Contract or any part thereof, unless such assignment has been authorized by the written consent of the Purchaser. In case the Contractor is permitted to assign moneys due or to become due under this Contract, the instrument of assignment shall contain a clause subordinating the claim of the assignee to all prior liens for services rendered or materials supplied for the performance of the work.

GC.8 Oral Statements

It is understood and agreed that the written terms and provisions of this agreement shall supersede all oral statements of representatives of the Purchaser, and oral statements shall not be effective or be construed as being a part of this Contract.

GC.9 Reference Standards

Reference to the standards of any technical society, organization, or association, or to codes of local or state authorities, shall mean the latest standard, code, specification, or tentative standard adopted and published at the date of taking bids, unless specifically stated otherwise.

GC.10 Source of Materials

To the extent possible, materials, and equipment (including components thereof) furnished under these specifications shall be produced, processed, manufactured, and assembled within the United States of America. Substitution of foreign materials for domestic materials will not be permitted unless such substitution is clearly stated in the Proposal and accepted by the Purchaser.

GC.11 Contractor to Check Drawings and Lists

The Contractor shall check all dimensions, elevations, and quantities indicated on the drawings and lists furnished to him by the Engineer. The Contractor shall notify the Engineer of any discrepancy between the drawings and the conditions at the site, or any error or omission in the drawings, or in the layout as given by stakes, points, or instructions, which he may discover in the course of the work. The Contractor will not be allowed to take advantage of any error or omission in the drawings or other contract documents that a reasonable inspection of them by Contractor would reveal. Full instructions will be furnished by the Engineer should such error or omission be discovered, and the Contractor shall carry out such instructions as if originally specified.

GC.12 Figured Dimensions to Govern

Dimensions and elevations indicated on the drawings shall be accurately followed even though different from scaled measurements. No work indicated on the drawings, the dimensions of which are not indicated, shall be executed until necessary dimensions have been obtained from the Engineer.

SECTION 1 - GENERAL CONDITIONS

GC.13 No Waiver of Rights

Neither the inspection by the Purchaser or Engineer or any of their officials, employees, or agents, nor any order by the Purchaser or Engineer for payment of money, or any payment for, or acceptance of, the whole or any part of the work by the Purchaser or Engineer, nor any extension of time, nor any possession taken by the Purchaser or its employees, shall operate as a waiver of any provision of this Contract, or of any power herein reserved to the Purchaser, or any right to damages herein provided, nor shall any waiver of any breach in this Contract be held to be a waiver of any other or subsequent breach.

GC.14 Authority of the Engineer

To prevent delays and disputes, and to discourage litigation, it is agreed by the parties to this Contract that the Engineer shall determine the quantities of work which are to be paid for under the contract and shall resolve all questions in relation to the work.

If, in the opinion of the Contractor or the Purchaser, a decision made by the Engineer is not in accordance with the meaning and intent of the contract, either party may file with the Engineer and the other party to the contract, within 30 days after receipt of the decision, a written objection to the decision. Failure to file an objection within the allotted time will be considered acceptance of the Engineer's decision and the decision shall become final and conclusive.

The Engineer's decision and the filing of the written objection thereto shall be a condition precedent to the right to request arbitration or to start action in court.

It is the intent of this agreement that there shall be no delay in the execution of the work and the decision of the Engineer as rendered shall be promptly observed.

GC.15 Engineering Inspection

The Purchaser may appoint (either directly or through the Engineer) such inspectors as the Purchaser deems proper to inspect the work for compliance with the contract documents. The Contractor shall furnish all reasonable assistance required by the Engineer, or inspectors, for the proper inspection of the work. Should the Contractor object to any interpretation of the contract by an inspector, the Contractor may make written appeal to the Engineer for a decision.

Inspectors shall have the authority to reject work which is unsatisfactory, faulty, or defective or does not conform to the requirements of the contract documents. Inspection shall not relieve the Contractor from any obligation to construct the work strictly in accordance with the contract documents.

Upon the failure of the Contractor or its Subcontractors to comply with any of the requirements of this Contract (but not limited to quality or safety), the Purchaser shall have the authority to stop any portion of the work affected by such failure until such failure is remedied. If the Purchaser issues a Stop Work Order, the Purchaser shall not be liable for any costs or expenses claimed by Contractor arising out of such issuance. The construction

SECTION 1 - GENERAL CONDITIONS

schedule shall not be delayed or extended as a result of the Purchaser's issuance of a Stop Work Order.

GC.16 Contractor Default

If the work to be done under this Contract is abandoned by the Contractor; or if this Contract is assigned by him without the written consent of the Purchaser; or if the Contractor is adjudged bankrupt; or if a general assignment of his assets is made for the benefit of his creditors; or if a receiver is appointed for the Contractor or any of his property; or if at any time the Engineer certifies in writing to the Purchaser that the performance of the work under this Contract is being unnecessarily delayed, that the Contractor is violating any of the conditions of this Contract, or that he is executing the same in bad faith or otherwise not in accordance with the terms of said contract; or if the work is not substantially completed within the time named for its completion or within the time to which such completion date may be extended; then the Purchaser may serve written notice upon the Contractor and his surety of the Purchaser's intention to terminate this Contract. Unless within 5 days after the serving of such notice, a satisfactory arrangement is made for continuance, this Contract shall terminate. In the event of such termination, the surety shall have the right to take over and complete the work, provided that if the surety does not commence performance within 30 days, the Purchaser may take over and prosecute the work to completion, by contract or otherwise. The Contractor and his surety shall be liable to the Purchaser for all excess cost sustained by the Purchaser by reason of such prosecution and completion. The Purchaser may take possession of, and utilize in completing the work, all materials, equipment, tools, and plant on the site of the work.

GC.17 Beginning, Progress, and Completion of the Work

The time of completion is a basic consideration of this Contract. Unless otherwise specified in these contract documents or advised by written order of the Purchaser, the Contractor shall begin work within 10 days after the date of contract. The work shall be prosecuted to completion in accordance with the specified schedule, subject to adjustment as provided in these contract documents.

A detailed construction schedule shall be prepared by the Contractor and submitted to the Purchaser for review. The schedule shall contain the various activities required to perform the work and the dates the activities will be started and completed in order to complete the work in accordance with the specified schedule requirements. The Contractor is responsible for determining the sequence and time estimates of the detailed construction activities. However, the Purchaser reserves the right to require the Contractor to modify any portion of the schedule the Purchaser determines to be impracticable or unreasonable; as required to coordinate the Contractor's activities with those of other contractors, if any, engaged in work for the Purchaser on the site; to avoid undue interference with the Purchaser's operations; and to assure completion of the work by the date or dates stipulated. Upon acceptance by the Purchaser of the Contractor's detailed construction schedule, the Contractor will be responsible for maintaining such schedule.

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If at any time the Contractor's work is behind schedule, he shall immediately put into effect definite procedures for getting the work back on schedule. The procedures shall be subject to review and modification by the Purchaser.

GC.18 Hindrances and Delays

The Contractor expressly agrees that in undertaking to complete the work within the time specified, he has made allowances for all hindrances and delays which might usually be expected to occur in performing the work. No claims shall be made by the Contractor for such hindrances and delays.

If the Contractor experiences hindrances and delays which, in his opinion, are not usually to be expected in the performance of the work and which affect the performance of the work, he may request a change in the contract. Such hindrances and delays may include, but not be limited to, acts or failure to act by the Purchaser or other contractors employed by the Purchaser, fires, floods, labor disputes, epidemics, or acts of God. Such hindrances and delays shall not include rain, snow, or other non-severe inclement weather. Claims by the Contractor for any change in the contract due to such hindrances and delays shall be made in accordance with the requirements of Article GC.22, CHANGES TO THE CONTRACT. The Contractor shall use all reasonable means to minimize the extent of the delay.

GC.19 Suspension of Work

The Purchaser reserves the right to suspend and reinstate execution of the whole or any part of the work without invalidating the provisions of the contract. Suspension or reinstatement of the work will be by written notice to the Contractor from the Purchaser.

Suspension of work shall not automatically entitle the Contractor to additional compensation or a change in the contract time; however, the Contractor will be reimbursed for real and unavoidable direct costs incurred by him as a result of such suspension and/or the contract will be extended as required to compensate for any delay due to such suspension. Claims by the Contractor for change of contract time or an adjustment of the contract price, due to work suspensions ordered by the Purchaser shall be made in accordance with the requirements of Article GC.22, CHANGES TO THE CONTRACT. The Contractor shall use all reasonable means to minimize the consequences of such suspension.

GC.20 Cancellation of Work

The Purchaser reserves the right to cancel the unshipped portion of the work by giving written notice to the Contractor. In the event of cancellation, the Purchaser will pay the Contractor reasonable and proper cancellation costs.

Cancellation of the work shall not constitute the basis for a claim for damages or loss of anticipated profits.

The Contractor shall, after consultation with the Purchaser, take all reasonable steps to minimize the costs related to cancellation. The Contractor shall provide the Purchaser with an accounting of costs claimed, including adequate supporting information, and the Purchaser may, at its expense, audit the claimed costs and supporting information.

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GC.21 Modifications

The Contractor shall modify the work whenever so ordered by the Purchaser and such modifications shall not affect the validity of the contract. Modifications may involve changes in the amount of the work to be performed or changes in the contract time for which appropriate changes to the contract will be made.

Contract changes due to modifications shall be made in accordance with the requirements of Article GC.22, CHANGES TO THE CONTRACT.

GC.22 Changes to the Contract

The contract may be changed only by duly executed change orders issued by the Purchaser.

If, in the opinion of the Purchaser or the Contractor, any event or action by the other party justifies a change in the contract, either party shall initiate with the other party, within 5 days after such event or action, a request for a change to the contract. All documentation required to substantiate the proposed change shall be submitted within a minimum reasonable time after initiating the request for change. Upon the parties reaching agreement regarding the proposed change, the Purchaser will issue a written change order therefor.

Notwithstanding the foregoing provisions requiring duly authorized change orders, in the event agreement has been reached between authorized representatives of the parties regarding the change in the contract pending processing of such change order, the Contractor shall proceed with the work on the basis of written interim authorization from the Purchaser.

If the Contractor claims that any instruction, request, drawing, specifications, or other directive or action of the Purchaser or the Engineer constitutes a change in the contract, but has not been authorized as such by a change order in writing by the Purchaser, the Contractor shall immediately request a written interim authorization and proceed without delay to perform the work in accordance with such authorization. The Contractor shall provide written notice of the claim or dispute to the Engineer and the Purchaser within 5 days of the request for interim authorization. The Contractor's failure to give said written notice within the 5 day period shall constitute a waiver and relinquishment of any such claim or dispute. The Purchaser's written interim authorization shall not constitute approval of the claim for increased or decreased work, but shall be a condition precedent to the Contractor's right to receive payment for such work and to the Contractor's right to prosecute or maintain any proceeding to recover for such work.

GC.22.1 Contract Price Changes

The contract price may be changed due to modifications which involve extra work or decreased work; or due to work suspensions, hindrances, and delays over which the Contractor has no control. Claims for changes in the contract price shall conform to the requirements specified herein.

GC.22.1.1 Increased Price

If a change in the contract is required due to work suspensions or hindrances and delays, the contract price will be increased according to agreed lump sums, agreed acceleration costs, or

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other demonstrable costs submitted by the Contractor and substantiated to the satisfaction of the Purchaser.

If a change in the contract price is required due to a modification which increases the amount of the work, and the added work or any part thereof is of a type and character which can properly and fairly be classified under one or more unit price items of the contract, then the contract price will be increased according to the amount actually done and at the applicable unit price. Otherwise, such work shall be paid for as herein-after provided.

Contract price changes for modifications involving extra work will be based on agreed lump sums or on agreed unit prices whenever the Purchaser and the Contractor agree upon such prices before the extra work is started; otherwise, payments for extra work will be based on actual direct cost plus the specified percentage allowance.

For the purpose of determining whether proposed extra work will be authorized, or for determining the payment method for extra work, the Contractor shall submit to the Engineer, upon request, a detailed cost estimate for proposed extra work. The estimate shall indicate itemized quantities and charges for all elements of direct cost. Charges for the Contractor's and subcontractor's extra profit, extra general superintendence, extra field office expense, and extra overheads shall be indicated as a percentage addition to the total estimated direct cost. Unless otherwise agreed upon by the Contractor and the Purchaser, such percentage additions shall be 15 percent for the extra work performed by the Contractor's own forces or 20 percent for extra work performed by a subcontractor.

When payment for extra work is based on actual direct cost, the Contractor will be paid the actual direct cost plus an allowance of 15 percent if the extra work is performed by the Contractor's own forces or 20 percent if the extra work is performed by a subcontractor. The allowance will be paid as full compensation for the Contractor's and sub-contractor's extra profit, extra general superintendence, extra field office expense, extra overheads, and all other elements of extra cost not defined herein as actual direct cost.

The actual direct cost shall include only those extra costs for labor and material expended in direct performance of the extra work and may include the following.

- a. The actual payroll cost of all workmen such as laborers, mechanics, craftsmen, and foremen.
- b. The Contractor's or subcontractor's net cost for materials and supplies.
- c. The rental charge for vehicles and construction equipment.
- d. The transportation charges for equipment.
- e. The charges for extra power, fuel, lubricants, water, and special services.
- f. The charges for extra payroll taxes, bond premiums, and insurance premiums.

The form in which actual direct cost records are kept, the construction methods, and the type and quantity of equipment used shall be acceptable to the Engineer.

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Construction equipment which the Contractor has on the jobsite and which is of a type and size suitable for use in performing the extra work shall be used. The hourly rental charges for equipment shall not exceed 1/2 percent of the latest applicable monthly rental rates as published by Dataquest Incorporated in its "Rental Rate Blue Book" and shall apply to only the actual time the equipment is used in performing the extra work.

When extra work requires the use of equipment which the Contractor does not have on the jobsite, the Contractor shall obtain the concurrence of the Engineer before renting or otherwise acquiring additional equipment. The rental charges for the additional equipment shall not exceed the latest applicable "Rental Rate Blue Book" published rental rates.

GC.22.1.2 Decreased Price

If a change in the contract price is required due to a modification which decreases the amount of work, such decrease shall not constitute the basis for a claim for damages or anticipated profits on work affected by such decrease. Where the value of omitted work is not covered by applicable unit prices, the Engineer shall determine, on an equitable basis, the amount of:

- a. Credit due the Purchaser for contract work deleted as a result of an authorized change,
- b. Allowance to the Contractor for any actual loss incurred in connection with the purchase, delivery, and subsequent disposal of materials or equipment required for use on the work as planned and which could not be used in any part of the work as actually built, and
- c. Any other adjustment of the contract amount where the method to be used in making such adjustment is not clearly defined in the contract documents.

Unless otherwise agreed upon by the Purchaser and the Contractor, the credit due the Purchaser for reductions in the amount of work to be done shall be the estimated direct cost of the deleted work plus an overhead allowance of the following.

- 10 percent of the estimated direct cost if the work was to have been done by the Contractor's own forces, or
- 15 percent of the estimated direct cost if the work was to have been done by a subcontractor.

Direct cost referred to above shall include the category of costs listed as actual direct costs, Items (a) to (f) inclusive of the article entitled Increased Price.

GC.22.2 Contract Time Changes

The contract time may be changed due to work modifications, hindrances and delays, and work suspensions over which the Contractor has no control.

Contract time will not be changed for delays caused by unfavorable weather or unsuitable ground conditions normally incident to the work, inadequate construction force, failure to

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place timely orders for equipment and materials, or other causes within the control of the Contractor.

GC.23 Step Dispute Resolution

In the event of any controversy, claim or dispute between the Parties arising out of or relating to this Agreement, including its enforcement, such controversy, claim or dispute, including disputes regarded as such by only one of the Parties, the Parties shall negotiate in good faith to resolve such dispute, including third party mediation, if the Parties so agree.

If no settlement is achieved, either Party may pursue a claim in a federal or state court with competent jurisdiction.

GC.24 Laws and Regulations

The Contractor shall observe and comply with all ordinances, laws, and regulations, and shall protect and indemnify the Purchaser and the Purchaser's officers and agents, including the Engineer, against any claim or liability arising from or based on any violation of the same.

GC.25 Taxes, Permits, and Licenses

The Contractor shall pay all sales, use, and other taxes that are lawfully assessed against the Purchaser or Contractor in connection with the work and shall obtain and pay for all required licenses, permits, and inspections.

The Contractor will be compensated for any increase in tax rates, license fees, and permit fees or any new taxes, licenses, or permits imposed after the date of the Proposal; provided, however, that this provision shall be limited to sales, use, and excise taxes assessed against the completed work and to licenses and permits required specifically for the proposed work.

GC.26 Patents

Royalties and fees for patents covering materials, articles, apparatus, devices, equipment, or processes used in the work shall be included in the contract amount. The Contractor shall satisfy all demands that may be made at any time for such royalties or fees and he shall be liable for any damages or claims for patent infringements. The Contractor shall, at his own cost and expense, defend all suits or proceedings that may be instituted against the Purchaser for alleged infringement of any patents involved in the work and, in case of an award of damages, the Contractor shall pay such award. Final payment to the Contractor by the Purchaser will not be made while any such suit or claim remains unsettled.

GC.27 Materials and Equipment

Unless specifically provided otherwise in each case, all materials and equipment furnished for permanent installation in the work shall conform to applicable standard specifications and shall be new, unused, and undamaged when installed or otherwise incorporated in the work. No such material or equipment shall be used by the Contractor for any purpose other than that intended or specified, unless such use is specifically authorized by the Purchaser in each case.

All required tests in connection with acceptance of source of materials shall be made at the Contractor's expense by a properly equipped laboratory of established reputation whose work

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and testing facilities are acceptable to the Purchaser. Any change in origin or method of preparation or manufacture of a material being routinely tested will require new tests. Reports of all tests shall be furnished to the Engineer or Purchaser in as many copies as required.

GC.28 Guarantee

The Contractor guarantees that the work herein contracted will be as specified and will be free from defects in design, workmanship, and materials. Contractor does not guarantee or warrant parts subject to normal wear and tear during operation. If within the guarantee period the work fails to meet the provisions of this guarantee, the Contractor shall promptly correct any defects, including nonconformance with the contract documents by adjustment, repair, or replacement of all defective parts or materials at the Contractor's option and expense, after consulting with the Purchaser on the proposed remedy plans.

Except as otherwise prescribed by the terms of any special guarantees required by the contract documents, the guarantee period shall begin on the date of final payment and shall end 12 months later.

The cost of all materials, parts, labor, transportation, supervision, special tools, and supplies required for replacement or repair of parts and for correction of defects shall be paid by the Contractor or by the surety.

This guarantee shall be extended to cover all repairs and replacements furnished under the guarantee and the period of the guarantee for each such repair or replacement shall be 1 year after correction of the defect except as otherwise prescribed by the terms of any special guarantees required by the contract documents.

The Contractor will be given an opportunity to confirm the existence of the defect, but he shall not delay the correction while making such determination.

If within 10 days after the Purchaser has notified the Contractor of a defect, failure, or abnormality in the work, the Contractor has not started to make the necessary repairs or adjustments, the Purchaser is hereby authorized to make the repairs or adjustments or to order the work to be done by a third party; the cost of the work to be paid by the Contractor.

In the event of an emergency where, in the judgment of the Purchaser, delay would cause serious loss or damage, repairs or adjustments may be made by the Purchaser or a third party chosen by the Purchaser without advance notice to the Contractor and the cost of the work shall be paid by the Contractor or by the surety.

GC.29 Contractor's Insurance Coverage

The Contractor shall not commence work under this Contract until Contractor has obtained all the insurance required under this article. Furthermore, the Contractor shall not allow any sub-contractor to commence work under this Contract until the sub-contractor has obtained the same insurance as is required of the Contractor. The sub-contractor alone shall be responsible for the sufficiency of its own insurance program.

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GC.29.1 Certificates of Insurance

Certificates of Insurance acceptable to the Purchaser shall be filed with the Purchaser prior to commencement of the work. All insurance carried shall conform to the relevant provisions of the respective Project Documents and be with insurance companies which are rated "A, X" or better by Best's Insurance Guide, or other insurance companies of recognized responsibility satisfactory to the Purchaser.

GC.29.2 Proof of Carriage of Insurance. Satisfactory certificates of insurance shall be filed with the Purchaser prior to starting any construction work on this contract. The parties agree that the requirements with respect to requirements to procure and maintain insurance under this Section is a material part of this Agreement.

GC.29.3 Additional Insureds

Insurance coverages furnished under this Contract, with the exception of Workers' Compensation and Employer's Liability, shall include the City of Hastings and their members, directors, officers, agents, and employees as named Additional Insureds on a primary and noncontributory basis, and shall include Products and completed operations with respect to the activities of the Contractor and shall be maintained for the full duration of the project including for a period after completion to include the statute of repose.

Notwithstanding any other provision of these policies, the insurance afforded shall apply separately to each insured, with respect to any claim, suit, or judgment made or brought by or for any other insured, as though a separate policy had been issued to each, except the insurer's liability shall not be increased beyond the amount or amounts for which the insurer would have been liable had only one insured been named.

The Purchaser shall not by reason of their inclusion under these policies incur liability to the insurance carrier for payment of premium for these policies.

GC.29.4 Waiver of Subrogation

To the extent permitted by applicable law, the Contractor and their sub-contractor shall require their insurance carriers, with respect to all insurance policies, to waive all rights of subrogation against the Purchaser their partners, directors, officers, agents, and employees.

GC.29.5 Workers' Compensation and Employer's Liability Insurance

The Contractor shall procure, and shall maintain during the life of this Contract, Workers' Compensation Insurance as required by workers' compensation laws of the State of Nebraska and also of the state in which the sub-contractor is domiciled.

The Contractor shall also be protected against claims for injury, disease, or death of employees which, for any reason, may not fall within the provisions of a workers' compensation law. The Employer's Liability Insurance shall contain the following limits of liability:

Bodily Injury by Accident	\$500,000 each accident
Bodily Injury by Disease	\$500,000 each employee

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Bodily Injury by Disease

\$500,000 policy limit

GC.29.6 General Liability Insurance

This insurance shall be written per project on an "occurrence" policy form, including coverage for premises/operations, products/completed operations, blanket contractual liability, independent contractors and personal injury, with no exclusions for explosion, sudden and accidental pollution or an absolute or total pollution exclusion, collapse and underground perils. The commercial general liability policy shall also include a severability of interest clause and a cross liability clause in the event more than one entity is "named insured" or "named additional insured" under the liability policy.

Limits of Insurance shall be as follows:

Each Occurrence Limit	\$1,000,000
Products/Completed Operations	\$2,000,000
General Aggregate Limit	\$2,000,000
Personal and Advertising Injury	\$1,000,000

GC.29.7 Automobile Liability Insurance

This insurance shall be written under a Business Auto Policy and shall protect the Contractor and Additional Insureds against claims arising from injuries to members of the public or damage to property of others arising from the use of automobiles whether such automobiles are owned, non-owned, or hired. Automobile insurance shall include Motor Carrier Endorsement Act MCS 90 and transportation pollution coverage if applicable. If work is being done near a railroad track, the 50' railroad right of way exclusion must be deleted.

Limit of Liability	\$1,000,000 each accident
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GC.29.8 Umbrella Liability Policy

This insurance shall protect the Contractor and the Additional Insureds against all claims in excess of the limits provided under the employer's liability, automobile liability, and general liability policies. The liability limits of the umbrella liability policy shall be not less than \$5,000,000 per occurrence. This policy shall be an "occurrence" type policy. However, Purchaser reserves the right to require higher limits with respect to each project.

GC.29.9 Pollution Liability – If Applicable

Limits of at least:	\$1,000,000 per occurrence; \$1,000,000 aggregate
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If Contractor or its Sub-subcontractor's work includes but not limited to remediating, handling, processing or disposing of hazardous material including but not limited to asbestos containing materials, silica, lead, PCBs, contaminated soil, etc, coverage shall be provided for bodily injury, property damage and clean-up costs resulting for pollution conditions.

GC.29.10 Riggers Liability – If Applicable

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Should work involve the moving, lifting, lowering, rigging or hoisting of property or equipment Contractor shall carry Rigger's Liability Insurance to insure against physical loss or damage to the property or equipment on a Replacement Cost Basis.

GC.29.11 Railroad Protective Liability – If Applicable

Limits of at least: As required by the railroad company

If Contractor or its Subcontractor's work includes working within a railroad right-of-way, Contractor shall carry Railroad Protective Liability Insurance to insure against physical loss or damage to the real property or any equipment located on such railroad right-of-way, on a replacement cost basis. Contractor shall name the railroad and PPGA as additional insureds, in such limits as required by such railroad company.

GC.29.12 Professional Liability – If Applicable

Limits of at least: \$1,000,000 per occurrence; \$1,000,000 aggregate

Policy shall provide for a retroactive date prior to the starting date of services for which this agreement applies. Policy shall not exclude damages for bodily injury, property damage, or pollution liability. Coverage shall remain in force for a minimum of 3 years following substantial completion of construction through either policy renewal or the purchase of an Extended Reporting Provision. Contractor agrees to waive its rights of recovery. Subcontractor's insurer shall endorse the policy to waive subrogation against Owner and their respective agents, officers, directors and employees.

GC.29.13 Transportation Insurance – If Applicable

Contractor shall purchase inland marine coverage at the expense of Contractor on all equipment and materials, where Purchaser has an insurable interest. Insurance shall protect for Contractor and Purchaser from physical loss of equipment while loading, unloading, in transit to jobsite, and until equipment or materials have been installed or received by Purchaser.

GC.29.14 Property Insurance A.K.A. Builder's Risk – If Applicable

Unless otherwise provided, Contractor shall purchase and maintain property insurance, a.k.a. builder's risk insurance, on the building construction project in amount thereto for entire work at site on a replacement cost basis. Such property insurance shall be maintained, unless otherwise provided in contract documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final acceptance of work by PPGA. Insurance shall include interests of PPGA, Contractor, Subcontractor, and sub-subcontractors in work. This property insurance covering work will have deductible for each occurrence, which will be responsibility of Contractor.

Before an exposure to loss may occur, the Contractor will provide a copy of the property insurance policy or evidence of property insurance, upon request that includes all property insurance coverages.

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Waivers of Subrogation: PPGA, Contractor, and all Subcontractors waive all rights against

(1) each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, and (2) PPGA's or Contractor's consultants, separate contractors, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other perils to extent covered by property insurance obtained, or other property insurance applicable to work, except such rights as they have to proceeds of such insurance held by PPGA and/or Contractor as fiduciary. Contractor shall require of consultants, separate contractors, if any, and subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. Policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay insurance premium directly or indirectly and whether or not person or entity had an insurable interest in property damaged.

GC.30 Indemnification

To the fullest extent permitted by laws and regulations, the Contractor shall defend, indemnify, and hold harmless the Purchaser, their officers, directors, members, consultants, agents, and employees from and against all claims, damages, losses, and expenses, direct, indirect, or consequential (including but not limited to fees and charges of engineers, architects, attorneys, and other professionals and court and arbitration costs) arising out of or resulting from the negligent, wrongful, or defective performance of the work by the Contractor, any sub-contractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work, or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder or arises by or is imposed by law and regulations regardless of the negligence of any such party.

In any and all claims against the Purchaser, or of any of their officers, directors, members, consultants, agents, or employees by any employee of the Contractor, any sub-contractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable, this indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Contractor or any such sub-contractor or other person or organization under workers' or workmen's compensation acts, disability benefit acts, or other employee benefit acts, nor shall this indemnification obligation be limited in any way by any limitation on the amount or type of insurance coverage provided by the Purchaser, the Contractor, or any of their sub-contractors.

GC.31 Release of Liability

Acceptance by the Contractor of the last payment shall be a release to the Purchaser and every officer and agent thereof, from all claims and liability hereunder for anything done or furnished for, or relating to the work, or for any act or neglect of the Purchaser or of any person relating to or affecting the work.

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GC.32 Claims for Labor and Materials

The Contractor shall indemnify and save harmless the Purchaser from all claims for labor and materials furnished under this Contract. When requested by the Purchaser, the Contractor shall submit satisfactory evidence that all persons, firms, or corporations who have done work or furnished materials under this Contract, for which the Purchaser may become legally liable, have been fully paid or satisfactorily secured. In case such evidence is not furnished or is not satisfactory, an amount will be retained from money due the Contractor which, in addition to any other sums that may be retained, will be sufficient, in the opinion of the Purchaser, to liquidate all such claims. Such sum will be retained until the claims as aforesaid are fully settled or satisfactorily secured.

Before final acceptance of the work by the Purchaser, the Contractor shall submit to the Engineer in duplicate a notarized affidavit stating that all subcontractors, vendors, persons, or firms who have furnished labor or materials for the work have been fully paid and that all taxes have been paid. If a performance bond has been executed, a statement from the surety shall also be submitted consenting to the making of the final payment.

GC.33 Final Inspection

When the work has been substantially completed and at a time mutually agreeable to the Purchaser and Contractor, the Purchaser will make a final inspection of the work as to the acceptability and completeness of the work.

GC.34 Payments

Payment will be based on the Contractor's progress payment which he will submit to the Purchaser for approval. The Purchaser will retain 10% of the total contract amount for all work. The Purchaser will reduce the retainage to 5% after the project is 50% complete.

GC.35 Hazardous Materials

As required under Federal Hazardous Communications Standards and certain state and local laws, the Contractor shall provide Material Safety Data Sheets covering all hazardous materials furnished under or otherwise associated with the work under this Contract. The Contractor shall provide the Purchaser with either copies of the applicable Material Safety Data Sheets or copies of a document certifying that no Material Safety Data Sheets are required under any federal, state, or local law, regulation, statute, or ordinance in effect at the jobsite.

Hazardous materials are defined in the applicable statute which may use the terminology "toxic substances" instead of "hazardous materials." The Contractor is responsible for determining if any substance or material furnished, used, applied, or stored under this Contract is within the provisions of any applicable statute.

If the work under this Contract includes onsite construction or erection, the Contractor shall provide written notice of the presence of hazardous materials to local fire, medical, and law enforcement agencies as required with a copy of such notice to the Purchaser.

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The Contractor shall provide labeling of hazardous materials and training of employees in the safe usage of such materials as required under any applicable federal, state, or local law, regulation, statute, or ordinance.

GC.36 Liquidated Damages

Time is a material provision of this Agreement. If the Contractor is unable to meet the agreed upon completion dates, the Contractor shall immediately notify the Purchaser and confirm the notice in writing within ten (10) business days of the delaying event. The notice shall contain detailed information of the delay including Contractor's estimate of the duration of the delay, Contractor's estimate of the delay's impact to Contractor's schedule and Contractor's plan to mitigate the effects of the delay.

Contractor shall be excused for delays in completion of the work only in accordance with GC.18. In the event of any such delay, Contractor shall only be allowed an extension of the date of completion for a period of time reasonably necessary to overcome the effect of the delay. Contractor shall not be entitled to any extra compensation for such delay. Contractor shall promptly notify the Purchaser in writing, with confirmation receipt of notification,

The liquidated damages amount per calendar day specified in the proposal form will be assessed, not as a penalty but as predetermined and agreed liquidated damages. The Purchaser and Contractor specifically agree the per calendar day amount to be assessed as liquidated damages is fair and reasonable and not excessive. The parties further agree that said per calendar day amount accurately reflect the anticipated loss and inconvenience to the public and lost revenue to or use by the Purchaser due to the project not being completed by the end of the project period or the end of the contract completion date.

The Purchaser shall have the right to deduct liquidated damages from any money in its hands, otherwise due, or to become due, to the Contractor; to submit invoice for payment; or to sue for and recover compensation for damages for nonperformance of this Contract within the time stipulated.

The Liquidated Damages for this project will be \$500.00 per calendar day past the project completion date.

GC.37 Consequential Damages

Except for Supplier's third party obligations arising out of or liability for breach of Articles GC.26 and/or GC.30, Purchaser and Supplier will not be liable to each other for loss of profits, loss of use, loss of contracts, or consequential damages arising out of this Contract. This Section will not relieve Supplier of any obligation under GC.36.

GC.38 Limitation of Liability

With the exception of (a) indemnification stated in Article GC.30 and (b) the insurance coverages and limits set forth in Article GC.29, Supplier's total limit of liability on any claim, whether for breach of Contract, breach of warranty, tort, negligence, strict liability, or any other legal theory, for any loss or damage arising out of or connected to, or resulting from this Contract, shall be limited to the purchase price to be paid by Purchaser.

SECTION 1 - GENERAL CONDITIONS

GC.39 Confidentiality

“Confidential Information” means the confidential or proprietary designs, know-how, processes, trade secrets, and other information owned or controlled by Purchaser, Engineer, or Supplier respectively. Supplier agrees to hold any Confidential Information received in the strictest confidence, shall only use the Confidential Information as necessary to perform the work. Purchaser agrees to hold any Confidential Information received in the strictest confidence and shall only use the confidential information as necessary for engineering, construction, start-up, commissioning, maintenance, or other purposes related to the project. Each party shall use the same degree of care as is used for its own information of similar importance, but no less than reasonable care.

GC.40 Work Eligibility Status

The Contractor is required and hereby agrees to use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska. A federal immigration verification system means the electronic verification of the work authorization program authorized by the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, 8 U.S.C. 1324a, known as the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of a newly hired employee.

GC.41 Fair Labor Standards

The Contractor agrees to comply with all current applicable State, Federal, and City fair labor standards in the execution of the contract. Pursuant to the Title VI Non-Discrimination Program of the City of Hastings, Contractor agrees to comply with the provisions set forth by CITY’s Title VI Non-discrimination Program, if applicable. A copy of said provisions are as follows:

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

- (1) Compliance with Regulations: The contractor shall comply with the Regulation relative to nondiscrimination in Federally-assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, and the Federal Highway Administration (hereinafter “FHWA”) Title 23, Code of Federal Regulations, Part 200 as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
- (2) Nondiscrimination: The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin, sex, age, and disability/handicap in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by 49 CFR, section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

SECTION 1 - GENERAL CONDITIONS

- (3) Solicitations for Subcontractors, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin, sex, age, and disability/handicap.
- (4) Information and Reports: The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the (Recipient) or the FHWA to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information the contractor shall so certify to the (Recipient), or the FHWA as appropriate, and shall set forth what efforts it has made to obtain the information.
- (5) Sanctions for Noncompliance: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the (Recipient) shall impose such contract sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:
 - (a.) Withholding of payments to the contractor under the contract until the contractor complies, and/or
 - (b.) Cancellation, termination or suspension of the contract, in whole or in part.
- (6) Incorporation of Provisions: The contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

The contractor shall take such action with respect to any subcontract or procurement as the (Recipient) or the FHWA may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the (Recipient) to enter into such litigation to protect the interests of the (Recipient), and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

SECTION 2 SPECIAL CONDITIONS

SECTION 2-0 - GENERAL

2.001 General Provisions. The general conditions are general in scope and may refer to conditions not encountered on the work covered by this contract. Any provisions of the General Provisions which pertains to a nonexistent condition and is not applicable to the work to be performed hereunder, or which conflicts with any provision of the Special Provisions shall have no meaning to the contract and shall be disregarded.

2.002 Maintenance of Traffic. – N/A

2.003 Provisions for Traffic Control and/or Barricading. – N/A

2.004 Street Closing. – N/A

2.005 Dust Control. The Contractor shall be required to keep dusty conditions, caused by his operations, from being a source of complaint by adjacent property owners by watering down his haul routes or by other methods approved by the Engineer.

2.006 Removal of Trees, Hedges, Shrubs, and/or Fences. The Contractor shall sufficiently plan ahead to notify property owner(s) of any obstacles in the way of proposed construction that will have to be removed prior to construction by property owners if they desire to save such.

Clearing and removal of items will be shown on plans and completed by Contractor. The payment for removal of said items will be on proposal sheet, however, any tree within the project scope will be considered subsidiary to work and no additional compensation will be paid.

2.007 Reseeding Lawns & Terraces (Bluegrass Reseed). In the event construction impacts the customer's lawn, the Contractor shall be responsible for repair of construction site to fine grading and reseeding. Terrace reseeding shall be with "May Park" brand or equal seed consisting of a minimum of 70% blue and 30% other grasses and shall be applied at a rate of 2 ½ lbs. minimum per 1000 square feet. The Contractor will be responsible for initial watering and follow-up watering of at least two times. If situations arise or conditions change that it is impractical to seed, the Contractor may make arrangements satisfactory to City of Hastings to delay such action. This will be a negotiable item and determined at the time of condition. In the event that an area is seeded and lost because of certain conditions, i.e. heavy rain, lack of initial care, etc., it will have to be redone by the Contractor.

Damaged area shall be leveled out to match existing grade conditions and raked to provide suitable bedding for seeding. All unsuitable material shall be removed such as rock, broken concrete, etc.

Fertilizer is also to be furnished and applied by Contractor. Fertilizer shall be 12-6-6 and applied at rate of 4 lbs. per 1000 sq. ft.

No seeding will take place until the grading and site preparation have been approved by the City. No seeding will take place after October 1, unless approved by the City.

SECTION 2 SPECIAL CONDITIONS

2.008 Sodding. Contractor may choose to make landscaping repairs with blue grass sod instead of reseeding, when applicable.

Sod requirements: Sod will be a blue grass sod blend with disease resistant cultures, grown in this climate zone with minimum of 1/2" dirt pack attached.

Sod bedding: Existing ground shall be graded to approximately 1" to 1 ½ " below sidewalk elevation and raked out.

Sod fertilizer: A starter fertilizer of 12-12-12 shall be applied to raked-out ground at the rate of 4 lbs. per 1000 S.F. Weight tickets shall be provided for all fertilizer installed.

Sod installation: Sod shall be placed, rolled, and secured in a neat manner and watered in with minimum of 1/2" watering application over area.

Failure to grow: Any sod that is laid and does not respond initially or appears to be dead will have to be reinstalled by Contractor at Contractor's expense.

Future care: Shall be responsibility of property owner/or resident unless other arrangements made to Contractor.

Weather conditions: Current weather conditions must be suitable before sod installation will be approved.

No sodding will take place after October 1, unless approved by the City

No sod laying will take place until the grading and site preparation has been approved by the City.

2.009 Working Hours. Normal working hours will be considered to be from 8:00 a.m. to 5:00 p.m., Monday through Friday (holidays excepted: New Year's Day, Martin Luther King Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving, Friday after Thanksgiving, ½ day Christmas Eve, and Christmas Day). Any Contractor desiring other working hours must take exception to specifications for consideration by City of Hastings. Any exception must be approved or negotiated to mutual acceptance by Contractor and City of Hastings, final acceptance will be granted in writing.

2.010 Removal and Replacement of Property Stakes. If it is necessary to remove any property corners or markers during construction operations, the Contractor shall notify the Engineer so that the Engineer can establish reference ties. Any markers removed without notice to the Engineer shall be replaced at the Contractor's expense in accordance with the proper land surveying techniques.

2.011 Existing Sprinkler Systems. – N/A

2.012 Appearance of Construction Area and Storage Site. Contractor will be required to keep the construction area in a neat and orderly fashion that would be considered reasonable in regard to work being completed.

SECTION 2 SPECIAL CONDITIONS

Where Contractor will have a storage site for materials, equipment, etc., on property owned by City, it shall be kept in a neat and orderly manner, free from debris, accumulation of unused materials, etc. Any area used for storage, etc., shall be properly served from the public by temporary fencing if not within a fenced area.

2.013 Construction Progress Meetings. Construction progress meetings will be held at a predetermined time each week, time to be chosen at the preconstruction conference. City of Hastings will have in attendance the Superintendent or his representative. Contractor shall have Project Superintendent or Job Foreman present.

2.014 Final Cleaning Up. Upon completion of the work and before acceptance and final payment, the Contractor shall clean the site of all rubbish, excess materials, false work, temporary structures, and equipment; all parts of the work shall be left in a neat and presentable condition.

2.015 Preconstruction Conference. A preconstruction conference will be held at City of Hastings offices with the contractor, owner, superintendent, and job foreman prior to construction and all other city, county, state, and other necessary agencies will be notified of this meeting also.

Contractor shall submit to City a detailed construction progress schedule prior to preconstruction meeting.

A preconstruction conference shall be arranged between the Director of Electrical Distribution and the Contractor prior to beginning construction. At this meeting the following items shall be addressed.

- a. Work by others. Coordination of work to be performed by subcontractors and other contractors performing work related to this project.
- b. Availability of work space. The site and use of adjacent work space shall be reviewed.
- c. Change orders. Procedures for implementing change orders shall be reviewed.
- d. Safety and protection. The Contractor shall be responsible for all safety and necessary protection of all persons in attendance of the project site. The project engineer and other observers shall adhere to all safety precautions deemed necessary by the Contractor.
- e. Final inspection and payment. Final inspection shall be performed by the Director of Engineering and his representatives. When all aspects of this project, as described within these documents have been met, the Contractor may submit for final payment.

2.016 Customer Relations. – N/A

SECTION 3 – GENERAL DESCRIPTION AND SCOPE OF WORK

3.1 General:

The City of Hastings (Owner) is accepting bids for the supply of materials and installation of a new enclosure on the bottom ash bunker platform for Whelan Energy Center, Unit 1 in Hastings, Nebraska. The bidder is strongly encouraged to visit with Hastings prior to submitting a bid. The Bidder shall inform themselves of all conditions and factors which would affect the execution of the work. No claims for financial compensation or time extension, based on the lack of such prior information (or its effect on the cost of the work) will be permitted by the Owner. Please contact Brandon Miller, Mechanical Engineer, at 402-462-3653 if you have any questions about this project or would like to set up a visit.

3.2 Description of the Project:

Whelan Energy Center, Unit 1 (WEC1) is an 82 megawatt (MW), pulverized coal-fired generating plant located near Hastings, Nebraska. The Unit began commercial operation in 1981. The boiler is equipped with a submerged grind conveyor system that takes the bottom ash from the Unit 1 boiler out of the plant through two conveyors where it is dewatered and dropped into a bunker. The head of conveyor 2 consists of a platform area on top of a concrete bunker. Due to maintenance and weather concerns during the winter, the owner is extending structural steel above the existing platform, enclosing the top with a roof and insulated metal panels, adding an insulated metal panel separation under checker plate flooring, and adding corrugated metal siding around the sides of the lower portion of the bunker above the concrete walls.

3.3 Scope of Work Performed Under This Contract:

The contractor shall perform the following scope of work:

- Demolition of existing (Sheet S101)
 - Grating at top of stair landing – demo and replace with new
 - Grating at middle stair landing – demo and reuse
 - Grating SW corner top of platform – demo
 - Guardrail on all four sides at top of platform – demo
 - Structural steel SW corner top of platform
 - Stairs – to be removed and relocated 2'-0" to the west to allow landing for walk-in door at top landing
- Foundations
 - Supply and Install Extension of footing at bottom of stairs (Sheet S100, S500)
 - Includes excavating, concrete, rebar, and dowels into existing footing
- Stair Relocation (Sheet S102, S202)
 - Stairs to be moved 2'-0" west, existing columns supporting middle landing to remain in current location.
 - Includes adding new structural steel stringer extensions, grating, guardrail extension, and all other hardware and connections
- Supply and Install New Structural Steel (S102, S103, S200, S201)
 - Middle stair landing
 - Top stair landing

- o Structural steel framing below platform level EL 1924'-6 ¾" (Sheet S102)
- o Structural steel roof framing (Sheet S103)
- o Extending main columns above platform to new roofline (Sheet S200)
- o Structural steel framing on lower bunker walls (Sheet S200, 201)
- o All door framing, roof hatch framing, wall panel framing, and angled supports per drawings.
- Supply and Install Concrete Anchors at bottom stair landing
- Supply and Install Insulated metal wall panels, insulated metal floor panels, insulated roof panels, checker plate floor panels, grating, and trim
- Supply and Install all structural steel connections and brackets
- Supply and Install all flashing, sealants, and boot around conveyor discharge spout.
- Supply and Install all hardware and accessories needed to complete the enclosure per the drawings
- Supply and Install gutter and downspout
- Supply and Install walk-in door and roof access hatch (Sheet S103)
- Install CoH supplied Unit Heater, Exhaust Fan, and Louvers
 - o All Electrical by others
- Supply and Installation of all field applied touch up painting
- Comply with all technical specifications as stated on Sheet S001, S002, S003, and all other notes on project drawings

3.4 Work Performed by Others:

The following will be performed by others:

- All Electrical Work
 - o Wiring lights, switches, receptacles, and power to enclosure vent fan
- Removing conveyor insulation and jacketing
- Adding heat trace to conveyor sections
- Reinstalling and adding new conveyor insulation and jacketing

3.5 Miscellaneous Materials and Services Scope:

Miscellaneous Materials and Services Scope			
Item	Description	Contractor (Applies to)	Owner (Applies to)
1.	Receipt, inspection, unloading and storage of materials provided by City of Hastings		X
2.	Receipt, inspection, unloading and storage of materials supplied by Contractor	X	
3.	Supply and installation of anchor bolts for contractor installed equipment	X	
4.	All hardware, welding supplies, and miscellaneous materials not provided by owner that is necessary for the completion of the work	X	
5.	Removal and disposal of all demolished equipment, piping and materials	X	

6.	Supply, installation, and removal of all temporary erection bracing, rigging, attachments and supports	X	
7.	All tooling and equipment required to perform the specified work	X	
8.	Survey and layout of the work from the Purchaser's designated control points	X	
9.	Supply of lifting equipment including cranes, man lifts, fork lifts, and telehandlers needed to complete the work	X	
10.	Supply of all work platforms including scaffolding, and OSHA required fall protection	X	
11.	Tests and inspections as required by specification	X	
12.	Grouting of equipment and column bases	X	
13.	Supply and install of touch up coatings	X	
14.	Station services including air, water, and electrical power		X
15.	Sanitary services in the form of portable toilets	X	
16.	Supply of common trash dumpster		X
17.	Clean up of work area	X	

3.6 Other Requirements:

The contractor shall comply with the following:

- All of Contractor's employees and any Sub-Contractor's employees shall take a mandatory safety orientation provided by City of Hastings before starting work on the project. The safety orientation is required once a year and is good from Jan 1 through Dec 31 each year.
- Contractor shall comply with site LOTO policy. LOTO will be performed by City of Hastings prior to starting any work on the system.
- Contractor shall comply with site Hotwork and Confined Space policies where applicable. Owner will provide Hotwork permits.
- Contractor shall follow all relevant OSHA regulations including fall protection and trenching and shoring.
- Weekly progress meetings between Contractor's project superintendent and Project Engineer.
- Contractor shall have all underground utilities marked by putting in a ticket with Nebraska 811 before digging.

3.7 Submittal Requirements:

The contractor shall submit the following information to the owner for review:

- Product data sheets for all contractor supplied materials.
 - Structural Steel Drawings
 - Insulated Metal Panels
 - Concrete Mix
 - Rebar Drawings
 - Other materials supplied by Contractor

- Red-lined drawings indicating deviations from original drawing designs.

3.8 Project Schedule:

The plant has a planned outage scheduled for November 7, 2025 through December 4, 2025. All work activities that require access inside the bottom ash bunker shall be completed during the outage while the bottom ash conveyor system will not be in operation. Other work activities outside of the bottom ash bunker and on top of the platform can be completed during or outside of outage. Care should be taken if working in the bunker area when the plant is in operation as plant staff will be moving trucks in and out of the bunker to remove accumulated bottom ash and equipment will be energized and in operation, including conveyors, motors, and all other systems associated with operation of the Unit 1 boiler.

Work will be coordinated with electrical contractor to allow completion during scheduled outage.

Other work in the area of the bottom ash bunker includes erection of the fly ash silo north of the precipitator building, and installation of piping, aux steel, platforms, and equipment in the area south of the ash bunker between the boiler and precipitator buildings. Contractor erecting the silo equipment may need crane access by the ash bunker to install piping, steel, and equipment directly south of the ash bunker during the first two weeks of the scheduled outage (November 3 through November 13). Work will need to be coordinated between City of Hastings and contractors to avoid work conflicts.

Material and Installation Contract:

Activity	Schedule
Bid Opening	Wednesday, October 1, 2025
Anticipated Contract Award Date	Monday, October 6, 2025

Preliminary Construction Schedule:

The work under this contract will have to be coordinated with City of Hastings and other Contractors to assure the Fly Ash Silo is completed before the end of the scheduled outage. A preliminary construction schedule is shown below.

Activity	Schedule
Start of Fall Outage	Friday, November 7, 2025 at 23:59
End of Fall Outage	Thursday, December 4, 2025 at 11:59
Project Completion	Friday, December 12, 2025
Pre-Outage Construction	After contract award through November 7, 2025

3.9 Project Drawings:

The following drawings are part of the project. Vendor drawings for materials and equipment will be supplied to Contractor before the start of work. They are also available upon request. A full set of Issued For Construction drawings will be sent to the contractor electronically via Sharepoint after contract has been signed.

Drawing No.	Revision	Description
Olsson Drawings		
S001	-	GENERAL NOTES
S002	-	INSULATED METAL WALL AND ROOF PANELS
S003	-	SPECIAL INSPECTIONS
S100	-	FOUNDATION PLAN
S101	-	DEMOLITION PLAN
S102	-	FRAMING PLAN
S103	-	ROOF FRAMING PLAN
S200	-	FRAMING ELEVATIONS
S201	-	FRAMING ELEVATIONS
S202	-	FRAMING ELEVATIONS
S500	-	FOUNDATION DETAILS
S501	-	FRAMING DETAILS
S502	-	FRAMING DETAILS
S503	-	FRAMING DETAILS
M002	-	GENERAL MECHANICAL INFORMATION
M102	-	SECOND LEVEL MECHANICAL PLAN
M601	-	MECHANICAL SCHEDULES
A-S-H Drawings (for Reference – Original Project drawings)		
223340-01-E382-01	A	DESIGN ARRANGEMENT
223340-01-E382-02	A	DESIGN ARRANGEMENT
223340-01-E382-03	A	DESIGN ARRANGEMENT
223340-01-E382-04	A	DESIGN ARRANGEMENT
223340-01-E382-05	A	DESIGN ARRANGEMENT

APPENDIX A – SITE PICTURES

FOR

CONTRACT NO. HU 2025-110

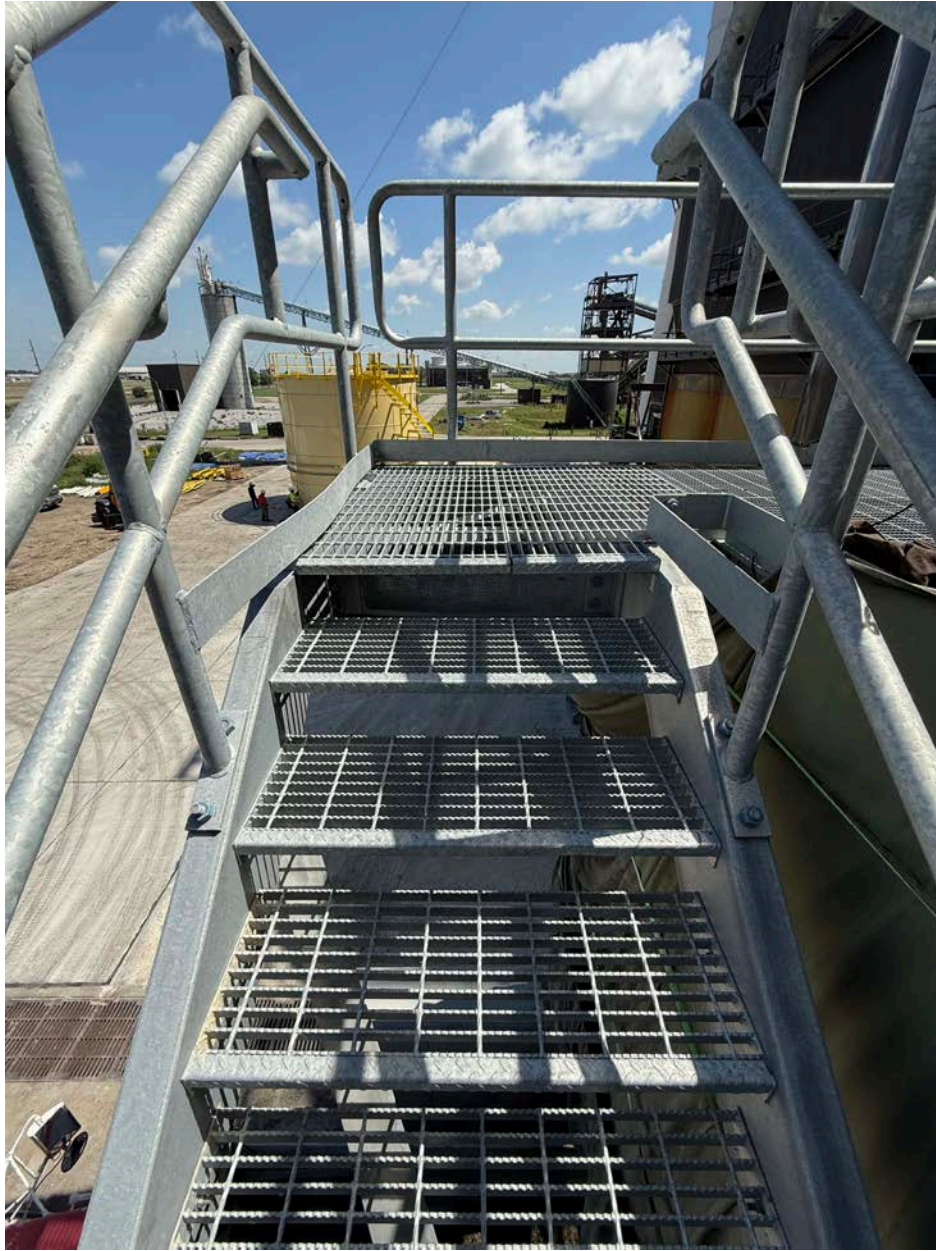
WEC1 BOTTOM ASH BUNKER ENCLOSURE

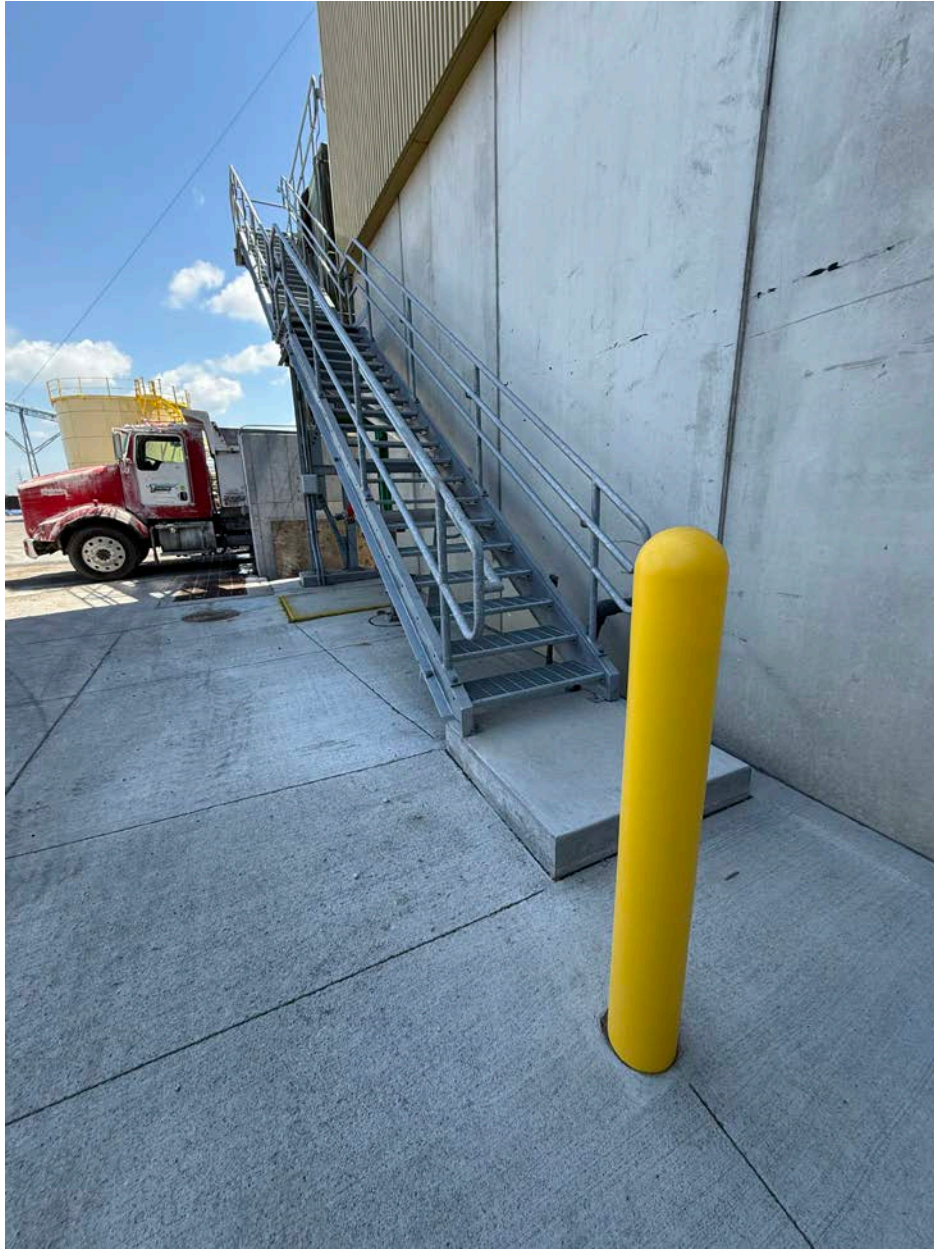
WHELAN ENERGY CENTER, UNIT I

CITY OF HASTINGS

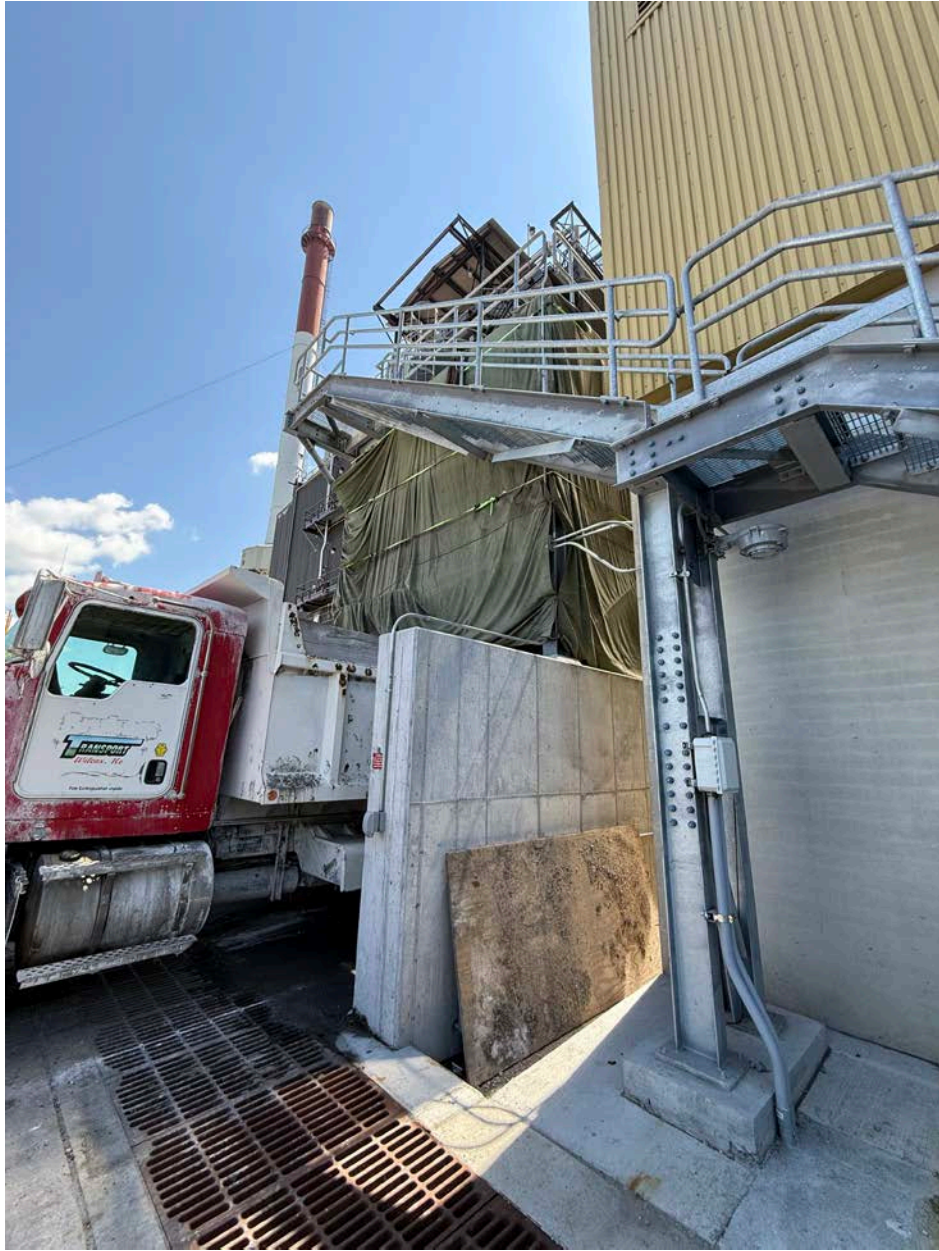
HASTINGS, NEBRASKA

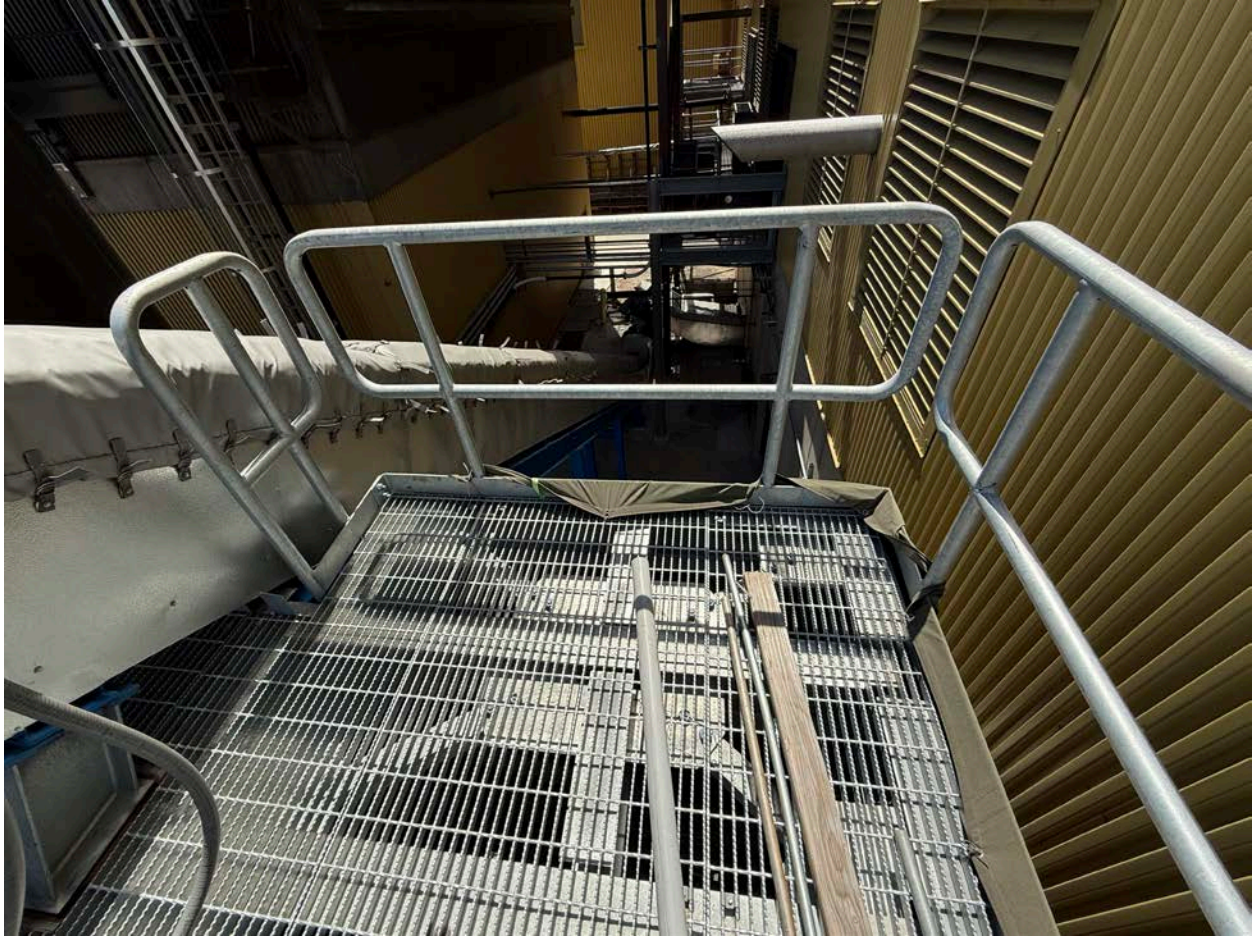


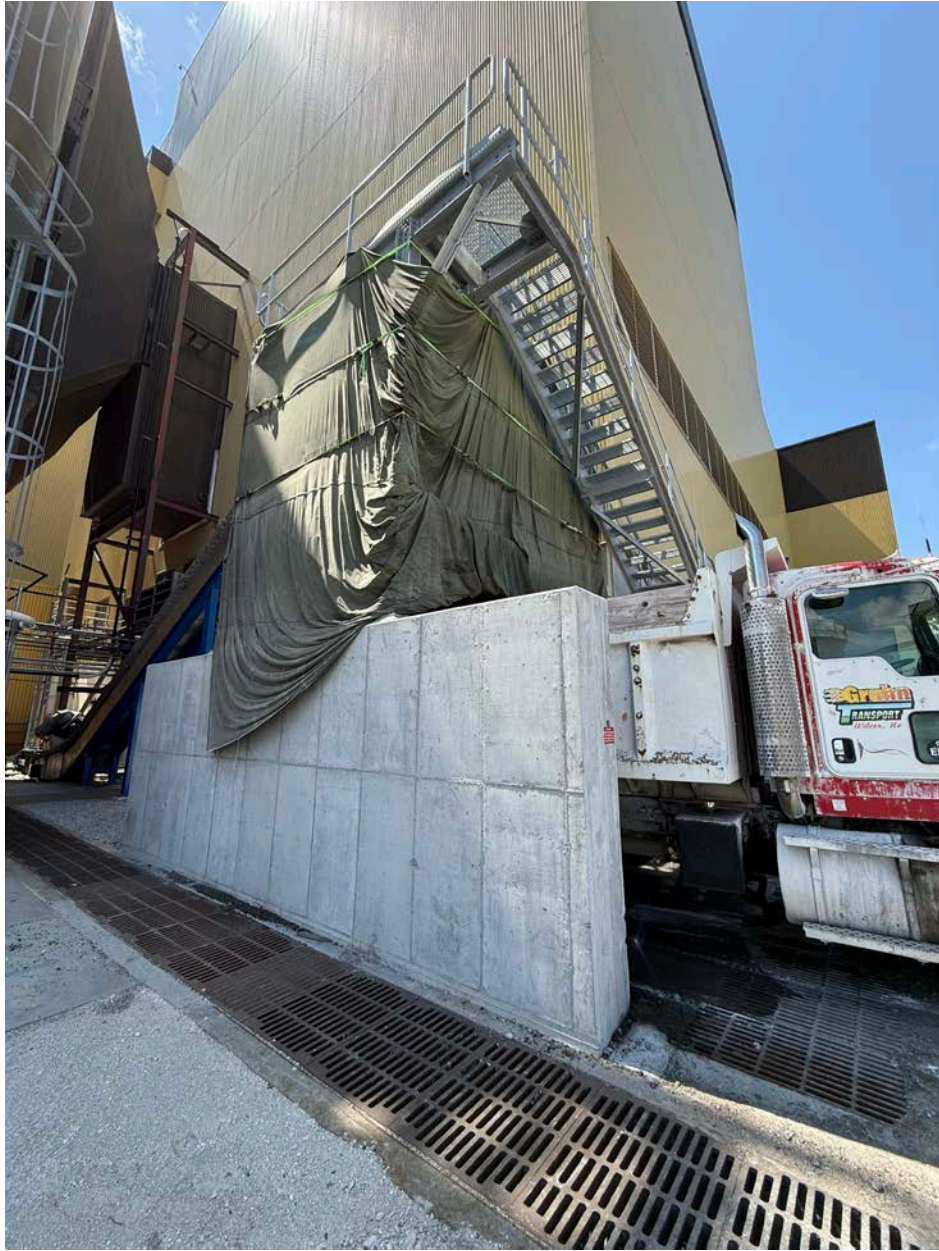
















APPENDIX B – DRAWINGS

FOR

CONTRACT NO. HU 2025-110

WEC1 BOTTOM ASH BUNKER ENCLOSURE

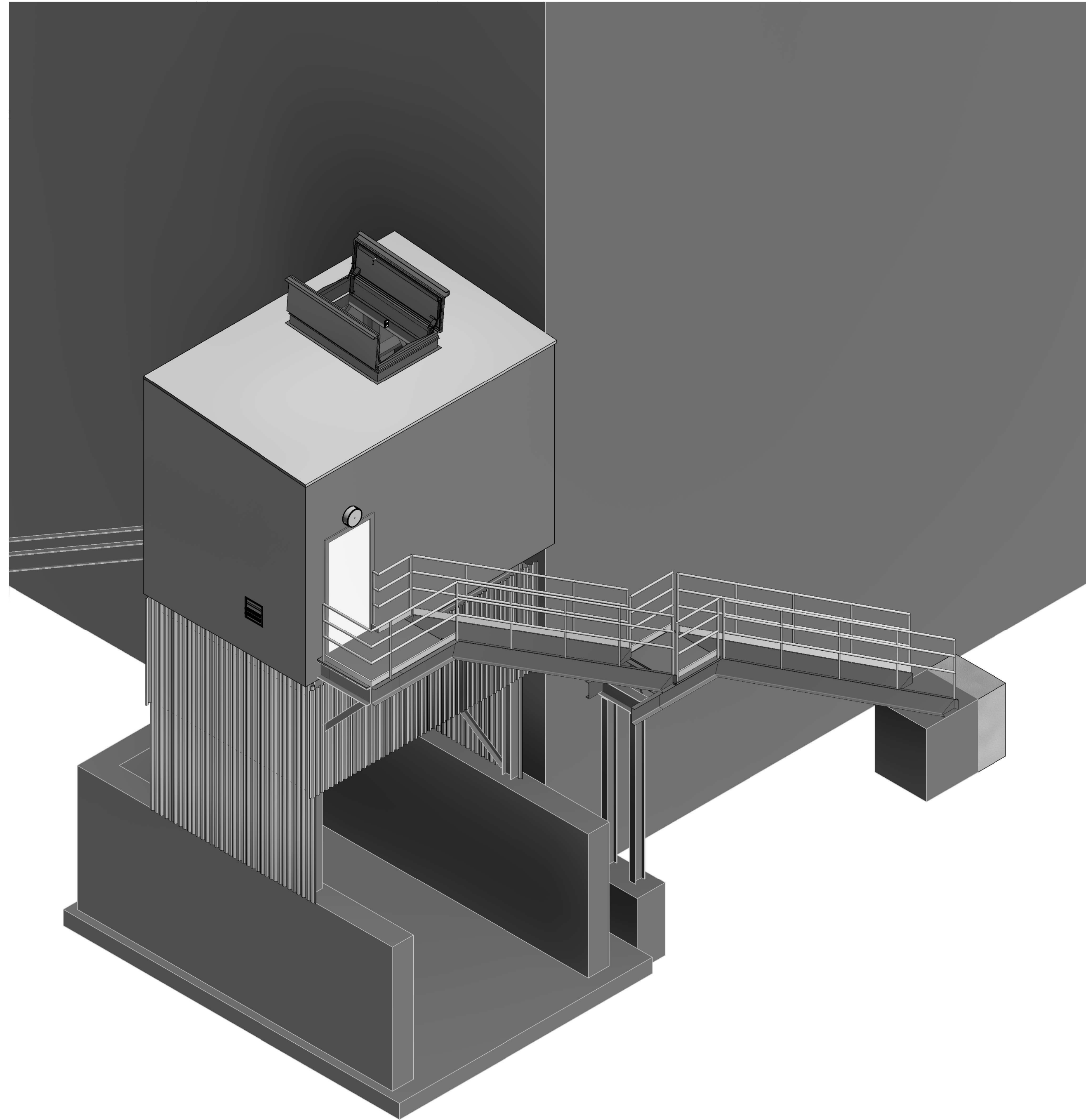
WHELAN ENERGY CENTER, UNIT I

CITY OF HASTINGS

HASTINGS, NEBRASKA

WEC 1 FLY ASH BUNKER ENCLOSURE

4250 E SOUTH ST, HASTINGS, NE 68901

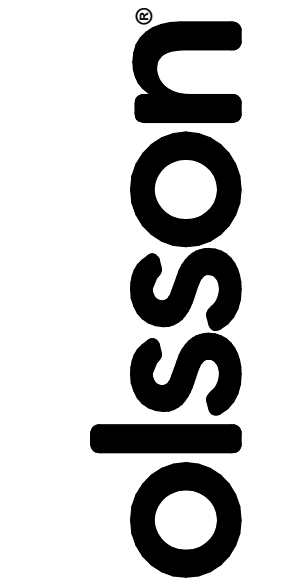


CLIENT CONTACT INFORMATION:
BRANDON MILLER
MECHANICAL ENGINEERING
CITY OF HASTINGS
PHONE: (402) 462-3653

OLSSON CONTACT INFORMATION:
GEORGE BRADLEY LITTLE, P.E.
STRUCTURAL ENGINEER OF RECORD
PHONE: (402) 951-2030

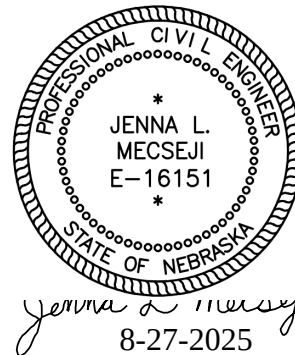
I, JENNA MECSEJI, AM THE
COORDINATING PROFESSIONAL
ON THE ASH BUNKER
ENCLOSURE PROJECT

SHEET INDEX				
	SHEET	SHEET NAME	REVISION DATE	REV
1	G001	COVER SHEET	08/27/2025	0
1	M102	SECOND LEVEL MECHANICAL PLAN	08/26/2025	0
	M001	MECHANICAL SCHEDULES	08/01/2025	0
	E001	GENERAL ELECTRICAL INFORMATION	08/04/2025	0
	E101	ELECTRICAL LIGHTING PLAN	08/04/2025	0
	E201	ELECTRICAL POWER PLAN	08/04/2025	0
1	S001	GENERAL NOTES	08/27/2025	0
	S002	INSULATED METAL WALL AND ROOF PANELS	08/27/2025	0
	S003	SPECIAL INSPECTIONS	08/27/2025	0
	S100	FOUNDATION PLAN	08/27/2025	0
	S101	DEMOLITION PLAN	08/27/2025	0
	S102	FRAMING PLAN	08/27/2025	0
	S103	ROOF FRAMING PLAN	08/27/2025	0
	S200	FRAMING ELEVATIONS	08/27/2025	0
	S201	FRAMING ELEVATIONS	08/27/2025	0
	S202	FRAMING ELEVATIONS	08/27/2025	0
	S500	FOUNDATION DETAILS	08/27/2025	0
	S501	FRAMING DETAILS	08/27/2025	0
	S502	FRAMING DETAILS	08/27/2025	0
	S503	FRAMING DETAILS	08/27/2025	0



601 P Street, Suite 200
P.O. Box 84608
Lincoln, NE 68508

olsson.com
TEL 402.474.6311
FAX 402.474.5063
Olsson - Engineering
Nebraska COA #CA-0638

[illegible]

COVER SHEET	
HASTINGS NE ASH BUNKER ENCLOSURE 4250 E SOUTH ST. HASTINGS, NE 68901	
HASTINGS, NE	2025

drawn by: _____ IJR
checked by: _____ ZJB
project no.: _____ 025-02657
date _____ 08-27-2025

SHEET
GI001

BUILDING CODE AND STANDARDS 2018 INTERNATIONAL BUILDING CODE (IBC 2018) WITH STANDARDS AS REFERENCED IN IBC CHAPTER 35. 2012 NFPA 101 LIFE SAFETY CODE RISK CATEGORY II STRUCTURAL DESIGN LOADS: DEAD LOAD ACTUAL WEIGHTS OF MATERIALS AND CONSTRUCTIONS FLOOR LIVE & MISCELLANEOUS LOADS WALKWAYS AND ELEVATED PLATFORMS STAIRS AND EXITS RAILING (LATERAL LOAD AT TOP) 60 PSF 100 PSF 50 PLF 300 LB 200 LB ROOF LIVE LOAD 20 PSF SNOW DESIGN DATA GROUND SNOW LOAD, P_g FLAT ROOF SNOW LOAD, P_f MINIMUM SNOW LOAD FOR LOW-SLOPE ROOFS, P_m SNOW EXPOSURE FACTOR, C_e SNOW LOAD IMPORTANCE FACTOR, I_s THERMAL FACTOR, C_t DRIFT SURCHARGE LOAD DRIFT WIDTH 25 PSF 18 PSF 20 PSF 1.0 1.0 76 PSF 18 FT WIND DESIGN DATA BASIC DESIGN WIND SPEED, V_{ult} ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} WIND EXPOSURE INTERNAL PRESSURE COEFFICIENT, GC_{pi} 111 MPH 86 MPH C ±0.55 EARTHQUAKE DESIGN DATA SEISMIC IMPORTANCE FACTOR, I_s SITE CLASS SPECTRAL RESPONSE COEFFICIENTS DESIGN SPECTRAL RESPONSE COEFF'S SEISMIC DESIGN CATEGORY SEISMIC FORCE-RESISTING SYSTEM 1.0 D S_s = 0.077 g; S₁ = 0.041 g S_{0.5} = 0.082 g; S_{0.1} = 0.065 g A STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE V_g = 0.42 K C_s = 0.03 R = 3 EQUIVALENT LATERAL FORCE PROCEDURE MATERIAL DATA: CONCRETE & REINFORCING CONCRETE WEIGHT C.I.P. CONCRETE STRENGTH CEMENT TYPE AGGREGATES ADMIXTURES AIR-ENTRAINMENT REINFORCING STEEL NON-SHRINK GROUT (8,000 PSI, MIN.) NORMAL WEIGHT CONCRETE - TYPICAL, UON 4,000 PSI (MIN f_c, AT 28 DAYS) ORDINARY PORTLAND CEMENT (OPC) TYPE III - ASTM C150 REGULAR WEIGHT HARDROCK TYPE - ASTM C33 ASTM C494 ASTM C280 ASTM A615, GRADE 60, DEFORMED ASTM C1107, FACTORY PREMIXED STEEL W AND WT SHAPES PLATES ANGLES C AND MC SHAPES HSS SQUARE AND RECTANGULAR TUBES ANCHOR RODS HIGH STRENGTH BOLTS WASHERS FOR HIGH STRENGTH BOLTS HEAVY HEX NUTS STICK ELECTRODES ASTM A992 ASTM A572, GRADE 50 ASTM A572, GRADE 50 ASTM A992 ASTM A500, GRADE C, F_y = 50 ksi ASTM F1554, GRADE 55 WITH SUPPLEMENT S1 ASTM F3125, GRADE 325, TYPE 1, UON ASTM F436 ASTM A563 AWS CLASS E70XX AWS CLASS E6010 OR E6011 (GALV. SURFACES)		GENERAL NOTES 1. OLSSON SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CHARGE OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR THE SAFETY OF THE CONCRETE FLOOR AND SLAB CONSTRUCTION CONNECTION WITH THIS PROJECT AND SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 2. OLSSON SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OVER, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. 3. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. ALL SHORING AND BRACING MEMBERS AND CONNECTIONS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE IMPOSED LOADS. TEMPORARY MEMBERS AND CONNECTIONS SHALL NOT BE REMOVED UNTIL PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE. 4. THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS. 5. NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO, REVISIONS DUE TO MIS-LOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS. 6. NO OPENING SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAN AS INDICATED ON APPROVED SHOP DRAWINGS) UNTIL THE LOCATION HAS BEEN APPROVED BY THE STRUCTURAL ENGINEER. 7. ALL ROOF MOUNTED EQUIPMENT OR EQUIPMENT SUSPENDED FROM FLOORS OR ROOFS SHALL BE SUPPORTED BY BEAMS DESIGNATED FOR SUCH PURPOSE ONLY. IF NO SUPPORT HAS BEEN DESIGNATED, OR IF A QUESTION ARISES, NOTIFY THE STRUCTURAL ENGINEER PRIOR TO ERECTION OF EQUIPMENT. 8. MATERIALS AND EQUIPMENT SHALL BE STORED AND TRANSPORTED IN A MANNER SO AS NOT TO EXCEED THE ALLOWABLE CAPACITY OF THE CONSTRUCTION. 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND PROVISION OF ANY AND ALL TEMPORARY BRACING AND SHORING AGAINST WIND, ERECTION AND ALL CONSTRUCTION LOADS UNTIL ALL ELEMENTS, MEMBERS, AND CONNECTIONS (FLOORS, ROOF, SHEAR WALLS, ETC.) AS SHOWN ON THE CONTRACT DOCUMENTS ARE COMPLETELY INSTALLED. THE STRUCTURAL MEMBERS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNED FOR THE ANTICIPATED LOADS THAT THE STRUCTURE WILL BE SUBJECTED TO ONLY AFTER ALL STRUCTURAL ELEMENTS ARE IN PLACE AND FINAL CONNECTIONS ARE COMPLETE. 10. THE ENGINEER HAS ASSUMED THAT THE EXISTING CONSTRUCTION WAS DESIGNED AND CONSTRUCTED IN CONFORMITY WITH GOOD PRACTICES. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY INCLUDING BRACING OR SHORING TO PREVENT DAMAGE AND/OR SETTLEMENT TO THE EXISTING STRUCTURE. FURTHERMORE, THEY SHALL AGREE TO ASSUME ALL RESPONSIBILITY FOR THE PRESERVATION OF THE EXISTING STRUCTURE. 11. IF DURING CONSTRUCTION, MOVEMENTS OR SETTLEMENTS OF THE EXISTING STRUCTURE ARE OBSERVED, TAKE PRECAUTIONS NECESSARY TO SECURE THE SAFETY OF THE SUBJECT AND/OR ADJOINING PREMISES, AND CONTACT THE ENGINEER. 12. THE EXISTING INFORMATION SHOWN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED INSOFAR AS BUILDING CONSTRUCTION AND EXISTING CONDITIONS ARE CONCERNED. EXTREME ACCURACY IS NOT GUARANTEED. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED FOR THE ASSISTANCE OF THE CONTRACTOR IN ACHIEVING THE END RESULTS. MANY OF THE DIMENSIONS AND CONDITIONS NOTED ON THE DRAWINGS ARE BASED ON INFORMATION OBTAINED FROM THE ORIGINAL DRAWINGS AND MAY OR MAY NOT BE CORRECT. EXACT LOCATIONS, MEASUREMENTS, DISTANCES, LEVELS, ETC. WILL BE GOVERNED BY CONDITIONS AT THE JOB SITE. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING EXISTING MEMBER SIZES, DIMENSIONS, AND ELEVATIONS WHICH AFFECT WORK TO BE PERFORMED AS PART OF THIS PROJECT, PRIOR TO ANY NEW CONSTRUCTION OR MATERIAL FABRICATION. ALL FIELD VERIFIED DIMENSIONS AND DISCREPANCIES MUST BE SHOWN ON THE STRUCTURAL SHOP DRAWINGS OR ON A SEPARATE SUBMITTAL SO THAT THE STRUCTURAL ENGINEER CAN MAKE ANY ADJUSTMENT IN MEMBER SIZES OR DETAILS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTRUCTION CHANGES WHICH ARE A RESULT OF EXISTING JOB SITE CONDITIONS, AND WHICH ARE NOT ACCURATELY DOCUMENTED FOR THE OWNER IMMEDIATELY AFTER THE CONTRACTOR'S FIELD VERIFICATION EFFORTS. FOUNDATIONS 1. !!STOP!! CALL BEFORE YOU DIG! THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "811" AND COORDINATE FIELD LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. NOTIFY THE STRUCTURAL ENGINEER WHENEVER CONFLICTS ARE ENCOUNTERED. THE CONTRACTOR SHALL PROTECT ANY EXISTING UTILITIES FROM DAMAGE OR INTERRUPTION DURING CONSTRUCTION. 2. SUBSOIL INVESTIGATIONS HAVE NOT BEEN MADE; THEREFORE, THE FOOTINGS HAVE BEEN DESIGNED FOR THE ASSUMED BEARING PRESSURE BELOW. IF, DURING EXCAVATION, ANY MATERIAL OR CONDITION IS ENCOUNTERED WHICH MIGHT INDICATE A LOWER BEARING PRESSURE THAN ASSUMED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHO WILL THEN REVISE THE DESIGN. 3. BEAR FOOTINGS ON NATURAL SOILS OR SUITABLE COMPACTED FILL MATERIALS. ALL FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE NET BEARING PRESSURE OF 1,500 PSF. NO FOOTINGS SHALL BE PLACED ON FROZEN SOILS. 4. REMOVE ALL TOPSOIL, RUBBLE, AND TREE ROOTS MORE THAN 2-INCH IN DIAMETER WITHIN THE ZONE OF EXCAVATION. SOILS BELOW FOOTING LEVEL DISTURBED BY GRUBBING SHALL BE RECOMPACTED TO 95 PERCENT OF MAXIMUM DENSITY PER ASTM D 698. 5. SHOULD UNSUITABLE BEARING CONDITIONS BE ENCOUNTERED DURING EXCAVATION, NOTIFY THE OWNER AND STRUCTURAL ENGINEER BEFORE CONTINUING WITH CONSTRUCTION. 6. THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR RE-PREPARATION AND RE-APPROVAL OF THE SUBGRADE. 7. RECORDS OF ANY EXISTING SUBGRADE INTERFERENCES ARE NOT CURRENTLY AVAILABLE. DURING EXCAVATION WORK, INTERFERENCES MAY BE DISCOVERED. CONTRACTOR SHALL DOCUMENT CONSTRUCTION-RELATED DIMENSIONS OF ALL INTERFERENCES. CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE STRUCTURAL ENGINEER FOR REVIEW.	STRUCTURAL CONCRETE 1. CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF: A. ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" B. ACI 302.1R "GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION" C. ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE" D. ACI 311.1R "MANUAL OF CONCRETE INSPECTION" E. ACI 315R "GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS" F. ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" G. ACI 347 "GUIDE TO FORMWORK FOR CONCRETE" 2. SUBMIT A CONCRETE MIX DESIGN FOR EACH CLASS OF CONCRETE FOR APPROVAL BY THE PROJECT ENGINEER. THE MIX DESIGN SHALL INCLUDE THE PROPORTIONS AND TEST RESULTS OR CERTIFICATIONS FOR ALL COMPONENTS OF THE MIX IN ACCORDANCE WITH THE LATEST ACI 301. SUBMIT DOCUMENTED RESULTS OF "FIELD TEST DATA" OR "TRIAL MIXTURES" IN ACCORDANCE WITH ACI 301 FOR EACH CLASS OF CONCRETE TO BE USED. THE MIX DESIGNS SHALL MEET THE GUIDELINES AS LISTED IN THE "MATERIAL DATA" SECTION, EXCEPT AS APPROVED BY THE PROJECT ENGINEER. 3. THE COARSE AGGREGATE IN NORMAL WEIGHT CONCRETE MIXES SHALL BE LIMESTONE AND THE LIMESTONE SHALL MAKE UP APPROXIMATELY 30% OF THE WEIGHT OF ALL THE AGGREGATE IN THE MIX, UNLESS OTHERWISE APPROVED BY THE ENGINEER. 4. THE ADDITION OF WATER TO THE MIX ON SITE WILL NOT BE ALLOWED, UNLESS SPECIFICALLY APPROVED. 5. CONCRETE MAY NOT BE PLACED DURING FREEZING WEATHER UNLESS SUITABLY PROTECTED, PER ACI 306.1. CONFORM TO ACI 305.1 FOR HOT WEATHER CONCRETING. 6. THE CONTRACTOR SHALL SUBMIT CHECKED, DETAILED REINFORCEMENT SHOP DRAWINGS SHOWING THE LOCATIONS AND DETAILING OF ALL FOOTINGS, WALLS, PIERS, BEAMS, COLUMNS, SLABS, CONSTRUCTION JOINTS, CONTROL JOINTS, ETC. PRIOR TO FABRICATION. DETAILS SHALL INCLUDE BAR SIZES, LAPS, SPACING, AND PLACEMENT. 7. THE MINIMUM CONCRETE COVER FOR CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE SHALL BE IN ACCORDANCE WITH THE FOLLOWING: A. CONCRETE CAST AGAINST PERMANENTLY EXPOSED TO EARTH: 3" B. CONCRETE EXPOSED TO EARTH OR WEATHER: 3" a. NO 6 THROUGH NO 18 BARS 2" b. NO 5 BAR, W31 OR D31 WIRE, AND SMALLER 1 1/2" C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: a. SLABS, WALLS, JOISTS: 1 1/2" • NO 14 AND NO 18 BARS 3/4" • NO 11 BAR AND SMALLER 3/4" b. BEAMS, COLUMNS: 1 1/2" • PRIMARY REINFORCEMENT 1 1/2" c. TIES, STIRRUPS, SPIRALS 1 1/2" 8. PROVIDE LAP SPLICES AS INDICATED BELOW UNLESS OTHERWISE NOTED IN THE DRAWINGS. <table><tr><th>BAR SIZE</th><th>SPLICE LENGTH: TOP BARS</th><th>SPLICE LENGTH: OTHER BARS</th></tr><tr><td>#3</td><td>1'-3"</td><td>1'-0"</td></tr><tr><td>#4</td><td>1'-8"</td><td>1'-3"</td></tr><tr><td>#5</td><td>2'-5"</td><td>1'-10"</td></tr><tr><td>#6</td><td>3'-4"</td><td>2'-7"</td></tr><tr><td>#7</td><td>4'-0"</td><td>3'-1"</td></tr><tr><td>#8</td><td>5'-0"</td><td>3'-11"</td></tr><tr><td>#9</td><td>6'-5"</td><td>4'-11"</td></tr><tr><td>#10</td><td>7'-10"</td><td>6'-1"</td></tr><tr><td>#11</td><td>9'-6"</td><td>7'-4"</td></tr></table> * TOP BAR CONDITION OCCURS WHERE HORIZONTAL REINFORCEMENT IS PLACED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE SPLICE. 9. UNLESS DETAILED OTHERWISE, BEND DIAMETERS AND HOOK LENGTHS FOR "STANDARD HOOKS" USED FOR STIRRUPS, TIES, AND HOOPS SHALL BE AS SHOWN IN ACI 318-14, TABLE 25.3.2. BEND DIAMETERS AND HOOK LENGTHS FOR "STANDARD HOOKS" EMBEDDED INTO FOOTINGS SHALL BE PER TABLE 25.3.1. (SEE DRAWINGS FOR EMBEDMENT LENGTH OF HOOK INTO FOOTING). 10. ALL EXPOSED CONCRETE EDGES SHALL HAVE 3/4" CHAMFERS.	BAR SIZE	SPLICE LENGTH: TOP BARS	SPLICE LENGTH: OTHER BARS	#3	1'-3"	1'-0"	#4	1'-8"	1'-3"	#5	2'-5"	1'-10"	#6	3'-4"	2'-7"	#7	4'-0"	3'-1"	#8	5'-0"	3'-11"	#9	6'-5"	4'-11"	#10	7'-10"	6'-1"	#11	9'-6"	7'-4"	STRUCTURAL STEEL 1. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDING AND BRIDGES". 2. THE STEEL FABRICATOR/ERECTOR SHALL DOCUMENT ANY CONSTRUCTION RELATED DISCREPANCIES AND SHALL FURNISH SAID INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE STRUCTURAL ENGINEER FOR REVIEW. THERE SHALL BE RESOLUTION TO THE NOTED DISCREPANCIES PRIOR TO FABRICATION OF ANY NEW STRUCTURAL ELEMENTS. 3. THE FABRICATOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING FABRICATION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL ELEMENTS. 4. ALL BEAMS AND JOISTS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. 5. ALL WELDING SHALL BE PERFORMED BY CERTIFIED/QUALIFIED WELDERS AND SHALL CONFORM TO THE LATEST EDITION OF AWS D1.1 "STRUCTURAL WELDING CODE - STEEL". 6. BOLTS ARE TO BE TIGHTENED TO THE "SNUG TIGHT" CONDITION, UNLESS OTHERWISE NOTED. SNUG TIGHT IS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT AND MAY BE ACHIEVED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. 7. BOLTS DESIGNATED AS "PRETENSIONED" OR "SLIP CRITICAL" ARE TO BE TIGHTENED IN ACCORDANCE WITH AN APPROVED METHOD OUTLINED IN THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. 8. SURFACE PREPARATION/PAINTING: A. SURFACE SHALL BE CLEANED IN ACCORDANCE WITH SSPC-6, COMMERCIAL BLAST CLEANING. B. FINISH: HOT DIP GALVANIZING PER ASTM 123. BOLTS SHALL BE GALVANIZED BY MECHANICAL DEPOSIT ACCORDING TO ASTM B695, CLASS 55, TYPE 1. MISCELLANEOUS STEEL 1. ALL GRATINGS SHALL BE 1 1/4"x3/16" GALVANIZED WELDED BAR TYPE W-19-4 OR APPROVED EQUAL, UNLESS OTHERWISE NOTED. 2. GRATING SHALL SPAN AS INDICATED ON THE DESIGN DRAWINGS. BEARING AND TWISTED BARS SHALL BE ALIGNED. 3. GRATING SHALL BE BANDED AT OPENINGS IN PLATFORMS AROUND REMOVABLE PANELS OR AT LOCATIONS CALLED FOR ON THE DESIGN DRAWINGS. CHECKER PLATE NOSING SHALL BE PROVIDED AT TOP OF ALL STAIRS. 4. GRATING SHALL BE NEATLY CUT AND FITTED AROUND COLUMNS, EQUIPMENT SUPPORT LEGS, PIPING, DUCTION, ETC. TOE PLATE MAY BE REQUIRED AT SPECIFIC LOCATIONS PER IBC AND OSHA REQUIREMENTS. 5. STEEL STAIRS, LADDERS, HANDRAILS, AND OTHER MISCELLANEOUS DETAILS SHALL CONFORM TO THE STANDARD DETAILS SHOWN ON THE DRAWINGS. 6. ALL CHECKER PLATE SHALL BE 1/4" THICK, UNLESS OTHERWISE NOTED. A. FIXED CHECKER PLATE IS TO BE WELDED TO STRUCTURAL STEEL WITH 3/16" STITCH WELDS AT EDGES 4" LONG AT 24" OC, PLUS 3/4" SLOT WELDS AT 24" OC FOR ALL INTERIOR SUPPORTS. B. REMOVABLE CHECKER PLATE IS TO BE DRILLED AND COUNTERSUNK FOR FASTENING TO STRUCTURAL STEEL WITH 3/8"x1" FLAT HEAD SOCKET CAP SCREWS AT 24" OC MAXIMUM PLUS 2" EACH CORNER. 7. PROVIDE MISCELLANEOUS SUPPORT STEEL FOR GRATING WHERE GRATING BEARING AREA ON BEAM TOP FLANGE IS OBSTRUCTED BY EQUIPMENT OR OTHER STEEL. 8. ALL KICK PLATES SHALL EXTEND A MINIMUM OF 4" ABOVE WALKING SURFACE WITH A MAXIMUM OF 1/4" BETWEEN KICKPLATE AND FINISHED FLOOR. 9. PROVIDE GALVANIZED FASTENERS FOR ALL BOLTED CONNECTIONS WHERE ONE OR MORE MEMBERS OR ELEMENTS ARE OF GALVANIZED MATERIAL. 10. MISCELLANEOUS ANCHOR BOLTS, EXPANSION ANCHORS, AND FASTENERS NOT INDICATED, BUT REQUIRED FOR ANCHORAGE OF EQUIPMENT AND MATERIALS, SHALL BE PROVIDED (AS RECOMMENDED BY MANUFACTURER OF ITEMS), ANCHORAGE WILL BE SUBJECT TO REVIEW BY ENGINEER. 11. ALL STAIRS SHALL BE PROVIDED AS WELDED UNITS. ALL STAIR STRINGERS TO BE C12X25, UNLESS OTHERWISE NOTED. ALL SPLICES IN STRINGERS SHALL BE FULL PENETRATION (CJP) BUTT OR GROOVE WELDED. ALL STAIR TREADS SHALL BE PROVIDED WITH NON-SLIP NOSING. 12. ALL GUARDRAIL POSTS TO BE HSS2X2X1/8, UNLESS OTHERWISE NOTED. ALL GUARDRAIL HORIZONTALS SHALL BE ROUND HSS1.66X0.109, UNLESS OTHERWISE NOTED. SHIP GUARDRAIL AS SEPARATE UNITS FOR FIELD WELDING. 13. ALL STAIR FLIGHTS LONGER THAN 8'-0" SHALL BE Laterally Braced With L3X3X1/4 ANGLES AFFIXED TO UNDERSIDE OF BOTTOM FLANGE ON STRINGER.	METAL SIDING 1. SUBMIT MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING: A. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS. B. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS. C. INSTALLATION METHODS. 2. PROVIDE COMPLETE ERECTION DRAWINGS FOR THE PROPER IDENTIFICATION AND ASSEMBLE OF PANEL COMPONENTS. DRAWINGS WILL SHOW FLASHING, SHEETING, AND ACCESSORY INSTALLATION DETAILS. 3. DELIVERY AND ACCEPTANCE REQUIREMENTS: DELIVER MATERIALS TO SITE IN MANUFACTURER'S ORIGINAL, UNOPENED CONTAINERS AND PACKAGING, WITH LABELS CLEARLY IDENTIFYING PRODUCT NAME AND MANUFACTURER. 4. STORAGE AND HANDLING REQUIREMENTS: A. STORE AND HANDLE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. B. KEEP MATERIALS IN MANUFACTURER'S ORIGINAL, UNOPENED CONTAINERS AND PACKAGING UNTIL INSTALLATION. C. DO NOT STORE MATERIALS DIRECTLY ON GROUND. D. STORE MATERIALS ON FLAT, LEVEL SURFACE, RAISED ABOVE GROUND, WITH ADEQUATE SUPPORT TO PREVENT SAGGING. E. PROTECT MATERIALS AND FINISH DURING STORAGE, HANDLING, AND INSTALLATION TO PREVENT DAMAGE. 5. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE THE MANUFACTURER'S ABSOLUTE LIMITS. 6. WALL PAINT FINISH WARRANTY A. PAINT SYSTEMS a. FURNISH MANUFACTURER'S STANDARD WARRANTY FOR THE METAL PANEL PAINT SYSTEM AGAINST CHIPPING, PEELING, BLISTERING, AND FADING. 1. COLOR FADING EXCEEDING Δ5 HUNTER "NBS" UNITS, AS DEFINED BY ASTM D2244, WHICH UTILIZES THE NATIONAL BUREAU OF STANDARDS (NBS) SYSTEM FOR EXPRESSING COLOR DIFFERENCES. 2. CHALKING IN EXCESS OF 8 UNITS AS SET FORTH IN ASTM D4214. B. THE WARRANTY SHALL BE FOR A PERIOD OF 35 YEARS FROM THE DATE OF SHIPMENT FOR 70% PVDF COOL COATING (POLYVINYLIDENE FLUORIDE) PAINT SYSTEMS. C. THE WARRANTY SHALL BE FOR A PERIOD OF 25 YEARS FROM THE DATE OF SHIPMENT FOR SP COOL COATING (SILICONE-MODIFIED POLYESTER) PAINT SYSTEMS. 8. PANEL FASTENERS: A. FOR WALL PANELS: COATED CARBON STEEL. B. THE COLOR OF EXPOSED FASTENER HEADS TO MATCH THE WALL AND ROOF PANEL FINISH. C. CONCEALED FASTENERS: SELF-DRILLING TYPE, OF SIZE REQUIRED. 9. FLASHING AND TRIM: MATCH MATERIAL, FINISH, AND COLOR OF ADJACENT COMPONENTS. PROVIDE TRIM AT RAKES, INCLUDING PEAK AND CORNER ASSEMBLIES, HIGH AND LOW LEAVES, CORNERS, BASES, FRAMED OPENINGS, AND AS REQUIRED OR SPECIFIED TO PROVIDE WEATHER TIGHTNESS AND A FINISHED APPEARANCE. 10. SEALANT AND CLOSURES: A. SIDELAPS: FACTORY APPLIED NON-SKINNING BUTYL MASTIC. B. ENDLAPS, EAVE, RIDGE ASSEMBLY, AND GABLE FLASHINGS: FIELD APPLIED 100% SOLIDS BUTYL-BASED ELASTOMERIC TAPE SEALANT, FURNISHED IN PRE-CUT LENGTHS. C. OUTSIDE CLOSURES: CLOSED-CELL, PLASTIC, OR METAL. D. INSIDE CLOSURES: CLOSED-CELL, PLASTIC, OR METAL. 11. PRODUCT: R-PANEL WALL PANEL: THROUGH-FASTENED SIDEWALL PANEL WITH 1 1/4 INCH (32MM) RIBS AT 12 INCHES (305MM) ON CENTER. THE AREA BETWEEN THE RIBS IS REINFORCED TO MINIMIZE OIL-CANNING GAUGE: 24 DIMENSIONS: 36 INCHES (915MM) WIDE BY 1 1/4 INCH (32MM) HIGH 12. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT.	GENERAL NOTES WEC 1 FLY ASH BUNKER ENCLOSURE 4250 E SOUTH ST., HASTINGS, NE 68901 HASTINGS, NE 2025	olsson® 2111 South 67th Street Suite 200 Omaha, NE 68106 olsson.com TEL 402.341.1116 FAX 402.341.5895 Olsson - Engineering Nebraska COA #CA-0638  <table><tr><td>BY</td><td>PMG</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>REVISION DESCRIPTION</td><td>ISSUED FOR CONSTRUCTION</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>REV. 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IBC SCHEDULE OF SPECIAL INSPECTION SERVICES				
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS
	CONTINUOUS	PERIODIC		
GENERAL				
CONDUCT WEEKLY VISUAL OBSERVATIONS OF THE STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS AND PREPARE WEEKLY REPORTS OF OBSERVATIONS DESCRIBING WORK PROGRESS AND NON-CONFORMING ITEMS		×		
EARTHWORK				
VERIFY MATERIAL BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		×	IBC: TABLE 1705.6	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		×	IBC: TABLE 1705.6	ALL FOOTING AND PILE CAP EXCAVATIONS SHALL BE OBSERVED AND APPROVED PRIOR TO CONCRETE PLACEMENT
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		×	IBC: TABLE 1705.6	TEST EACH SOURCE
DURING FILL PLACEMENT, VERIFY USE OF PROPOER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT, VERIFY DENSITIES AND LIFT THICKNESSES FURING PLACEMENT AND COMPACTION OF COMPACTED FILL	×		IBC: TABLE 1705.6	
DURING PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		×	IBC: TABLE 1705.6	
TESTING AND EVALUATION OF IN-PLACE DENSITY OF COMPACTED FILL AS WORK PROGRESSES		×		ONE DENSITY TEST FOR EACH LIFT, DAYS OPERATION, OR 5000 SQ. FT. OF FILL AREA

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES				
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS
	CONTINUOUS	PERIODIC		
CONCRETE				
INSPECT REINFORCEMENT AND VERIFY PLACEMENT PRIOR TO CLOSING OF FORMS AND ARRIVAL OF CONCRETE TO THE JOB-SITE		×	IBC: 1908.4 ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	
VERIFY USE OF REQUIRED MIX DESIGN		×	IBC: 1904.1, 1904.2, 1908.2, 1908.3 ACI 318: CH. 19, 26.4.3, 26.4.4	
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	×		IBC: 1908.10 ASTM: C172, C31 ACI 318: 28.5, 26.12	ADDITIONAL CYLINDERS SHALL BE MADE AS NEEDED FOR EARLY FORM REMOVAL. NOTE TWO 6X12 OR 4X8 CYLINDERS ARE REQUIRED FOR AN ACCEPTABLE TEST.
SAMPLE CONCRETE SPECIMENS FOR STRENGTH TESTS TO BE PERFORMED IN LAB. A MINIMUM OF FIVE (5) CYLINDERS SHALL BE MADE. TEST TWO AT 7 DAYS AND TWO AT 28 DAYS. THE 5TH CYLINDER SHALL BE HELD IN RESERVE.	×			OBTAIN 1 COMPOSITE SAMPLE FOR EACH 100 YD ³ OR FRACTION THEREOF OF EACH CONCRETE MIX PLACED EACH DAY. WHEN TESTING FREQUENCY WILL PROVIDE FEWER THAN 5 TESTS FOR EACH MIX, TESTING SHALL BE CONDUCTED FROM AT LEAST 5 RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN 5 ARE USED.
PERFORM CONCRETE STRENGTH TESTING		×		
MAINTAIN A SPREADSHEET SHOWING DATE, SEQUENTIAL ORDER OF STRENGTH TEST RESULTS, AND INDICATE RUNNING AVERAGE	×		ACI 318 PAR. 6.2	
INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	×		IBC: 1908.6, 1908.7, 1908.8 ACI 318: 28.5	
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		×	IBC: 1908.9 ACI 318: 26.5.3-26.5.5	
VERIFY THAT THE NECESSARY DESIGN STRENGTH HAS BEEN REACHED PRIOR TO THE REMOVAL OF FORMS		×		
INSPECT CONCRETE FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		×	ACI 318: 26.11.1.2(b)	
STRUCTURAL STEEL				
VISIT FABRICATION SHOP TO OBSERVE FABRICATION PROCEDURES		×		ONLY ONE INSPECTION IS REQUIRED UNLESS ON-SITE EVENTS INDICATE FURTHER INSPECTIONS ARE NECESSARY
VERIFY FABRICATOR CERTIFICATION		×		
VERIFY CORRECT STRUCTURAL STEEL MATERIAL DELIVERED TO JOB SITE.		×		
VERIFY WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	×		AISC 360: TABLE N5.4-1	
VERIFY MANUFACTURERS CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	×		AISC 360: TABLE N5.4-1	
VERIFY MATERIAL IDENTIFICATIONS (TYPE/GRADE)		×	AISC 360: TABLE N5.4-1	
OBSERVE WELDER IDENTIFICATION SYSTEM		×	AISC 360: TABLE N5.4-1	THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.
OBSERVE CONFIGURATION AND FINISH OF ACCESS HOLES		×	AISC 360: TABLE N5.4-1	
OBSERVE FIT-UP OF FILLET WELDS, DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)		×	AISC 360: TABLE N5.4-1	
OBSERVE USE OF QUALIFIED WELDERS		×	AISC 360: TABLE N5.4-1	
OBSERVE CONTROL AND HANDLING OF WELDING CONSUMABLES, (PACKAGING AND EXPOSURE CONTROL)		×	AISC 360: TABLE N5.4-2	
VERIFY NO WELDING OVER CRACKED TACK WELDS		×	AISC 360: TABLE N5.4-2	
OBSERVE ENVIRONMENTAL CONDITIONS (WIND SPEED WITHIN LIMITS, PRECIPITATION, AND TEMPERATURE)		×		
VERIFY WPS FOLLOWED (WELDING EQUIPMENT SETTINGS, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED [MIN/MAX], PROPER POSITION [F, V, H, OH])		×	AISC 360: TABLE N5.4-2	
OBSERVE WELDING TECHNIQUES (INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITS AND EACH PASS MEETS QUALITY REQUIREMENTS)		×	AISC 360: TABLE N5.4-2	

IBC SCHEDULE OF SPECIAL INSPECTION SERVICES				
INSPECTION ITEM REQUIRED	FREQUENCY		CODE REFERENCE	REMARKS
	CONTINUOUS	PERIODIC		
STRUCTURAL STEEL CONTINUED				
VISUALLY INSPECT ALL WELDS FOR SIZE, LENGTH, AND LOCATION OF WELD. PROVIDE CONTINUOUS INSPECTION ON ALL FULL OR PARTIAL PENETRATION WELDS AND FILLET WELDS GREATER THAN 5/16"	×			
PERFORM ULTRASONIC TESTING ON ALL FULL PENETRATION WELDS	×		AISC 360: N5.5b	
VERIFY NO ARC STRIKES EXIST	×		AISC 360: TABLE N5.4-3	
VERIFY REPAIR ACTIVITY ACCEPTABILITY AS APPLICABLE	×		AISC 360: TABLE N5.4-3	
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINTS OR MEMBERS	×		AISC 360: TABLE N5.4-3	
PERFORM MAGNETIC PARTICLE TESTING ON 20% OF ALL PARTIAL PENETRATION AND FILLET WELDS GREATER THAN 5/16"		×		
VERIFY MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS ARE AVAILABLE	×		AISC 360: TABLE N5.6-1	
VERIFY FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		×	AISC 360: TABLE N5.6-1	
VERIFY PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)		×	AISC 360: TABLE N5.6-1	
VERIFY PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		×	AISC 360: TABLE N5.6-1	
VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		×	AISC 360: TABLE N5.6-1	
CONFIRM PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		×	AISC 360: TABLE N5.6-1	
VERIFY PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS		×	AISC 360: TABLE N5.6-1	
VERIFY FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		×	AISC 360: TABLE N5.6-2	
VERIFY JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		×	AISC 360: TABLE N5.6-2	
VERIFY FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		×	AISC 360: TABLE N5.6-2	
VERIFY FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		×	AISC 360: TABLE N5.6-2	
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		×	AISC 360: TABLE N5.6-3	
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	×			

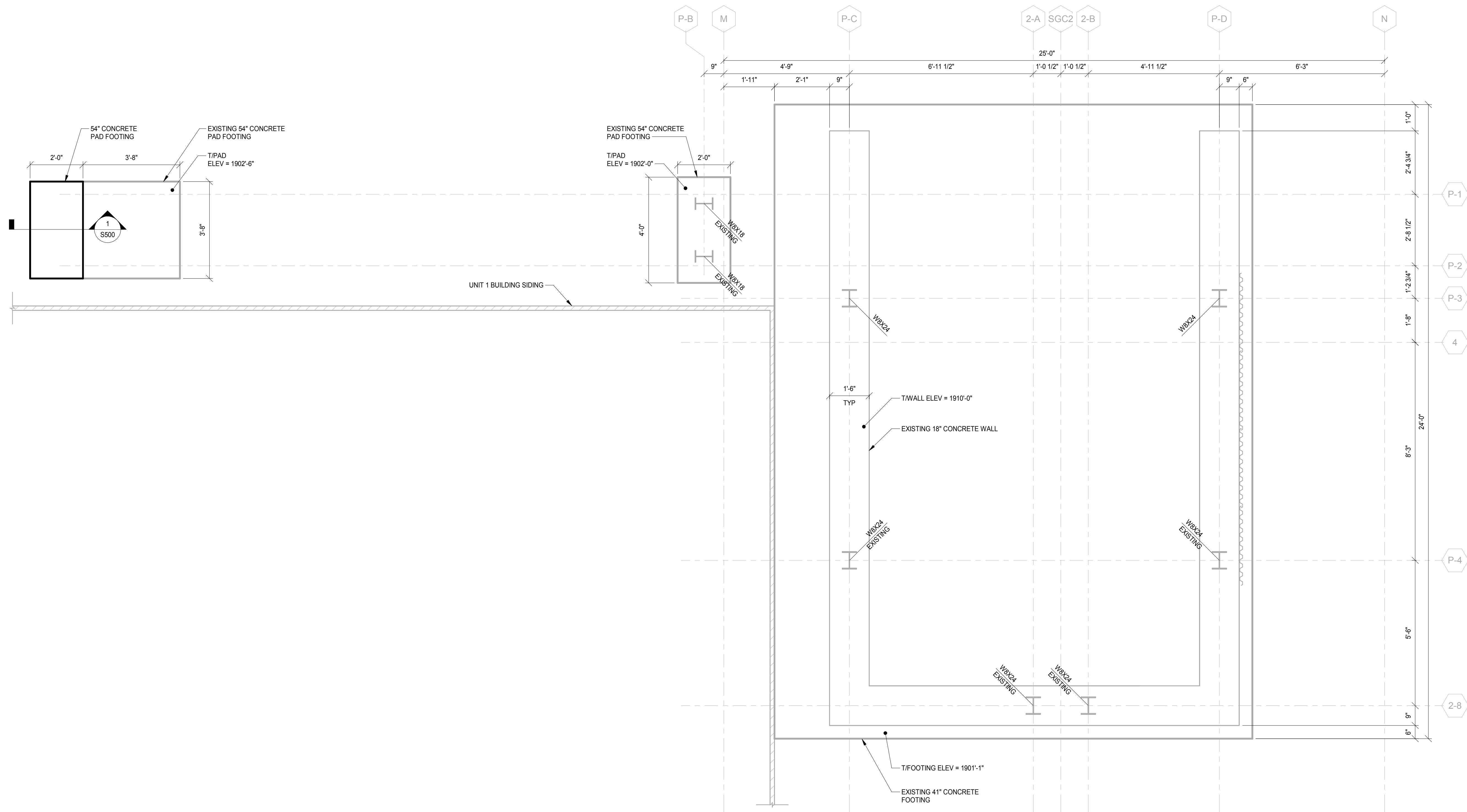
NOTES:

1. SPECIAL INSPECTIONS SHALL BE PERFORMED BY APPROVED AGENCY EMPLOYED BY OWNER.
2. SPECIAL INSPECTIONS SHALL BE QUALIFIED IN ACCORDANCE WITH IBC 1704.2.1.
3. REPORTS OF SPECIAL INSPECTIONS SHALL BE SUBMITTED TO OWNER, BUILDING OFFICIALS AND ENGINEER OF RECORD IN ACCORDANCE WITH IBC 1704.2.4.

STRUCTURAL ABBREVIATIONS			
AE	AIR ENTRAINING	KLF	KIPS PER LINEAR
AFF	ABOVE FINISHED FLOOR		FOOT
ALT	AIR HANDLING UNIT	LB. #	POUNDS
AHU	ALTERNATE	LL	LEFT HAND
APPROX	APPROXIMATE(LY)	LLH	LIVE LOAD
ARCH	ARCHITECT(URAL)	LLV	LONG LEG
B/	BOTTOM OF	LVL	HORIZONTAL
B/LDG	BUILDING		LONG LEG VERTICAL
BM	BEAM		LAMINATED VENEER LUMBER
BOT	BOTTOM	MAX	MAXIMUM
BRT	BEARING	MECH	MECHANICAL
C	COMPRESSION	MEP	MECHANICAL, ELECTRICAL, PLUMBING
CA	CAISSON		
CIP	CAST-IN-PLACE	MFR	MANUFACTURER
CJ	CONTROL JOINT	MIN	MINIMUM
CL	CENTERLINE	MISC	MICELLANEOUS
CLR	CLEAR	NA	NOT APPLICABLE
CMU	CONCRETE MASONRY UNIT	N, #	NUMBER
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	OC	ON CENTER
CONN	CONNECTION	OCEW	ON CENTER EACH WAY
CONST	CONSTRUCTION	OD	OUTSIDE DIAMETER
CONT	CONTINUE(D)(OUS)	OH	OPPOSITE HAND
DBA	DEFORMED BAR ANCHOR	PEMB	PRE-ENGINEERED METAL BUILDING
DBL	DOUBLE	PJF	PREMOLDED JOINT FILLER
DET	DETAIL		
DIA	DIAMETER	PL	PLATE
DIM	DIMENSION(S)	PLF	POUNDS PER LINEAL FOOT
DLD	DEAD LOAD		
DP	DRILLED PIER	PSF	POUND PER SQUARE FOOT
DWG	DRAWING	PSI	POUND PER SQUARE INCH
EAC	EACH	PT	POST TENSION(ED)
ECC	ECCENTRICITY	QTY	QUANTITY
EJ	EACH FACE	R	RADIUS
EF	EXPANSION JOINT	REINF	REINFORCE(D)
ELEV	ELEVATION	REV	REVISED/REVISION
EOR	ELEVATOR OF RECORD	RH	RIGHT HAND
EQ	EQUAL	RO	ROUGH OPENING
EQUIP	EQUIPMENT	RTU	ROOF TOP UNIT
ES	EACH SIDE	SF	SQUARE FOOT
EW	EACH WAY	SI	SIMILAR
EWEF	EACH WAY EACH FACE	SPEC	SPECIFICATION
FF	FINISHED FLOOR	SS	STAINLESS STEEL
FND	FOUNDATION	STD	STANDARD
FT	FEET (FOOT)	T	TENSION
FTG	FOOTING	T&B	TOP AND BOTTOM
GA	GAUGE	T&G	TONGUE AND GROOVE
GALV	GALVANIZED	T/	TOP OF
GB	GRADE BEAM	TBD	TO BE DETERMINED
GL	GLUE LAMINATE	TYP	TYPICAL
	TIMBER	UNO	UNLESS NOTED OTHERWISE
HORIZ	HORIZONTAL		
HS	HEADED STUD	V	SHEAR
ID	INSIDE DIAMETER	VERT	VERTICAL
K	KIP (1000 POUNDS)	VIF	VERIFY IN FIELD
		W/	WITH
		W/O	WITHOUT
		WG	WORKABLE GAGE
		WP	WORKING POINT
		WWR	WELDED WIRE REINFORCEMENT

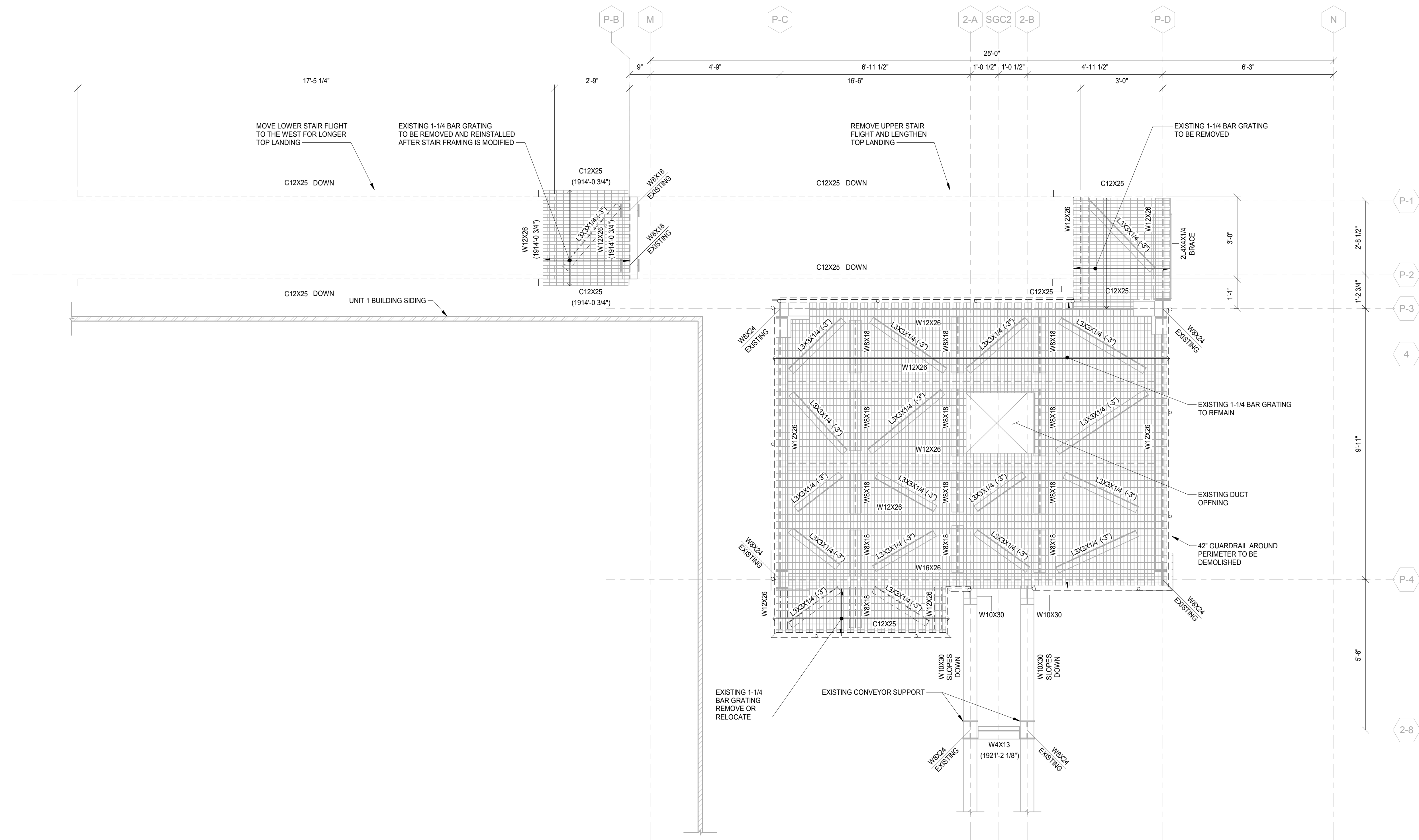
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		BY			
		PMG			
REV. NO.		DATE	REVISION DESCRIPTION		
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SPECIAL INSPECTIONS WEC 1 FLY ASH BUNKER ENCLOSURE 4250 E SOUTH ST, HASTINGS, NE 68901			2025		
			HASTINGS, NE		
drawn by: _____ PMG checked by: _____ GBL project no.: 025-02657 date 08-27-2025					
SHEET S003					

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, DIMENSIONS, AND MEMBER SIZES PRIOR TO ORDERING OR FABRICATION OF ANY MATERIALS.
2. SEE DRAWINGS S001, S002, & S003 FOR GENERAL NOTES AND SPECIAL INSPECTIONS.
3. ALL MEMBERS SHOWN AS HALFTONE ARE EXISTING.



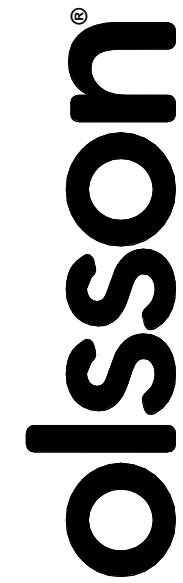
DEMOLITION PLAN (T/STEEL = 1924'-6 3/4" UNO)

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



GENERAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, DIMENSIONS, AND MEMBER SIZES PRIOR TO ORDERING OR FABRICATION OF ANY MATERIALS.
2. SEE DRAWINGS S001, S002, & S003 FOR GENERAL NOTES AND SPECIAL INSPECTIONS.
3. ALL MEMBERS SHOWN AS HALFTONE ARE EXISTING.
4. DASHED LINES INDICATE MEMBERS TO BE DEMOLISHED OR RELOCATED.
5.  INDICATES SPAN DIRECTION.



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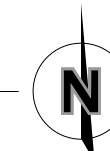
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DEMOLITION PLAN	
WEC 1 FLY ASH BUNKER ENCLOSURE 4250 E SOUTH ST., HASTINGS, NE 68901	
HASTINGS, NE	2025

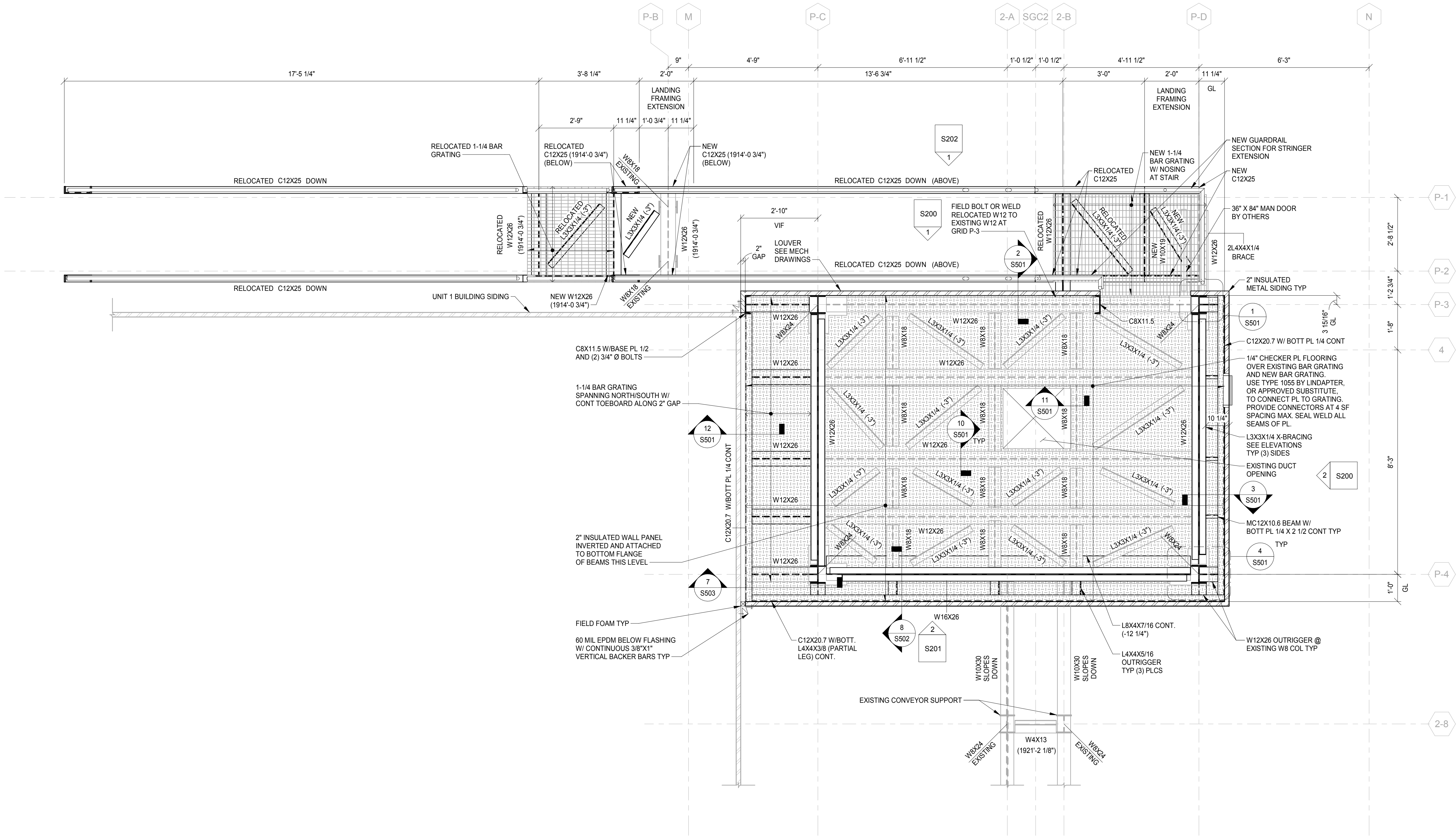
drawn by: _____ PMG
checked by: _____ GBL
project no.: _____ 025-02657
date _____ 08-27-2025

SHEET
S101



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1 ENCLOSURE FRAMING PLAN (T/STEEL = 1924'- 6 3/4" UNO)
SCALE: 1/2" = 1'-0"



GENERAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, DIMENSIONS, AND MEMBER SIZES PRIOR TO ORDERING OR FABRICATION OF ANY MATERIALS.
2. SEE DRAWINGS S001, S002, & S003 FOR GENERAL NOTES AND SPECIAL INSPECTIONS.
3. ALL MEMBERS SHOWN AS HALFTONE ARE EXISTING.
4. ———> INDICATES SPAN DIRECTION.

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FRAMING PLAN

WEC 1 FLY ASH BUNKER ENCLOSURE
4250 E SOUTH ST, HASTINGS, NE 68901

2025

HASTINGS, NE

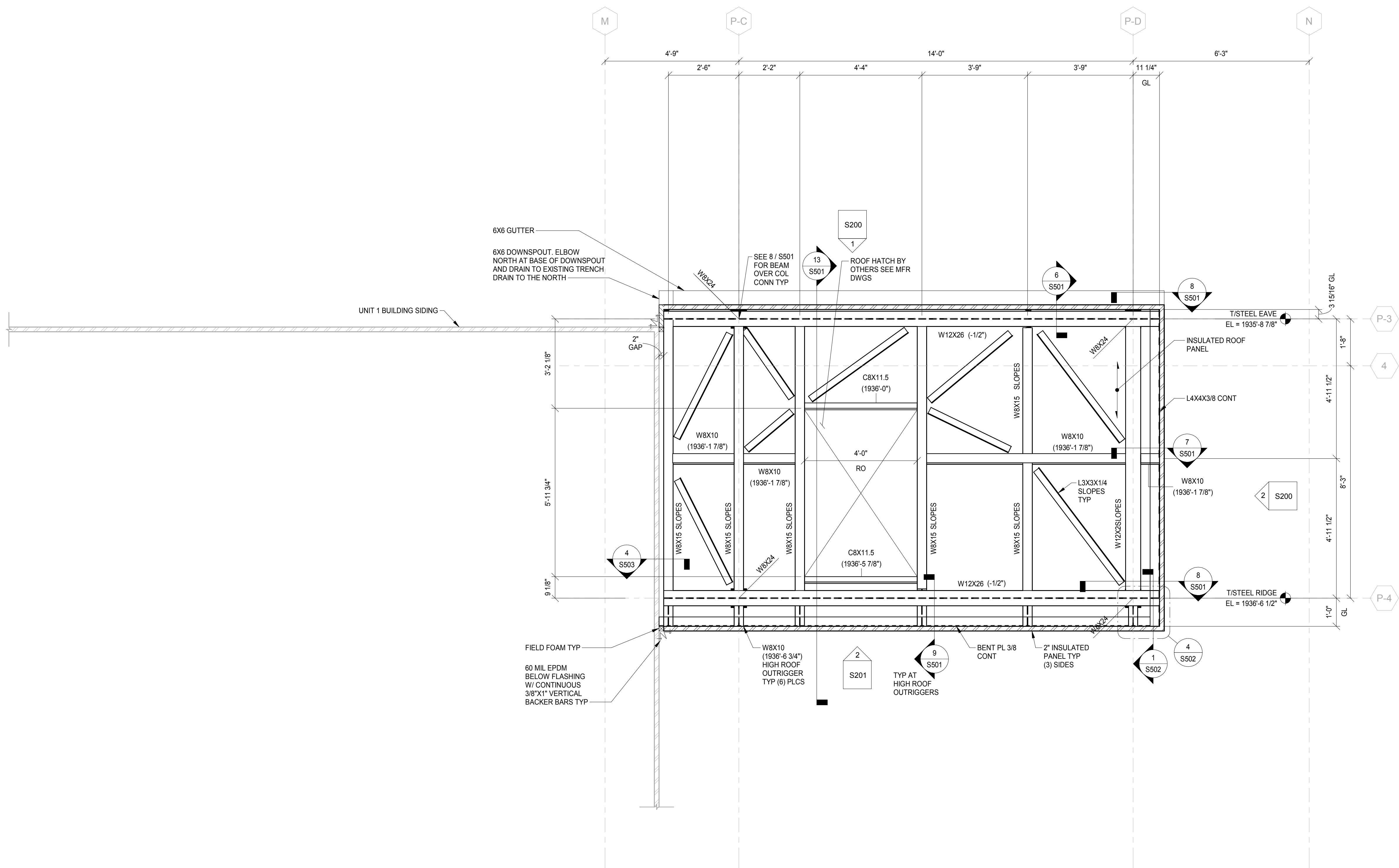
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SHEET
S102

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

ROOF FRAMING PLAN



GENERAL SHEET NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, ELEVATIONS, DIMENSIONS, AND MEMBER SIZES PRIOR TO ORDERING OR FABRICATION OF ANY MATERIALS.
2. SEE DRAWINGS S001, S002, & S003 FOR GENERAL NOTES AND SPECIAL INSPECTIONS.
3. ALL MEMBERS SHOWN AS HALFTONE ARE EXISTING.
4. ————— INDICATES SPAN DIRECTION.
5. FOR TYPICAL FRAMING SHEAR CONNECTION, SEE 1/S003.

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ROOF FRAMING PLAN

WEC 1 FLY ASH BUNKER ENCLOSURE
4250 E SOUTH ST., HASTINGS, NE 68901

HASTINGS, NE

2025

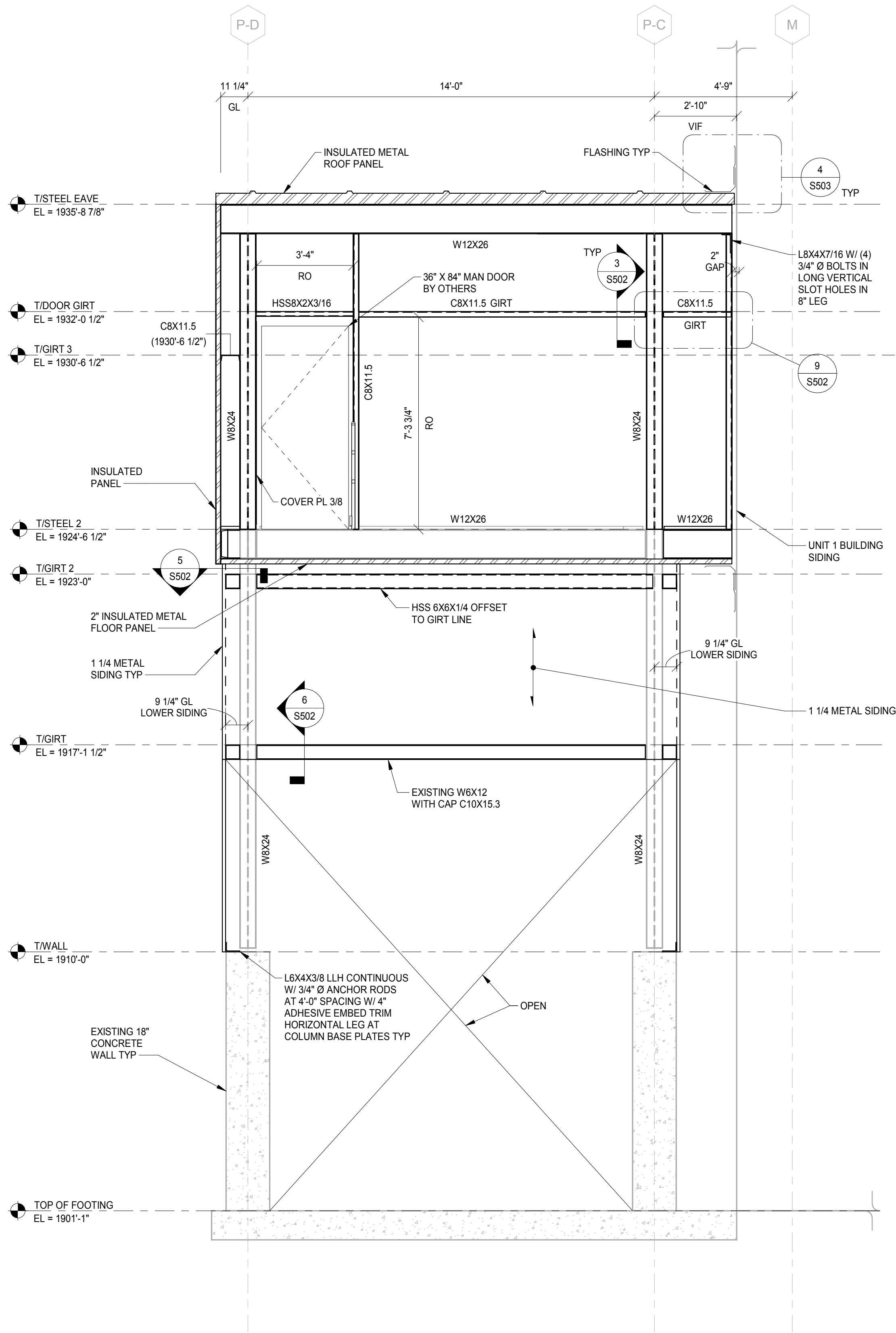
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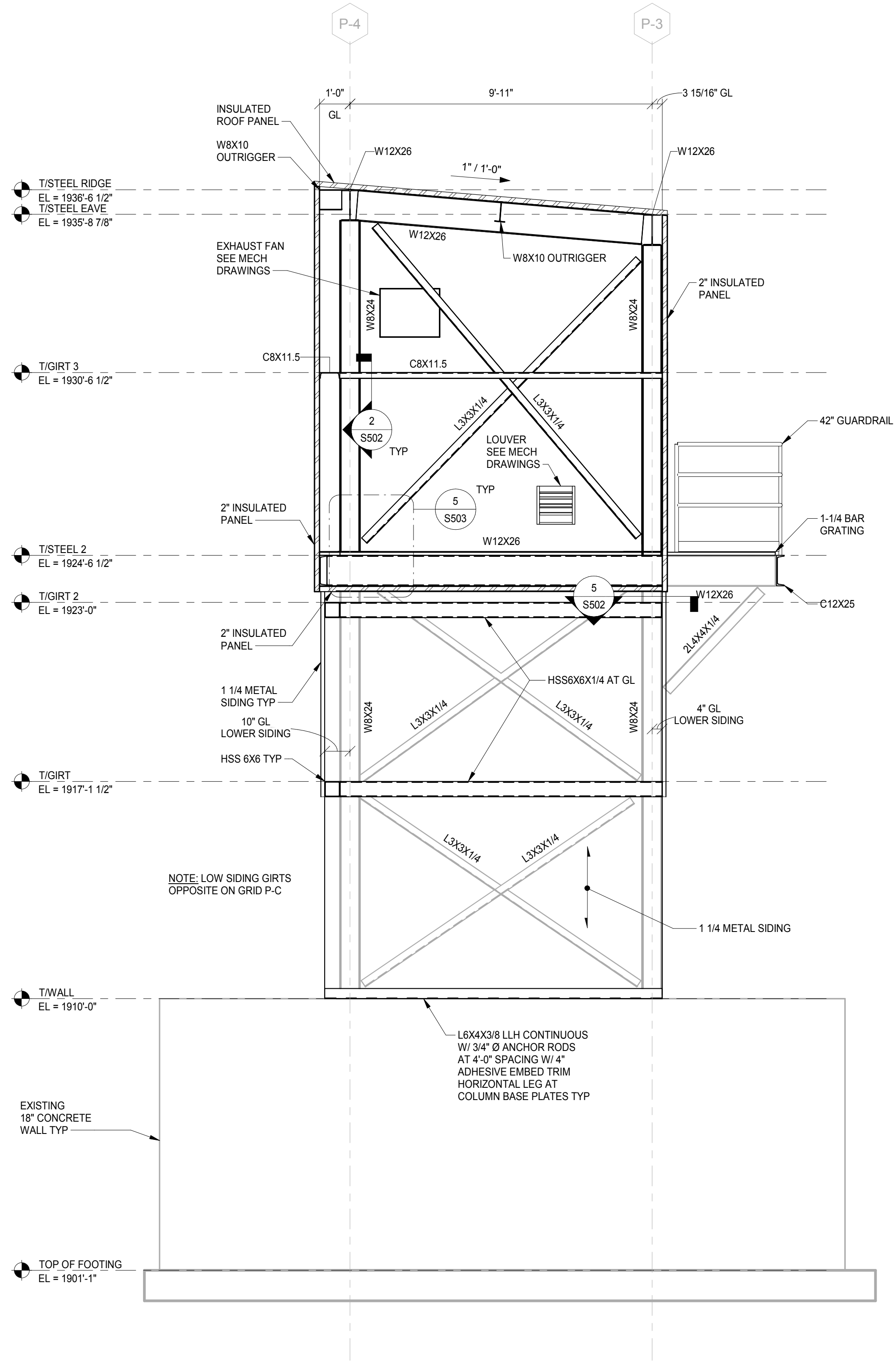
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SCALE: 3/8" = 1'-0"



2 ELEVATION GRID PD

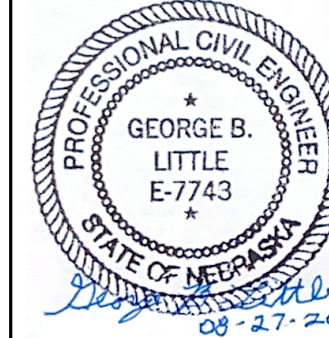
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FRAMING ELEVATIONS	2025
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HASTINGS, NE	

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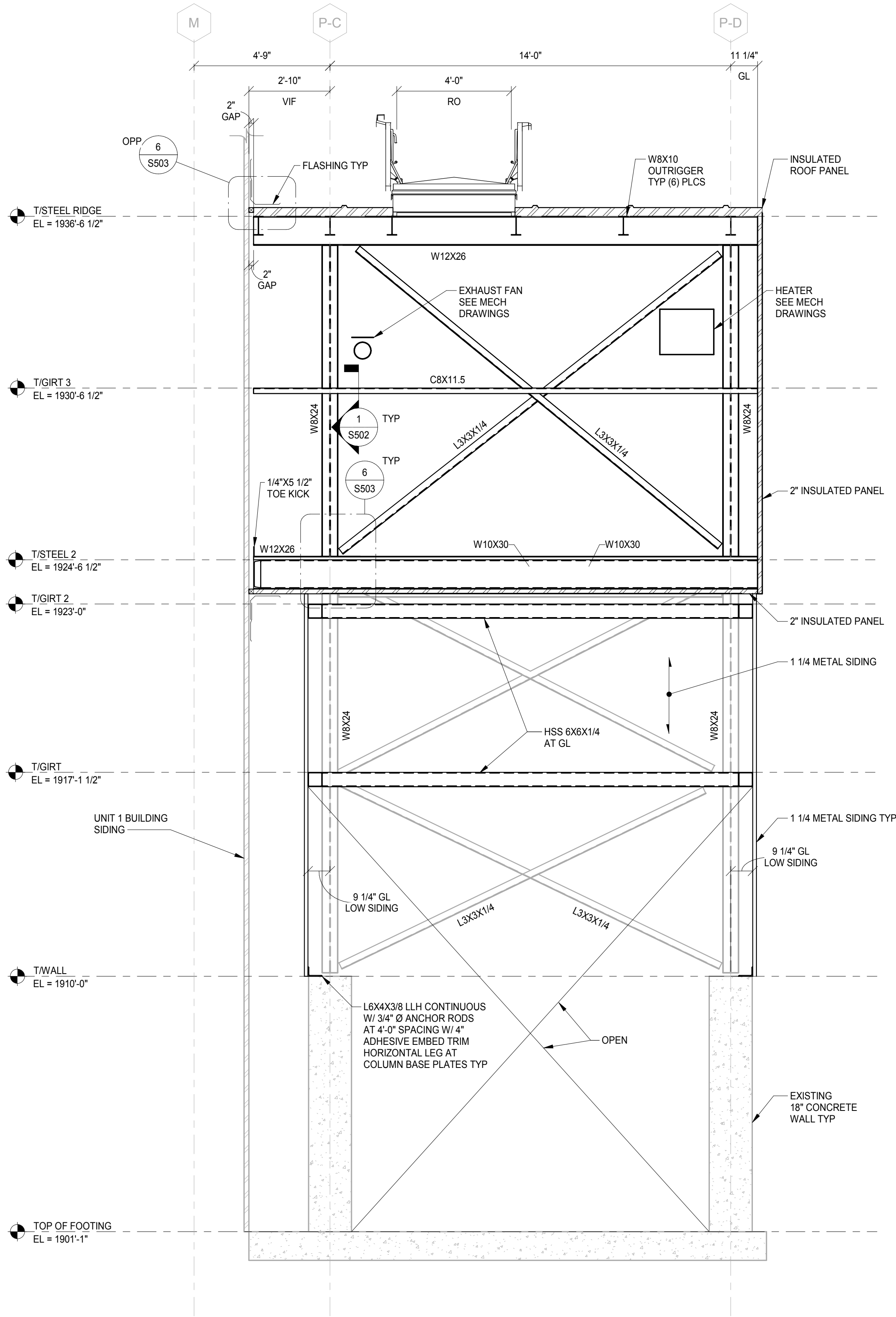
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2

ELEVATION GRID P-4

SCALE: 3/8" = 1'-0"



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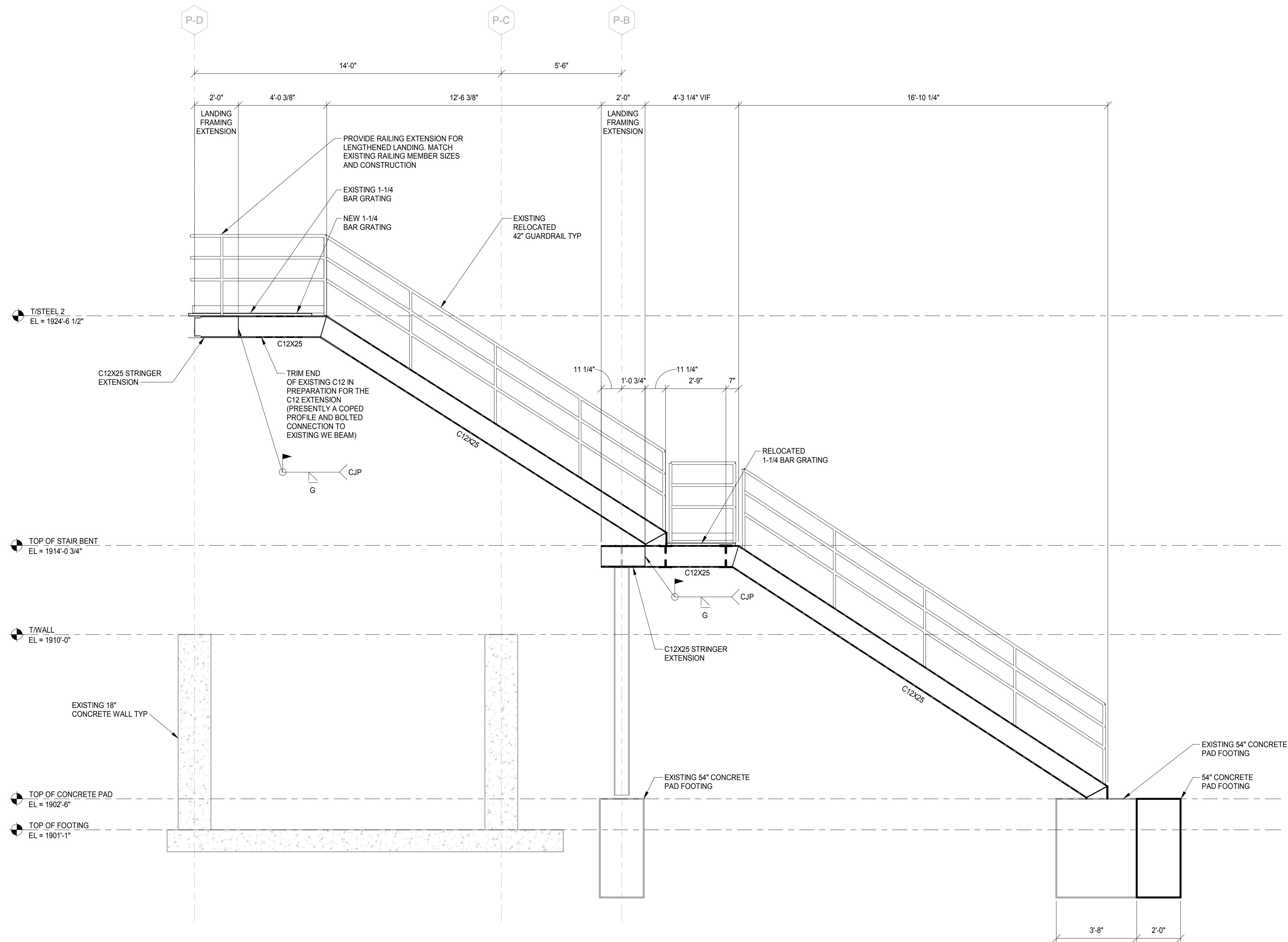
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SHEET
S201

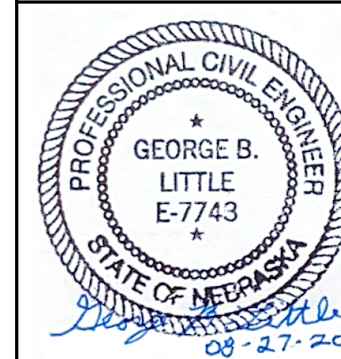


1 STAIR ELEVATION
SCALE: 3/8" = 1'-0"

SCALE: 3/8" = 1'-0"

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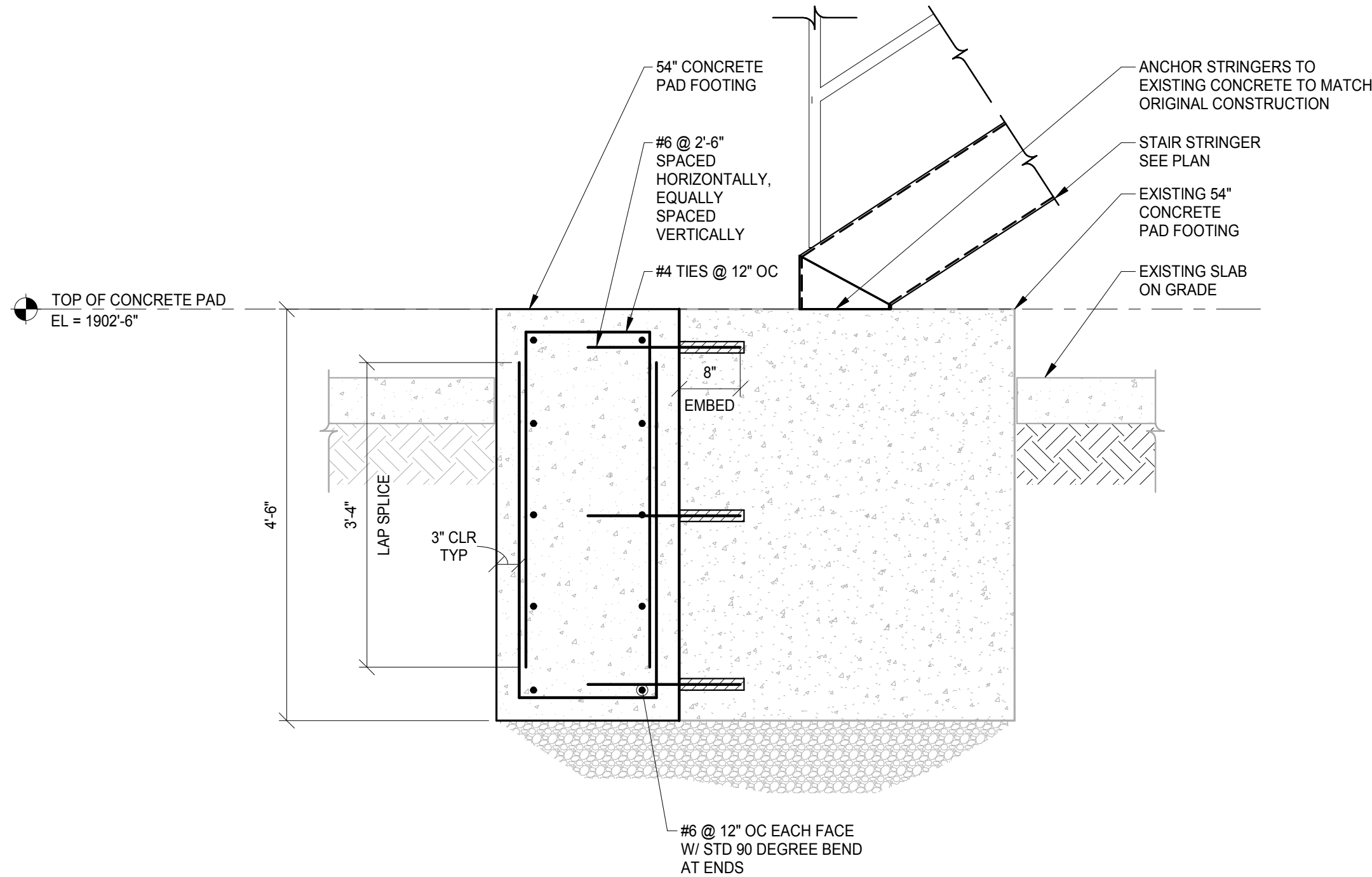
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FRAMING ELEVATIONS
WEC 1 FLY ASH BUNKER ENCLOSURE 4250 E SOUTH ST., HASTINGS, NE 68901

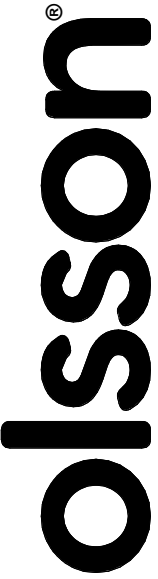
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STAIR LANDING EXTENSION

SCALE: 3/4" = 1'-0"



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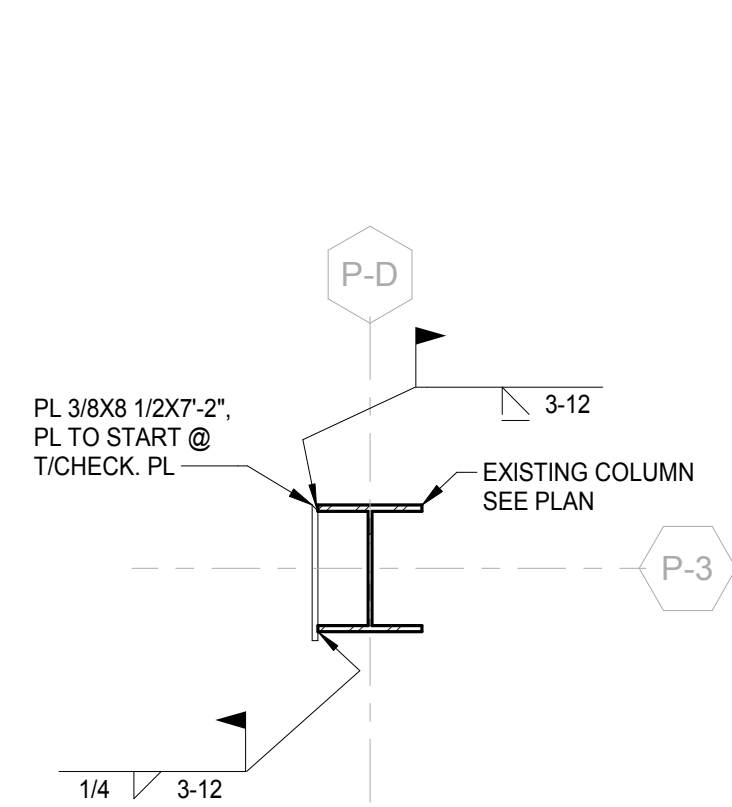
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FOUNDATION DETAILS		2025
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HASTINGS, NE		

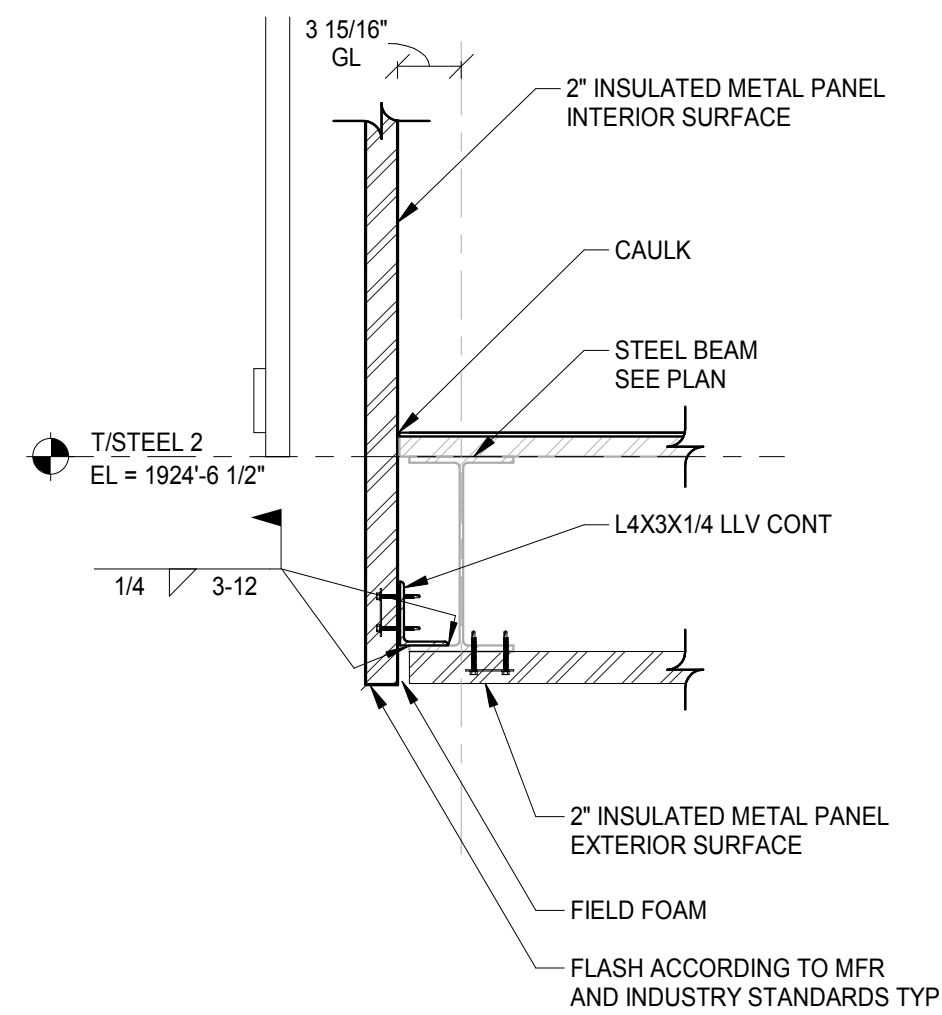
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SHEET
S500

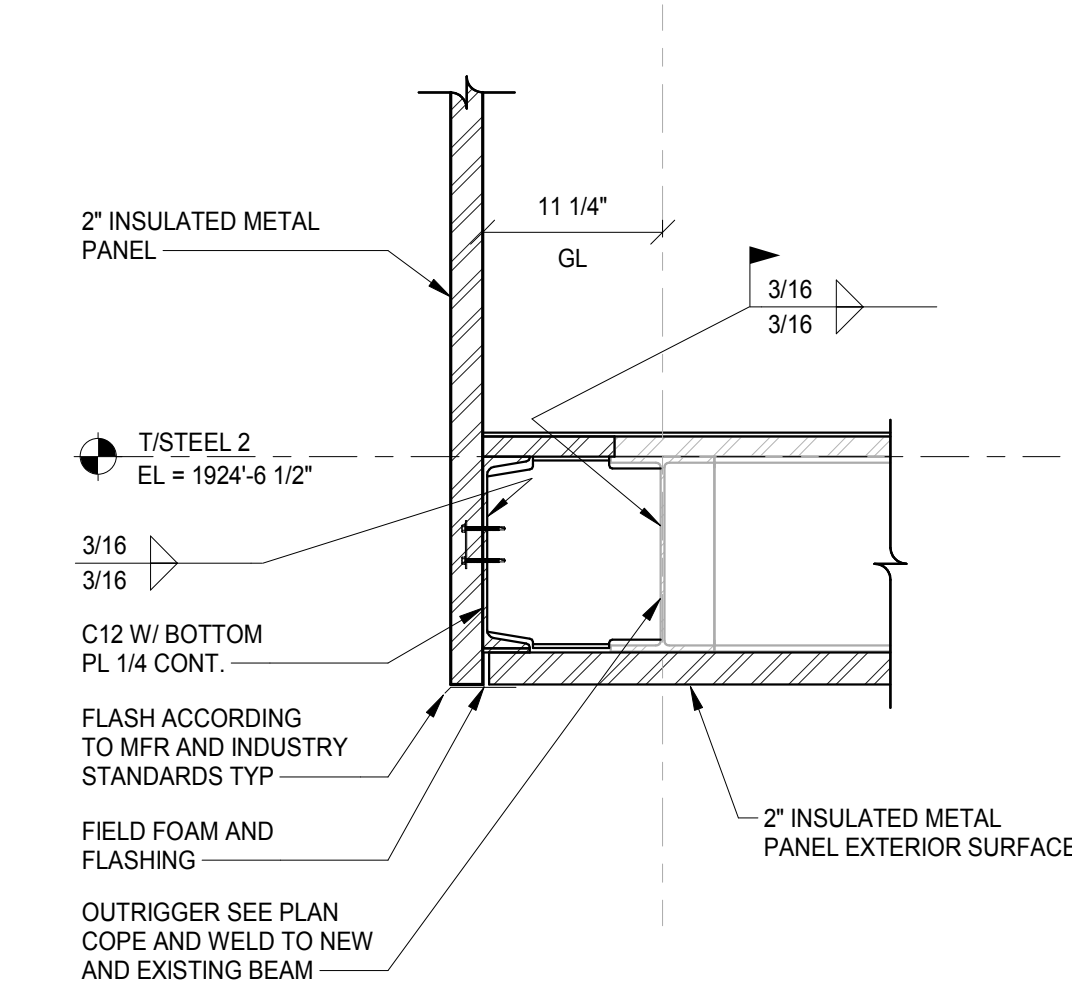
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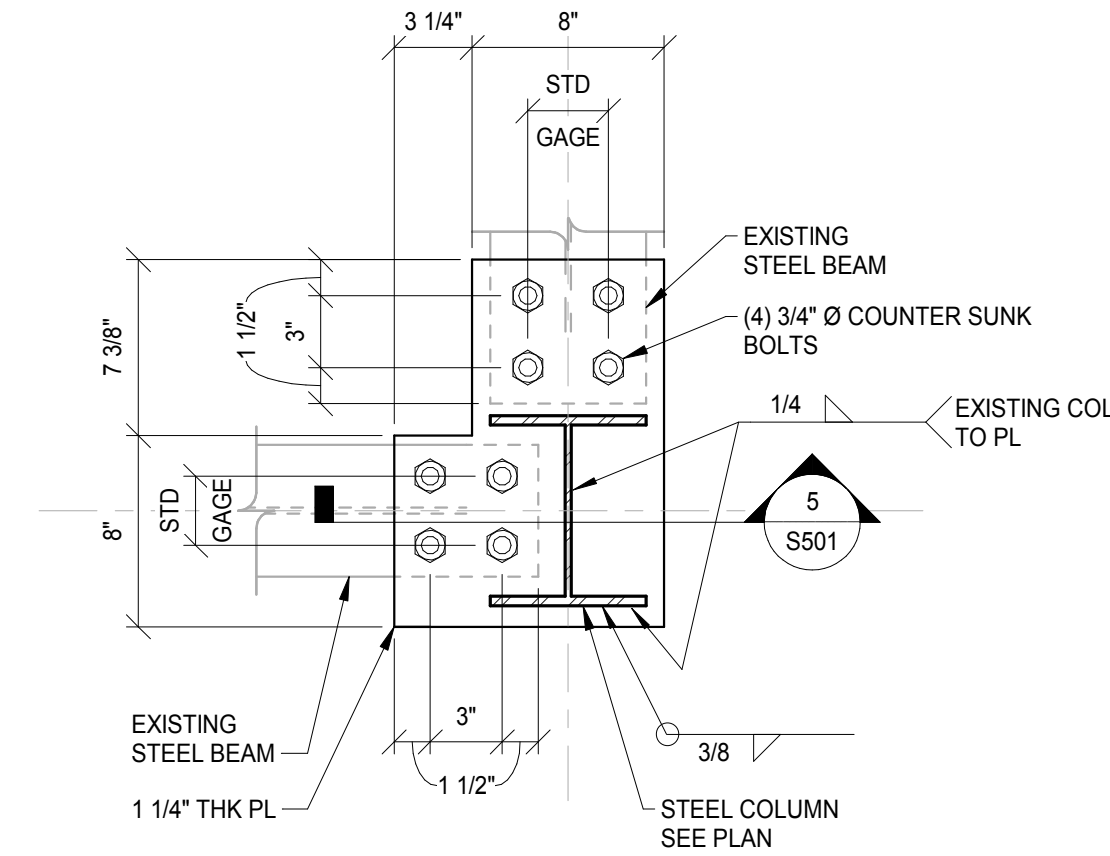
1 DOOR JAMB PLATE DETAIL
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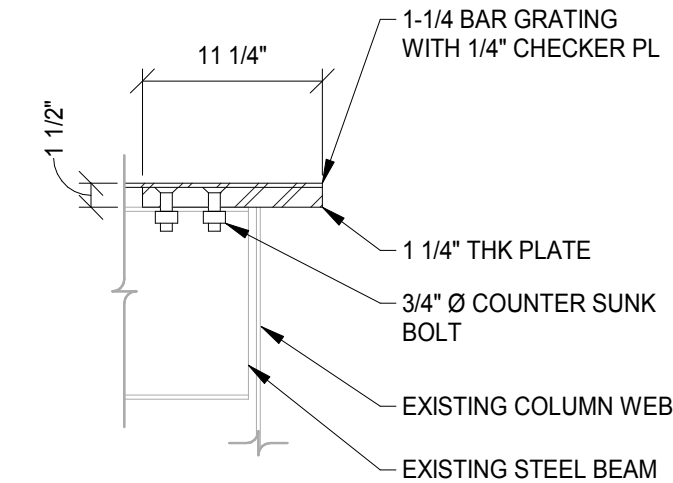
2 INSULATED METAL PANEL DETAIL 1
SCALE: 1" = 1'-0"



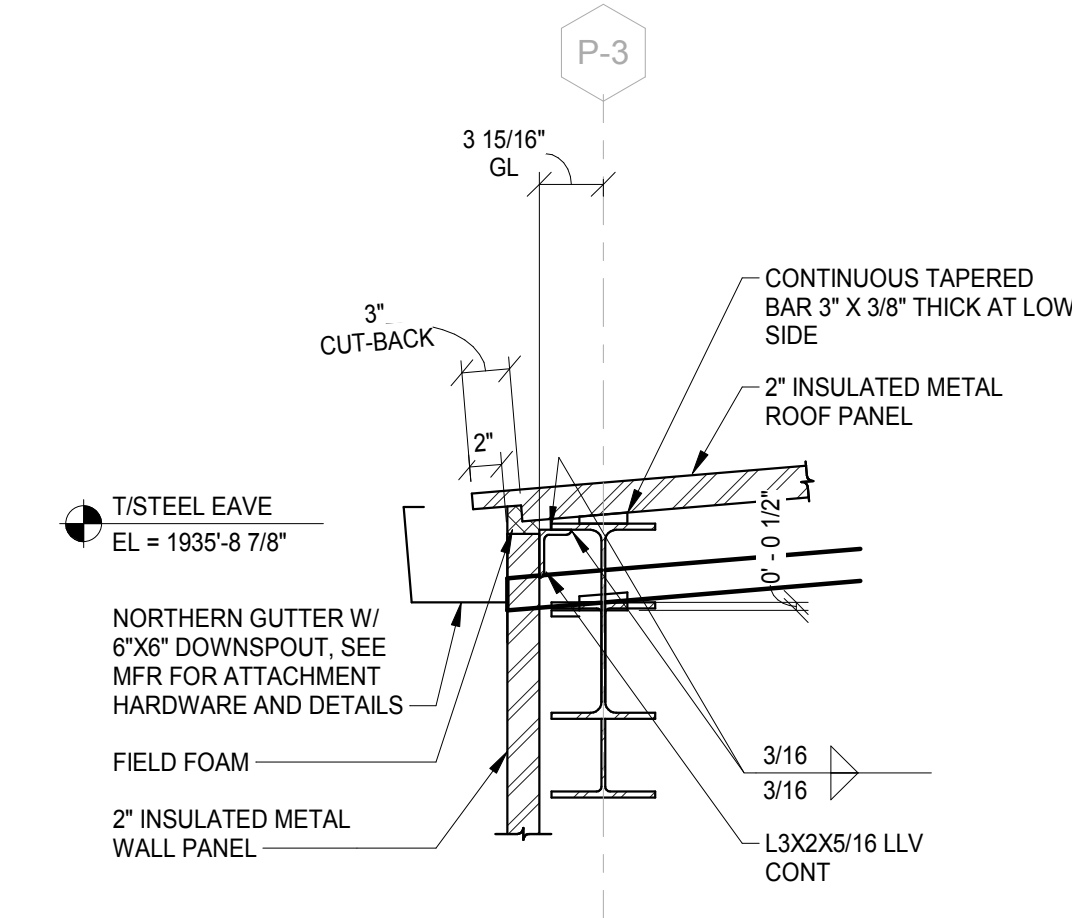
3 INSULATED METAL PANEL DETAIL 2
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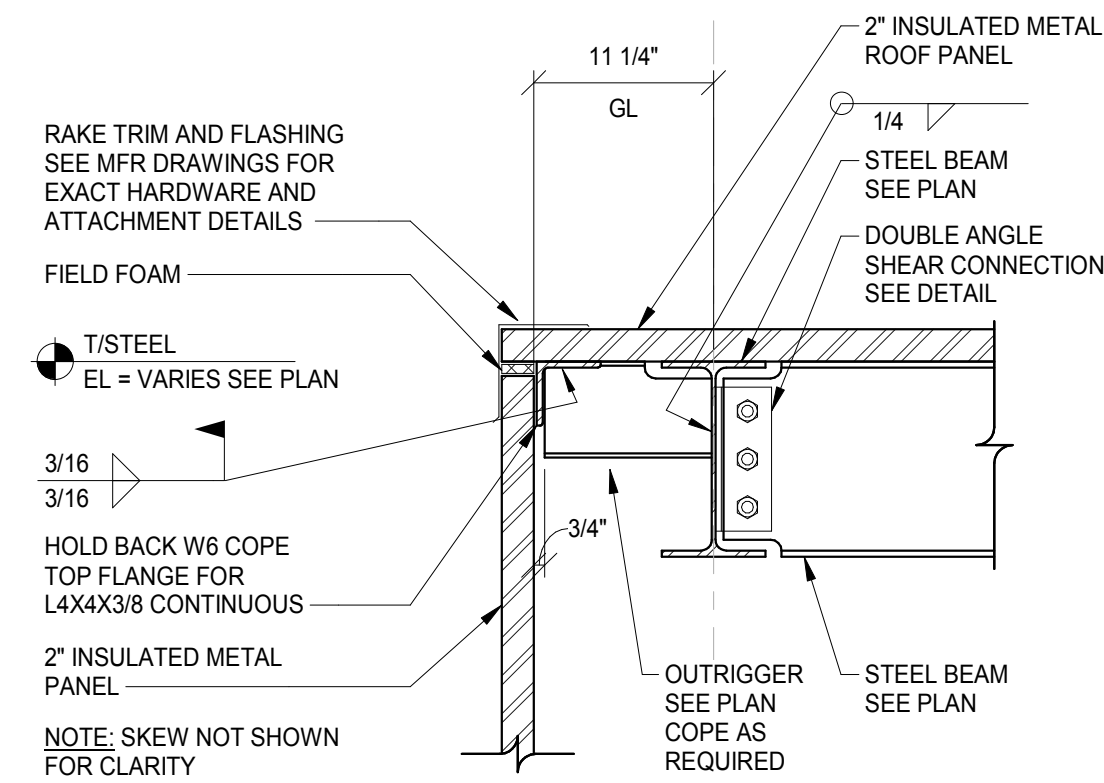
4 COLUMN BASEPLATE CONNECTION
SCALE: 1 1/2" = 1'-0"



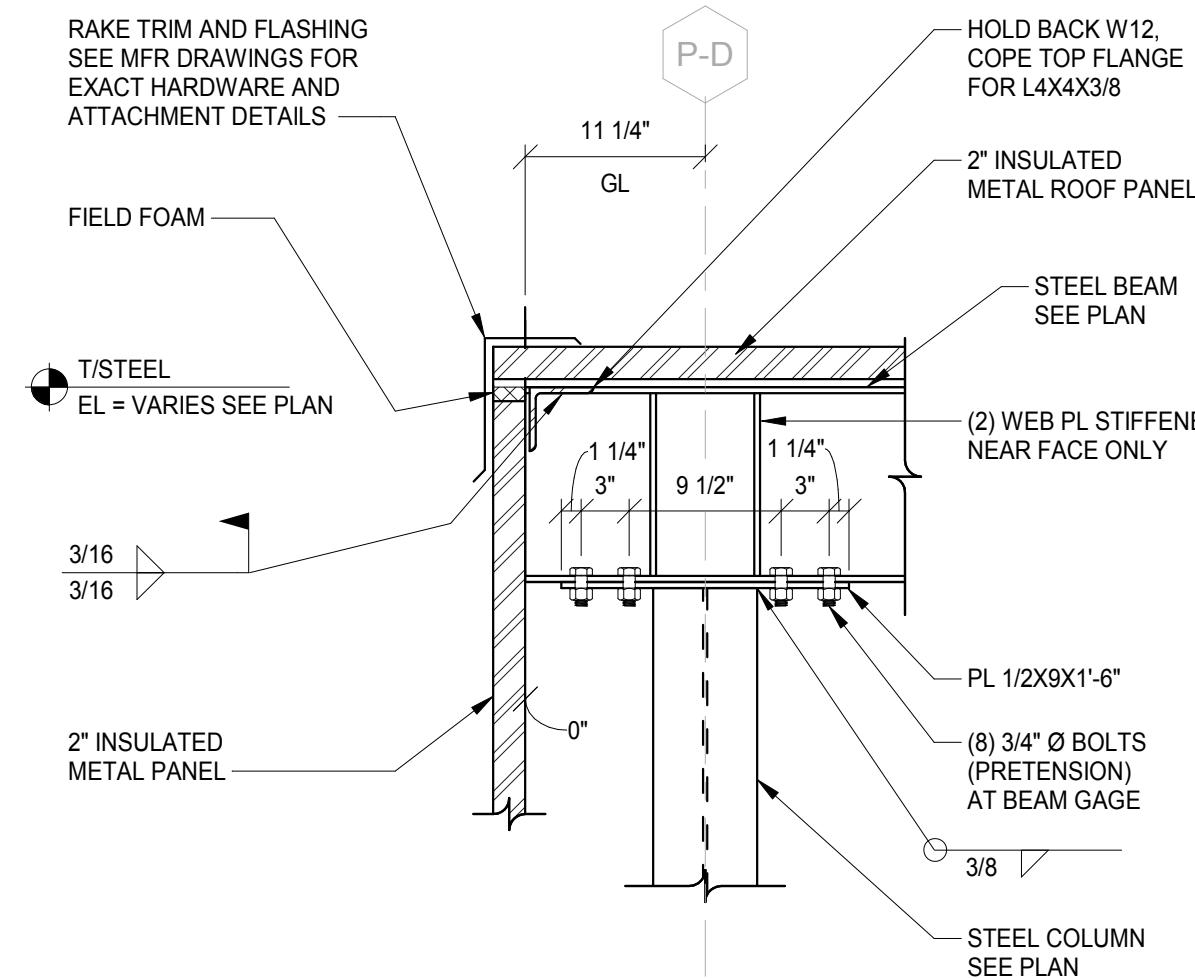
5 COLUMN BASEPLATE CONNECTION
SCALE: 1" = 1'-0"



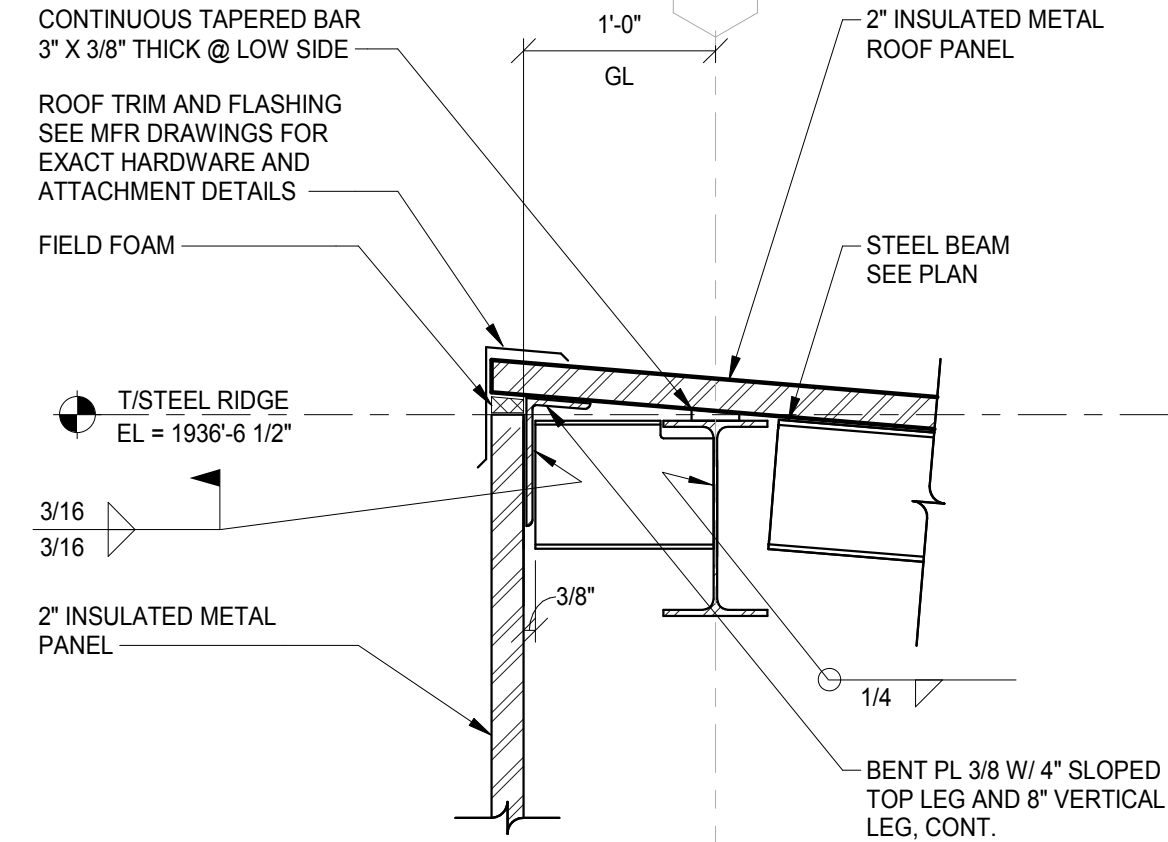
6 EAVE AND GUTTER DETAIL
SCALE: 1" = 1'-0"



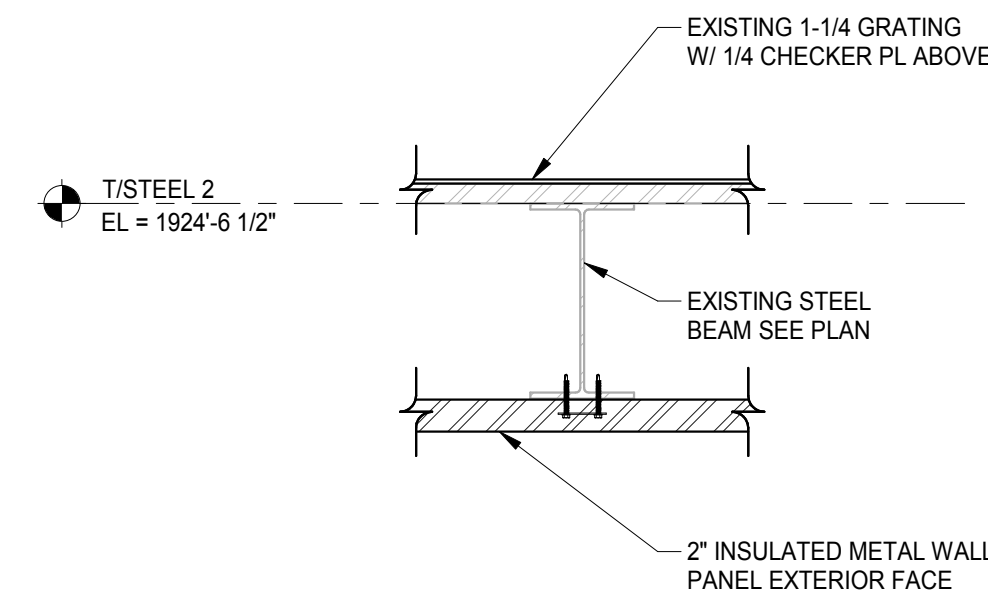
7 RAKE OUTRIGGER
SCALE: 1" = 1'-0"



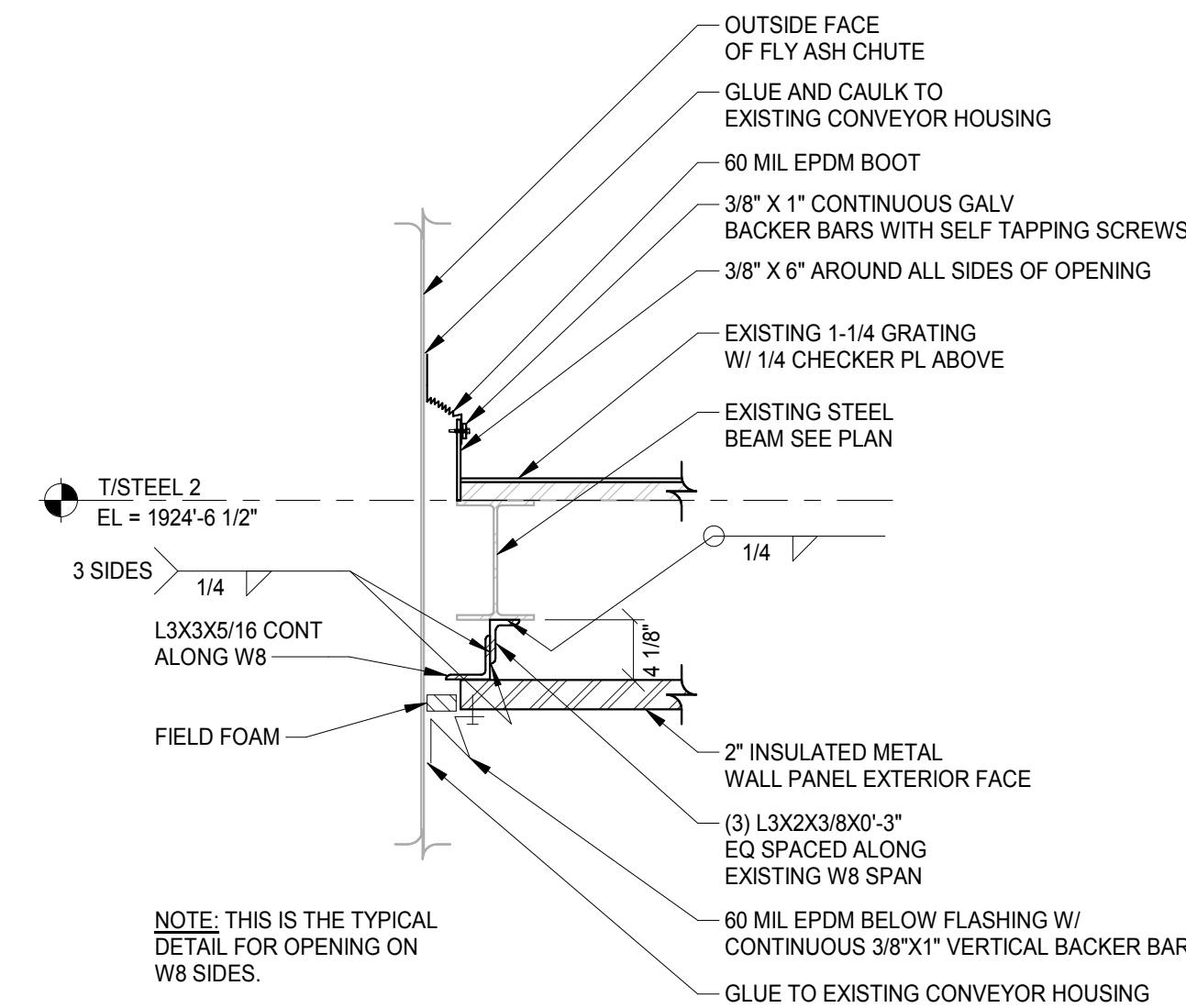
8 WALL AND ROOF CONNECTION LOW ROOF RAKE
SCALE: 1" = 1'-0"



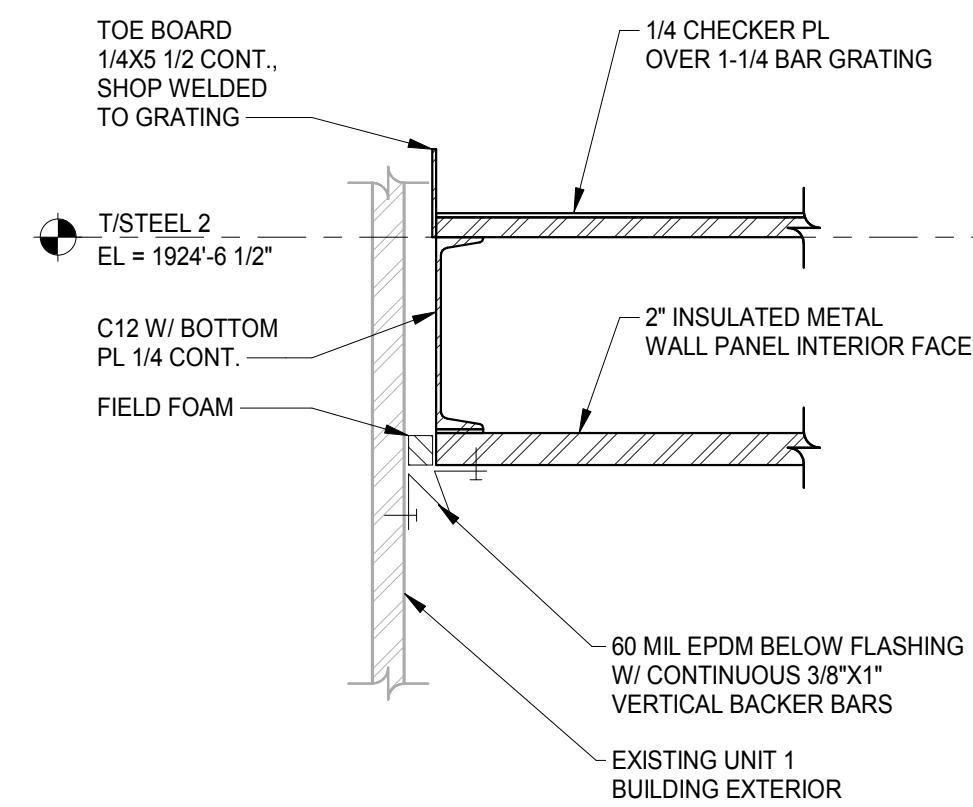
9 HIGH ROOF OUTRIGGER CONNECTION
SCALE: 1" = 1'-0"



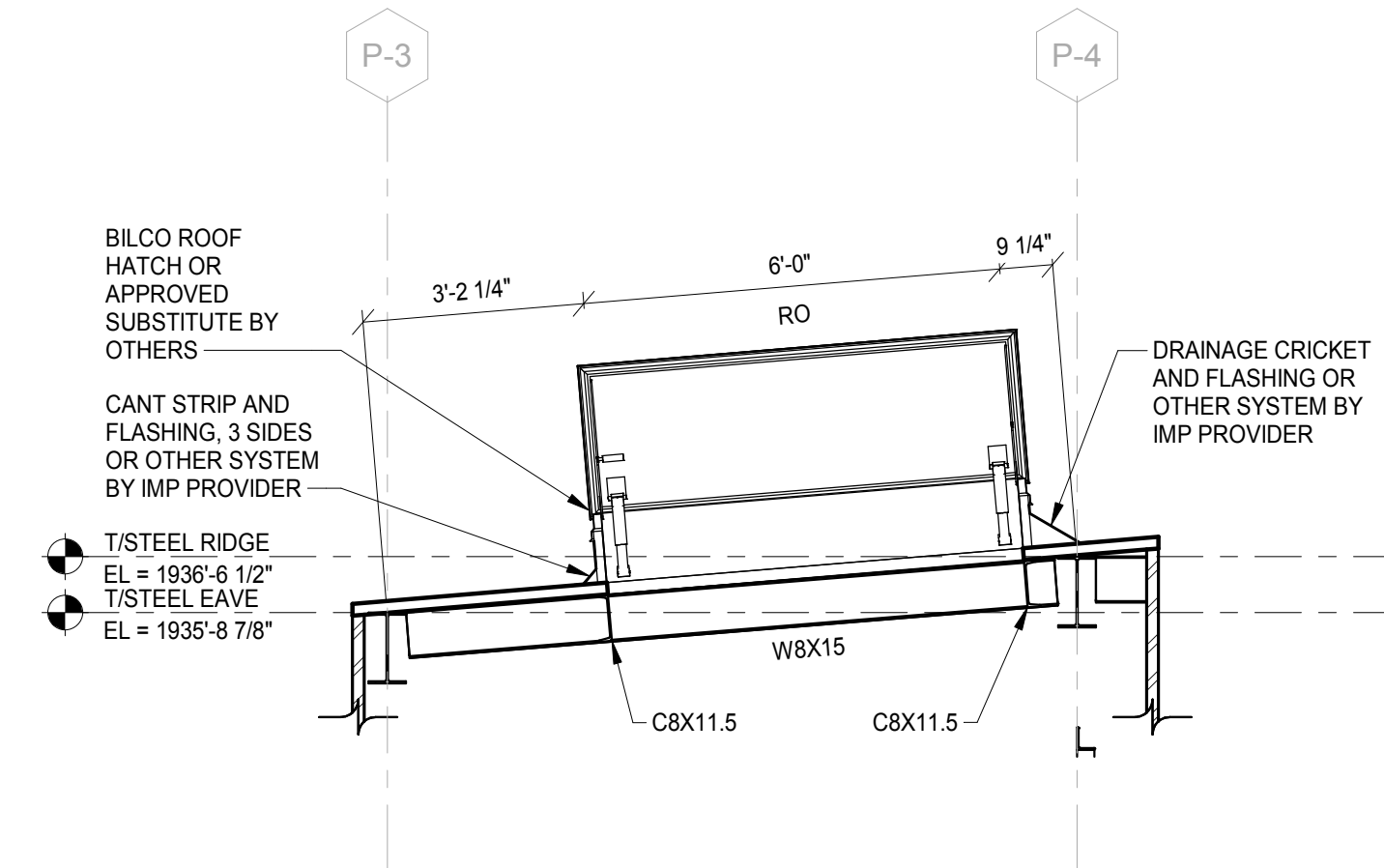
10 INVERTED WALL PANEL ATTACHED TO FLOOR
SCALE: 1" = 1'-0"



11 EPDM BOOT DETAIL
SCALE: 1" = 1'-0"



12 PANEL FLOOR TO EXISTING BUILDING
SCALE: 1" = 1'-0"



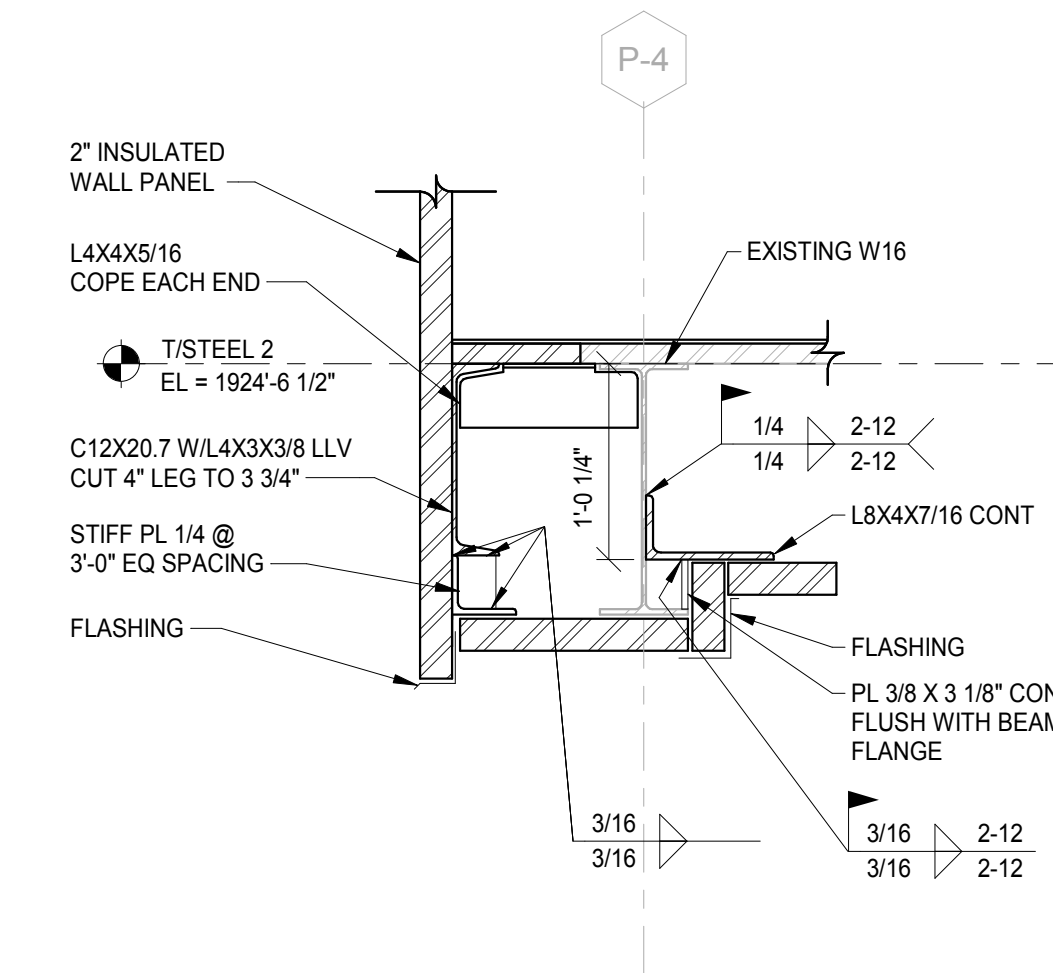
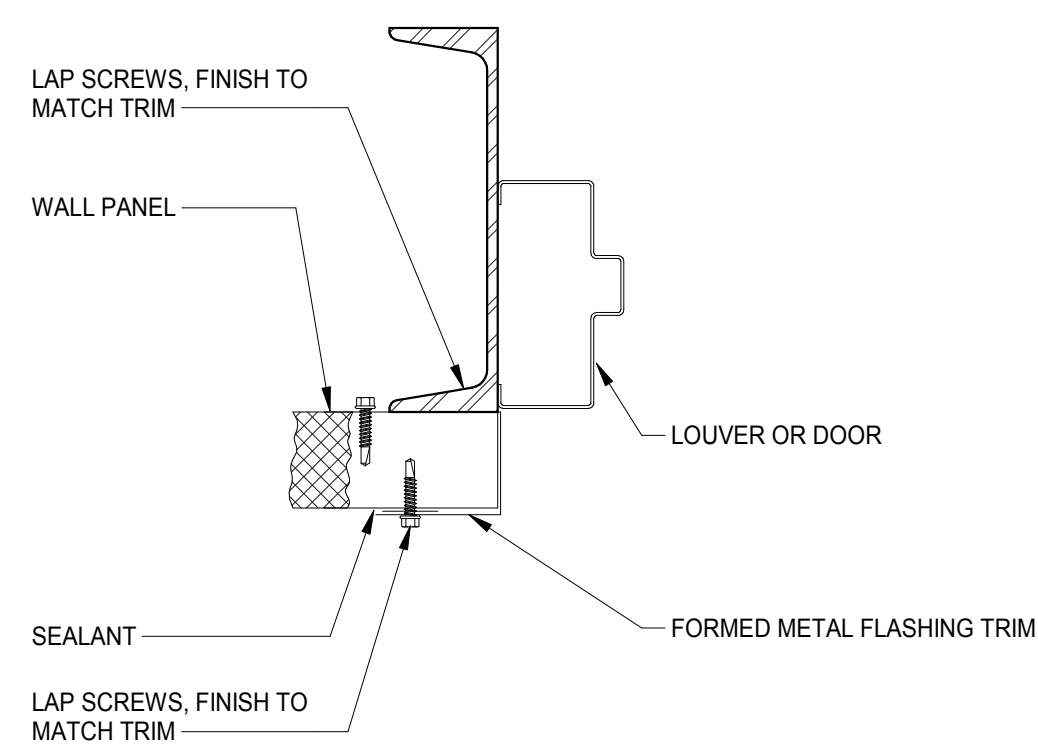
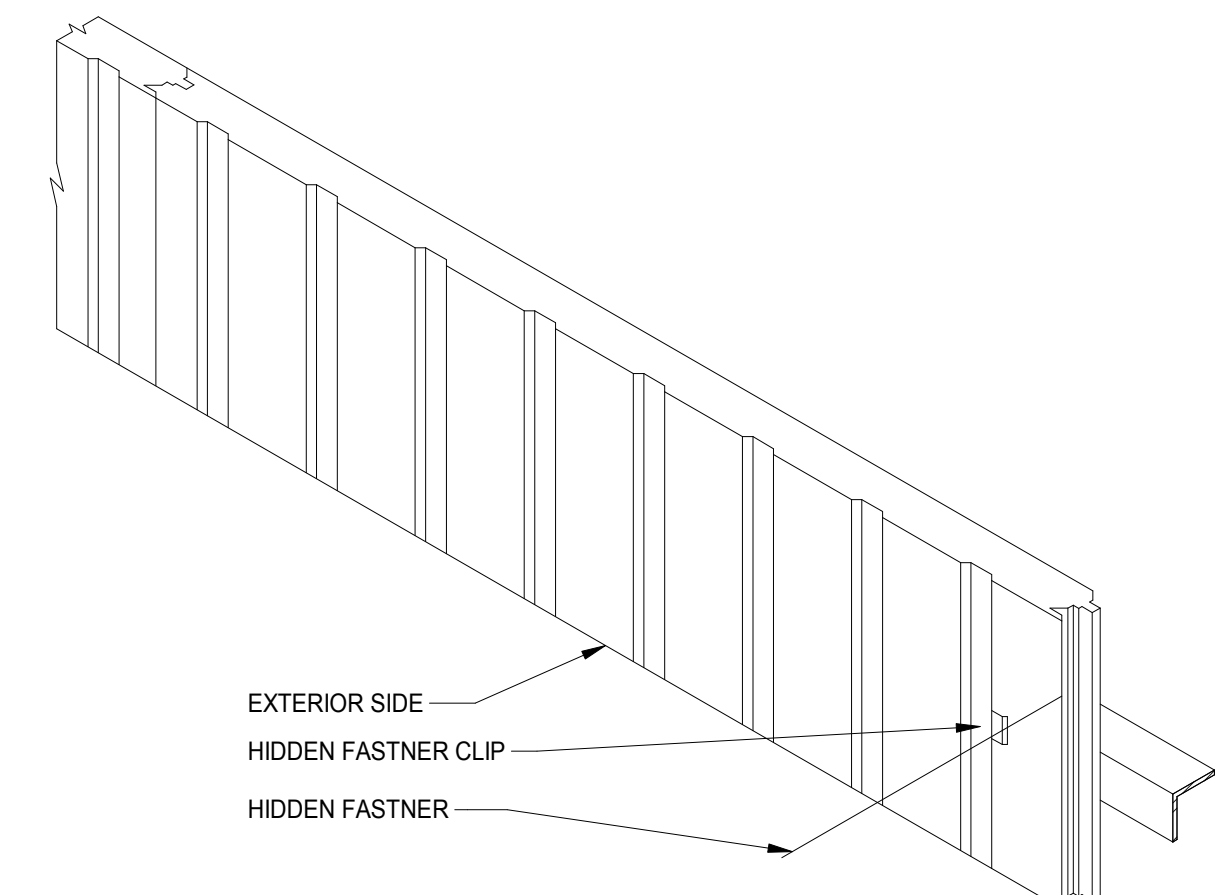
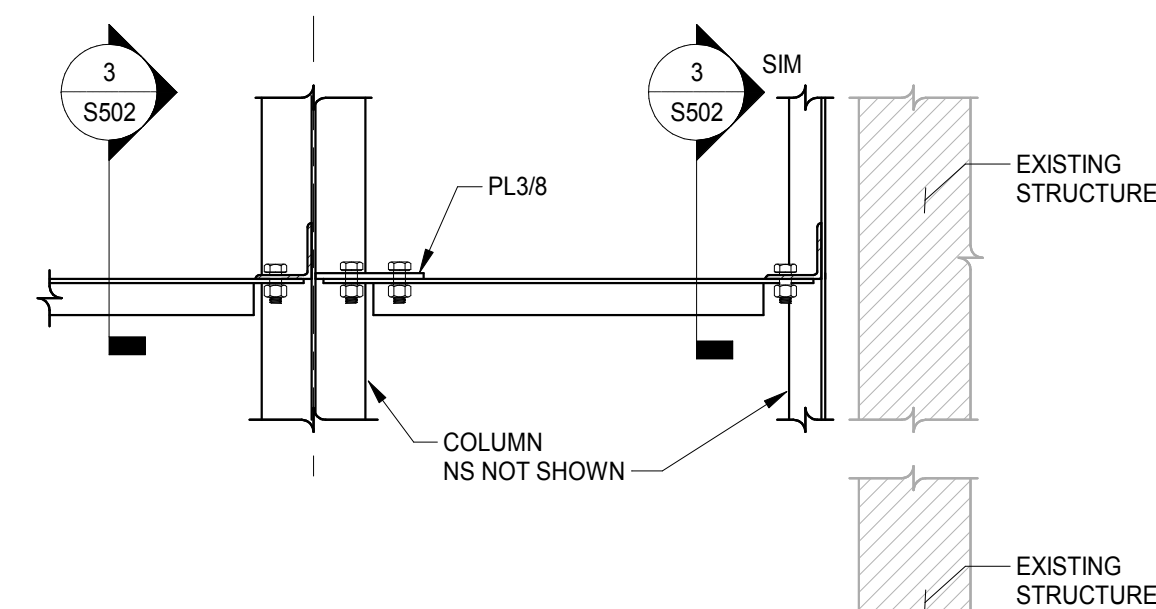
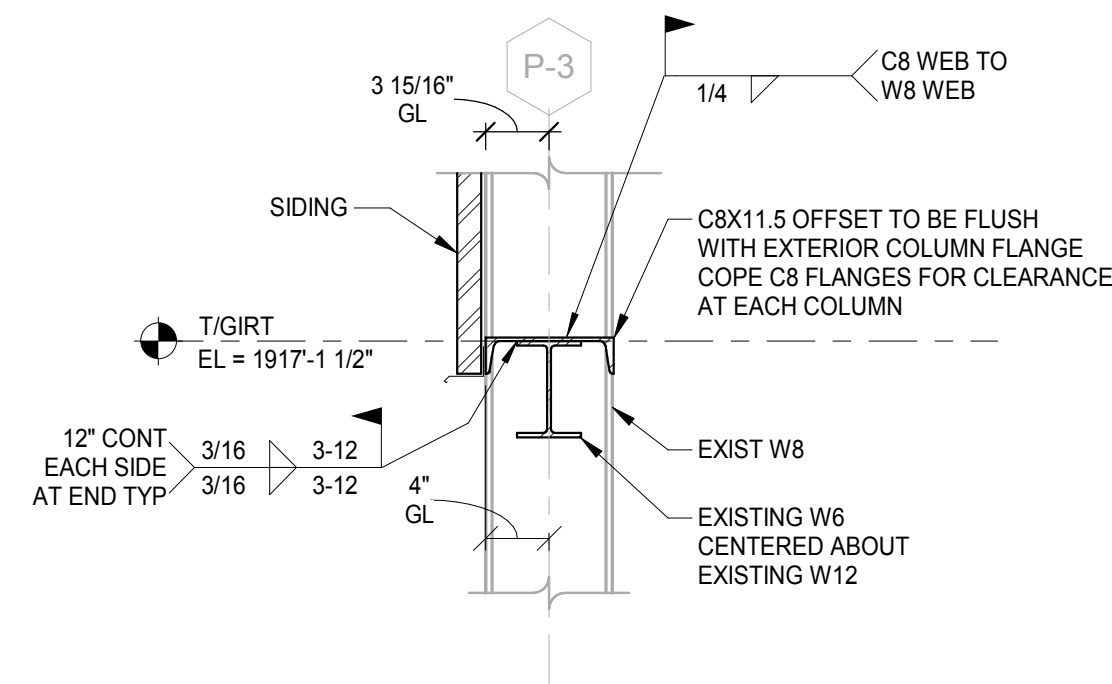
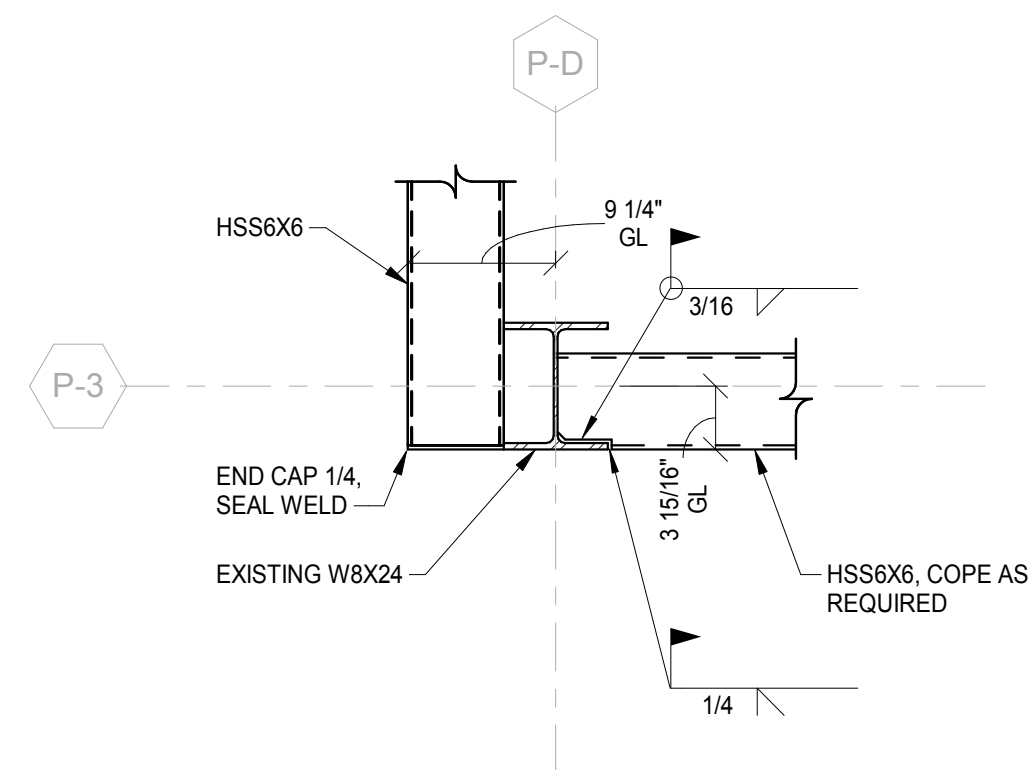
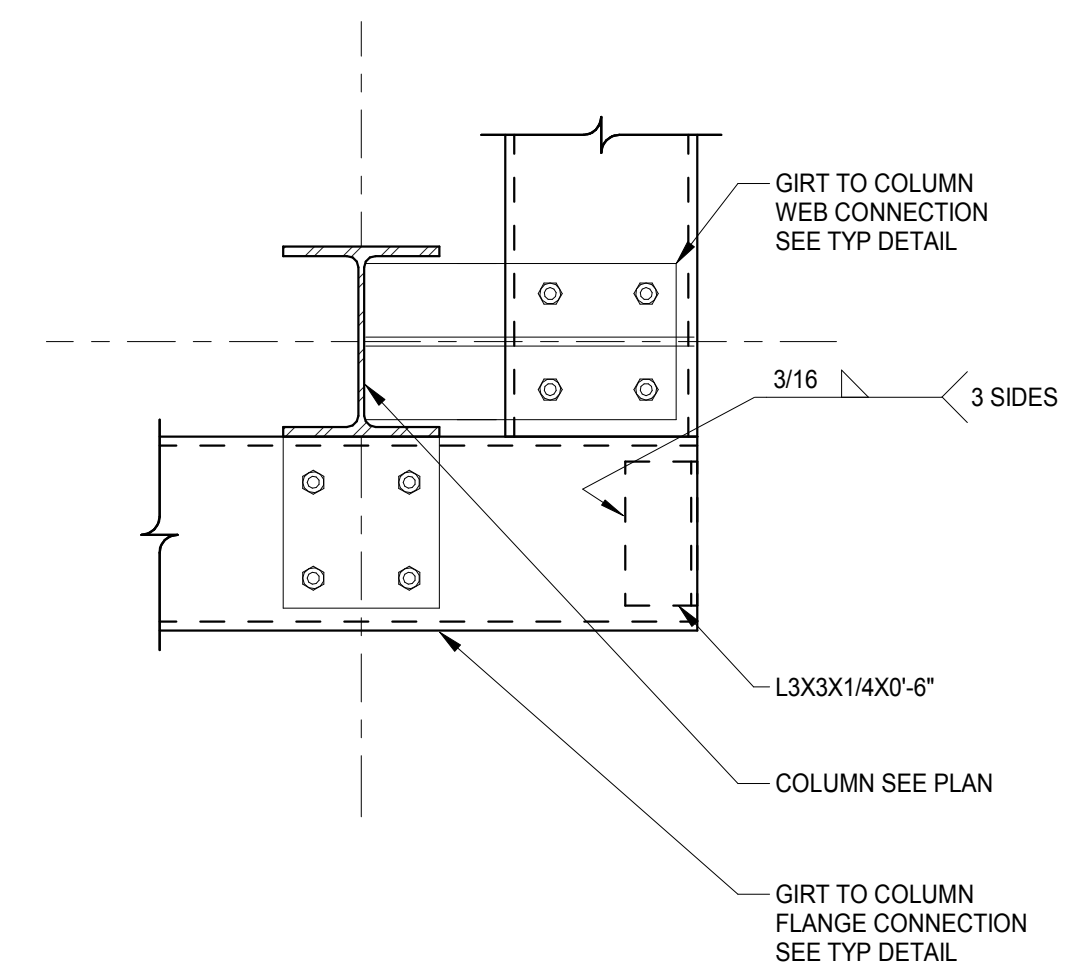
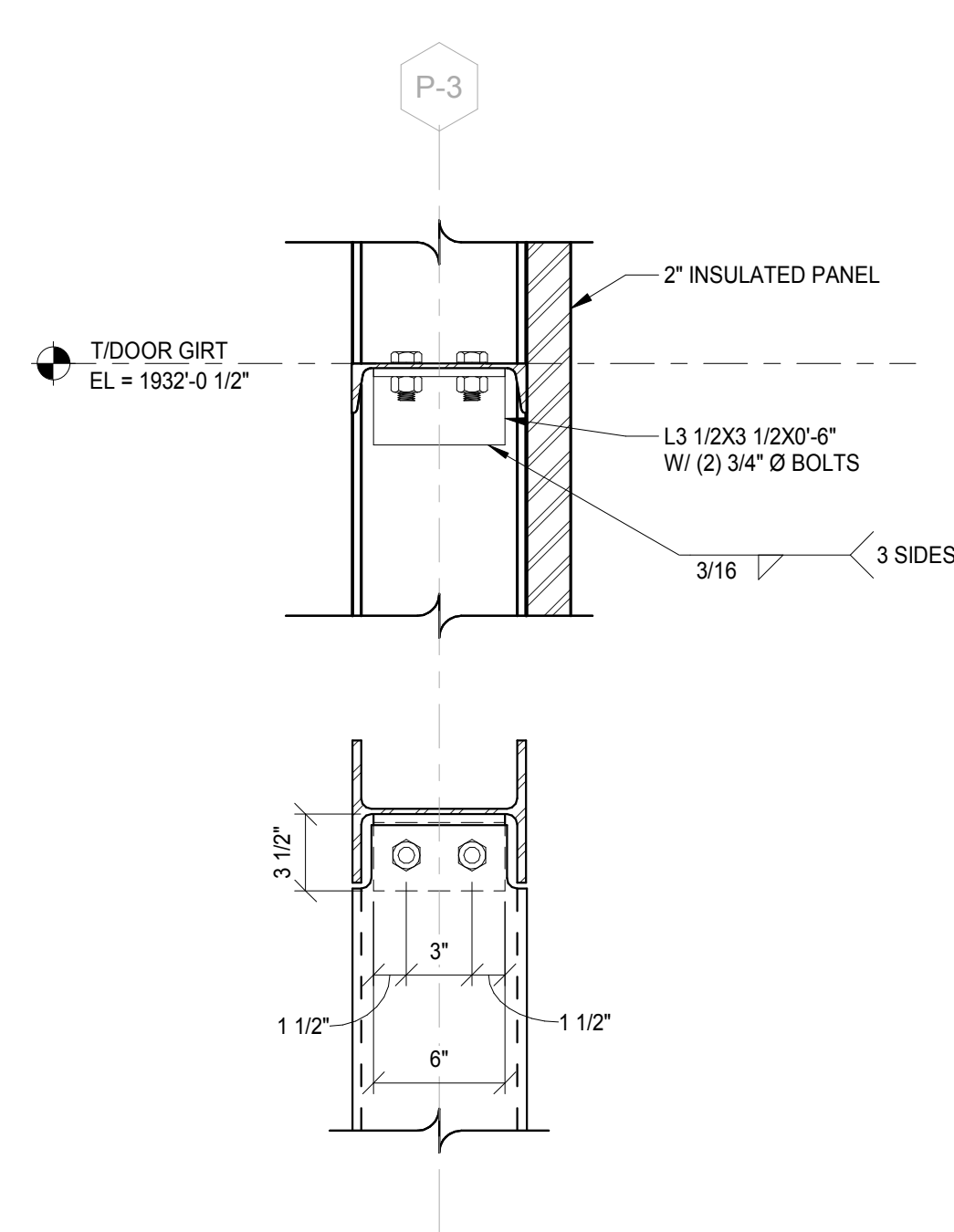
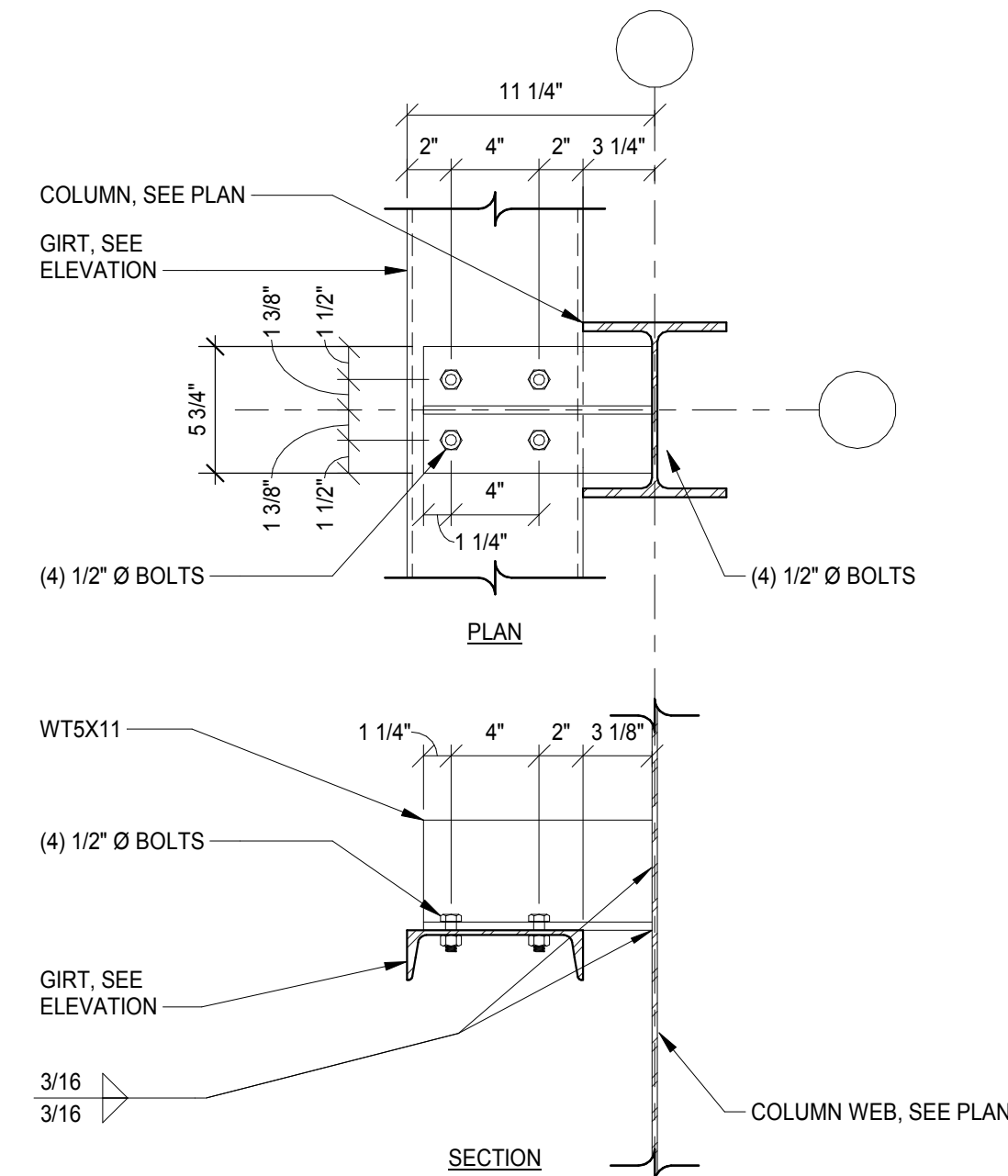
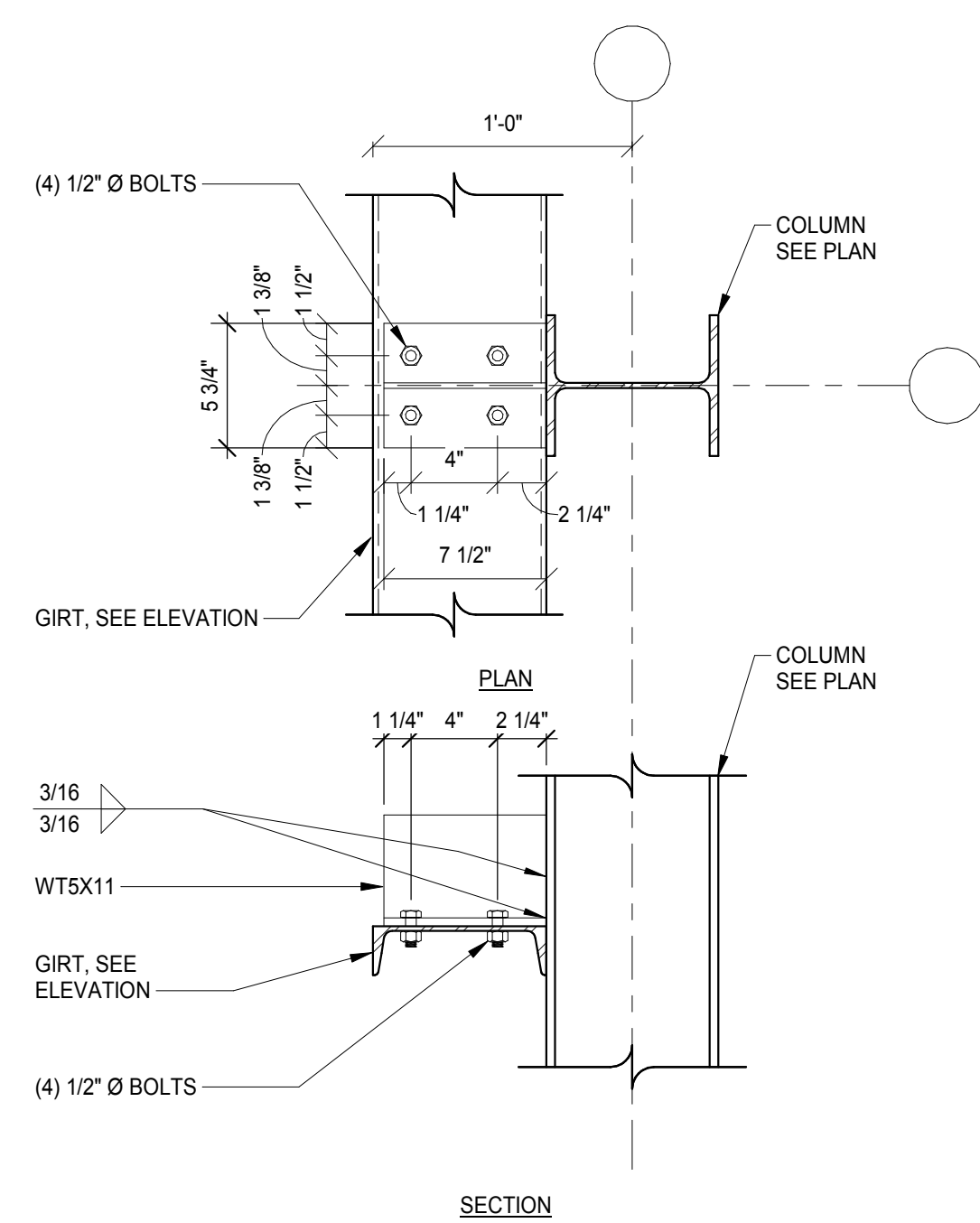
13 ROOF HATCH SECTION
SCALE: 3/8" = 1'-0"

PANEL CONNECTION NOTES:
SCREW SIZE AND SPACING TO BE DETERMINED BY PANEL MANUFACTURER. MANUFACTURER RETAINS THE RIGHT TO VARY CONNECTION DETAILS SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD.

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PROFESSIONAL CIVIL ENGINEER
GEORGE B. LITTLE
E-7743
STATE OF NEBRASKA
08-27-2025

BY	PMG	REVISION DESCRIPTION	ISSUED FOR CONSTRUCTION	DATE	08/27/2025	REV. NO.	0	2025
FRAMING DETAILS								2025
WEC 1 FLY ASH BUNKER ENCLOSURE 4250 E SOUTH ST., HASTINGS, NE 68901								HASTINGS, NE
drawn by: PMG checked by: GBL project no.: 025-02657 date: 08-27-2025								SHEET S501

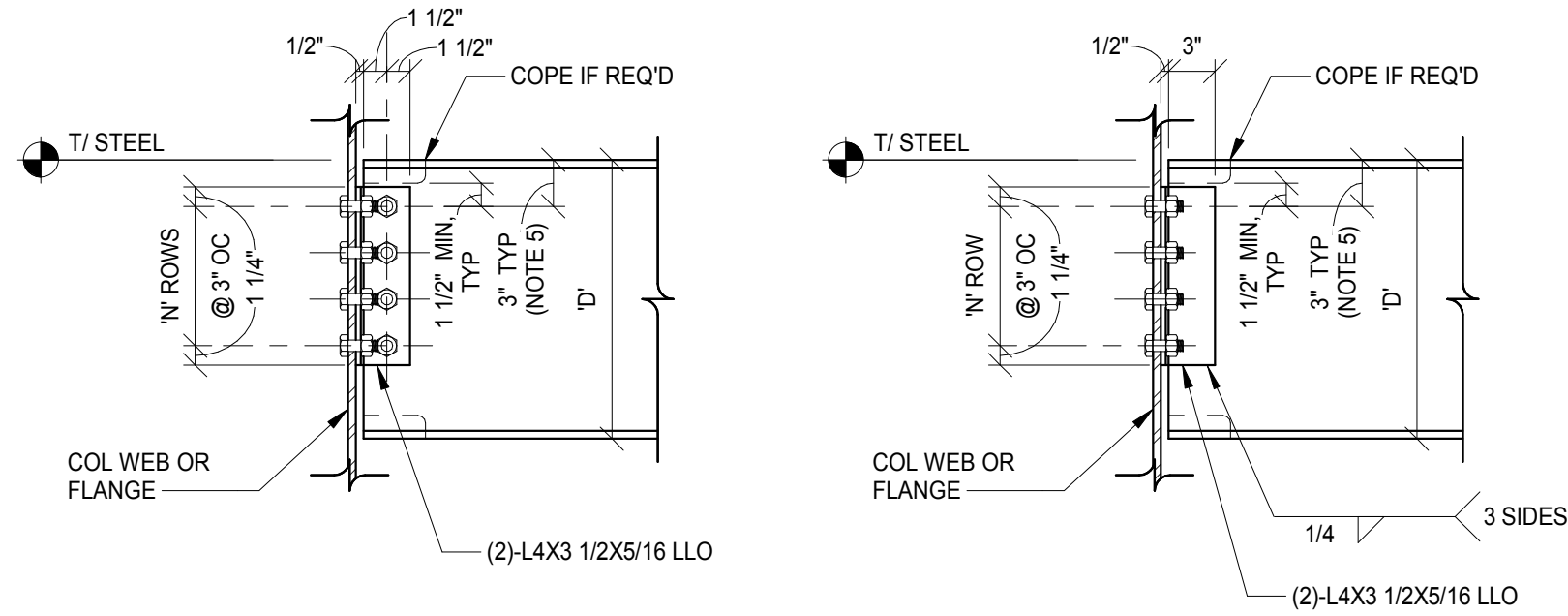


PANEL CONNECTION NOTES:
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TO VARY CONNECTION DETAILS SUBJECT TO THE
APPROVAL OF THE ENGINEER OF RECORD.

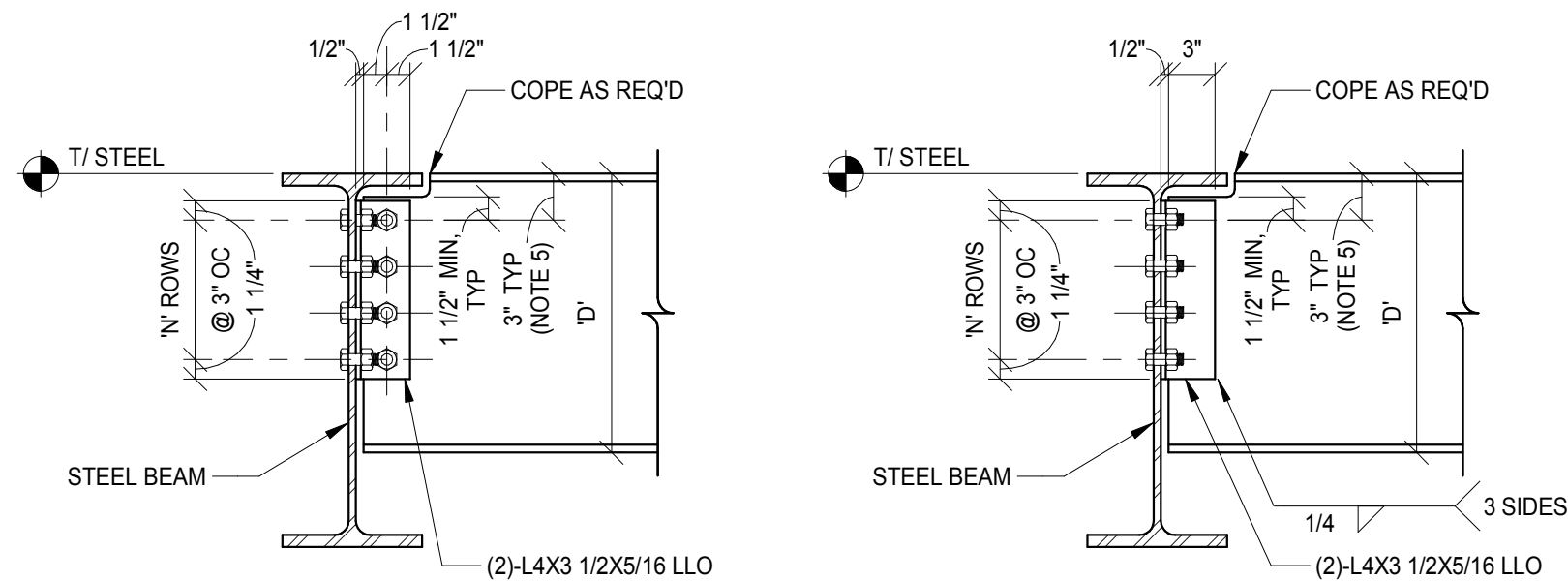
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FRAMING DETAILS	
WEC 1 FLY ASH BUNKER ENCLOSURE 4250 E SOUTH ST, HASTINGS, NE 68901	2025

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TYPICAL CONNECTION AT COLUMNS

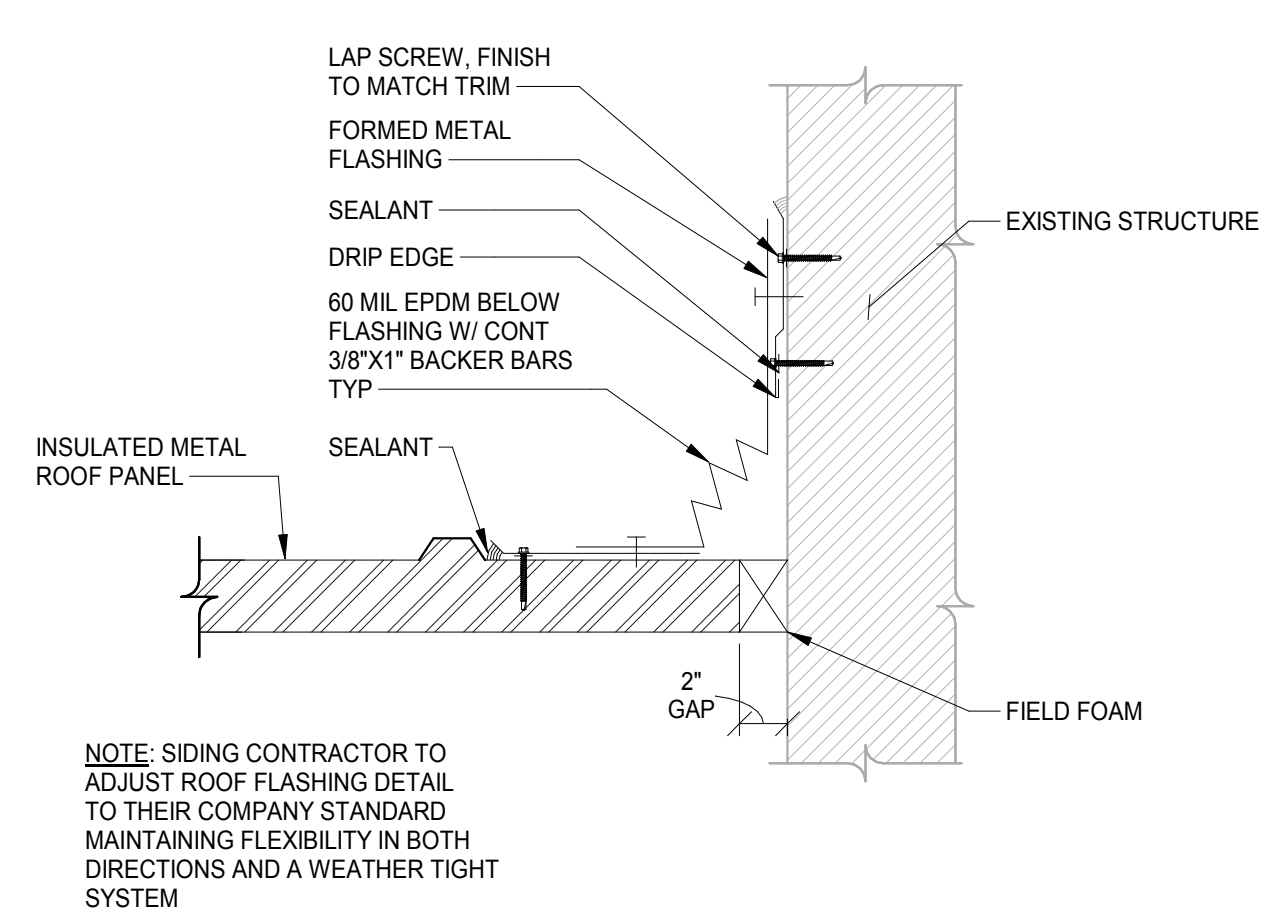
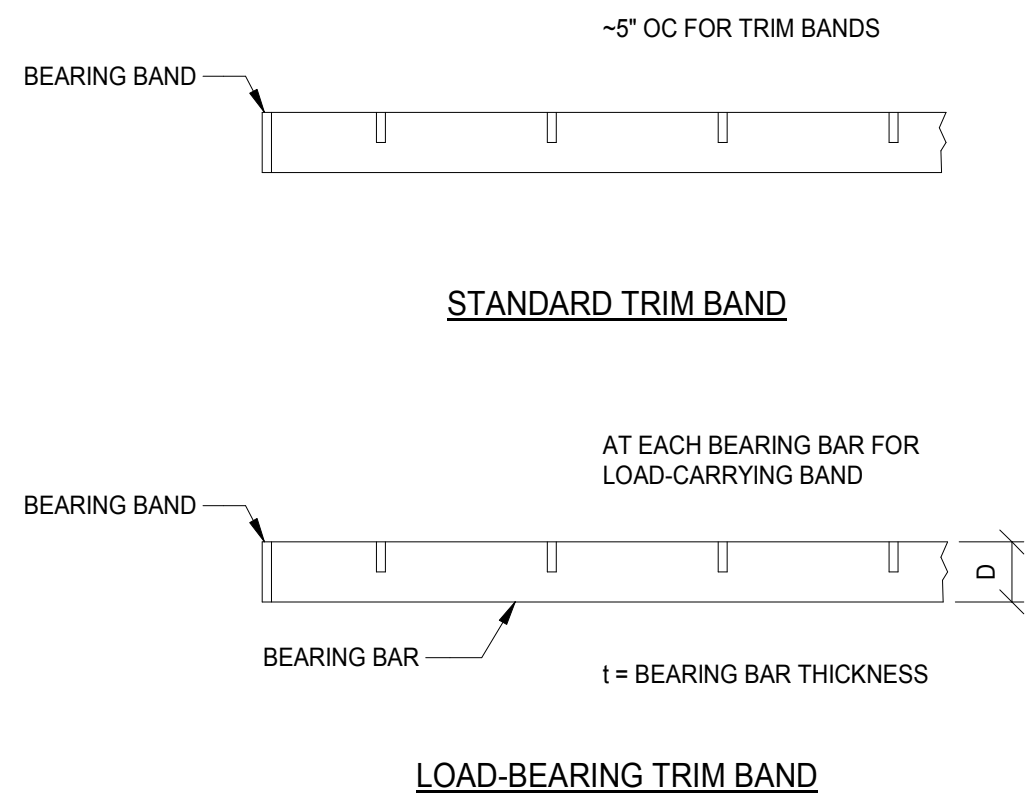


TYPICAL CONNECTION AT GIRDERS

CONNECTION SCHEDULE	
NOMINAL BEAM SIZE 'D'	NUMBER OF BOLT ROWS 'N'
W8, C8, C9, W10, C10	2
W12, C12, W14	3
C15, W16, W18	4
W21, W24	6
W27, W30, W33	7
W36, W40, W44	8

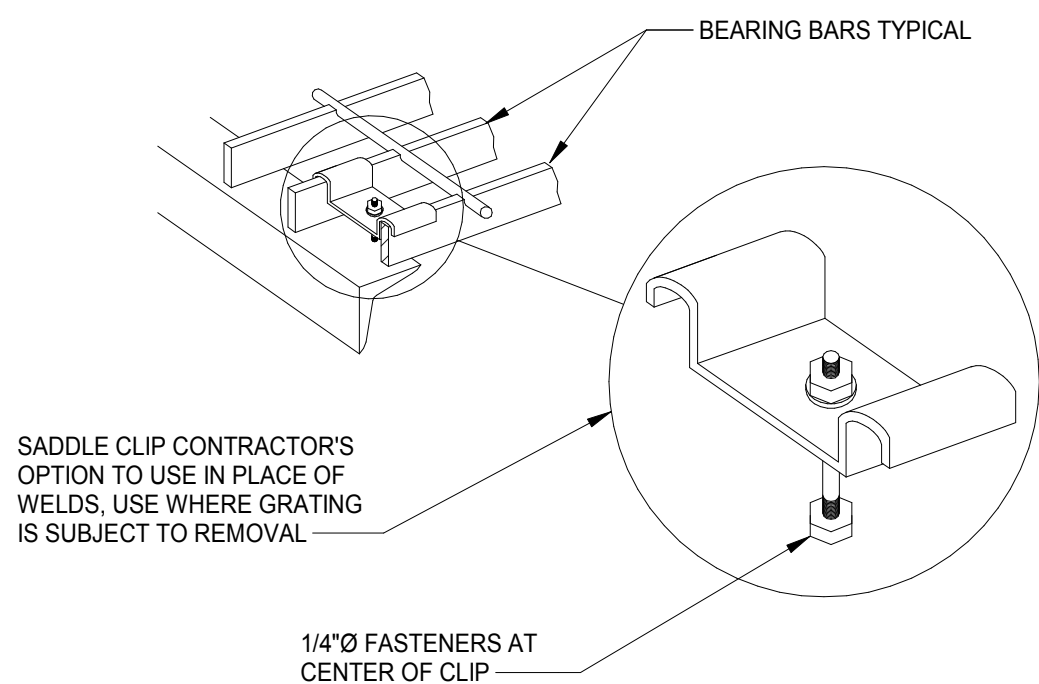
NOTES:

1. PROVIDE DOUBLE ANGLE CONNECTION AT ALL BEAM TO WIDE-FLANGE COLUMN AND GIRDER CONNECTIONS, UNLESS OTHERWISE NOTED.
2. ALL BOLTS SHALL BE 3/4"Ø, CONFORMING TO ASTM F3125, GRADE A325-N AND TIGHTENED TO 'SNUG TIGHT'. BOLT HOLES SHALL BE STANDARD IN BEAM WEB AND STANDARD OR HORIZ. SHORT-SLOTTED IN ANGLES.
3. WHERE BEAMS FRAME INTO BOTH SIDES OF SUPPORTING MEMBER, THE DETAILER SHALL ENSURE CONFORMANCE WITH OSHA ERECTION GUIDELINES. ADD ADDITIONAL ROWS OF BOLTS OR STAGGER ANGLES AS REQUIRED.
4. MIN. EDGE DISTANCE FROM TOP OR BOTTOM BOLT TO A COPE SHALL BE 1 1/2". WHERE DEEP COPES ARE REQ'D., INCREASE DISTANCE FROM TOP OF BEAM TO CL OF TOP BOLT.

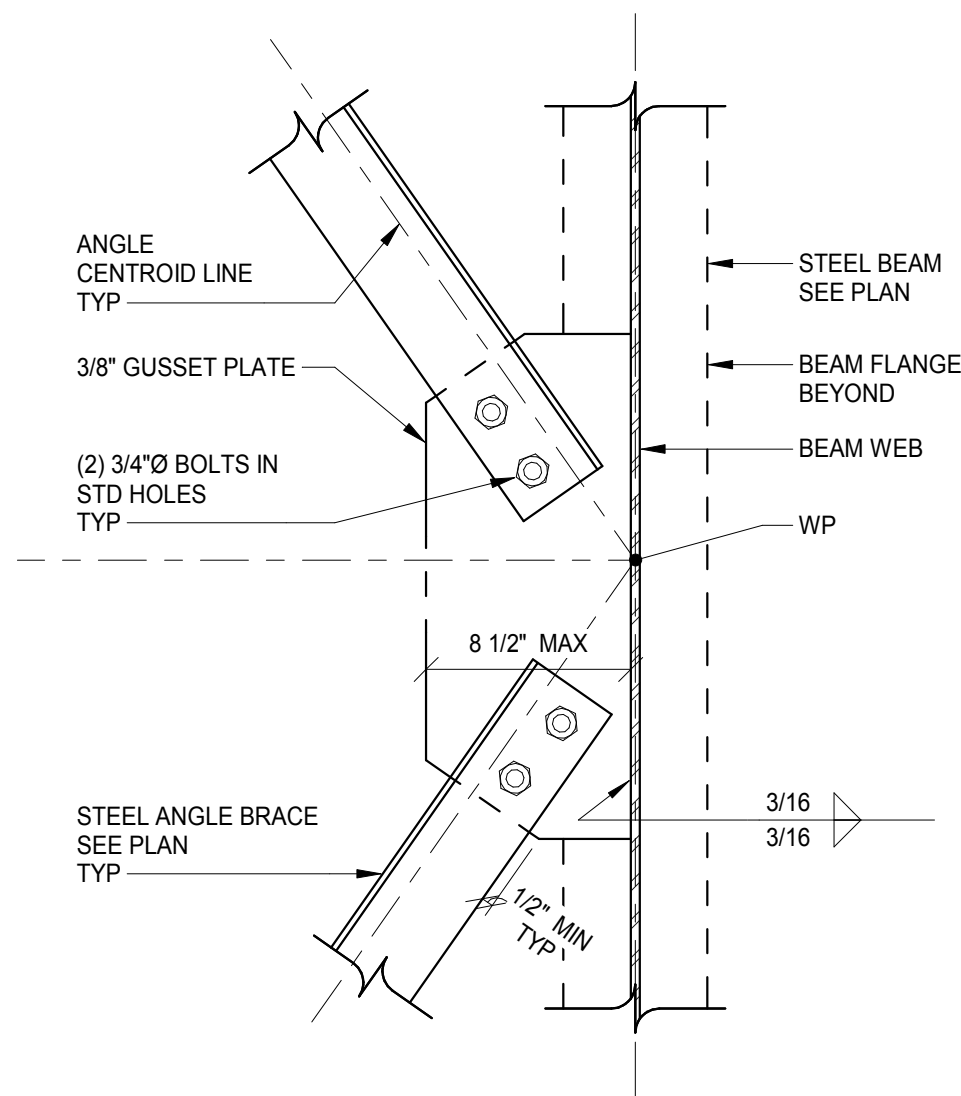


NOTE: SIDING CONTRACTOR TO ADJUST ROOF FLASHING DETAIL TO THEIR COMPANY STANDARD MAINTAINING FLEXIBILITY IN BOTH DIRECTIONS AND A WEATHER TIGHT SYSTEM

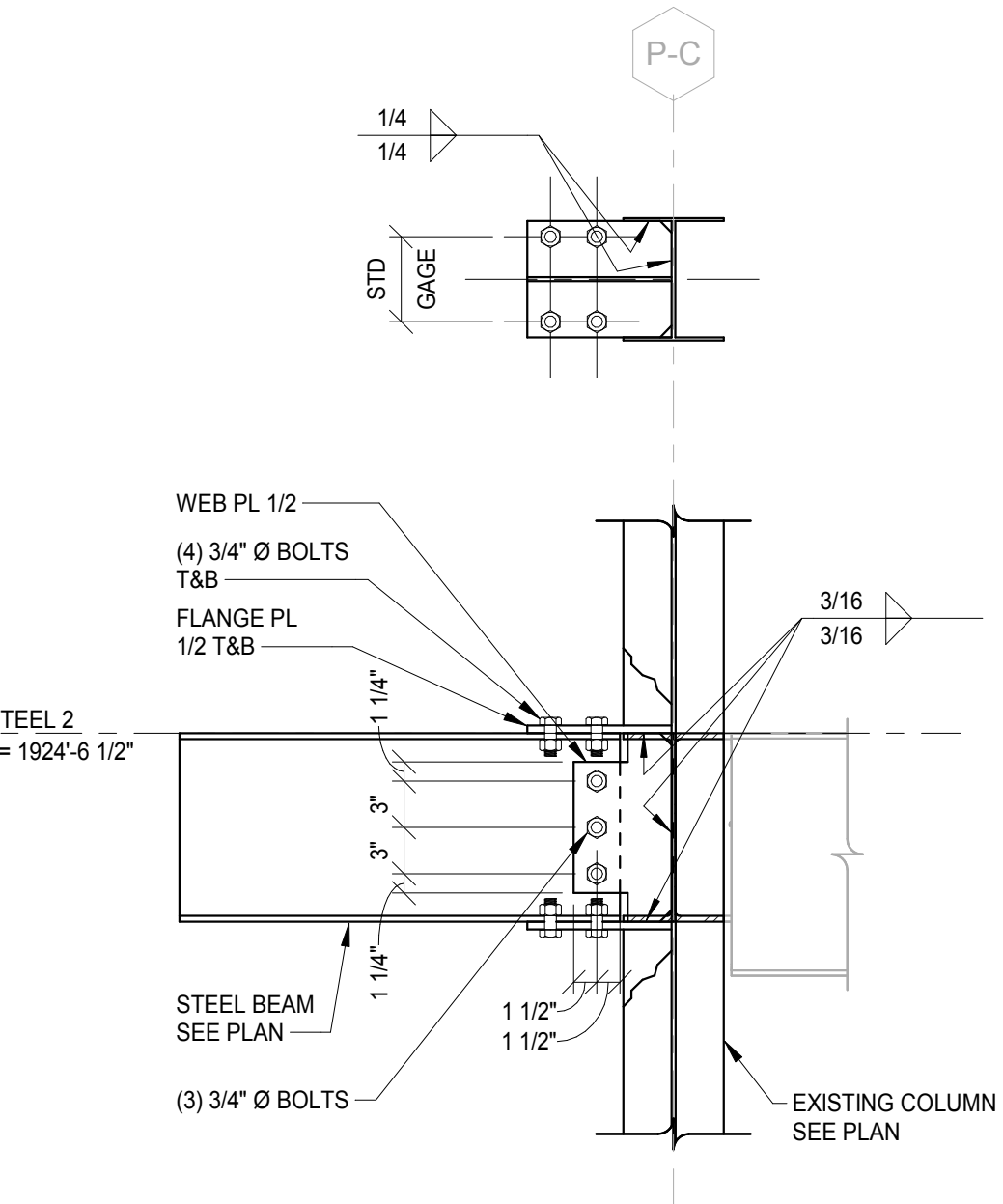
2 TYPICAL GRATING WELD DETAILS
SCALE: 3" = 1'-0"



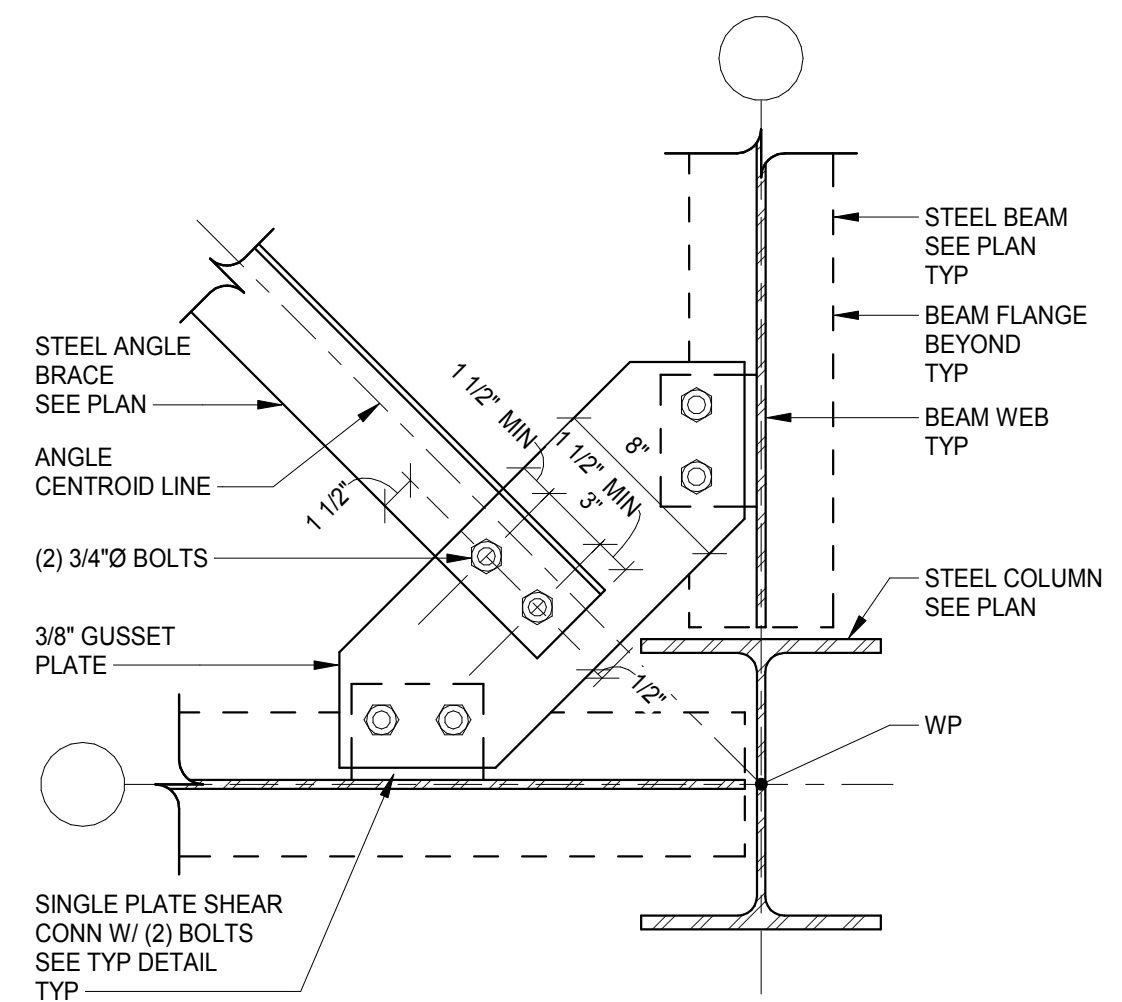
4 FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



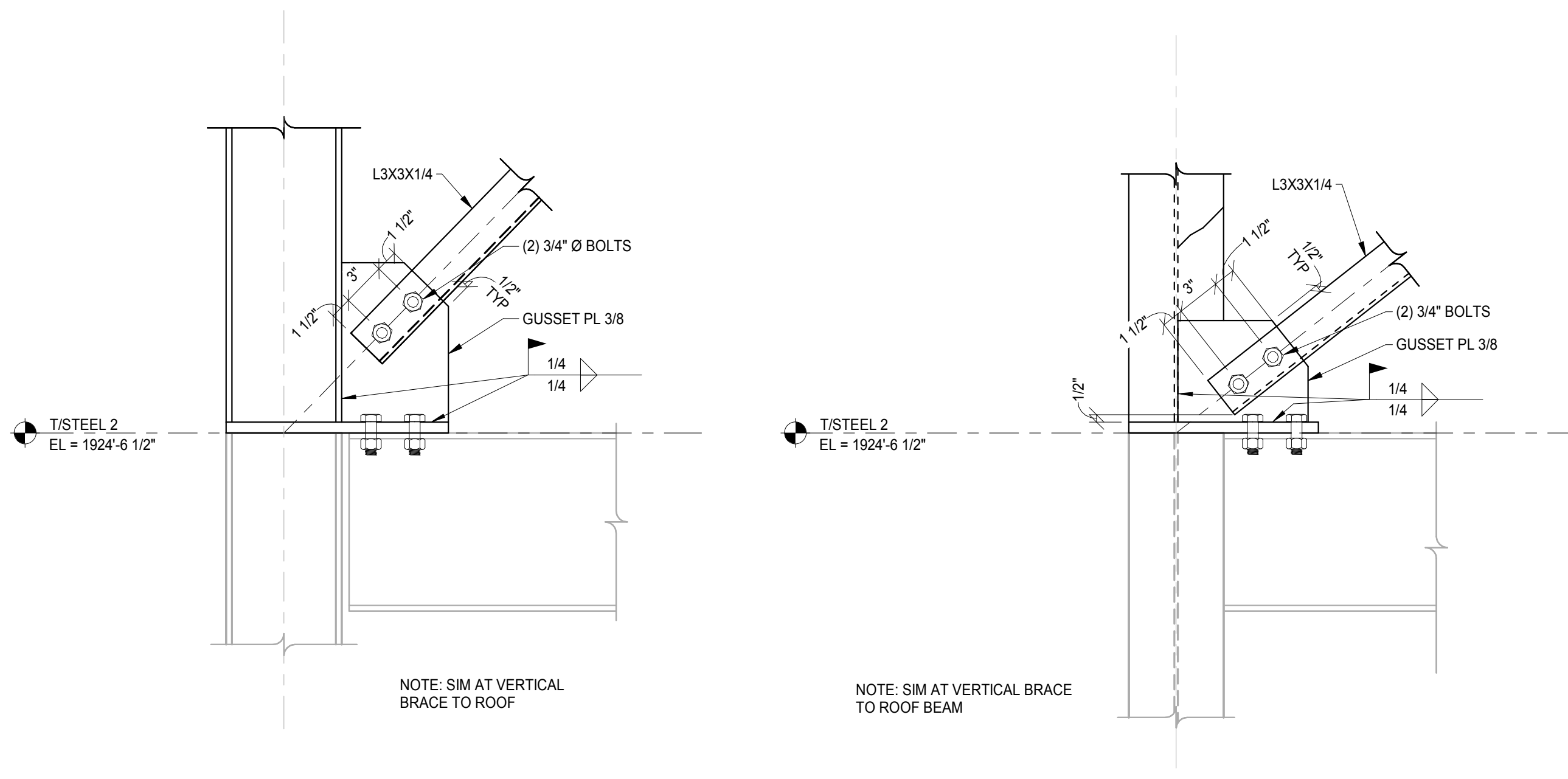
3 OPTIONAL TYPE H-3 SADDLE CLIP
SCALE: 1" = 1'-0"



8 HORIZONTAL BRACE BOLTED CONNECTION #1
SCALE: 1 1/2" = 1'-0"



1 TYPICAL DOUBLE ANGLE SHEAR CONNECTION DETAIL
SCALE: 1" = 1'-0"



5 TYPICAL VERTICAL BRACE AT COL FLANGE
SCALE: 1 1/2" = 1'-0"



6 TYPICAL VERTICAL BRACE AT COL WEB
SCALE: 1 1/2" = 1'-0"



7 OUTRIGGER MOMENT CONNECTION
SCALE: 1" = 1'-0"



9 HORIZONTAL BRACE BOLTED CONNECTION #2
SCALE: 1 1/2" = 1'-0"



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BY	PMG
REVISION DESCRIPTION	ISSUED FOR CONSTRUCTION
REV. NO.	0
DATE	08/27/2025

FRAMING DETAILS	WEC 1 FLY ASH BUNKER ENCLOSURE 4250 E SOUTH ST., HASTINGS, NE 68901	2025
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drawn by:	PMG
checked by:	GBL
project no.:	025-02657
date	08-27-2025

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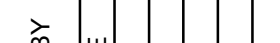
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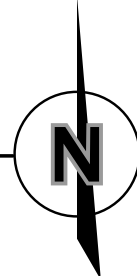
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REVISIONS

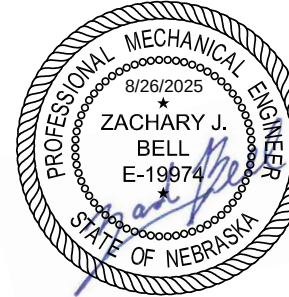
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 SHEET KEYNOTES

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REVISIONS

drawn by: _____ IJR
checked by: _____ ZJE
project no.: _____ 025-02657
date _____ 08-26-2025

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DIVISION 23 - HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)
SECTION 23 00 00 - GENERAL HVAC PROVISIONS
1.1 SUMMARY
FURNISH AND INSTALL ONE EXHAUST FAN, ONE INTAKE LOUVER, AND ONE ELECTRIC UNIT HEATER IN A NEW ENCLOSURE.
SYSTEM SHALL BE CONTROLLED BY A WALL-MOUNTED OCCUPANCY SWITCH.
1.2 RELATED SECTIONS
DIVISION 26 - ELECTRICAL
1.3 REFERENCES
2021 INTERNATIONAL MECHANICAL CODE (IMC)
ASHRAE 62.1 - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
NFPA 70 - NATIONAL ELECTRICAL CODE (NEC)
UL 1995 - HEATING AND COOLING EQUIPMENT
1.4 SUBMITTALS
PRODUCT DATA FOR EACH COMPONENT
SHOP DRAWINGS SHOWING LAYOUT, SPACING, AND PENETRATIONS
SEQUENCE OF OPERATIONS
MANUFACTURER INSTALLATION AND O&M MANUALS
WARRANTY DOCUMENTATION
1.5 QUALITY ASSURANCE
EQUIPMENT SHALL BE LISTED AND LABELED BY UL OR EQUIVALENT
INSTALLATION BY LICENSED HVAC CONTRACTOR
VERIFY COORDINATION WITH ELECTRICAL AND STRUCTURAL TRADES

SECTION 23 34 00 - HVAC FANS
2.1 PRODUCTS
TYPE: WALL-MOUNTED, DIRECT-DRIVE CENTRIFUGAL OR AXIAL EXHAUST FAN
CONSTRUCTION: GALVALIZED STEAL HOUSING, WEATHER-RESISTANT COATING
MOTOR: TOTALLY ENCLOSED, THERMALLY PROTECTED
ACCESSORIES:
GRAVITY BACKDRAFT DAMPER
BIRD SCREEN
WEATHER HOOD
2.2 PERFORMANCE
AIRFLOW: MINIMUM 0.75 CFM PER SQUARE FOOT OF FLOOR AREA (PER IMC 403.3.1.1)
STATIC PRESSURE: AS REQUIRED BY SYSTEM RESISTANCE
SOUND: MAXIMUM 55 dBA AT 3 FEET
2.3 EXECUTION
MOUNT FAN TO DISCHARGE DIRECTLY OUTDOORS
MAINTAIN MINIMUM 10 FEET HORIZONTAL SEPARATION FROM INTAKE LOUVER (IMC 401.4)
SEAL ALL PENETRATIONS WITH FIRE-RATED CAULK
PROVIDE DISCONNECT SWITCH WITHIN SIGHT OF UNIT
SECTION 23 37 00 - AIR OUTLETS AND INLETS
3.1 PRODUCTS
TYPE: FIXED-BLADE ALUMINUM LOUVER WITH BIRD SCREEN
CONSTRUCTION: EXTRUDED ALUMINUM, ANODIZED FINISH
ACCESSORIES:
OPTIONAL FILTER RACK
MOTORIZED DAMPER
3.2 PERFORMANCE
SIZED TO MAINTAIN <500 FPM FACE VELOCITY
PRESSURE DROP: <0.05 IN. W.G. AT DESIGN AIRFLOW
3.3 EXECUTION
MOUNT ON WALL OPPOSITE EXHAUST FAN
MAINTAIN 10 FEET HORIZONTAL SEPARATION FROM EXHAUST OUTLET (IMC 401.4)
FLASH AND SEAL ALL WALL PENETRATIONS
TIE DAMPERS (IF USED) TO OCCUPANCY SWITCH
SECTION 23 82 00 - TERMINAL HEATING UNITS
4.1 PRODUCTS
TYPES: WALL-MOUNTED ELECTRIC UNIT HEATER
CONSTRUCTION: STEAL CABINET WITH POWDER-COATED FINISH
HEATING ELEMENT: NICKEL-CHROMIUM WIRE
CONTROL:
INTEGRAL THERMOSTAT OR WALL MOUNTED THERMOSTAT
HIGH-LIMIT SAFETY CUTOFF
FAN DELAY RELAY
4.2 PERFORMANCE
CAPACITY: SIZED FOR ENCLOSURE HEAT LOSS
VOLTAGE: 480V OR AS REQUIRED BY SITE
AIRFLOW: HORIZONTAL DISCHARGE, 300-500 CFM
4.3 EXECUTION
MOUNT 7 FEET HIGH ON WALL PER PLAN DRAWINGS
PROVIDE LOCAL DISCONNECT AND OVERCURRENT PROTECTION (NEC COMPLIANT)
INTERLOCK WITH EXHAUST FAN TO PREVENT OPERATION WITHOUT VENTILATION
SECTION 23 09 00 - INSTRUMENTATION AND CONTROLS
5.1 CONTROLS
OCCUPANCY SWITCH:
ACTIVATES EXHAUST FAN AND OPENS LOUVER
ENERGIZES ELECTRIC UNIT HEATER IF TEMPERATURE IS BELOW 50 F SETPOINT
MANUAL OVERRIDE:
TOGGLE SWITCH FOR MAINTENANCE MODE
SAFETY INTERLOCKS:
HEATER SHALL NOT OPERATE UNLESS FAN IS RUNNING
HIGH-LIMIT TEMPERATURE CUTOFF

EXHAUST FANS

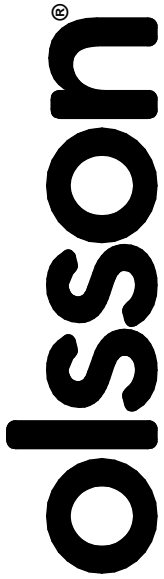
MARK	SERVES	CFM	FRPM	ESP	HP	MAX SONES	ELECTRICAL DATA		OPERATED BY	MANUFACTURER	MODEL	REMARKS
							VOLTS	PH				
EF-1	ASH BUNKER ENCLOSURE	254	1,550	0	1/25	5.37	115	1		DAYTON	484X36	
REMARKS: 1. FAN CONTROLLED BY WALL-MOUNTED MANUAL SWITCH; OPERATION REQUIRED DURING OCCUPANCY PER IMC 403.1. 2. CAST ALUMINUM PROPELLER. 3. DIRECT DRIVE WITH DIAL SPEED CONTROLLER FACTORY MOUNTED AND WIRED ON FAN. 4. CORROSION RESISTANT FASTENERS. 5. FLUSH-WITH-EXTERIOR WALL HOUSING WITH OSHA GUARD, COLOR SELECTED BY OWNER FROM MANUFACTURER'S STANDARD COLOR CHART. 6. MOTOR ACCESS FROM INTERIOR OF BUILDING. 7. SEALED BEARINGS. 8. INSULATED LOW-LEAKAGE 24-VOLT MOTORIZED DAMPER WITH END SWITCH ON DISCHARGE SIDE OF FAN. 9. FACTORY DISCONNECT SWITCH FACTORY MOUNTED AND WIRED ON FAN.												

LOUVERS

MARK	TYPE	APPLICATION	CFM	TOTAL LOUVER FREE AREA (SQ FT)	FREE AREA VELOCITY (FPM)	MAX PD (IN WC)	SIZE (INCHES)			MANUFACTURER	MODEL	REMARKS
							W	H	D			
L-1	FLAT BLADE	INTAKE	350	0.8	3500	4	15	15	3	DAYTON	3HHP4A	
REMARKS: 1. PROVIDE WITH 2-POSITION, SPRING RETURN, MOTORIZED ACTUATOR WITH END SWITCH. 2. PROVIDE WITH FACTORY APPLIED 2 COAT PVDF FLUOROPOLYMER PAINT FINISH, COLOR SELECTED BY OWNER FROM MANUFACTURER'S STANDARD COLOR CHART.												

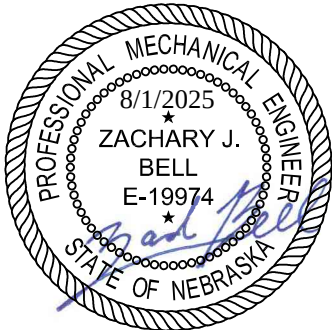
UNIT HEATERS (ELECTRIC)

MARK	LOCATION	ELECTRIC COIL DATA					ELECTRICAL DATA			MOUNTING HEIGHT	MANUFACTURER	MODEL	REMARKS
		CFM	KW	MBH	EAT (°F)	LAT (°F)	VOLTS	PH	AMPS				
UHE-1	ASH BUNKER ENCLOSURE	500	5	17.06	18.4	50	480	3	7.2	7	MODINE	HEX6-480360-050	
REMARKS: 1. PROVIDE WITH INTERNAL THERMOSTAT. 2. UNIT HEATER TO BE CONTROLLED BY BUILT-IN THERMOSTAT. HEATING OPERATION ONLY; SYSTEM SHALL NOT OPERATE DURING COOLING SEASON. INSTALL PER MANUFACTURER'S INSTRUCTIONS AND IMC SECTION 309.1 2. SET TEMPERATURE SET POINT TO 50 DEGREES F.													



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Lincoln, NE 68508

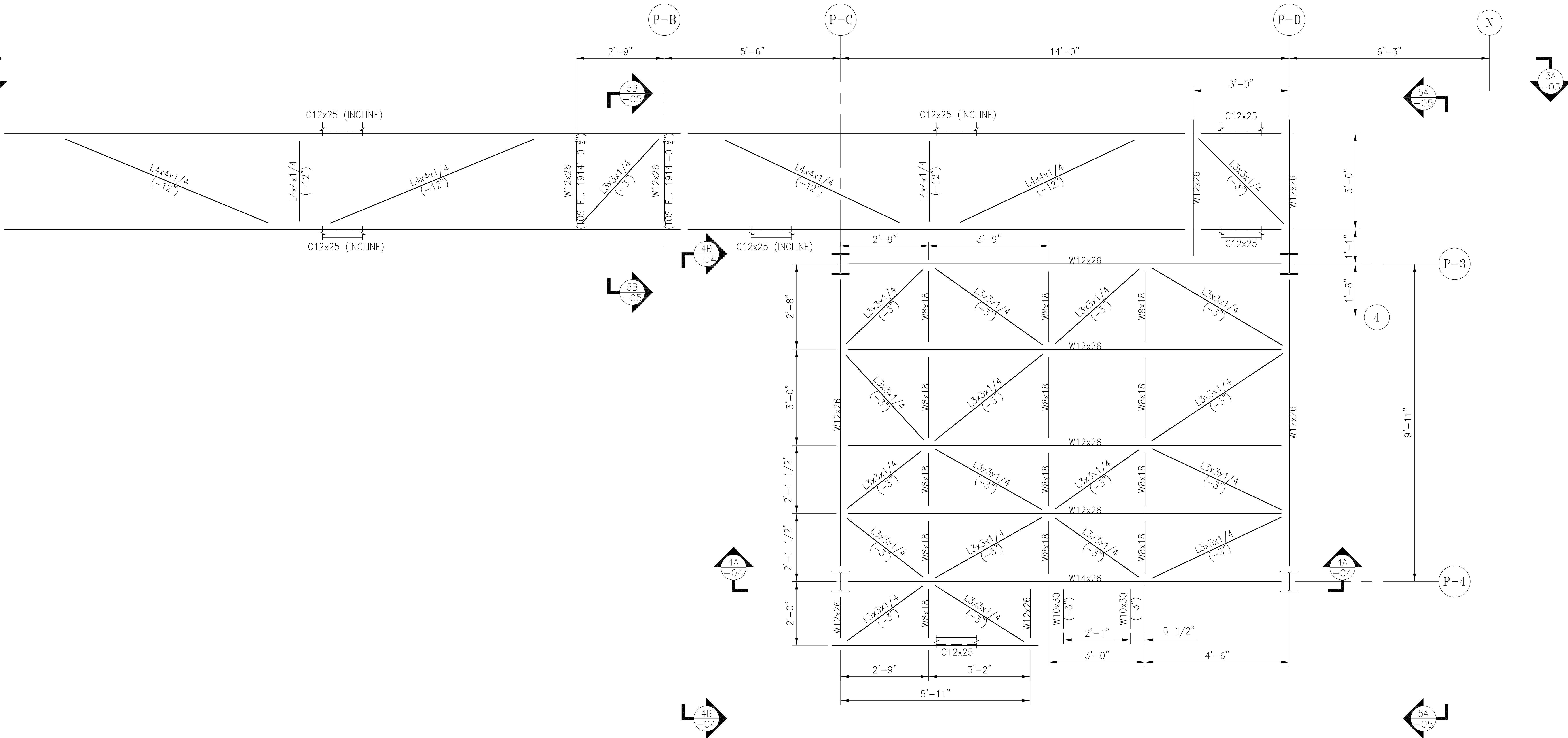
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MECHANICAL SCHEDULES					REV. NO.	DATE	REVISION DESCRIPTION	BY
HASTINGS NE ASH BUNKER ENCLOSURE 4250 E SOUTH ST, HASTINGS, NE 68901					0	08/01/2025	ISSUED FOR CONSTRUCTION	ACE
HASTINGS, NE					2025			
					REVISIONS			

drawn by: _____ IJR
checked by: _____ ZJB
project no.: 025-02657
date: 08-01-2025

SHEET
M601



PLAN 1A
SGC ACCESS PLATFORM & STAIRS
T.O.S. EL. 1924'-6 3/4"

NOTE:
FOR BASE PLATE AND PLANT GRID TIE IN SEE:
223340-01-E205-SERIES

THESE DRAWINGS ARE FOR COORDINATION AND FABRICATOR. THEY WILL BE REPLACED BY THE ERECTION DRAWING 223340-01-V382-SERIES.

REV.	DATE	REV. BY	CKD. BY	ENG. APP.	ENG. APP.	INITIAL ISSUE	REVISION RECORD	DRAWN BY	KBJ	10/20/23	CHECKED BY	MECH. APP.	STRUCT. APP.	ELECT. APP.	KBJ	10/20/23



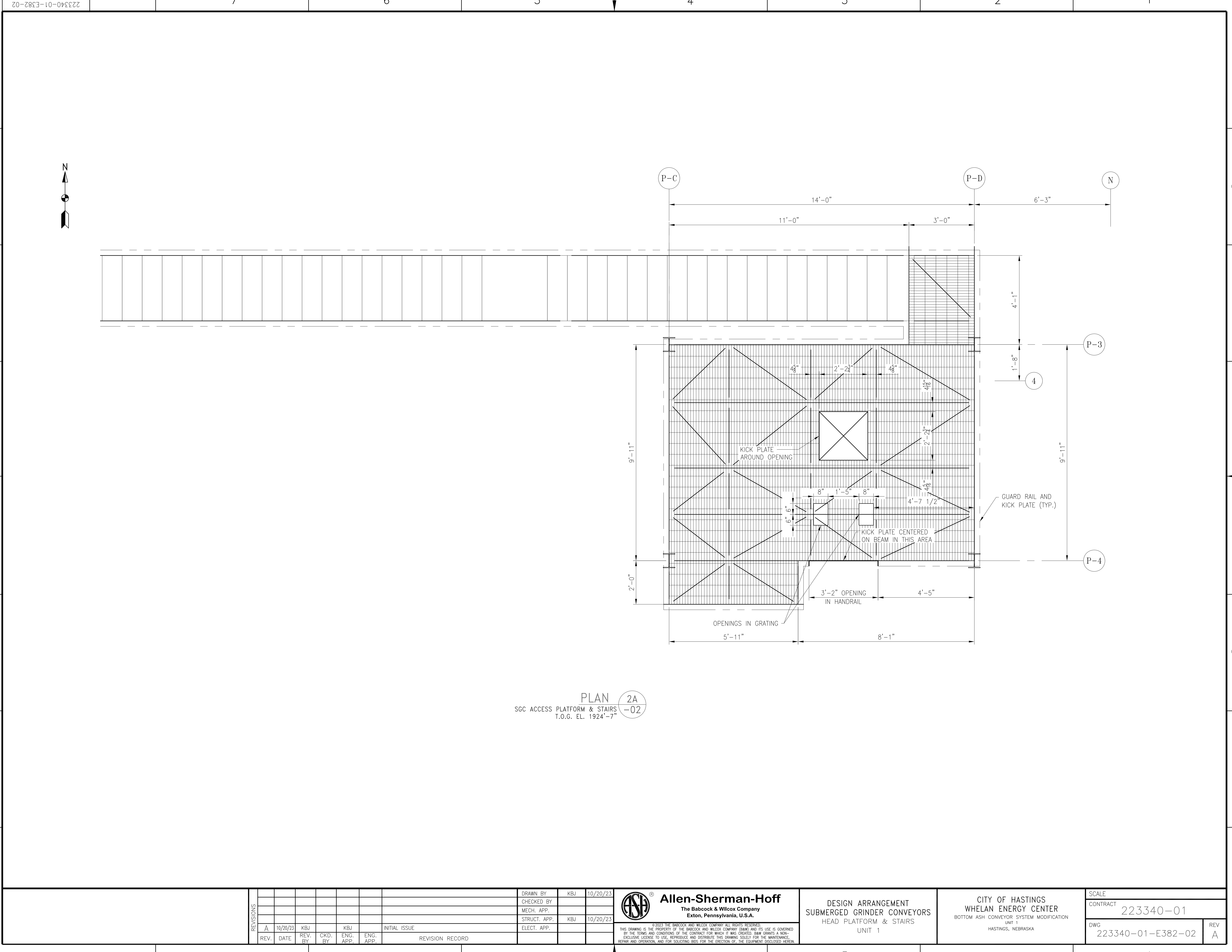
Allen-Sherman-Hoff
The Babcock & Wilcox Company
Exton, Pennsylvania, U.S.A.

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DESIGN ARRANGEMENT
SUBMERGED GRINDER CONVEYORS
HEAD PLATFORM & STAIRS
UNIT 1

CITY OF HASTINGS
WHELAN ENERGY CENTER
BOTTOM ASH CONVEYOR SYSTEM MODIFICATION
UNIT 1
HASTINGS, NEBRASKA

SCALE	
CONTRACT	
223340-01	
DWG	REV
223340-01-E382-01	A



PLAN 2A
SGC ACCESS PLATFORM & STAIRS
T.O.G. EL. 1924'-7"

REVISIONS								DRAWN BY	KBJ	10/20/23	 Allen-Sherman-Hoff The Babcock & Wilcox Company Exton, Pennsylvania, U.S.A.	DESIGN ARRANGEMENT SUBMERGED GRINDER CONVEYORS HEAD PLATFORM & STAIRS UNIT 1	CITY OF HASTINGS WHELAN ENERGY CENTER BOTTOM ASH CONVEYOR SYSTEM MODIFICATION UNIT 1 HASTINGS, NEBRASKA	SCALE			
									CHECKED BY						CONTRACT		
									MECH. APP.						223340-01		
									STRUCT. APP.	KBJ				10/20/23	DWG	223340-01-E382-02	REV
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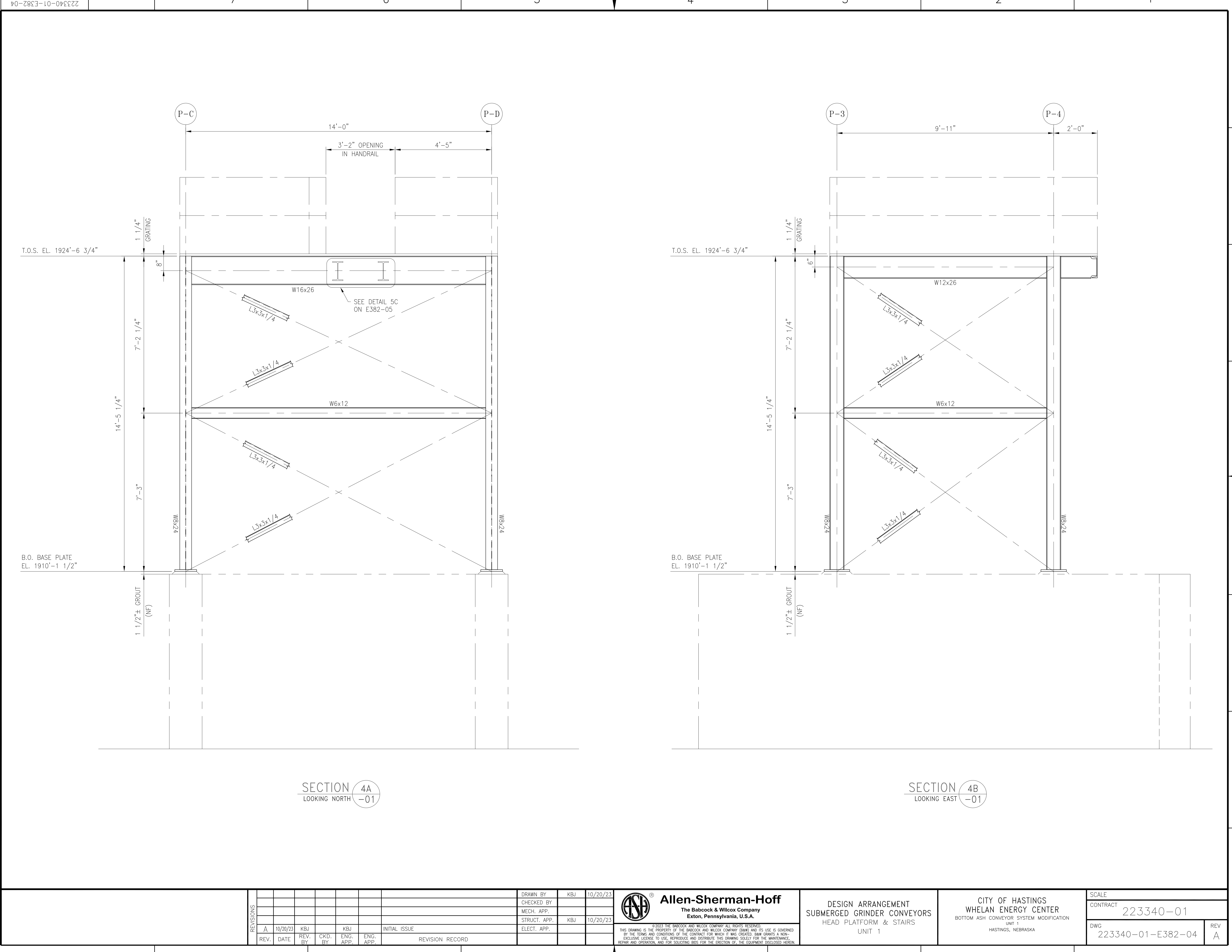


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DESIGN ARRANGEMENT
SUBMERGED GRINDER CONVEYORS
HEAD PLATFORM & STAIRS
UNIT 1

CITY OF HASTINGS
WHELAN ENERGY CENTER
BOTTOM ASH CONVEYOR SYSTEM MODIFICATION
UNIT 1
HASTINGS, NEBRASKA

SCALE	
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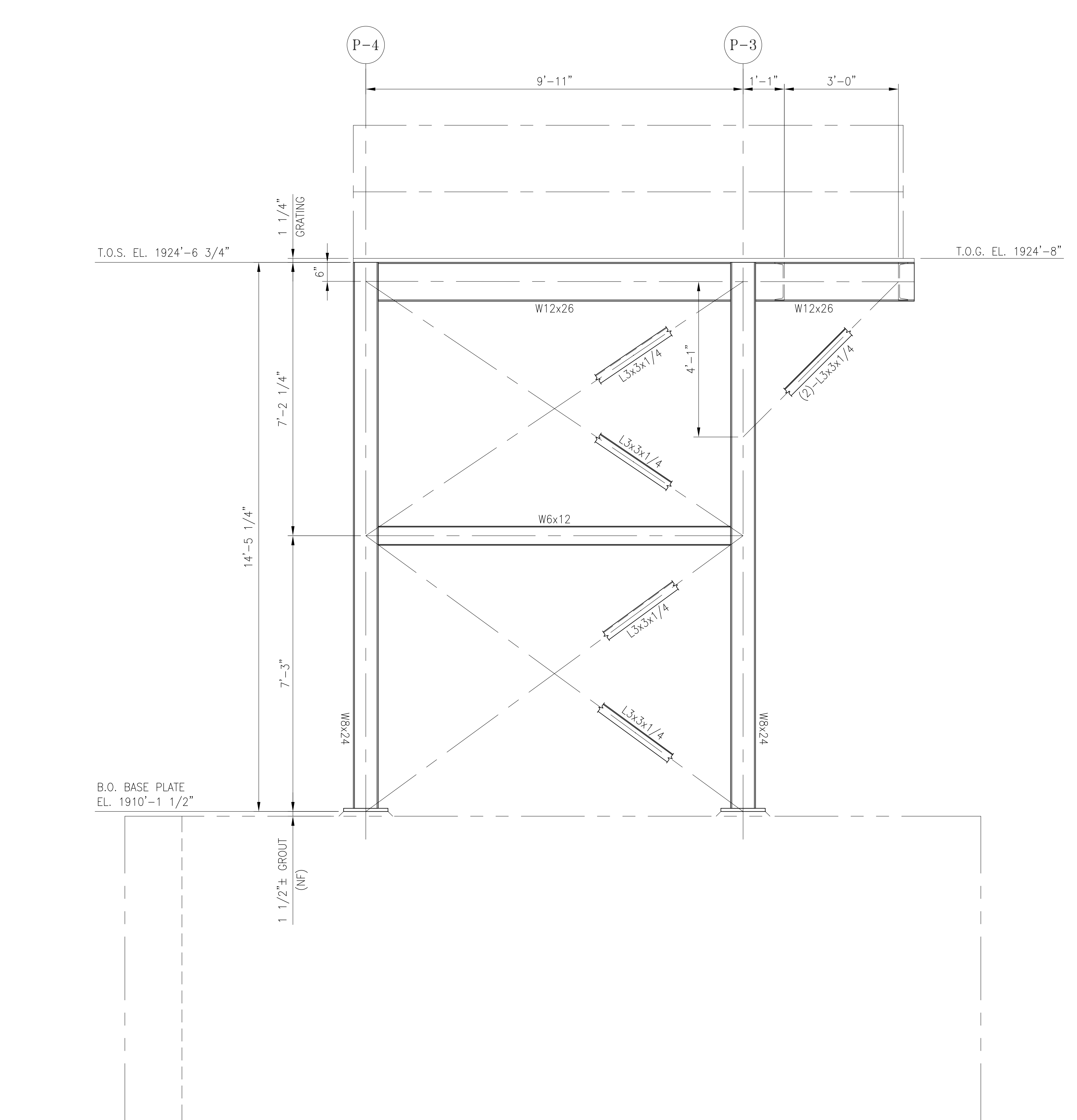
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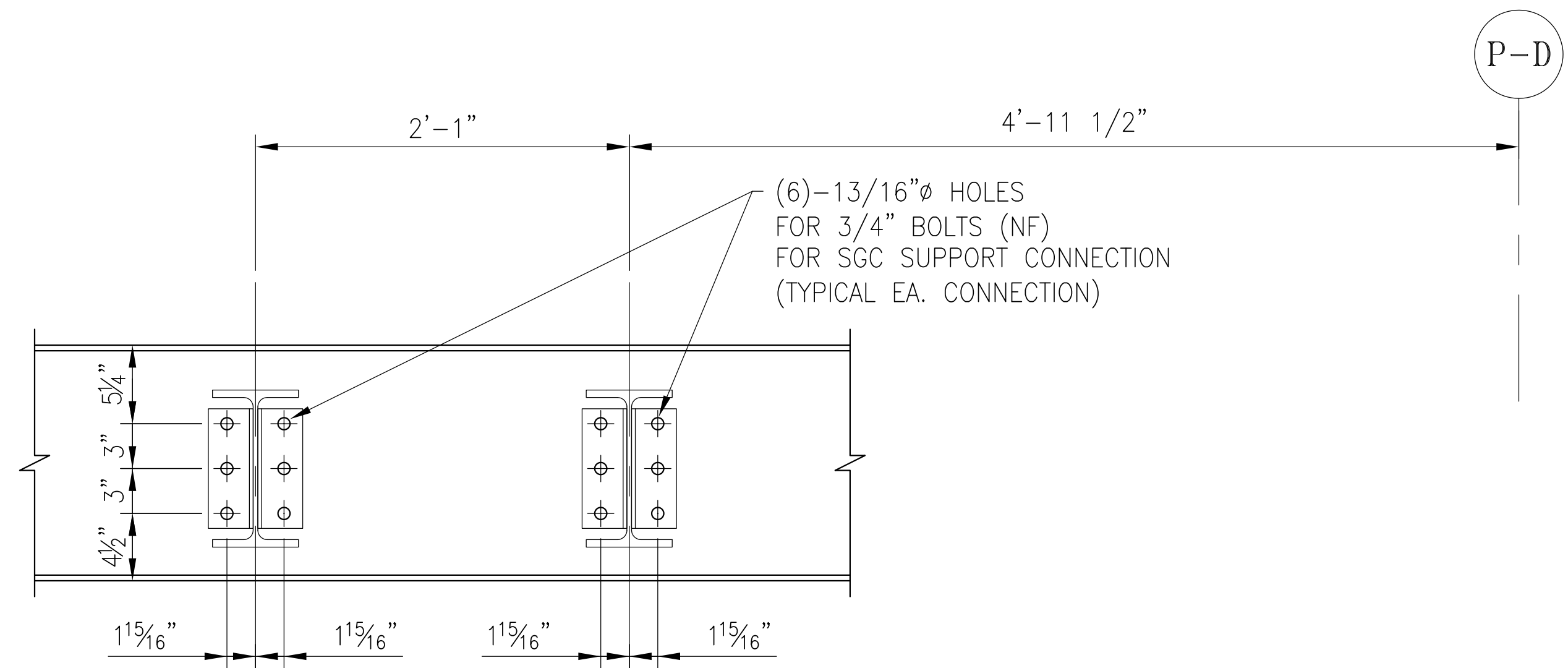
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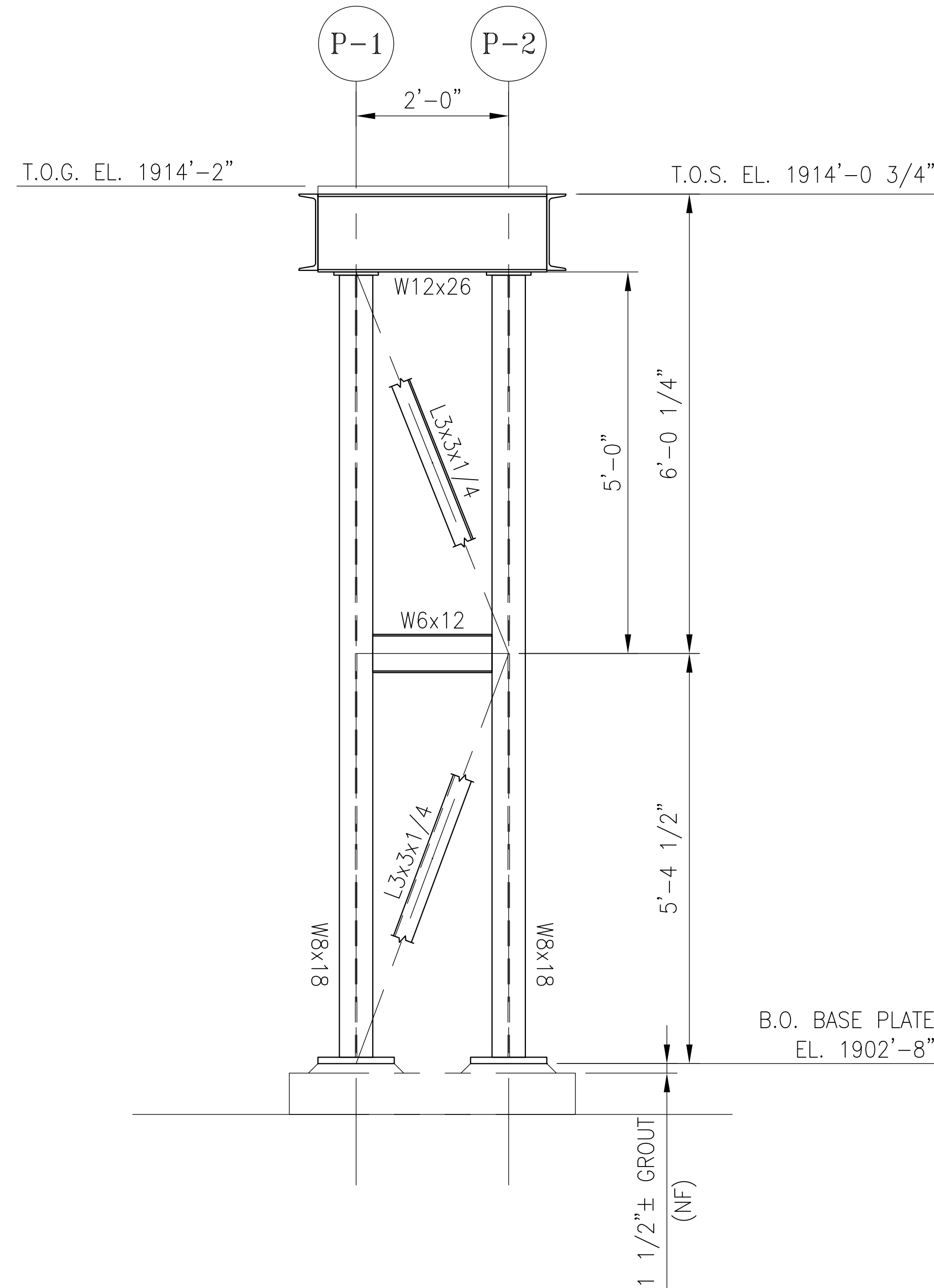
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DWG	223340-01-E382-04	REV	A



SECTION 5A
LOOKING WEST
-01



DETAIL 5C
-04



SECTION 5B
LOOKING EAST
@ COLUMN LINE P-B
-01

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