

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Minnaert Farms	)	
(Property Identification Number	)	PCB No. 27 -
07-01-200-001)	)	(Tax Certification)
	)	

NOTICE

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Pollution Control Board an **APPEARANCE** and **RECOMMENDATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**, copies of which are herewith served upon you.

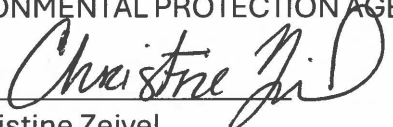
Minnaert Farms
Dustin Minnaert
13792 Indian Trail Road
Geneseo, Illinois 61254

Don Brown, Clerk
Illinois Pollution Control Board
60 E. Van Buren St., Ste. 630
Chicago, Illinois 60605

Copies also provided electronically as follows:

Illinois Department of Revenue
via email at REV.PropTaxApp@illinois.gov
101 West Jefferson
P.O. Box 19033
Springfield, Illinois 62794

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: 
Christine Zeivel
Assistant Counsel
Division of Legal Counsel

DATED: September 16, 2026

Illinois Environmental Protection Agency
2520 W Iles Ave.
P.O. Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544

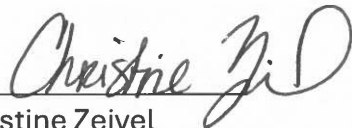
BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Minnaert Farms	)	
(Property Identification Number	)	PCB No. 27-
07-01-200-001)	)	(Tax Certification)
	)	

A P P E A R A N C E

The undersigned, as one of its attorneys, hereby enters an **APPEARANCE** on behalf of Respondent, Illinois Environmental Protection Agency.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: 
Christine Zeivel
Assistant Counsel
Division of Legal Counsel

DATED: September 16, 2026

Illinois Environmental Protection Agency
2520 W Iles Ave.
P.O. Box 19276
Springfield, Illinois 62794-9276
(217)782-5544

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

Minnaert Farms	)	
(Property Identification Number	)	PCB No. 27-
07-01-200-001)	)	(Tax Certification)
	)	

**RECOMMENDATION OF THE ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY**

The Illinois Environmental Protection Agency ("Illinois EPA") hereby files its Recommendation pursuant to Section 125.204 of the regulations of the Illinois Pollution Control Board ("Board"), 35 Ill. Adm. Code 125.204.

1. On December 09, 2024, the Illinois EPA received a request from Dustin Minnaert (Log number TC-151877, Exhibit A) for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204.
2. The facility's address is: Minnaert Farms
11649 Wolf Road
Geneseo, Illinois 61254

The proposed water pollution control facilities in this request are located in the NE ¼ of Section 1, T17N, R2E of the 4th P.M. in Henry County, at the above street address and consist of the following livestock waste management structures:

One (1) concrete manure pit measuring 386 ft. 6 in. (length) x 57 ft. 8 in. (width) x 9 ft. 2.5 in. (depth) and the associated flooring covering the entire pit consisting of concrete slatted flooring and rubber mats.

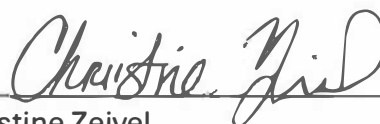
These livestock waste management facilities are used to collect, transport and/or store livestock waste prior to cropland application.

3. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2024), and Section 125.200(a) of the Board's regulations, 35 Ill. Adm. Code 125.200(a), define "pollution control facilities" as:

any system, method, construction, device or appliance appurtenant thereto or any portion of any building or equipment, that is designed, constructed, installed or operated for the primary purpose of: eliminating, preventing, or reducing air or water pollution ...or treating, pretreating, modifying or disposing of any potential solid, liquid or gaseous pollutant which if released without treatment, pretreatment modification or disposal might be harmful, detrimental or offensive to human, plant or animal life, or to property.
4. In order to receive preferential tax treatment as pursuant to 35 ILCS 200/11-5 (2024), pollution control facilities must be certified as such by the Board, 35 ILCS 200/11-20 (2024) and 35 Ill. Adm. Code 125.200(a).
5. Upon receipt of a tax certification application, the Illinois EPA must file a recommendation on the application with the Board, 35 Ill Adm. Code 125.204(a).
6. Based on the information in the application and the purpose of the facility, it is the Illinois EPA's engineering judgment that the described facilities may be considered "pollution control facilities," pursuant to 35 Ill. Adm. Code 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in 35 Ill. Adm. Code 125.200, and are eligible for tax certification from the Board.

WHEREFORE, the Illinois EPA recommends that the Board issue the requested tax certification.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: 
Christine Zeivel
Assistant Counsel
Division of Legal Counsel

Dated: September 16, 2026

Illinois Environmental Protection Agency
2520 W Iles Ave.
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544

STATE OF ILLINOIS

)

COUNTY OF SANGAMON

)

)

)

CERTIFICATE OF SERVICE

I, the undersigned attorney at law, hereby certify that I have served on the date of September 16, 2026, the attached **NOTICE, APPEARANCE** and **RECOMMENDATION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY**, upon the following persons by causing to be mailed a true copy thereof in an envelope duly addressed, bearing proper first class postage, and deposited in the United States mail at Springfield, Illinois:

Minnaert Farms
Dustin Minnaert
13792 Indian Trail Road
Geneseo, Illinois 61254

Copies also provided electronically as follows:

Illinois Department of Revenue
via email at REV.PropTaxApp@illinois.gov
101 West Jefferson
P.O. Box 19033
Springfield, Illinois 62794

[Electronic Filing]

Clerk
Illinois Pollution Control Board
60 E. Van Buren St., Ste. 630
Chicago, Illinois 60605

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

/s/ Christine Zeivel
Assistant Counsel
Division of Legal Counsel
2520 W Iles Ave.
P.O. Box 19276
Springfield, Illinois 62794-9276
217.782.5544
217.782.9143 (TDD)



Illinois Environmental Protection Agency

2520 West Iles Avenue • P.O. Box 19276 • Springfield, Illinois • 62794-9276 • 217-782-3397

JB Pritzker, Governor

James Jennings, Acting Director

Memorandum

To: Mike Roubitchek, Division of Legal Counsel

From: Stephen F. Nightingale, P.E., Manager, Industrial Unit, Permit Section, Division of Water Pollution Control, Illinois Environmental Protection Agency

Date:

AUG 06 2026

SRN 4/22/26

Re: Minnaert Farms
Recommendation of Tax Certification
Log No.: TC-151877
BOW ID No.: W0738120020
Property Index Number: 07-01-200-001

The Bureau of Water received a request on December 09, 2024 from Dustin Minnaert, having a principal place of business at 13792 Indian Trail Road, Geneseo, IL, 61254 for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204. We offer the following recommendation.

The water pollution control facilities in this request include the following:

Minnaert Farms
11649 Wolf Road
Geneseo, IL 61254

NE ¼ of Section 1, Township 17N, Range 2E of the 4th PM in Henry County.

Livestock waste management facilities consisting of:

One (1) concrete manure pit measuring 386 ft. 6 in. (length) x 57 ft. 8 in. (width) x 9 ft. 2.5 in. (depth) and the associated flooring covering the entire pit consisting of concrete slatted flooring and rubber mats.

These livestock waste management facilities are used to collect, transport and/or store livestock wastes prior to cropland application.

These facilities are further described in the enclosed applications and supporting documents.

Based on the information included in this submittal, it is our engineering judgment that the above proposed facilities may be considered "Pollution Control Facilities" under 35 Ill. Adm. Code 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in this section, and therefore eligible for tax certification from the Illinois Pollution Control Board. The Bureau of Water therefore recommends that the Board issue the requested tax certification for these facilities.

If you have any questions regarding the above, please contact Stephanie Burge-Bollero at 217/557-8666.

SAB:TC-151877_Tax Cert Recommendation_20April26.docx

cc: Tax Cert File
Todd Bennett

Agency Recommendation of Pollution Control Facilities.

BOW ID #: W0738120020

Project Name: Minnaert Farms

Date application received: 12/09/2024

Reviewer: SAB

Log number: TC-151877

Legal Description:

NE ¼ of Section 1, T17N, R2E of the 4th P.M.

County: Henry

Facility Contact: Matthew Wagner

709 West Oak Street

Lena, IL 61048

Phone: 815/275-7642

Pollution Control Facility Type:

Cattle/Dairy Livestock Waste Management Facility

Property ID: 07-01-200-001

Applicant: Dustin Minnaert

13792 Indian Trail Road

Geneseo, IL 61254

Facility: Minnaert Farms

11649 Wolf Road

Geneseo, IL 61254

Date Control Devices installed:

10/23/2024

Application Signature by: Matthew L. Wagner

Title: Designated Representative

Contents of Application: Application for Certification (Property Tax Treatment) Pollution Control Facility, Flow Diagram, Drawings, Map

Is there a pollutant control flow diagram? **Yes**

Is there sufficient diagrams showing the pollution control facilities? **Yes**

This facility generates the following pollutants and prevents their discharge as indicated:

Livestock waste is collected and land applied to cropland.

Physical description of pollution control facilities that ARE recommended:

Livestock waste management facilities consisting of:

- One (1) concrete manure pit measuring 386 ft. 6 in. (length) x 57 ft. 8 in. (width) x 9 ft. 2.5 in. (depth) and the associated flooring covering the entire pit consisting of concrete slatted flooring and rubber mats.

Notes:

-03/10/2026- Email sent to applicant and consultant asking for clarification as to what is being requested in application. Asked for a complete narrative specifying all items being requested as well as dimensions and material of construction of each item. Response received from consultant 3/10/26 providing updated narrative and verifying facility location.

-3/11/26- Email sent to consultant/applicant to verify if they would like to include the slatted flooring in their request and asked for more information on the slatted flooring. Response from consultant received 3/11/26.

Nothing follows – SAB - (April 22, 2026)



Wagner Consulting & Agriculture, LLC.
709 West Oak Street
Lena, Illinois 61048
wagnerconsultag@mediacombb.net
815-275-7642

December 2, 2024

RECEIVED
DEC 09 2024

IEPA
BOW/WPC/PERMIT SECTION

Illinois EPA
Division of Water Pollution Control
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Attn: Darin Lecrone, Permit Section
Permit Section

Re: Tax Certification for Livestock Waste Management Facilities

Dear Mr. Lecrone:

On behalf of Minnaert Farms, we are submitting the tax certification for the recently constructed livestock waste management facility. We are also including a copy of the as-built construction drawings for the project, plat book, and flow diagram.

If you should have any questions or require additional information, please feel free to call me at 815-275-7642.

Sincerely,

WAGNER CONSULTING & AGRICULTURE, LLC.

BY Matthew Wagner
Matthew Wagner, P.E.

MW:aw

Encl.

cc: Minnaert Farms w/ encl.
File



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Application for Certification (Property Tax Treatment) Pollution Control Facility

For Agency Use Only

File Number: TC-151877

Date Rec'd: _____

Certification Number: _____

Date: _____

Facility Type (check one): ☐ Air ☒ Water

This form is to be used for any application for certification of property tax treatment for a pollution control facility for air or water from the Illinois EPA. Separate applications must be completed for each pollution control facility claimed. Send the application only to the appropriate address listed below. Do not mix types (air and water). Where both air and water operations are related, send applications to each of the addresses.

If attachments are needed, record them consecutively on an index sheet.

Note: This form should be completed within Acrobat before being saved, printed, signed, and submitted.

Air: Illinois EPA

Attention: William D. Marr, Permit Section
Bureau of Air
1021 North Grand Avenue East, P.O. Box 19276
Springfield, IL 62794-9276

Water: Illinois EPA

Attention: Darin LeCrone, Permit Section
Bureau of Water
1021 North Grand Avenue East, P.O. Box 19276
Springfield, IL 62794-9276

I. Applicant Information

Company Name: Minnaert Farms

Person Authorized to Receive Certification	Person to Contact for Additional Information
Name: <u>Dustin Minnaert</u>	Name: <u>Matthew Wagner</u>
Street Addr: <u>13792 Indian Trail Road</u>	Street Addr: <u>709 West Oak Street</u>
City: <u>Geneseo</u> State: <u>IL</u>	City: <u>Lena</u> State: <u>IL</u>
ZIP: <u>61254</u> Phone: <u>309-912-5580</u>	ZIP: <u>61048</u> Phone: <u>815-275-7642</u>
Email: <u>dminnaert15@gmail.com</u>	Email: <u>wagnerconsultag@mediacombb.net</u>

II. Facility Information

Facility Location: Quarter Section: NE Township: 17-North Range: 2-East
Municipality: _____ Township: Hanna

Note: A plat map location is requested for facilities located outside of municipal boundaries.

Address: 11649 Wolf Road City: Geneseo
State: IL Zip Code: 61254 County: Henry Book Number: _____

Property Index Number: 07-01-200-001 Note: The Property Index Number is the numerical reference used to identify a parcel of real property for assessment and taxation purposes.

Manufacturing Operations Information

Nature of Operations Conducted at the Above Location

Raising and finishing of beef cattle.

Permit Information

WPC Construction Permit Number: N/A Date Issued: _____
NPDES Permit Number: N/A Date Issued: _____ Exp. Date: _____
APC Construction Permit Number: N/A Date Issued: _____
APC Operating Permit Number: N/A Date Issued: _____ Exp. Date: _____

Note: Submit copies of all relevant permits issued by local pollution control agencies (e.g. MSD Construction Permit).

This Agency is authorized to request this information under 415 ILCS 5/4(b)(2012). Disclosure of this information is voluntary and no penalties will result from the failure to provide the information. However, the absence of the information could prevent your application from being processed or could result in denial of your application.

IL 532-0222

APC 151 Rev. 5/2021

Application for Certification (Property Tax Treatment) Pollution Control Facility

Page 1 of 3

Manufacturing Process Information

Please provide information on the manufacturing process and materials on which pollution control facility is used, including each major piece of equipment associated with the pollution control facility (or low sulfur dioxide emission coal fueled device).

Description of the Process

N/A

Materials Used in the Process

N/A

Pollution Control Facility Information

Please provide a narrative description of the pollution control facility (or low sulfur dioxide emission coal fueled device), and an explanation of why its primary purpose is to eliminate, prevent or reduce pollution. State the type of control facility, as well as a narrative description and a process flow diagram describing the pollution control facility. Include an average analysis of the influent and effluent of the control facility stating the collection efficiency, if applicable.

Describe the Pollution Control Facility (or Low Sulfur Dioxide Emission Coal Fueled Device).

Slatted Floor Confinement Barn - 386'6" x 77'5.5" (Pit Size is 386'6" x 57'8" x 9'2.5")

Describe the Primary Purpose of the Pollution Control Facility (or Low Sulfur Dioxide Emission Coal Fueled Device).

The facility provides for waste storage and waste transfer for the manure laden wastewater until waste is land applied at the appropriate agronomic rates.

Identify the statute or regulation (federal or state), or local ordinance, if any, requiring the installation of the subject pollution control facility (or low sulfur dioxide emission coal fueled device).

The Livestock Management Facilities Act and Natural Resource Conservation Service Agency Waste Storage Facility Practice Code (313) were met in regards to the pollution control devices that were installed.

Nature of Contaminants or Pollutants

List air contaminants or water pollution substances released as effluents to the manufacturing processes. Also list the final disposal of any contaminants removed from the manufacturing processes.

Material Retained, Captured or Recovered		
Contaminant or Pollutant	Description	Disposal or Use
Beef manure	Liquid	Waste Storage Structure

Note: Contaminant or pollutant means that which is removed from the process by the pollution control facility.

Point(s) of Waste Water Discharge

Identify the location of the discharge to the receiving stream. This will typically refer to a source of water pollution but can include water-carried wastes from air pollution control facilities.

Plans and Specifications Attached: ☒ Yes ☐ No

Submit Drawings, which clearly show:

- Point(s) of discharge to receiving stream; and
- Sewers and process piping to and from the control facility.

Are contaminants (or residues) collected by the control facility? ☒ Yes ☐ No

Note: If the collected contaminants are disposed of other than as wastes, state the disposition of the materials, and the value dollars reclaimed by the sale or reuse of the collected substances. State the cost of reclamation and related expense.

Project Status

Date Installation Completed: Oct 23, 2024

Provide the date the pollution control facility was first placed into service and operated. If not, explain.

The pollution control device was placed into service on October 30, 2024 only for rainwater. As of today, the roof structure has not been completed, but all concrete work most importantly the waste storage structure are complete.

Status of installation on date of application

Roof structure just needs to be completed.

III. Verification and Signature

The following information is submitted in accordance with the Illinois Property Tax Code, as amended, and to the best of my knowledge is true and correct.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

For incorporated entities, signature should be from an authorized corporate representative.

Matthew L. Wagner

Printed Name

Professional Engineer

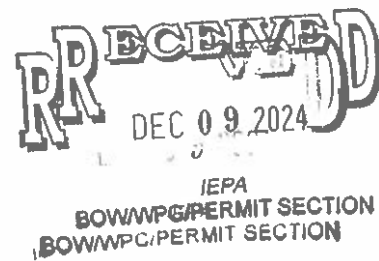
Title

Matthew L. Wagner

Signature

12/2/24

Date



PROPOSED SLATTED FLOOR CONFINEMENT BUILDING
MINNAERT FARMS
NE 1/4 SECTION 1, T17N, R2E, 4TH P.M.

AS-BUILTS

SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET AND LOCATION MAP	1
SLATTED FLOOR BARN SITE DESIGN	2
GENERAL NOTES	GI
STRUCTURAL DRAWINGS	SI-SIO
NUCOR BUILDING DRAWINGS	13 PAGES

SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY
PRACTICE CODE 313 - CONCRETE TANK OPEN TOP	C.F.	160,358
PRACTICE CODE 606 - ENVELOPED PLASTIC, 6"	L.F.	904
PRACTICE CODE 606 - >5 INCH	L.F.	442
PRACTICE CODE 367 - MORE THAN 60' WIDE	S.F.	29,889
PRACTICE CODE 561 - CONCRETE HUA	S.F.	10,001.5

LEGEND

	EDGE OF BUILDING
	PROPOSED GRAVEL ROADWAY
	PERIMETER DRAIN TILE
	ROADWAY CENTERLINE



PROJECT LOCATION MAP

GENERAL NOTES

ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE OF THE OWNER. THIS GUARANTEE SHALL INCLUDE ALL DEFECTS IN MATERIALS AND WORKMANSHIP.

THE CONTRACTOR, BY AGREEING TO PERFORM THE WORK, AGREES TO INDEMNIFY AND HOLD HARMLESS THE OWNER, ENGINEER, ALL AGENTS AND ASSIGNS OF THOSE PARTIES, FROM ALL SUITS AND CLAIMS ARISING OUT OF THE PERFORMANCE OF SAID WORK, AND FURTHER AGREES TO DEFEND OR OTHERWISE PAY ALL LEGAL FEES ARISING OUT OF THE DEFENSE OF SAID PARTIES.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE "APPROVED" ENGINEERING PLANS. THE FULL RESPONSIBILITY FOR KEEPING ALIGNMENTS AND GRADES SHALL REST UPON THE CONTRACTOR.

ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECORDED SHOWING SIZE, LOCATION, AND DEPTH BY CONTRACTOR AND SHALL BE RECONNECTED OR RELOCATED. THE OWNER SHALL BE NOTIFIED IMMEDIATELY.

IF MORE THAN 1 ACRE OF LAND AREA IS TO BE DISTURBED AS PART OF THE CONSTRUCTION OF THE PROPOSED FACILITIES, CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A NOTICE OF INTENT TO CONSTRU FOR GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION SITE ACTIVITIES THRU THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. ALSO AS PART OF THIS REQUIREMENT, THE CONTRACTOR SHALL DEVELOP AND MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN.

ALL DRAINAGE STRUCTURES, INLETS, PIPES, AND ADJACENT ROADWAYS SHALL BE KEPT FREE AND CLEAN OF DIRT AND DEBRIS AT ALL TIMES. THE CONTRACTOR SHALL NOT SPILL AND LEAVE DIRT ON ADJACENT PAVEME IF DIRT IS DEPOSITED ON ADJACENT PAVEMENTS, REMOVE THE DIRT AND CLEAN THE PAVEMENTS AT THE END EACH CONSTRUCTION DAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE END OF EACH WORKING DA EXCESS EXCAVATED MATERIAL SHALL BE RESPREAD THRU THE SITE AND BE REGRADED AND RESEEDDED.

PROPERTY CORNERS THAT ARE ENCOUNTERED SHALL BE PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR.

THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL BENCHMARKS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

ELEVATIONS SHOWN ON THE PLANS REFERENCE LOCAL DATUM.

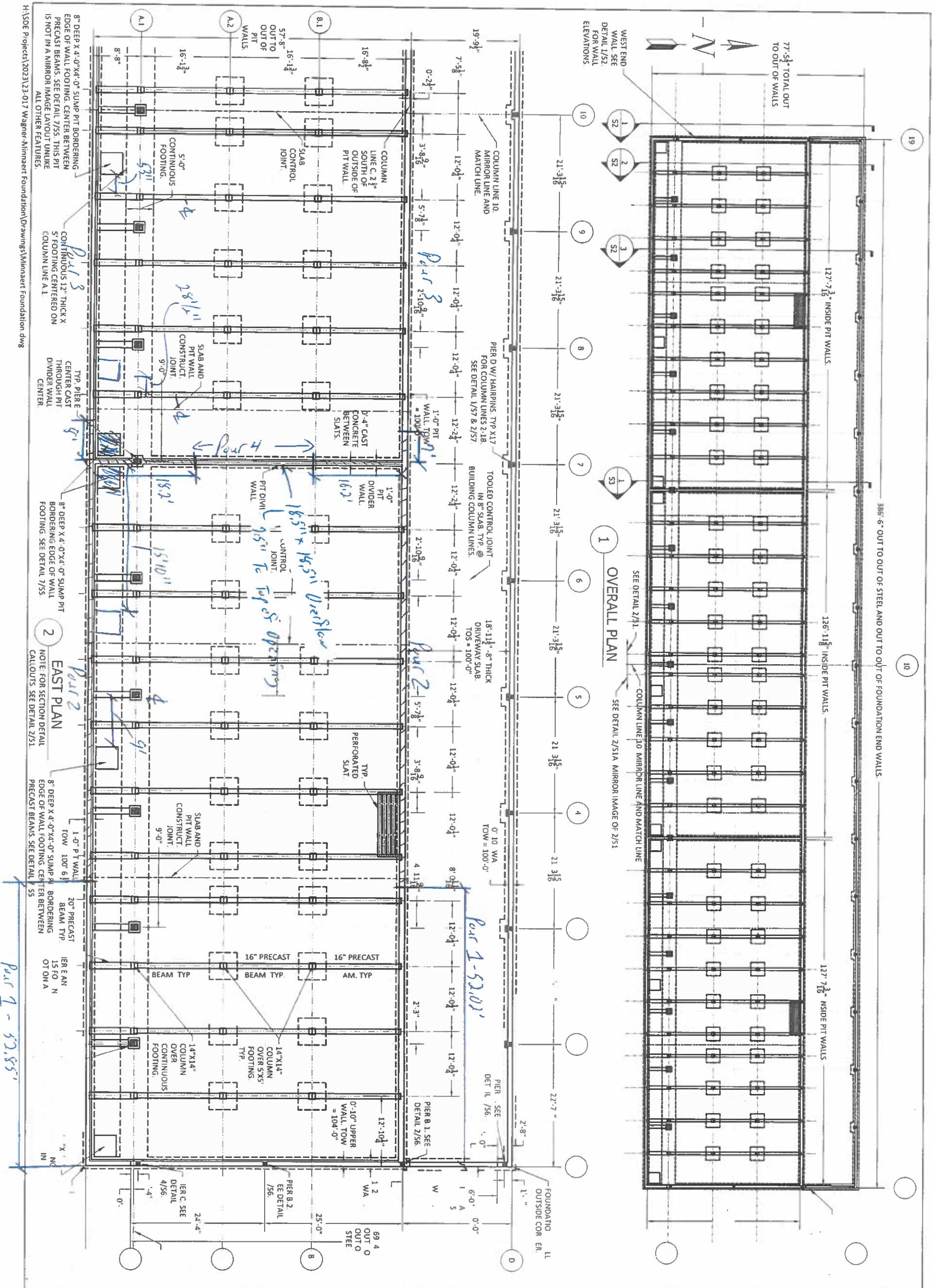
THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY EXISTING UTILITIES PRIOR TO EXCAVATION AND SHALL HAND DIG AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND OBTAINING LOCATION OF EXISTING UTILITIES.

"TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGEMENT, AND BELIEF THE WASTE STORAGE FACILITY (313), SUBSURFACE DRAIN (606), HEAVY USE AREA PROTECTION (561), ROOFS AND COVERS (367) HAVE BEEN INSTALLED IN ACCORDANCE WITH THE ILLINOIS TECHNICAL GUIDE STANDARDS AND SPECIFICATIONS FOR WASTE STORAGE FACILITY (313), SUBSURFACE DRAIN (606), HEAVY USE AREA PROTECTION (561), AND ROOFS AND COVERS (367)."

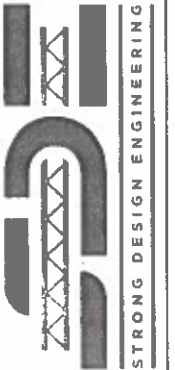
Electronic Filing: Received, Clerk's Office 09/16/2026 **PCB 2027-015**

REVISIONS				DRAWN M.L.W.		WAGNER CONSULTING & AGRICULTURE 709 WEST OAK STREET LENA, ILLINOIS, 61048 815-275-7642 WAGNERCONSULTAG@MEDIACOMBB.NET	 CONTACT JULIE AT 811 OR 800-892-0123 With the following: County _____ City/Township _____ Sec & 1/4 Sec No. _____ 48 HOURS (2 working days) BEFORE YOU DIG	MINNAERT FARMS 11649 WOLF ROAD GENESEO, ILLINOIS 61254	COVER SHEET AND LOCATION MAP	PROJECT # 3W22 DATE 10/16/2024 SHEET # 1 OF (27) SHEETS
NO.	DATE	BY	REMARKS	CHECKED A.A.W.						
				APPROVED M.L.W.						

MISC. ENGINEER NOTES THE CONSTRUCTION DOCUMENTS REPRESENT A STABLE STRUCTURE IN THE COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY BRACING AND/OR SHORING TO SAFELY CONSTRUCT THE PROPOSED DESIGN AND PREVENT ANY DAMAGES DURING CONSTRUCTION. THE ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS SUCH CHANGES ARE AUTHORIZED IN WRITING BY THE ENGINEER. THESE PLANS ARE NOT TO BE REPRODUCED AND ARE ONLY INTENDED FOR THIS SPECIFIC PROJECT. MISC. CONTRACTOR RESPONSIBILITIES COORDINATE THESE DESIGN PLANS BETWEEN WITH CIVIL DESIGN PLANS PREPARED BY WAGNER CONSULTING AND AGRICULTURE AND BUILDING PLANS PREPARED BY NUCOR BUILDING SYSTEMS DATED WITH ENGINEER SEAL 8/28/23. CONTRACTOR SHALL COMPARE ALL PLANS TO OBTAIN REQUIRED LAYOUT DIMENSIONS AND PROJECT REQUIREMENTS. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING. CONTRACTOR TO NOTE THAT FRAMED DOORWAY OPENINGS IN THE END WALLS, AS SHOWN IN THE BUILDING PLANS, ARE NOT TO BE INSTALLED PER DIRECTION OF THE OWNER. THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND BUILDING MANUFACTURE FOR REQUIRED CHANGES AND REPORT ANY FOUNDATION DESIGN ADJUSTMENTS TO SDE. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR MAINTAINING A SAFE JOB SITE CONTINUALLY THROUGH THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A FULL SET OF THE MOST RECENT REVISIONS OF EACH DOCUMENT INCLUDING ALL PLANS, SPECIFICATIONS, ADDENDUMS, AND SUPPLEMENTAL INSTRUCTIONS. ABBREVIATIONS: "TYP."-TYPICAL. REPRESENTING A CONDITION THAT OCCURS AT SEVERAL LOCATIONS IN THE PLANS "SIM."-SIMILAR. INDICATES A SIMILAR DESIGN TO THE DETAIL REFERENCED WITH POTENTIAL MINOR VARIATIONS. "U N.O."-UNLESS NOTED OTHERWISE "TOW" - TOP OF WALL ELEVATION. "TOP" - TOP OF PIER ELEVATION. "TOS"- TOP OF SLAB ELEVATION. "TOF" - TOP OF FOOTING ELEVATION. APPLICABLE CODES AND STANDARDS STRUCTURAL MEMBERS HAVE BEEN DESIGNED TO THE FOLLOWING CODES. LIKEWISE, DESIGN ELEMENTS BY THE CONTRACTOR AND CONSTRUCTION PRACTICES SHALL MEET THE FOLLOWING CODES. BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE (ACI 318), 2014 EDITION AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM INTERNATIONAL) MWPS-36 SECOND EDITION SEE CAST-IN PLACE CONCRETE NOTES ON THIS SHEET FOR ADDITIONAL STANDARDS. STRUCTURAL DESIGN LOADS FOUNDATIONS SUPPORTING BUILDING COLUMNS HAVE BEEN DESIGN IN ACCORDANCE TO THE NUCOR BUILDING SYSTEM PLANS AS REFERENCED ABOVE. PIT WALL FOUNDATION DESIGN LOADS ARE IN ACCORDANCE WITH MWPS-36 BY MIDWEST PLAN SERVICES AS FOLLOWS: 85 PCF EQUIVALENT FLUID PRESSURE FOR DRAINED ONSITE SOILS USED AS BACKFILL. AN ADDITIONAL 2 FEET OF SURCHARGE HAS BEEN CONSIDERED ABOVE THE FINAL GRADE ELEVATION. 60 PCF EQUIVALENT FLUID PRESSURE FROM INSIDE THE PIT WALLS WITHIN ANY COMBINATION OF PITS EMPTY OR FULL TO 1' BELOW BOTTOM OF THE SLAT ELEVATION. PERFORATED SLAT LOADS AND SUPPORTING PRECAST BEAMS: - DEAD LOAD: SELF WEIGHT PER PLAN DIMENSIONS. - LIVE LOAD: 125 PSF (100 PSF FOR BEEF CATTLE PLUS 25 PSF FOR MISC. INCREASE.) - SLATS ARE <u>NOT</u> DESIGNED FOR A VEHICLE LOAD. SOLID SLAT LOADS AND SUPPORTING PRECAST BEAMS: - DEAD LOAD: STRUCTURE SELF WEIGHT PER PLAN DIMENSIONS. - BUNK LOAD: 313 LBS DEAD + 90 LBS FEED. - LIVE LOAD: 125 PSF UNIFORM LOAD OR MAX DESIGN VEHICLE - MAX DESIGN VEHICLE: TRACTOR PULLING SINGLE AXLE FEED WAGON. - TRACTOR WEIGHT: 13,000 LBS - TRACTOR AXLE SPACING: 106" - TRACTOR TIRE SPACING : 91" - FULLY LOADED WAGON: 31,000 LBS (ASSUMED 80% ON AXLE AND 20% ON TONGUE) - DISTANCE FROM REAR TRACTOR AXLE TO WAGON AXLE: 210" - WAGON TIRE SPACING: 101" NOTE: SOLID SLAT AND SUPPORTING BEAM DESIGN AS PREPARED BY IIW WITH LETTER REPORT DATED 4/20/15. DESIGN LOADS PROVIDE IN THIS LETTER EQUAL OR EXCEED THE DESIGN LOAD REQUIREMENTS LISTED ABOVE. THE OWNER IS RESPONSIBLE TO NOT EXCEED DESIGN LOADS LISTED WITHOUT ENGINEER APPROVAL.		FOUNDATION/SUBGRADE PREPARATION NOTES FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING OF 2000 PSF. STRIP THE AREA OF ALL VEGETATION, TOPSOIL, AND ALL OTHER UNSUITABLE MATERIAL. PROOF ROLL SUBGRADE TO IDENTIFY ANY SOFT AREAS PRIOR TO FILLING. THE SUBGRADE SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL REPRESENTATIVE FOR BEARING STRENGTH AND PRESENCES OF SUITABLE SUBGRADE MATERIAL. FOR INADEQUATE SUBGRADE ENCOUNTERED, PERFORM CORRECTION ACTIONS AS DICTATED BY THE GEOTECHNICAL REPRESENTATIVE. FILL AND BACKFILL MATERIAL BELOW SLABS AND FOOTINGS SHALL BE APPROVED GRANULAR FILL PLACED IN 9" LOOSE LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR (ASTM D1557). THE TOP 4" MINIMUM BELOW SLABS ON GRADE AND PIT SLAB SHALL BE IDOT GRADATION CA-7 FREE DRAINING MATERIAL. ALL OTHER AREAS MAY BE BACKFILLED WITH APPROVED ONSITE EXCAVATION COMPACTED IN 9" LOOSE LIFTS TO 90% MODIFIED PROCTOR. COMPACTION EFFORTS SHALL BE TESTED BY A GEOTECHNICAL REPRESENTATIVE. IN NO CASE SHALL SOILS CONTAINING ORGANIC MATERIAL OR HIGH PLASTICITY SOILS WITH THE CLASSIFICATION OF "CH" OR "MH" BE USED AS BACKFILL. BACKFILL EVENLY ON BOTH SIDES OF FOUNDATION WALLS, WHERE APPLICABLE, TO FINAL GRADE. BRACE AS REQUIRED TO PREVENT TIPPING. BACKFILL PIT WALLS ONLY AFTER PRECAST BEAMS AND SLATS ARE COMPLETELY INSTALLED WITH ENDS GROUTED AND CURED. WALLS SHALL BE BACKFILLED PRIOR TO ERECTING BUILDING STRUCTURE. ALL FINISHED GRADE SHALL SLOPE AWAY FROM THE STRUCTURE OR FOUNDATION ELEMENT AT A MINIMUM OF 5% GRADE FOR 10' MINIMUM FOR ADEQUATE DRAINAGE. GRADE MAY BE REDUCED TO 2% FOR IMPERVIOUS SURFACES. (IBC 1804.4) EXCAVATION PRACTICES SHALL FOLLOW ALL OSHA OR OTHER GOVERNING REGULATIONS DESPITE LIMITS THAT MAY BE SHOWN IN THE PLANS. FILL NOR CONCRETE SHALL NOT BE PLACED ON FROZEN SUBGRADE OR SUBGRADES WITH STANDING WATER. FROZEN MATERIALS CAN NOT BE USED AS BACKFILL. CAST-IN PLACE CONCRETE NOTES CONCRETE MIX DESIGN AND CONSTRUCTION PRACTICES SHALL FOLLOW THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION AND NEH - NATIONAL ENGINEERING HANDBOOK. ALL CONCRETE ELEMENTS PROPOSED IN THE PLANS SHALL MEET AN IDOT MIX DESIGN CLASSIFICATION OF "SI" HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI. IN CASE OF CONFLICT BETWEEN THE IDOT STANDARD SPECIFICATIONS, NEH STANDARDS, AND THE NOTES PROVIDED IN THESE PLANS, USE THE MOST STRINGENT REQUIREMENTS. ALL CONCRETE MIX DESIGNS SHALL MINIMIZE SHRINKAGE AS MUCH AS PRACTICAL INCLUDING SELECTION OF AGGREGATE TYPE, SIZE, GRADATION, W/C RATIO, AND ADD MIXTURES. MAX AGGREGATE SIZE SHALL MEET ACI REQUIREMENTS FOR BAR CLEARANCES PROVIDED. CONCRETE PLACEMENT SHALL BE CARRIED ON AS A CONTINUOUS OPERATION UNTIL MEETING A DEFINED DESIGN BOUNDARY OR PREDETERMINED JOINT. AT ALL TIMES DURING PLACEMENT THE CONCRETE SHALL REMAIN PLASTIC AND FLOW READILY INTO ALL VOIDS AND BETWEEN REINFORCING. CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MEANS SUITABLE DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF THE FORMS. THE TOP SURFACES OF VERTICALLY FORMED LIFTS SHALL BE GENERALLY LEVEL. SUPERPLASTIZER OR WATER REDUCER ADMIXTURES MAY BE ADDED TO THE CONCRETE MIX PROVIDED THE FOLLOWING REQUIREMENTS ARE MET: - THE ADMIXTURE SHALL BE ADDED INTO THE CONCRETE MIX AS SPECIFIED BY THE MANUFACTURER AND IS COMPATIBLE WITH THE OTHER ADMIXTURES IN THE MIX. - THE WATER CONTENT SHALL BE WITHIN THE ACCEPTABLE RANGE OF THAT REQUIRED BY THE CONCRETE MIX DESIGN. - IF THE ADMIXTURE IS ADDED AT THE JOBSITE, THE SLUMP OF THE CONCRETE BEFORE THE ADDITION OF THE ADMIXTURE SHALL NOT EXCEED A SLUMP OF 4 INCHES . THE CONTRACTOR SHALL CONTACT THE ENGINEER IF REINFORCING ARRANGEMENT IS TO MODIFIED TO PROVIDE ADEQUATE CONCRETE CONSOLIDATION PRIOR TO CONSTRUCTION. RETARDER AND ACCELERATING ADMIXTURES MAY BE USED FOLLOWING ASTM C-494. ALL CONCRETE ADMIXTURES SHALL, WHEN MIXED INTO CONCRETE, BE NON-CHLORIDE AND NON-CHLORIDE FORMING THE CONTRACTOR SHALL VERIFY THAT ALL ADMIXTURES, HARDENERS, AND CURING COMPOUNDS ARE COMPATIBLE WITH EACH OTHER. CAST-IN-PLACE CONCRETE SHALL BE TESTED DURING CONSTRUCTION AS FOLLOWS: - PROVIDE ONE SET OF SIX TEST CYLINDERS FOR EACH DAYS POUR OR FOR EACH 50 CUBIC YARDS OF MATERIAL PLACED, WHICHEVER IS LESS. PERFORM COMPRESSIVE STRENGTH TEST PER ASTM C39 TEST TWO CYLINDER AT 7 DAYS AND TWO AT 28 DAYS. HOLD OTHER TWO FOR RESERVE IF ADDITIONAL TESTING REQUIRED. - PERFORM SLUMP AND AIR CONTENT TEST WITH PREPARATION WITH EACH SET OF TEST CYLINDERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMING AND SHORING. THE CONTRACTOR IS RESPONSIBLE FOR CONCRETE CURING TECHNIQUES AND PRODUCTS USED TO MEET A QUALITY FINISH PRODUCT. COORDINATE WITH ALL SUBCONTRACTORS AND RELATED PROJECT DRAWINGS PRIOR TO CONCRETE	CONSTRUCTION. THE CONCRETE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL INSTALLATIONS ARE COMPLETE PRIOR TO CASTING CONCRETE. CONCRETE ANCHORING/REINFORCING SPECIFICATIONS: REINFORCING BARS: ASTM A615 GR. 60. OR ASTM A706 GR. 60 <i>Air - 5 to 89</i> DOWEL BARS: ASTM A36, Fy = 36 KSI ANCHOR RODS: ASTM F1554 GR. 55 FULLY THREADED. GALVANIZED. DETAILING OF REINFORCEMENT TO BE IN ACCORDANCE WITH ACI PUBLICATION SP-66 "ACI DETAILING MANUAL" LATEST EDITION. ALL REINFORCING AND ANCHORING SHALL BE SUPPORTED ON CHAIRS/BOLSTERS OR BRICK OF EQUAL STRENGTH TO CONCRETE. SPACING SHALL BE SUFFICIENTLY CLOSE TO PREVENT DISPLACEMENT OR PERMANENT DEFORMATION DUE TO CONCRETE PLACEMENT, FOOT TRAFFIC, OR VIBRATION. PULLING UP REINFORCING IS NOT AN ACCEPTABLE METHOD FOR PLACING REINFORCING. CHAIRS/BOLSTERS IN CONTACT WITH EARTH SHALL HAVE BOTTOM PLATES. STEEL TYING AND CONSTRUCTION ADJACENT TO A RECENT POUR SHALL NOT BEGIN UNTIL THE RECENT POUR HAS CURED FOR AT LEAST 12 HOURS. MAINTAIN CLEAR COVER ON REINFORCING AS LISTED BELOW UNLESS NOTED OTHERWISE. CAST AGAINST EARTH (BOTTOM OR SIDE): 3" FORMED- EXPOSED TO SOIL, WEATHER OR LIQUIDS: 2" FORMED SURFACES INTERIOR OR CAST AGAINST EX. CONCRETE: 1-1/2" LOCATE VERTICAL AND HORIZONTAL BARS IN THE ORDER AND SEQUENCE AS GRAPHICALLY SHOWN IN THE PLANS/DETAILS. REINFORCING SHALL BE ACCURATELY PLACED AND SECURED IN THE WALLS AT THE POSITION AS SHOWN IN THE DRAWINGS. BAR LOCATION IS CRITICAL FOR MEETING ALL REQUIREMENTS. ALL REINFORCING BARS SHALL BE CONTINUOUS OR LAPPED. SEE TABLE FOR BAR LAP LENGTHS. AT INTERSECTIONS OR CORNERS OF WALLS AND FOOTINGS, PROVIDE CORNER BARS OF SAME SIZE AND SPACING OF HORIZONTAL BARS AND LAP TO MAIN STEEL UNLESS OTHERWISE NOTED OR DETAILED. EPOXY POST INSTALLED ANCHORS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER AND SHALL FOLLOW THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) AND THE EVALUATION REPORT (ER/ESR) SPECIFIED INCLUDING HOLE PREPARATION, TEMPERATURE, MOISTURE CONDITIONS, CURE TIMES, AND TORQUE ALLOWANCES. INSTALLATION REQUIREMENTS FOR ADEQUATE BOND STRENGTH INCLUDE A CLEANED AND DRY HOLE CONDITION IN CONCRETE AT LEAST CURED FOR 21 DAYS WITH HOLES DRILLED BY A CARBIDE TIPPED HAMMER DRILL BIT. APPROVED ADHESIVE OR EPOXY PRODUCT: HILTI HIT-HY 200 OR EQUAL. DO NOT BACKFILL OR ERECT STRUCTURAL STEEL UNTIL FOUNDATION AND FLOOR SLAB HAVE DEVELOPED SUFFICIENT STRENGTH TO CARRY THE IMPOSED LOADS. A MINIMUM CONCRETE CURING PERIOD SHALL BE SEVEN DAYS, UNLESS CONCRETE TESTS INDICATED THAT MINIMUM DESIGN STRENGTHS ARE ALREADY MET. PLACING OF CONCRETE SHALL CONFORM WITH ACI-306 FOR COLD WEATHER AND ACI-305 FOR HOT WEATHER DURING APPLICABLE CONDITIONS. <i>Max 95°</i> SLABS ON GRADE AND ELEVATED SLABS ARE NOT DESIGNED TO SUPPORT CRANES, FORKLIFTS, TRUCKS, MANLIFTS, OR OTHER CONSTRUCTION RELATED EQUIPMENT UNLESS NOTED AS SUCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF CONSTRUCTION EQUIPMENT CAN BE SAFELY OPERATED ON THESE SLABS AND TO REPAIR ANY DAMAGE THE EQUIPMENT MAY CAUSE. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED ¼" INSIDE FORMS OR TOOLED TO ¾" RADIUS UNLESS NOTED OTHERWISE. STEEL REINFORCING SHALL BE STORED ON THE JOB SITE IN SUCH A WAY AS TO ELIMINATE CONTAMINATION BY THE SOIL OR GRAVEL. (I.E. STEEL SHALL BE STORED ON CRIBBING OR TIMBERS WITH ADEQUATE SPACING TO PREVENT SAGGING TO THE SOIL. FORMS SHALL BE COATED WITH A RELEASE AGENT. RELEASE AGENT SHALL BE PLACED ON FORMS PRIOR TO SETTING THEM. FORMS WITH TORN SURFACES, WORN EDGES, DENTS OR OTHER DEFECTS SHALL NOT BE USED. LAYOUT OF COLUMN BASES AND ANCHORS SHALL BE DONE BY AN EXPERIENCED CONSTRUCTION SURVEYOR. PROVIDE CARBON STEEL ANCHOR BOLT TEMPLATES PER BASE PLATE ANCHOR PATTERNS. EMBEDDED TEMPLATES SHALL BE KEPT AS SMALL AS POSSIBLE TO AVOID INTERFERENCE WITH REINFORCING STEEL AND CONCRETE PLACEMENT. CONTRACTOR TO TAKE SPECIAL CARE TO CONSOLIDATE CONCRETE AROUND ALL EMBEDDED TEMPLATES. ALL WATERSTOPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. STRUCTURAL TESTS, INSPECTIONS, AND QUALITY ASSURANCE ALL MATERIALS AND STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED AS DEFINED IN THE NOTES, PLANS, AND GOVERNING BUILDING CODES. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE DESIGN DOCUMENTS, BUILDING OFFICIAL, AND OWNER. NO WORK SHALL BE PERFORMED WHICH WOULD CONCEAL ITEMS TO BE TESTED AND INSPECTED UNTIL THE WORK HAS BEEN REVIEWED, TESTED, AND APPROVED.	SDE NO. 23-017  <table><tr><th colspan="2">REVISION</th></tr><tr><th>REV. #</th><th>DESCRIPTION</th></tr><tr><td>0</td><td>2-20-24 PERMIT PLANS</td></tr><tr><td>1</td><td>3-6-24 REVISION 1- WATER STOPS</td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table> SHEET TITLE GENERAL NOTES DRAWING PHASE PERMIT DATE 3/6/2024 SHEET NO. G1	REVISION		REV. #	DESCRIPTION	0	2-20-24 PERMIT PLANS	1	3-6-24 REVISION 1- WATER STOPS				
REVISION																
REV. #	DESCRIPTION															
0	2-20-24 PERMIT PLANS															
1	3-6-24 REVISION 1- WATER STOPS															



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SHEET NO. S1A		REVISION	
DATE 3/6/2024		REV. #	DESCRIPTION
DRAWING PHASE PERMIT		0	2-20-24 PERMIT PLANS
SHEET TITLE EAST PLAN VIEW		1	3-6-24 REVISION 1 - WATER STOPS



REV. #	DATE	DESCRIPTION
0	2-20-24	PERMIT PLANS
1	3-6-24	REVISION 1 - WATER STORAGE

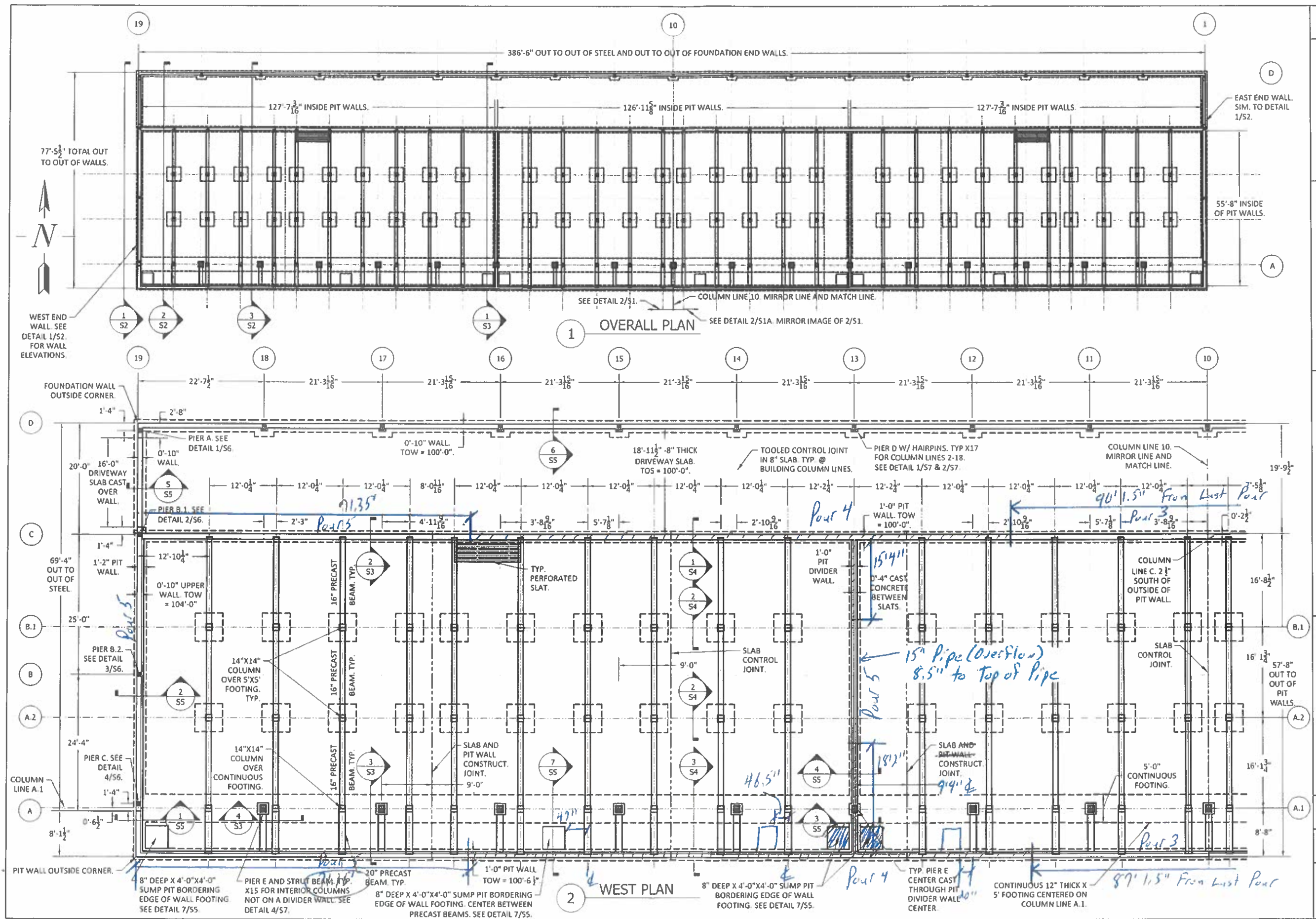
SHEET TITLE
OVERALL PLAN &
WEST PLAN VIEW

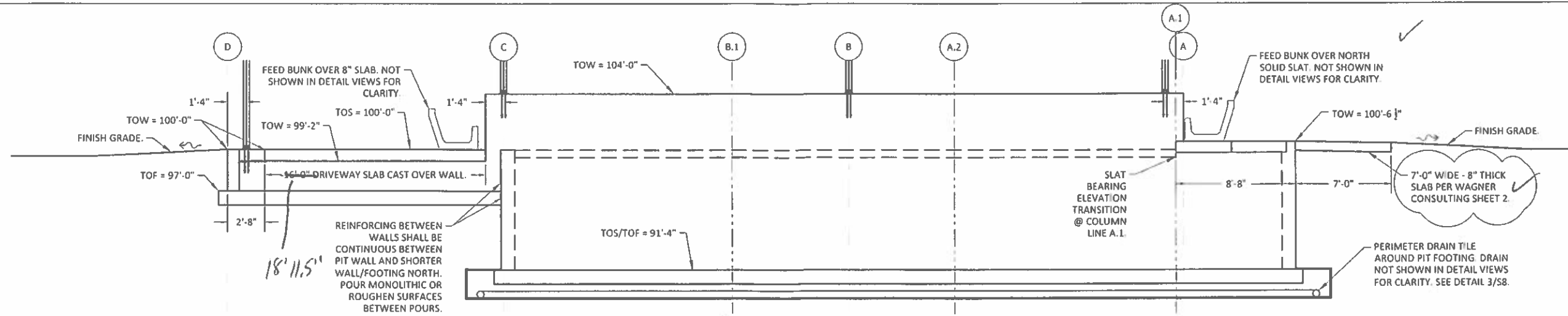
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DATE
3/6/2024

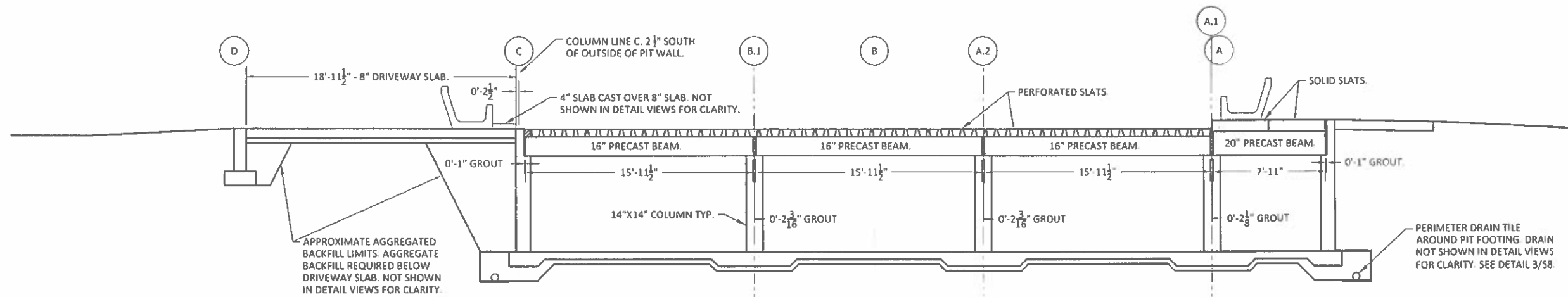
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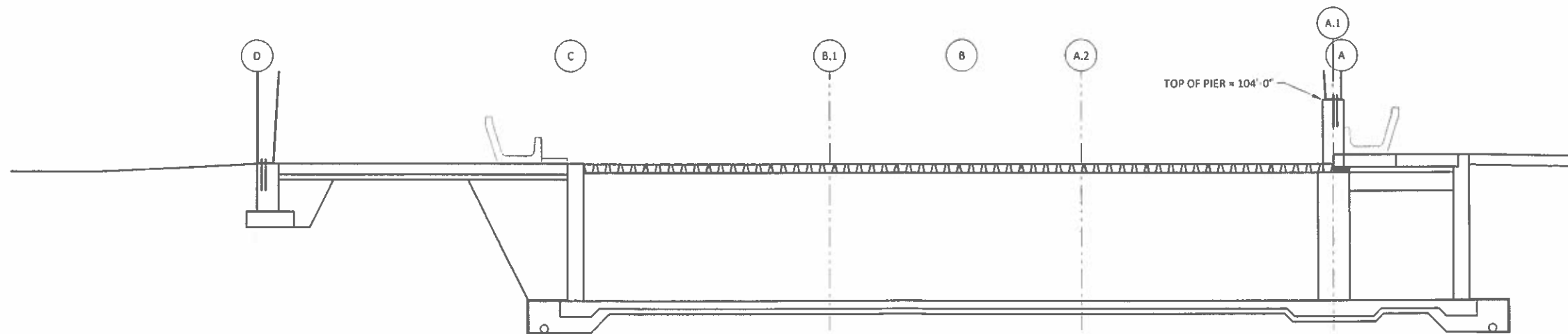




1 ELEVATION AT END WALL



2 ELEVATION AT PRECAST BEAM LINE
CALL OUT INFO SIM. TO DETAIL 1/52 UNLESS SHOWN OR NOTED OTHERWISE.



3 ELEVATION AT TYP. INTERIOR COLUMN LINE
CALL OUT INFO SIM TO DETAIL 1/S2 UNLESS SHOWN OR NOTED OTHERWISE

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REV. #	DATE	DESCRIPTION
0	2-20-24	PERMIT PLANS
1	3-6-24	REVISION 1 - WATER STOP
2	5-13-24	7' WIDE SLAB ADDITION

SHEET TITLE

EAST ELEVATIONS

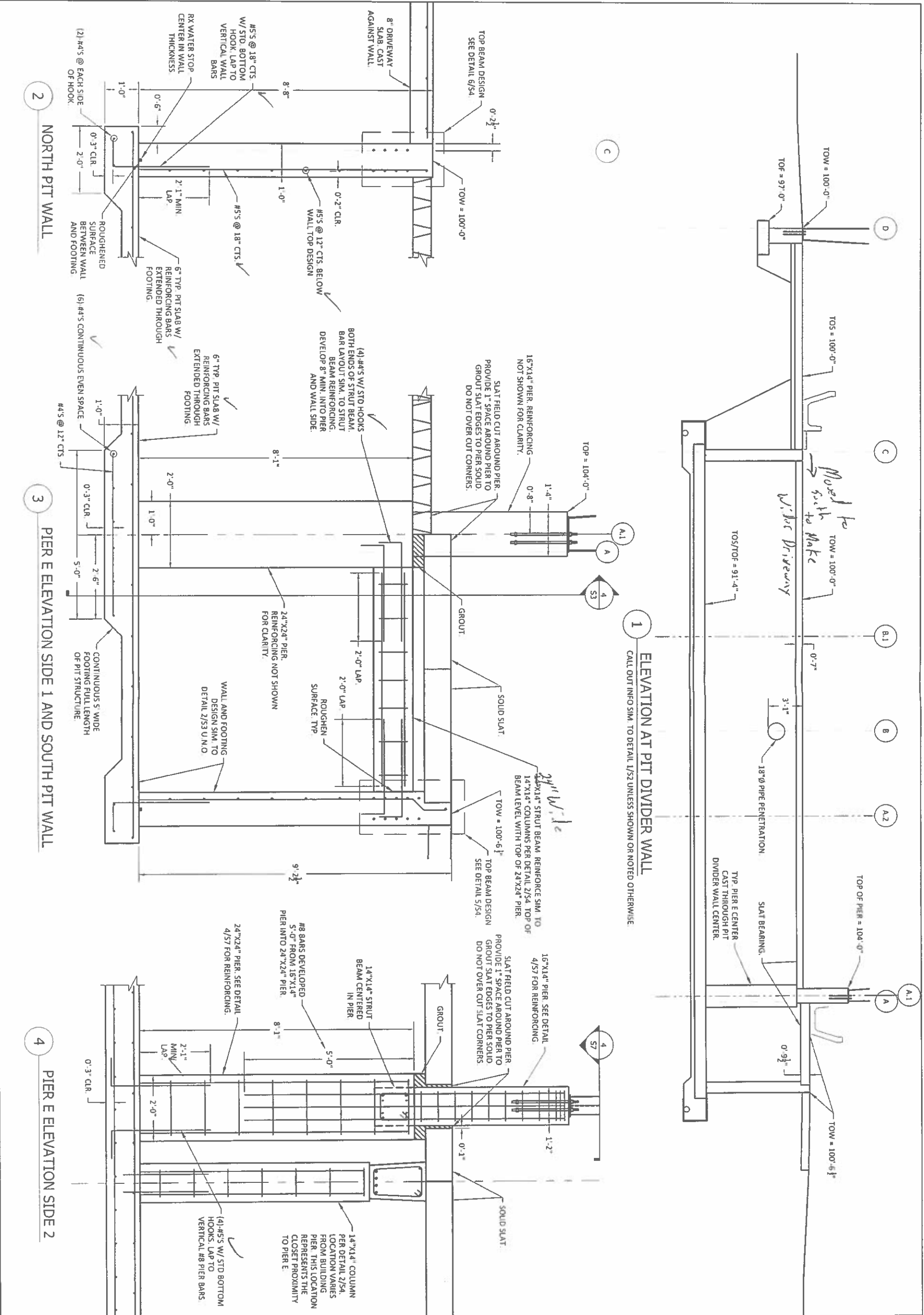
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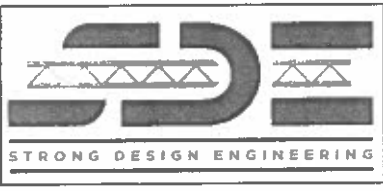
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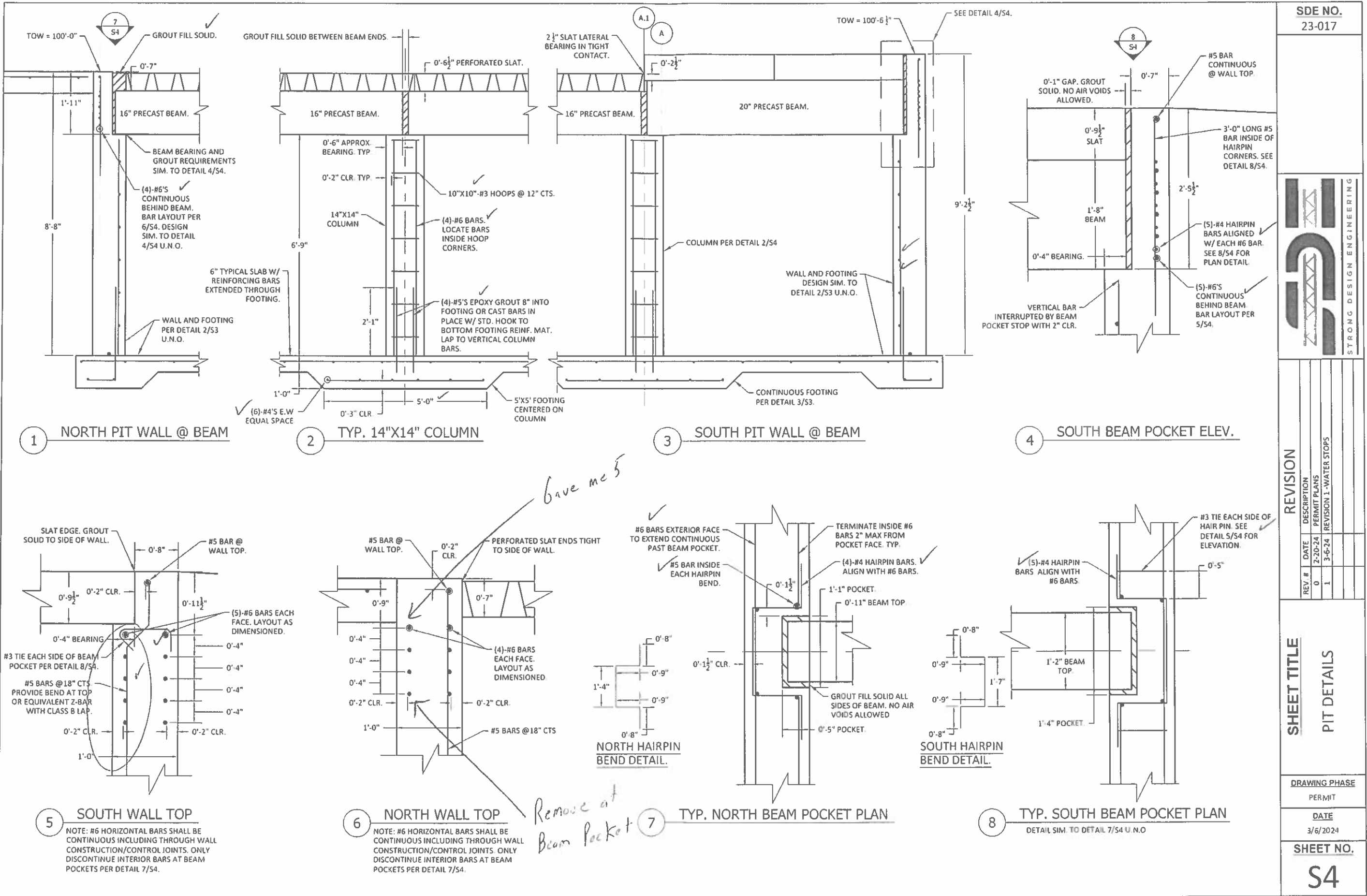
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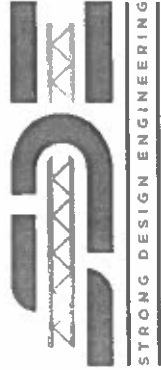
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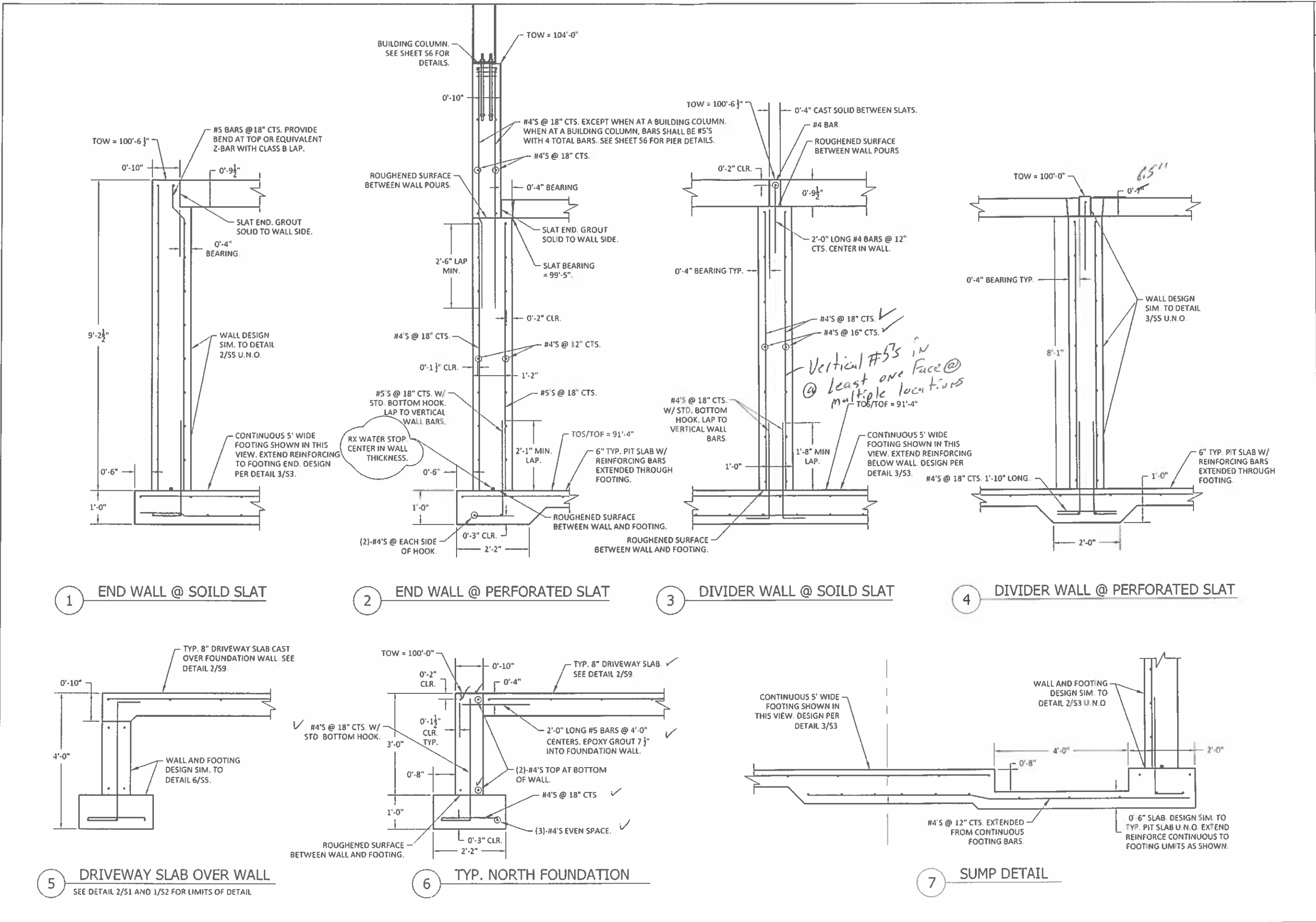


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SHEET TITLE EAST ELEVATION AND PIT DETAILS		REVISION	
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DATE 5/13/2024		0 2-20-24 PERMIT PLANS	
SHEET NO. S3		1 3-6-24 REVISION 1 - WATER STOPS	
		2 5-13-24 7" WIDE SLAB ADDITION	

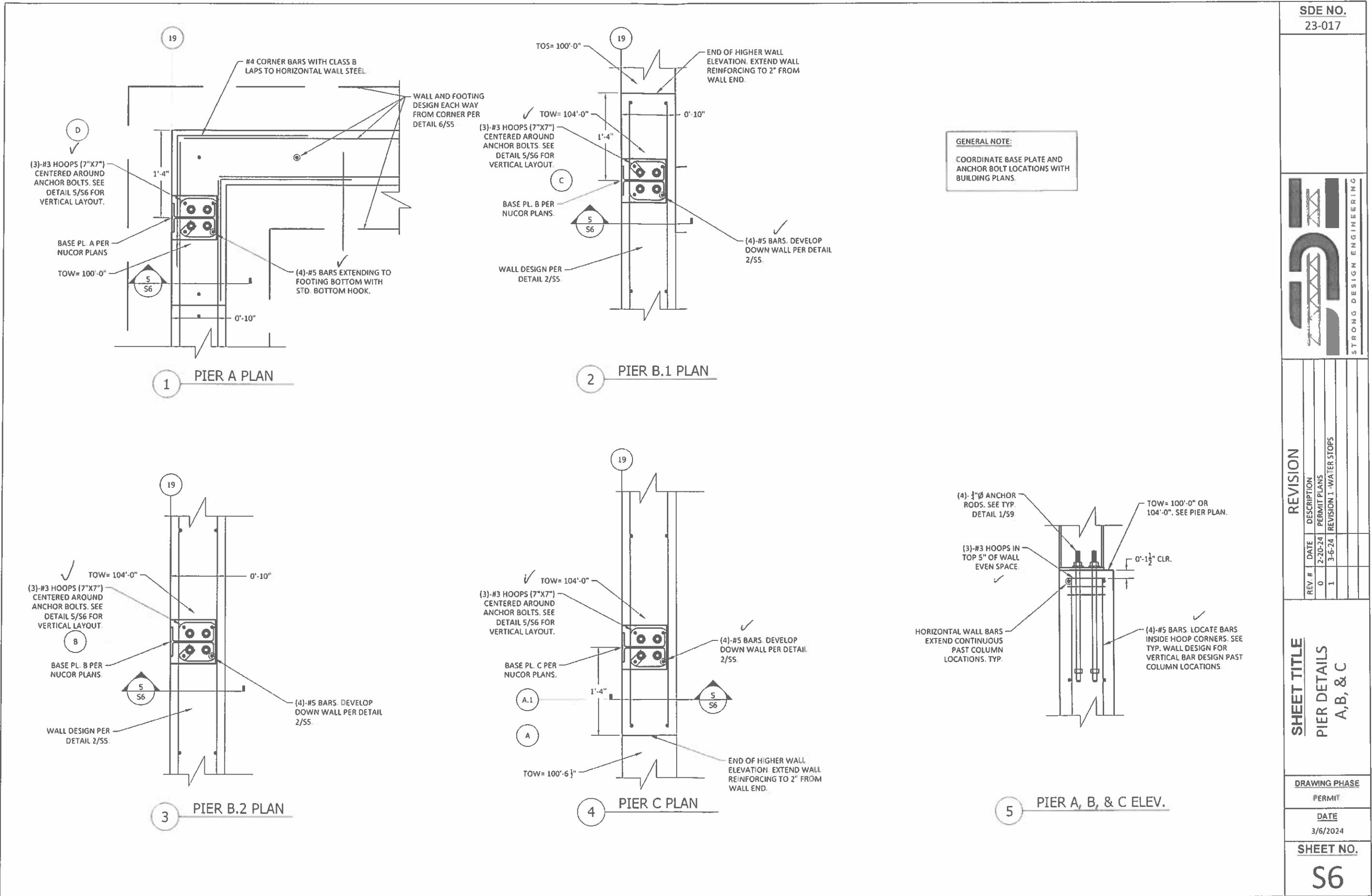
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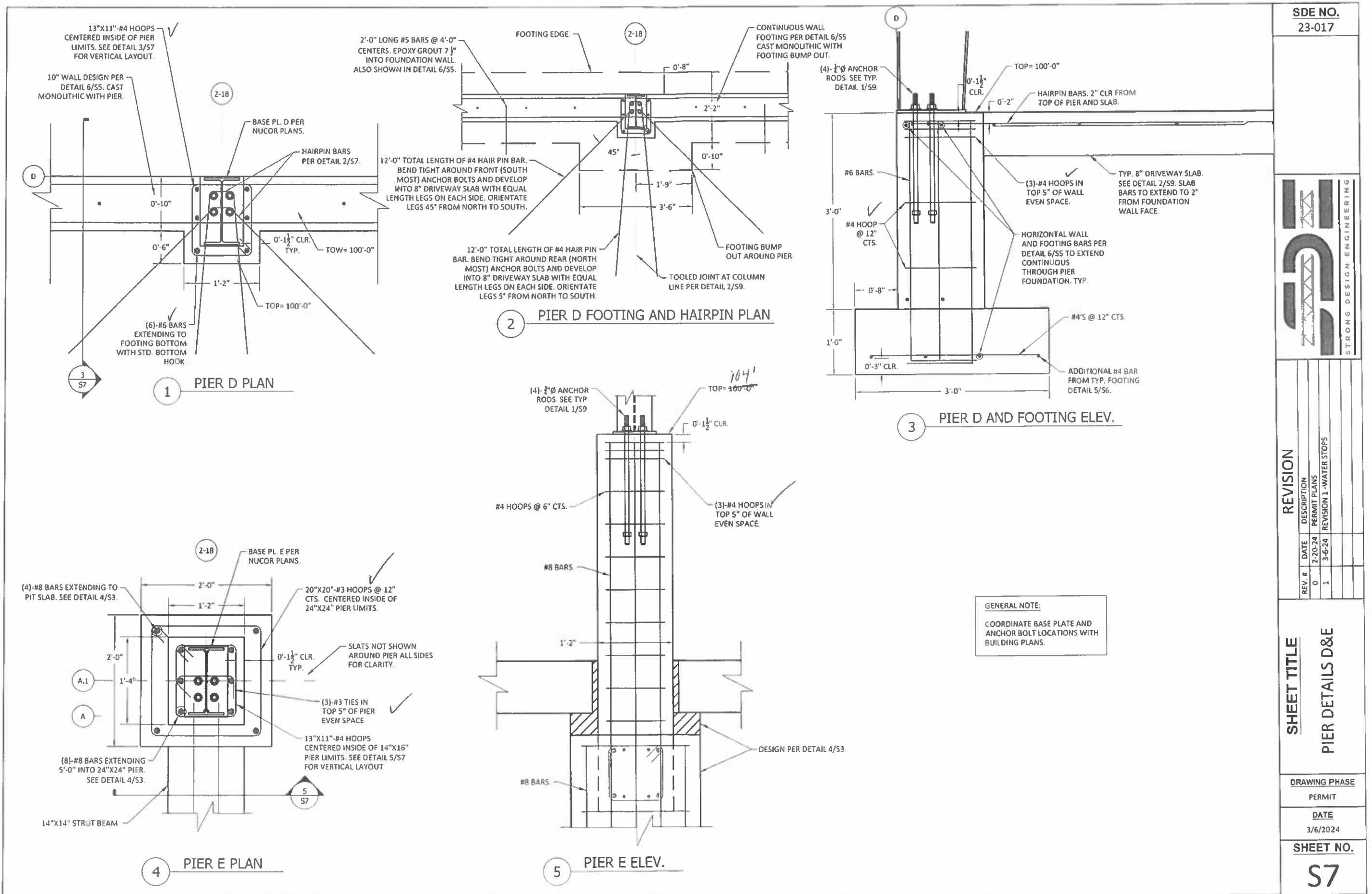


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STRONG DESIGN ENGINEERING	
REVISION	
REV #	DATE
0	2-20-24
1	3-6-24
DESCRIPTION	
PERMIT PLANS	
REVISION 1 - WATER STOPS	
SHEET TITLE	
PIT DETAILS	
DRAWING PHASE	
PERMIT	
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S4	



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STRONG DESIGN ENGINEERING	
REVISION	
REV. #	DATE DESCRIPTION
0	2-20-24 PERMIT PLANS
1	3-6-24 REVISION 1 - WATER STOPS
SHEET TITLE	
PIT AND NORTH FOUNDATION DETAILS	
DRAWING PHASE	
PERMIT	
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S5	





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REVISION

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0	2-20-24	PERMIT PLANS
1	3-6-24	REVISION 1 - WATER STOPS

SHEET TITLE

PIER DETAILS D&E

DRAWING PHASE

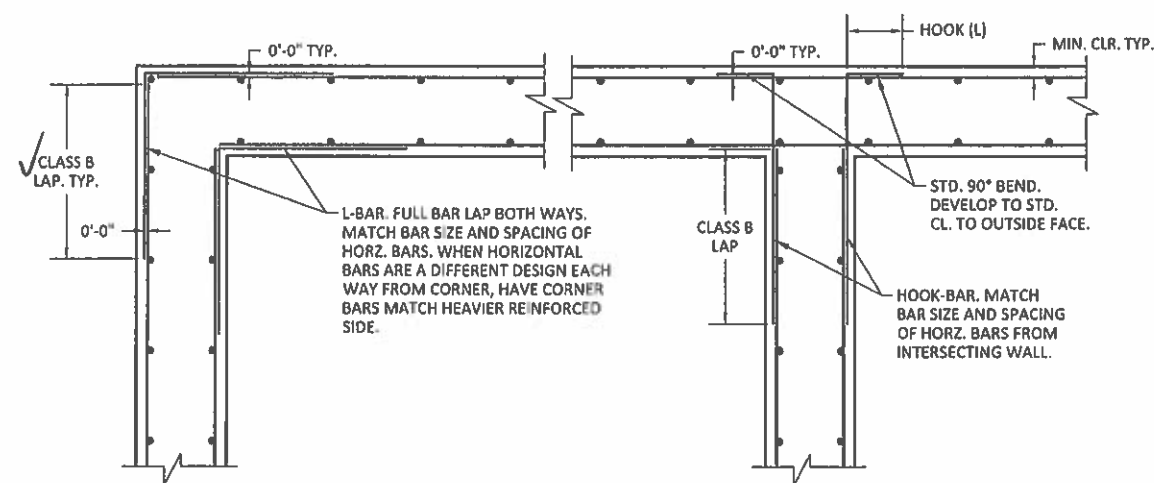
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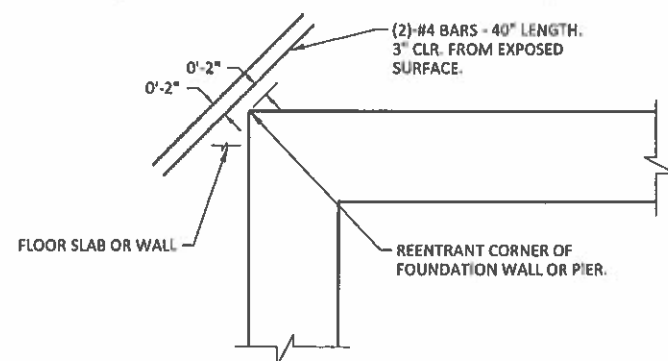
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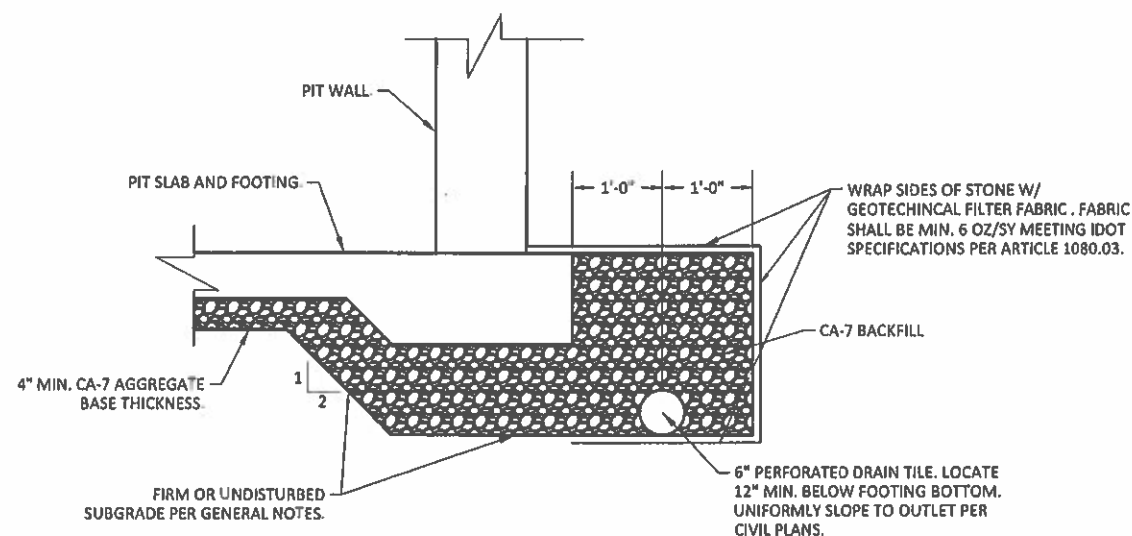
S7



1 TYP. CORNER AND INTERSECT. REINF.

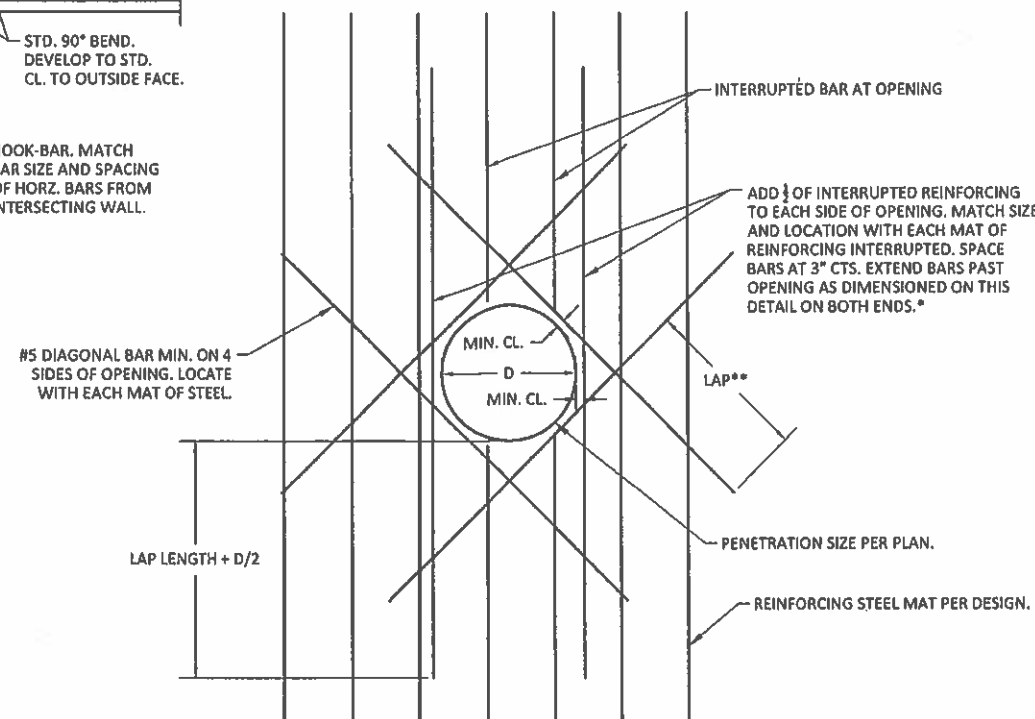


2 TYP. REINF. AT REENTRANT CORNERS



3 TYP. PERIMETER DRAIN TILE AND PIT FOOTING BASE

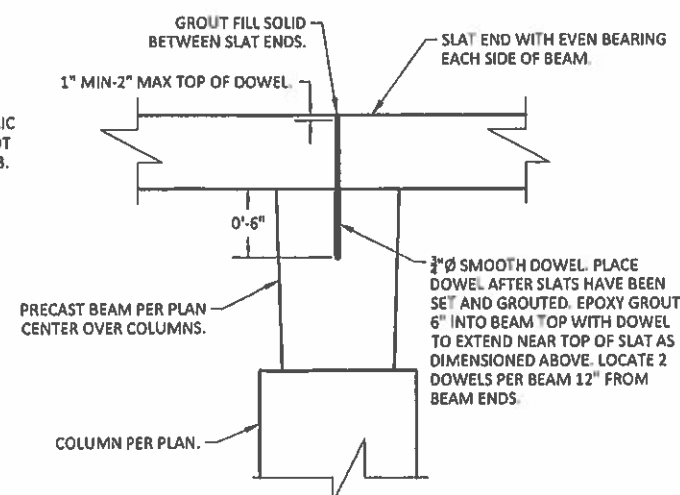
DRAIN DETAIL IS NOT INTENDED TO ALLEVIATE WATER PRESSURES FROM THE PRESENCE OF THE WATER TABLE. THE WATER TABLE IS NOT UNDERSTOOD TO BE LOCATED WITHIN THE PROJECT DEPTH, SHOULD EVIDENCE OF THE WATER TABLE BE ENCOUNTERED, THE CIVIL ENGINEER SHALL MAKE DESIGN ADJUSTMENTS TO THE UNDERDRAIN SYSTEM AND COORDINATE CHANGES WITH SDE.



REINFORCING AT PENETRATIONS

*NOTE: REINFORCING STEEL SHOWN IN UPRIGHT POSITION ONLY FOR CLARITY. PROVIDE LEFT TO RIGHT STEEL SIMILARLY.

*LAP LENGTH TO BE TAKEN AS 75% MIN. OF BAR LAP LENGTH.



8 SLAT OVER BEAM DETAIL

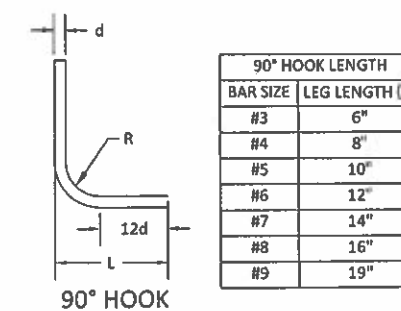


TYPICAL CLASS B BAR LAP SCHEDULE		
BAR SIZE	TOP BARS	OTHER BARS
#3	19" ^a	15" ^a
#4	25" ^b	20" ^b
#5	31" ^c	25" ^c
#6	38" ^d	30" ^d
#7	44" ^e	35" ^e
#8	50" ^f	40" ^f
#9	56" ^g	45" ^g

SCHEDULE NOTES:

1. LAP LENGTHS IN TABLE REQUIRE A CONCRETE STRENGTH OF 4,000 PSI MIN.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
3. LAP SCHEDULE IS ONLY APPLICABLE FOR BAR SPACINGS OF 5 BAR DIAMETERS OR MORE WITH MINIMUM CLEAR COVER.

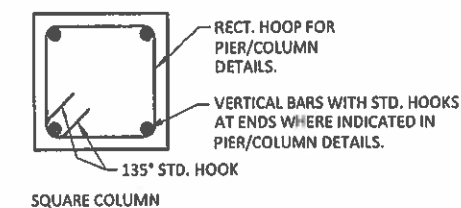
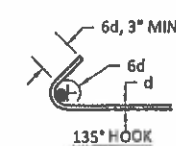
CLASS B BAR LAP



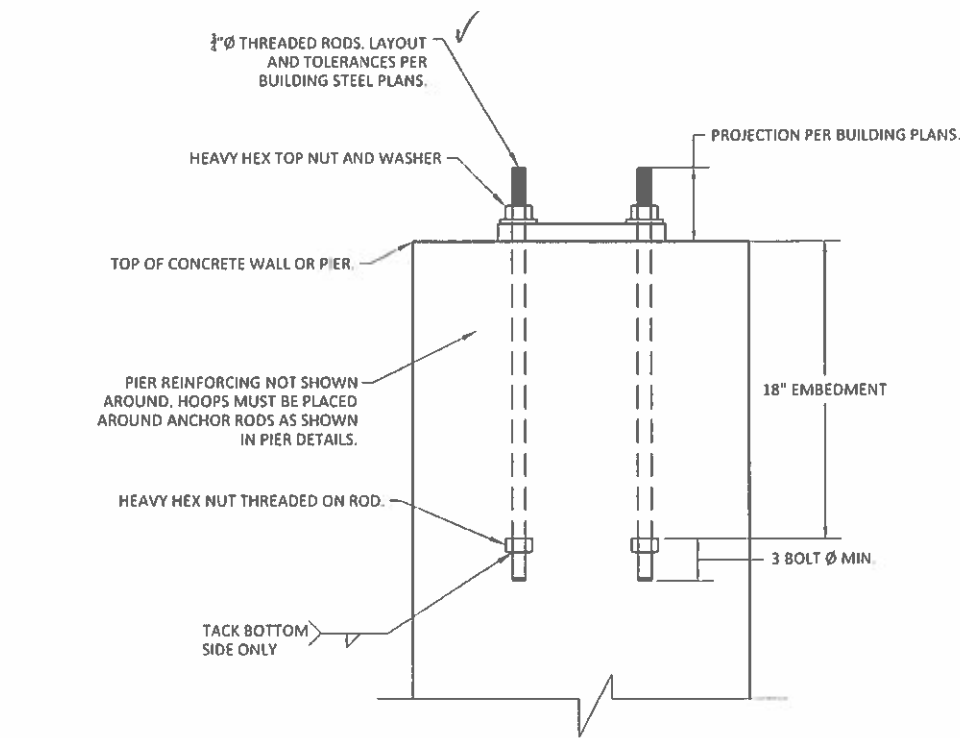
SCHEDULE NOTES:

- SCHEDULE NOTES:**
1. $R=3d$ FOR #8 BARS AND SMALLER AND $R=4d$ FOR LARGER THAN #8'S.
 2. COLD BEND WITHOUT HEATING

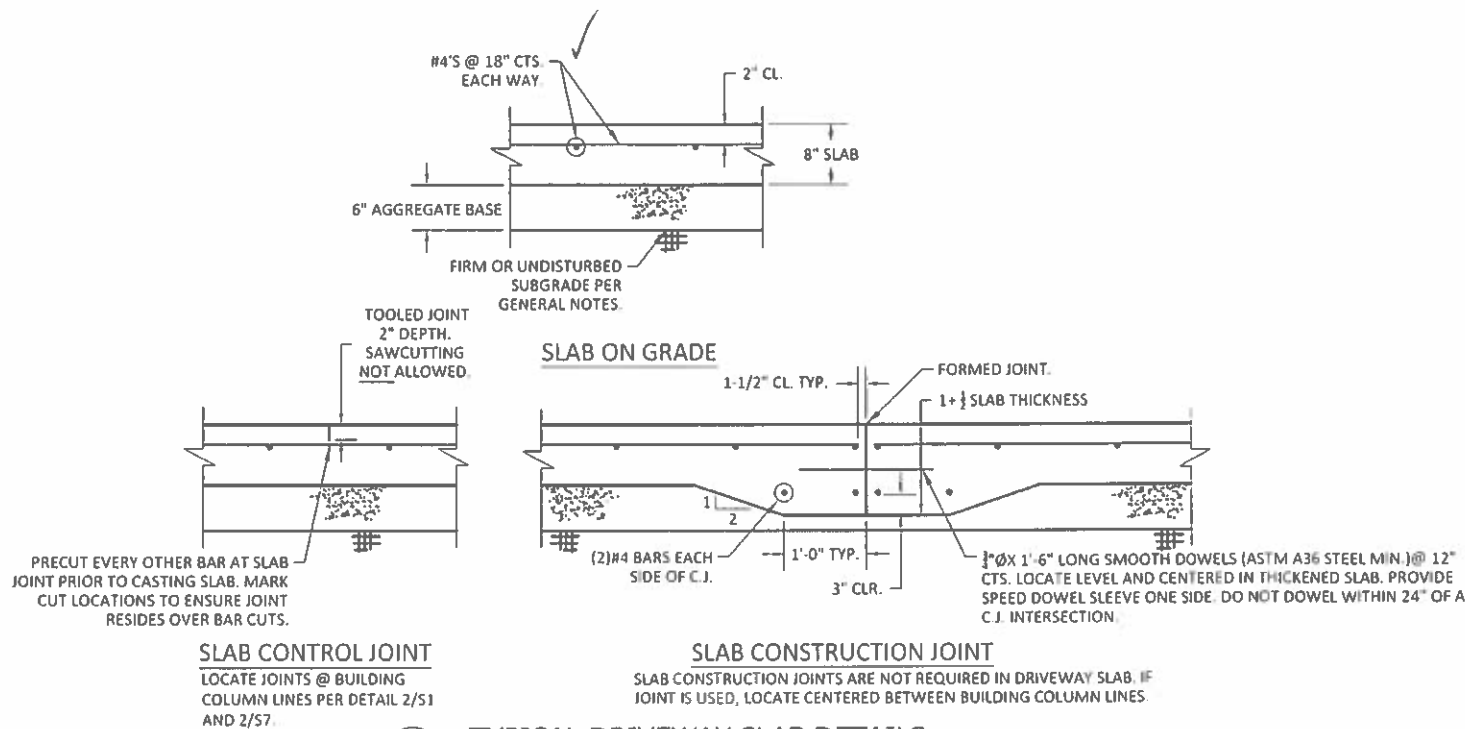
6 STANDARD HOOKS



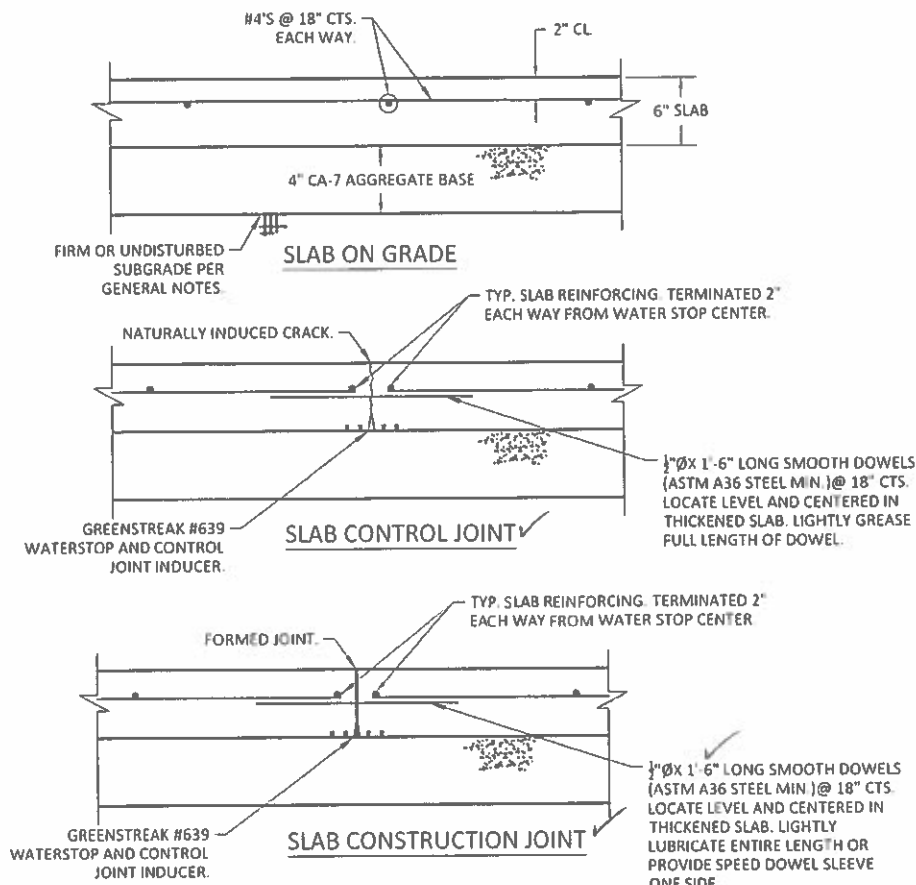
⑦ HOOKS FOR COLUMN/PIER HOOPS



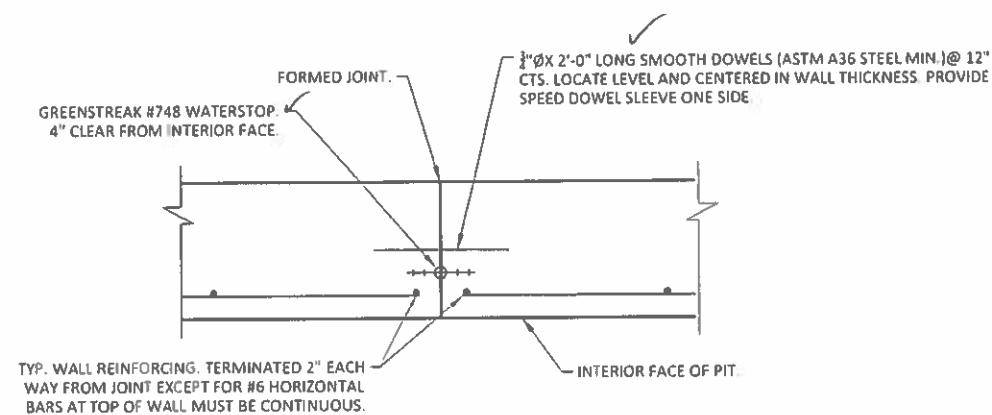
1 TYPICAL ANCHOR ROD DETAIL



2 TYPICAL DRIVEWAY SLAB DETAILS



3 TYPICAL PIT SLAB DETAILS
ALL WATERSTOPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.



4 TYPICAL WALL CONSTRUCTION/CONTROL JOINT DETAIL

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REVISION

REV. #	DATE	DESCRIPTION
0	2-20-24	PERMIT PLANS
1	3-6-24	REVISION 1 - WATER STOPS

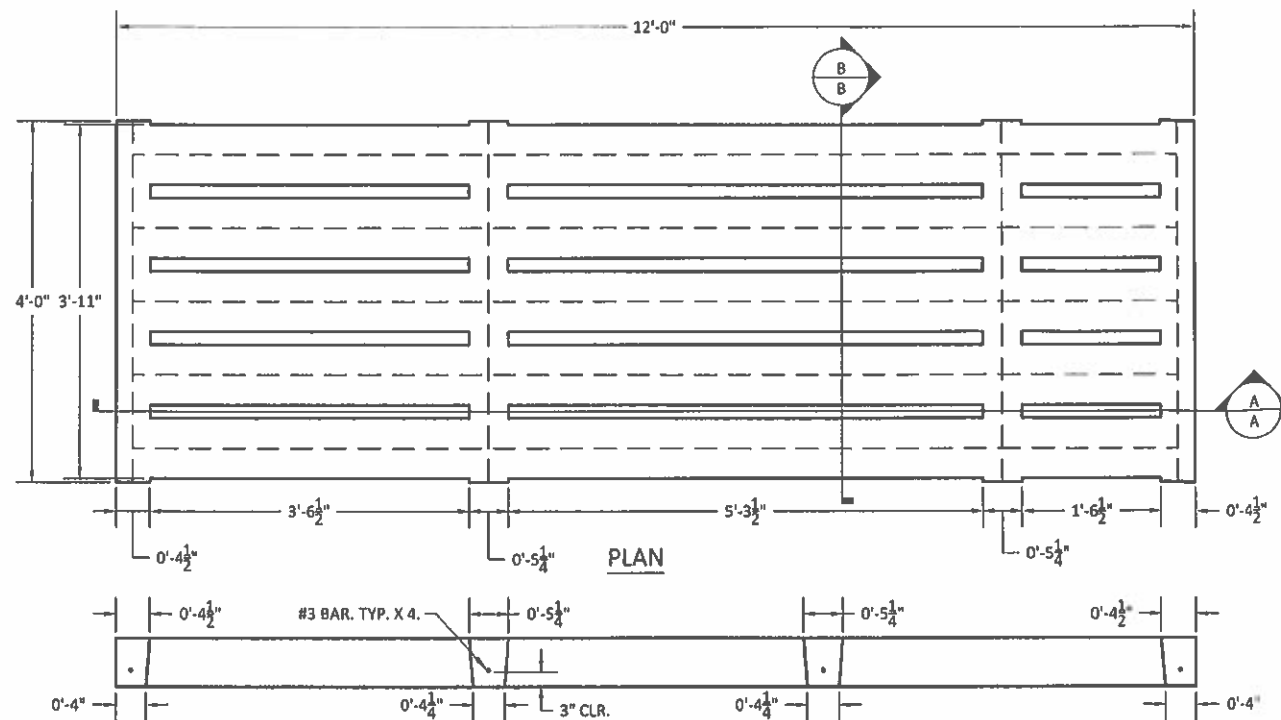
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TYPICAL DETAILS 2

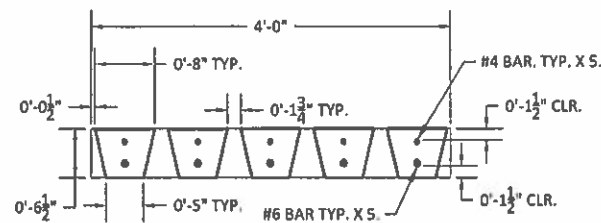
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DATE
3/6/2024

SHEET NO.
S9

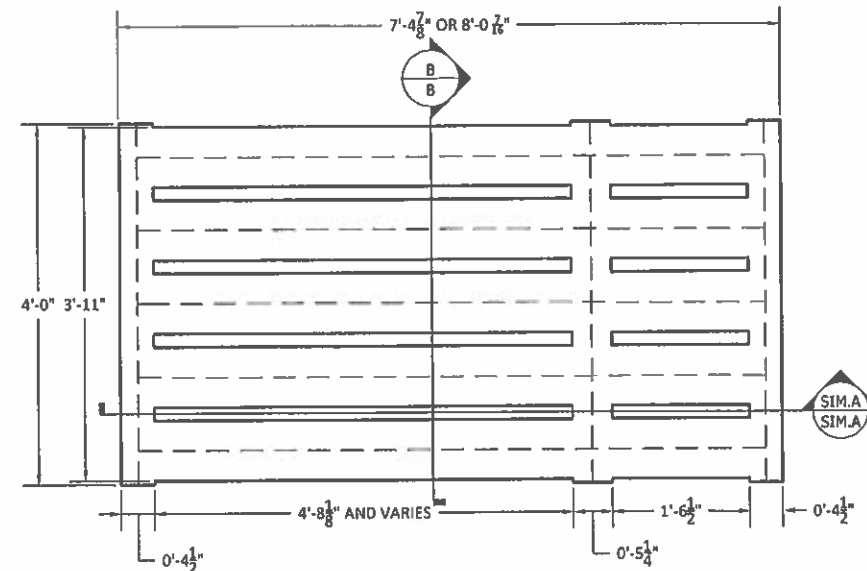


SECTION A-A

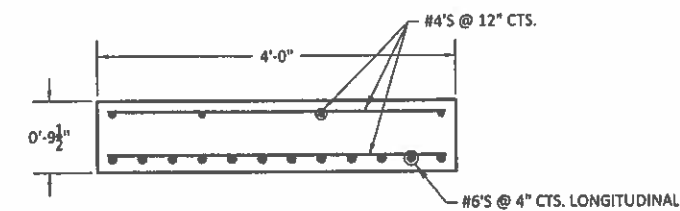


SECTION B-B

1 TYPICAL PERFORATED 12' SLAB DETAIL



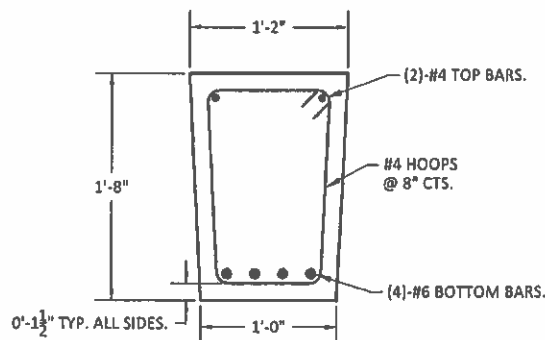
2 TYPICAL PERFORATED SHORT SLAB DETAIL



3 TYPICAL SOLID SLAB

DESIGN PROVIDED FOR REFERENCE ONLY. REFER TO IIW DRAWINGS FOR FINAL DESIGN.

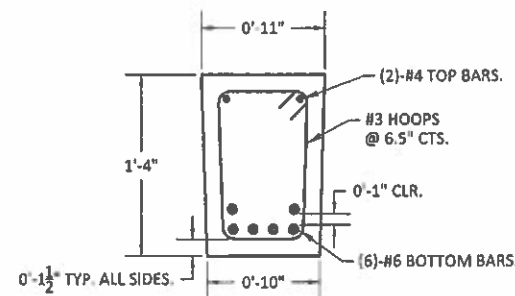
SLAB LENGTH @ 7'-4 7/8" OR 8'-0 7/8" OR 12'. SEE PLAN.



4 TYPICAL 20" BEAM

DESIGN ONLY PROVIDED FOR TOP WIDTH CLARIFICATION TO IIW DETAILS.

END TO END TYPICAL SPAN = 7'-11"



5 TYPICAL 16" BEAM

END TO END TYPICAL SPAN = 15'-11 1/2"

PRECAST CONCRETE AND GROUT NOTES

REINFORCING BARS: ASTM A615 GR. 60. OR ASTM A706 GR. 60
CONCRETE: 7,000 PSI (28 DAY)

PRECAST CONCRETE MIX DESIGN IS THE RESPONSIBILITY OF THE PRECAST MANUFACTURER TO MEET STRENGTH REQUIREMENTS, ENVIRONMENTAL CONDITIONS, AND APPLICABLE CODE REQUIREMENTS.

SHORT SLABS ARE REQUIRED FOR ONE BAY AT EACH OF THE 3 PIT LOCATIONS. SEE PLAN FOR DIMENSIONS AND LOCATIONS.

PRECAST BEAMS SHALL BE LOCATED WITH BEARING WIDTH DIMENSIONS PROVIDED. BEARING AREAS SHALL BE LEVEL AND UNIFORM AT THE REQUIRED ELEVATION. BEAM ENDS SHALL BE GROUTED SOLID BETWEEN ADJACENT BEAMS OR AROUND WALL POCKETS AS APPLICABLE. SLAT SIDES AND ENDS SHALL BE BUTTED TIGHT. GAPS BETWEEN SLATS OR SLAT ENDS TO SUPPORTING WALLS/PIERS SHALL BE GROUTED SOLID. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AND MEET FULL STRENGTH PRIOR TO BACKFILLING. GROUT SHALL BE INSTALLED PER MANUFACTURER INSTRUCTION AND HAVE A CONSISTENCY TO READILY FLOW IN OPEN VOIDS. BEAMS AND SLATS IN SOLID BEARING ARE CRITICAL TO THE STABILITY OF THE FOUNDATION STRUCTURE AND SHALL REMAIN IN PLACE.

9 1/2" SOLID SLATS AND 20" BEAMS ARE AS DESIGNED BY IIW WITH LETTER REPORT DATED 4/20/15. 20" BEAM DESIGN IS PROVIDED HERE WITH TOP WIDTH INCREASE AS REQUIRED BY THE MANUFACTURER. 9 1/2" SOLID SLAT DESIGN IS PROVIDED FOR REFERENCE ONLY.

SLAT LENGTHS AND WIDTH AND BEAM LENGTHS SHALL BE VERIFIED WITH LAYOUT PLANS PRIOR TO FABRICATION. CONSTRUCTION TOLERANCES SHALL BE CONSIDERED FOR PROPER FIT UP AND BEARING REQUIREMENTS. REPORT REQUIRED CHANGES TO THE ENGINEER.

SDE NO.
23-017



REVISION

REV. #	DATE	DESCRIPTION
0	2-20-24	PERMIT PLANS
1	3-6-24	REVISION 1 - WATER STOPS

SHEET TITLE

PRECAST DETAILS

DRAWING PHASE

PERMIT

DATE

3/6/2024

SHEET NO.

S10

HANNA

T.17-18N.-R.2E.

Refer to page 76 for keyed parcels

N2600

N2500

N2400

N2300

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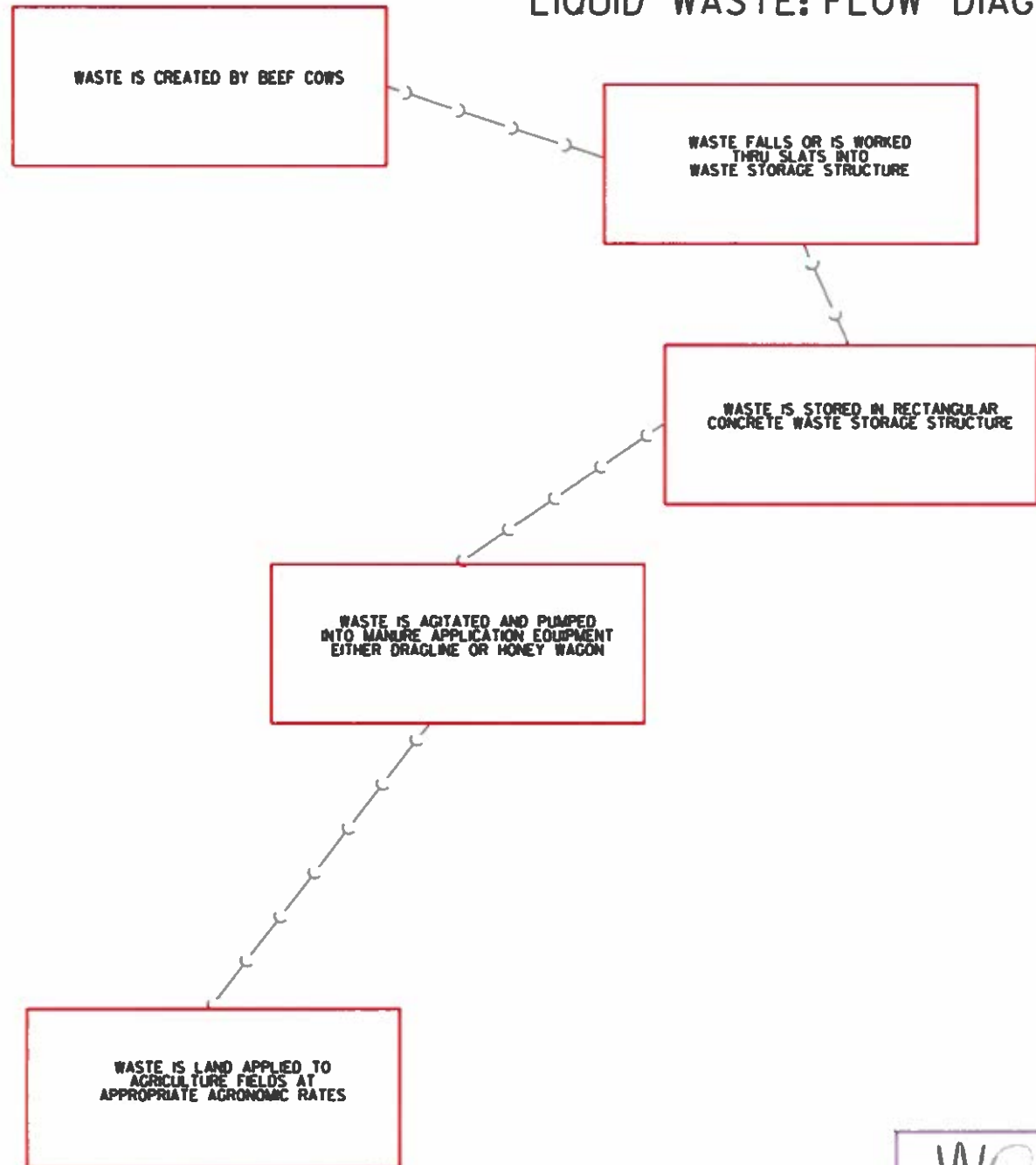


Steve Taets
Geneseo

(309) 944-0580

steve.taets@fnbptown.com

LIQUID WASTE: FLOW DIAGRAM



Burge-Bollero, Stephanie

From: Matthew Wagner <wagnerconsultag@mediacombb.net>
Sent: Wednesday, March 11, 2026 2:16 PM
To: Burge-Bollero, Stephanie
Cc: dminnaert15@gmail.com
Subject: RE: [External] RE: Minnaert Farms TC-151877

Categories: To Do, Tax Cert

Yes, we would like to include the slatted flooring in the request. The slats are made of concrete and covered with rubber mats. The slats cover the entire pit.

From: Burge-Bollero, Stephanie [mailto:Stephanie.Burge-Bollero@Illinois.gov]
Sent: Wednesday, March 11, 2026 11:26 AM
To: Matthew Wagner
Cc: dminnaert15@gmail.com
Subject: RE: [External] RE: Minnaert Farms TC-151877

Good Morning Matthew,

Thank you for your response. In the original application the barn is described as a "slatted floor confinement barn". Would you like to include the slatted flooring over the waste storage pit in your request? If so, could you please provide the material of construction for the slatted flooring and verify if it covers the entire pit? If the slatted flooring does not cover the entire pit, please provide dimensions. Please just let me know if you have any questions.

Thank you for your assistance,



Stephanie Burge-Bollero
Environmental Protection Specialist II
Permit Section, Industrial (401/Mines) Unit,
Bureau of Water
217-557-8666
Stephanie.Burge-Bollero@illinois.gov

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From: Matthew Wagner <wagnerconsultag@mediacombb.net>
Sent: Tuesday, March 10, 2026 11:56 AM
To: Burge-Bollero, Stephanie <Stephanie.Burge-Bollero@Illinois.gov>
Cc: dminnaert15@gmail.com
Subject: [External] RE: Minnaert Farms TC-151877

Good morning Stephanie,

I am sorry for any confusion that may exist with this submittal. The existing pollution control device is all concrete. Please note that the building is large than the pit. Part of the building under roof is used for drive thru feeding and does not contain manure storage. That is what the difference in dimensions accounts for. These dimensions are shown on sheet s1 of the as-builts which is also sheet 3 of the attached as-built drawings.

The narrative is the facility requests the tax certification for the concrete waste storage structure being 386'6" x 57'8" x 9'2.5" that is used for waste storage of the waste of the beef cattle prior to land applying the waste at the appropriate agronomic rates.

The property location is correct. Should you need anything else, please let me know. Thanks.

From: Burge-Bollero, Stephanie [<mailto:Stephanie.Burge-Bollero@Illinois.gov>]

Sent: Tuesday, March 10, 2026 10:00 AM

To: wagnerconsultag@mediacombb.net

Cc: dminnaert15@gmail.com

Subject: Minnaert Farms TC-151877

Good Morning Matthew,

I am in the process of reviewing the tax certification request for Minnaert Farms (TC-151877) located in Geneseo. Based on the current application it is unclear the items for which you are requesting certification. The current description of "Slatted Floor Confinement Barn" is slightly confusing. Is this request for the concrete manure waste storage pit located under the barn and the associated slatted flooring? Please provide a complete narrative specifying all items being request as well as the material of construction and complete dimensions for each item requested. The dimensions in the narrative must match those provided on the drawings.

Also, please verify the location for the property: NE ¼ of Section 1, Township 17N, Range 2E of the 4th PM in Henry County.

Please feel free to reach out with any questions.

Thank you for your assistance!



Stephanie Burge-Bollero

Environmental Protection Specialist II

Permit Section, Industrial (401/Mines) Unit,

Bureau of Water

217-557-8666

Stephanie.Burge-Bollero@illinois.gov

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PROPOSED SLATTED FLOOR CONFINEMENT BUILDING
MINNAERT FARMS
NE 1/4 SECTION 1, T17N, R2E, 4TH P.M.

AS-BUILTS

SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET AND LOCATION MAP	1
SLATTED FLOOR BARN SITE DESIGN	2
GENERAL NOTES	3
STRUCTURAL DRAWINGS	SI-SIO
NUCOR BUILDING DRAWINGS	13 PAGES

SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY
PRACTICE CODE 313 - CONCRETE TANK OPEN TOP	C.F.	160,358
PRACTICE CODE 606 - ENVELOPED PLASTIC, 6"	L.F.	904
PRACTICE CODE 606 - >5 INCH	L.F.	442
PRACTICE CODE 367 - MORE THAN 60' WIDE	S.F.	29,889
PRACTICE CODE 561 - CONCRETE HUA	S.F.	10,000.5

LEGEND

	EDGE OF BUILDING
	PROPOSED GRAVEL ROADWAY
	PERIMETER DRAIN TILE
	ROADWAY CENTERLINE



PROJECT LOCATION MAP

GENERAL NOTES

ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE OF THE OWNER. THIS GUARANTEE SHALL INCLUDE ALL DEFECTS IN MATERIALS AND WORKMANSHIP.

THE CONTRACTOR, BY AGREEING TO PERFORM THE WORK, AGREES TO INDEMNIFY AND HOLD HARMLESS THE OWNER, ENGINEER, ALL AGENTS AND ASSIGNS OF THOSE PARTIES, FROM ALL SUITS AND CLAIMS ARISING OUT OF THE PERFORMANCE OF SAID WORK, AND FURTHER AGREES TO DEFEND OR OTHERWISE PAY ALL LEGAL FEES ARISING OUT OF THE DEFENSE OF SAID PARTIES.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE "APPROVED" ENGINEERING PLANS. THE FULL RESPONSIBILITY FOR KEEPING ALIGNMENTS AND GRADES SHALL REST UPON THE CONTRACTOR.

ALL FIELD TILES ENCOUNTERED DURING CONSTRUCTION SHALL BE RECORDED SHOWING SIZE, LOCATION, AND DEPTH BY CONTRACTOR AND SHALL BE RECONNECTED OR RELOCATED. THE OWNER SHALL BE NOTIFIED IMMEDIATELY.

IF MORE THAN 1 ACRE OF LAND AREA IS TO BE DISTURBED AS PART OF THE CONSTRUCTION OF THE PROPOSED FACILITIES, CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING A NOTICE OF INTENT TO CONSTRUCT FOR GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION SITE ACTIVITIES THRU THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY. ALSO AS PART OF THIS REQUIREMENT, THE CONTRACTOR SHALL DEVELOP AND MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN.

ALL DRAINAGE STRUCTURES, INLETS, PIPES, AND ADJACENT ROADWAYS SHALL BE KEPT FREE AND CLEAN OF DIRT AND DEBRIS AT ALL TIMES. THE CONTRACTOR SHALL NOT SPILL AND LEAVE DIRT ON ADJACENT PAVEMENTS. IF DIRT IS DEPOSITED ON ADJACENT PAVEMENTS, REMOVE THE DIRT AND CLEAN THE PAVEMENTS AT THE END OF EACH CONSTRUCTION DAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT THE END OF EACH WORKING DAY. EXCESS EXCAVATED MATERIAL SHALL BE RESPREAD THRU THE SITE AND BE REGRADED AND REFINISHED.

PROPERLY CORNERS THAT ARE ENCOUNTERED SHALL BE PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR.

THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL BENCHMARKS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

ELEVATIONS SHOWN ON THE PLANS REFERENCE LOCAL DATUM.

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY EXISTING UTILITIES PRIOR TO EXCAVATION AND SHALL HAND DIG AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND OBTAINING LOCATION OF EXISTING UTILITIES.

TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, JUDGEMENT, AND BELIEF THE WASTE STORAGE FACILITY (313), SUBSURFACE DRAIN (606), HEAVY USE AREA PROTECTION (561), ROOFS AND COVERS (367) HAVE BEEN INSTALLED IN ACCORDANCE WITH THE ILLINOIS TECHNICAL GUIDE STANDARDS AND SPECIFICATIONS FOR WASTE STORAGE FACILITY (313), SUBSURFACE DRAIN (606), HEAVY USE AREA PROTECTION (561), AND ROOFS AND COVERS (367). THIS CERTIFICATION IS JUSTIFIED BY THE REVIEW AND APPROVAL OF THE CHANGES BY MR. NOLAN WADE AND MR. BEN BUSHMAN.

Matthew Wagner 2-20-23



REVISIONS				DRAWN M.L.W.		WAGNER CONSULTING & AGRICULTURE 709 WEST OAK STREET LENA, ILLINOIS, 61043 X15-275-7642 WAGNERCONSULTAG@MEDIACOMBB.NET	CONTACT JULIE AT 815 OR 800-892-0123 With the following: County: _____ City/Township: _____ Sec & 1/4 Sec No: _____ 48 HOURS of working days BEFORE YOU DIG	MINNAERT FARMS 11649 WOLF ROAD GENESEO, ILLINOIS 61254	PROJECT NO. 3W22
NO.	DATE	BY	REMARKS	CHECKED A.A.W.					DATE 2/15/23
				APPROVED M.L.W.					SHEET NO. 1
									OF 1271 SHEETS

COVER SHEET AND LOCATION MAP

Electronic Filing: Received, Clerk's Office 09/16/2026 **PCB 2027-015**

SDE NO.
23-017

REVISION	
REV #	DATE
1	2-20-24
2	3-6-24
3	3-6-24
4	3-6-24
5	3-6-24
6	3-6-24
7	3-6-24
8	3-6-24
9	3-6-24
10	3-6-24

SHEET TITLE
GENERAL NOTESDRAWING PHASE
PERMITDATE
3/6/2024

SHEET NO.

G1

MISC. ENGINEER NOTES

THE CONSTRUCTION DOCUMENTS REPRESENT A STABLE STRUCTURE IN THE COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY BRACING AND/OR SHORING TO SAFELY CONSTRUCT THE PROPOSED DESIGN AND PREVENT ANY DAMAGES DURING CONSTRUCTION.

THE ENGINEER IS NOT RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS UNLESS SUCH CHANGES ARE AUTHORIZED IN WRITING BY THE ENGINEER.

THESE PLANS ARE NOT TO BE REPRODUCED AND ARE ONLY INTENDED FOR THIS SPECIFIC PROJECT.

MISC. CONTRACTOR RESPONSIBILITIES

COORDINATE THESE DESIGN PLANS BETWEEN WITH CIVIL DESIGN PLANS PREPARED BY WAGNER CONSULTING AND AGRICULTURE AND BUILDING PLANS PREPARED BY NUCOR BUILDING SYSTEMS DATED WITH ENGINEER SEAL 8/28/23. CONTRACTOR SHALL COMPILE ALL PLANS TO OBTAIN REQUIRED LAYOUT DIMENSIONS AND PROJECT REQUIREMENTS. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING. CONTRACTOR TO NOTE THAT FRAMED DOORWAY OPENINGS IN THE END WALLS, AS SHOWN IN THE BUILDING PLANS, ARE NOT TO BE INSTALLED PER DIRECTION OF THE OWNER. THE CONTRACTOR SHALL CONSULT WITH THE OWNER AND BUILDING MANUFACTURER FOR REQUIRED CHANGES AND REPORT ANY FOUNDATION DESIGN ADJUSTMENTS TO SDE.

THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR MAINTAINING A SAFE JOB SITE CONTINUALLY THROUGH THE DURATION OF THE PROJECT.

THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A FULL SET OF THE MOST RECENT REVISIONS OF EACH DOCUMENT INCLUDING ALL PLANS, SPECIFICATIONS, ADDENDUMS, AND SUPPLEMENTAL INSTRUCTIONS.

ABBREVIATIONS

"TYP." - TYPICAL, REPRESENTING A CONDITION THAT OCCURS AT SEVERAL LOCATIONS IN THE PLANS
 "SIM." - SIMILAR, INDICATES A SIMILAR DESIGN TO THE DETAIL REFERENCED WITH POTENTIAL MINOR VARIATIONS.
 "UNCL." - UNLESS NOTED OTHERWISE
 "TOW" - TOP OF WALL ELEVATION
 "TOP" - TOP OF PIER ELEVATION
 "TOS" - TOP OF SLAB ELEVATION
 "TOF" - TOP OF FOOTING ELEVATION

APPLICABLE CODES AND STANDARDS

STRUCTURAL MEMBERS HAVE BEEN DESIGNED TO THE FOLLOWING CODES. LIKEWISE, DESIGN ELEMENTS BY THE CONTRACTOR AND CONSTRUCTION PRACTICES SHALL MEET THE FOLLOWING CODES:

BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION

AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENT FOR STRUCTURAL CONCRETE (ACI 318), 2014 EDITION

AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM INTERNATIONAL)

MWPS-36 SECOND EDITION

SEE CAST-IN-PLACE CONCRETE NOTES ON THIS SHEET FOR ADDITIONAL STANDARDS.

STRUCTURAL DESIGN LOADS

FOUNDATIONS SUPPORTING BUILDING COLUMNS HAVE BEEN DESIGN IN ACCORDANCE TO THE NUCOR BUILDING SYSTEM PLANS AS REFERENCED ABOVE.

PIT WALL FOUNDATION DESIGN LOADS ARE IN ACCORDANCE WITH MWPS-36 BY MIDWEST PLAN SERVICES AS FOLLOWS:

- 85 PCF EQUIVALENT FLUID PRESSURE FOR DRAINED ONSITE SOILS USED AS BACKFILL. AN ADDITIONAL 2 FEET OF SURCHARGE HAS BEEN CONSIDERED ABOVE THE FINAL GRADE ELEVATION
- 60 PCF EQUIVALENT FLUID PRESSURE FROM INSIDE THE PIT WALLS WITHIN ANY COMBINATION OF PITS EMPTY OR FULL TO 1' BELOW BOTTOM OF THE SLAT ELEVATION

PERFORATED SLAT LOADS AND SUPPORTING PRECAST BEAMS:

- DEAD LOAD: SELF WEIGHT PER PLAN DIMENSIONS.
- LIVE LOAD: 125 PSF (100 PSF FOR BEEF CATTLE PLUS 25 PSF FOR MISC. INCREASE.)
- SLATS ARE NOT DESIGNED FOR A VEHICLE LOAD.

SOLID SLAT LOADS AND SUPPORTING PRECAST BEAMS:

- DEAD LOAD: STRUCTURE SELF WEIGHT PER PLAN DIMENSIONS.
- BULK LOAD: 313 LBS DEAD + 90 LBS FEED.
- LIVE LOAD: 125 PSF UNIFORM LOAD OR MAX DESIGN VEHICLE
- MAX DESIGN VEHICLE: TRACTOR PULLING SINGLE AXLE FEED WAGON
 - *** TRACTOR WEIGHT: 13,000 LBS
 - *** TRACTOR AXLE SPACING: 106"
 - *** TRACTOR TIRE SPACING: 91"
 - *** FULLY LOADED WAGON: 31,000 LBS (ASSUMED 80% ON AXLE AND 20% ON TONGUE)
 - *** DISTANCE FROM REAR TRACTOR AXLE TO WAGON AXLE: 210"
 - *** WAGON TIRE SPACING: 101"

NOTE: SOLID SLAT AND SUPPORTING BEAM DESIGN AS PREPARED BY HW WITH LETTER REPORT DATED 4/20/15. DESIGN LOADS PROVIDE IN THIS LETTER EQUAL OR EXCEED THE DESIGN LOAD REQUIREMENTS LISTED ABOVE.

THE OWNER IS RESPONSIBLE TO NOT EXCEED DESIGN LOADS LISTED WITHOUT ENGINEER APPROVAL.

FOUNDATION/SUBGRADE PREPARATION NOTES

FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING OF 2000 PSF. STRIP THE AREA OF ALL VEGETATION, TOPSOIL, AND ALL OTHER UNSUITABLE MATERIAL. PROOF ROLL SUBGRADE TO IDENTIFY ANY SOFT AREAS PRIOR TO FILLING. THE SUBGRADE SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL REPRESENTATIVE FOR BEARING STRENGTH AND PRESENCES OF SUITABLE SUBGRADE MATERIAL. FOR INADEQUATE SUBGRADE ENCOUNTERED, PERFORM CORRECTION ACTIONS AS DICTATED BY THE GEOTECHNICAL REPRESENTATIVE.

FILL AND BACKFILL MATERIAL BELOW SLABS AND FOOTINGS SHALL BE APPROVED GRANULAR FILL PLACED IN 9" LOOSE LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR (ASTM D1557). THE TOP 4" MINIMUM BELOW SLABS ON GRADE AND PIT SLAB SHALL BE IDOT GRADATION CA-7 FREE DRAINING MATERIAL. ALL OTHER AREAS MAY BE BACKFILLED WITH APPROVED ONSITE EXCAVATION COMPACTED IN 9" LOOSE LIFTS TO 90% MODIFIED PROCTOR. COMPACTATION EFFORTS SHALL BE TESTED BY A GEOTECHNICAL REPRESENTATIVE. IN NO CASE SHALL SOILS CONTAINING ORGANIC MATERIAL OR HIGH PLASTICITY SOILS WITH THE CLASSIFICATION OF "CH" OR "MH" BE USED AS BACKFILL.

BACKFILL EVENLY ON BOTH SIDES OF FOUNDATION WALLS, WHERE APPLICABLE, TO FINAL GRADE. BRACE AS REQUIRED TO PREVENT TIPPING.

BACKFILL PIT WALLS ONLY AFTER PRECAST BEAMS AND SLATS ARE COMPLETELY INSTALLED WITH ENDS GROUTED AND CURED. WALLS SHALL BE BACKFILLED PRIOR TO ERECTING BUILDING STRUCTURE.

ALL FINISHED GRADE SHALL SLOPE AWAY FROM THE STRUCTURE OR FOUNDATION ELEMENT AT A MINIMUM OF 5% GRADE FOR 10' MINIMUM FOR ADEQUATE DRAINAGE. GRADE MAY BE REDUCED TO 2% FOR IMPERVIOUS SURFACES. (IBC 1804.4)

EXCAVATION PRACTICES SHALL FOLLOW ALL OSHA OR OTHER GOVERNING REGULATIONS DESPITE LIMITS THAT MAY BE SHOWN IN THE PLANS.

FILL NOR CONCRETE SHALL NOT BE PLACED ON FROZEN SUBGRADE OR SUBGRADES WITH STANDING WATER. FROZEN MATERIALS CAN NOT BE USED AS BACKFILL.

CAST-IN-PLACE CONCRETE NOTES

CONCRETE MIX DESIGN AND CONSTRUCTION PRACTICES SHALL FOLLOW THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION AND NTH - NATIONAL ENGINEERING HANDBOOK. ALL CONCRETE ELEMENTS PROPOSED IN THE PLANS SHALL MEET AN IDOT MIX DESIGN CLASSIFICATION OF "SF" HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI. IN CASE OF CONFLICT BETWEEN THE IDOT STANDARD SPECIFICATIONS, NTH STANDARDS, AND THE NOTES PROVIDED IN THESE PLANS, USE THE MOST STRINGENT REQUIREMENTS.

ALL CONCRETE MIX DESIGNS SHALL MINIMIZE SHRINKAGE AS MUCH AS PRACTICAL INCLUDING SELECTION OF AGGREGATE TYPE, SIZE, GRADATION, W/C RATIO, AND ADD MIXTURES. MAX AGGREGATE SIZE SHALL MEET ACI REQUIREMENTS FOR BAR CLEARANCES PROVIDED.

CONCRETE PLACEMENT SHALL BE CARRIED ON AS A CONTINUOUS OPERATION UNTIL MEETING A DEFINED DESIGN BOUNDARY OR PREDETERMINED JOINT. AT ALL TIMES DURING PLACEMENT THE CONCRETE SHALL REMAIN PLASTIC AND FLOW READILY INTO ALL VOIDS AND BETWEEN REINFORCING.

CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MEANS SUITABLE DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF THE FORMS. THE TOP SURFACES OF VERTICALLY FORMED LIFTS SHALL BE GENERALLY LEVEL.

SUPERPLASTIZER OR WATER REDUCER ADMIXTURES MAY BE ADDED TO THE CONCRETE MIX PROVIDED THE FOLLOWING REQUIREMENTS ARE MET:

- THE ADMIXTURE SHALL BE ADDED INTO THE CONCRETE MIX AS SPECIFIED BY THE MANUFACTURER AND IS COMPATIBLE WITH THE OTHER ADMIXTURES IN THE MIX.
- THE WATER CONTENT SHALL BE WITHIN THE ACCEPTABLE RANGE OF THAT REQUIRED BY THE CONCRETE MIX DESIGN.
- IF THE ADMIXTURE IS ADDED AT THE JOBSITE, THE SLUMP OF THE CONCRETE BEFORE THE ADDITION OF THE ADMIXTURE SHALL NOT EXCEED A SLUMP OF 4 INCHES.

THE CONTRACTOR SHALL CONTACT THE ENGINEER IF REINFORCING ARRANGEMENT IS TO BE MODIFIED TO PROVIDE ADEQUATE CONCRETE CONSOLIDATION PRIOR TO CONSTRUCTION.

RETARDER AND ACCELERATING ADMIXTURES MAY BE USED FOLLOWING ASTM C-494. ALL CONCRETE ADMIXTURES SHALL, WHEN MIXED INTO CONCRETE, BE NON-CHLORIDE AND NON-CHLORIDE FORMING. THE CONTRACTOR SHALL VERIFY THAT ALL ADMIXTURES, HARDENERS, AND CURING COMPOUNDS ARE COMPATIBLE WITH EACH OTHER.

CAST-IN-PLACE CONCRETE SHALL BE TESTED DURING CONSTRUCTION AS FOLLOWS:

1. PROVIDE ONE SET OF SIX TEST CYLINDERS FOR EACH DAYS POUR OR FOR EACH 50 CUBIC YARDS OF MATERIAL PLACED, WHICHEVER IS LESS. PERFORM COMPRESSIVE STRENGTH TEST PER ASTM C39 TEST TWO CYLINDER AT 7 DAYS AND TWO AT 28 DAYS. HOLD OTHER TWO FOR RESERVE IF ADDITIONAL TESTING REQUIRED.
2. PERFORM SLUMP AND AIR CONTENT TEST WITH PREPARATION WITH EACH SET OF TEST CYLINDERS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL FORMING AND SHORING.

THE CONTRACTOR IS RESPONSIBLE FOR CONCRETE CURING TECHNIQUES AND PRODUCTS USED TO MEET A QUALITY FINISH PRODUCT.

COORDINATE WITH ALL SUBCONTRACTORS AND RELATED PROJECT DRAWINGS PRIOR TO CONCRETE

CONSTRUCTION. THE CONCRETE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL INSTALLATIONS ARE COMPLETE PRIOR TO CASTING CONCRETE.

CONCRETE ANCHORING/REINFORCING SPECIFICATIONS.

REINFORCING BARS: ASTM A615 GR. 60 OR ASTM A706 GR. 60

DOWEL BARS: ASTM A36, F_y = 36 KSI

ANCHOR RODS: ASTM F1554 GR. 55 FULLY THREADED, GALVANIZED.

DETAILING OF REINFORCEMENT TO BE IN ACCORDANCE WITH ACI PUBLICATION SP-66 "ACI DETAILING MANUAL" LATEST EDITION.

ALL REINFORCING AND ANCHORING SHALL BE SUPPORTED ON CHAIRS/BOLSTERS OR BARS OF EQUAL STRENGTH TO CONCRETE. SPACING SHALL BE SUFFICIENTLY CLOSE TO PREVENT DISPLACEMENT OR PERMANENT DEFORMATION DUE TO CONCRETE PLACEMENT, FOOT TRAFFIC, OR VIBRATION. PULLING UP REINFORCING IS NOT AN ACCEPTABLE METHOD FOR PLACING REINFORCING. CHAIRS/BOLSTERS IN CONTACT WITH EARTH SHALL HAVE BOTTOM PLATES.

STEEL TYING AND CONSTRUCTION ADJACENT TO A RECENT POUR SHALL NOT BEGIN UNTIL THE RECENT POUR HAS CURED FOR AT LEAST 12 HOURS.

MAINTAIN CLEAR COVER ON REINFORCING AS LISTED BELOW UNLESS NOTED OTHERWISE.

CAST AGAINST EARTH (BOTTOM OR SIDE): 3"

FORMED - EXPOSED TO SOIL, WEATHER OR LIQUIDS: 2"

FORMED SURFACES INTERIOR OR CAST AGAINST EX. CONCRETE: 1-1/2"

LOCATE VERTICAL AND HORIZONTAL BARS IN THE ORDER AND SEQUENCE AS GRAPHICALLY SHOWN IN THE PLANS/DETAILS. REINFORCING SHALL BE ACCURATELY PLACED AND SECURED IN THE WALLS AT THE POSITION AS SHOWN IN THE DRAWINGS. BAR LOCATION IS CRITICAL FOR MEETING ALL REQUIREMENTS.

ALL REINFORCING BARS SHALL BE CONTINUOUS OR LAPPED. SEE TABLE FOR BAR LAP LENGTHS.

AT INTERSECTIONS OR CORNERS OF WALLS AND FOOTINGS, PROVIDE CORNER BARS OF SAME SIZE AND SPACING OF HORIZONTAL BARS AND LAP TO MAIN STEEL UNLESS OTHERWISE NOTED OR DETAILED.

EPOXY POST INSTALLED ANCHORS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER AND SHALL FOLLOW THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI) AND THE EVALUATION REPORT (EVR) SPECIFIED INCLUDING HOLE PREPARATION, TEMPERATURE, HUMIDITY, CURE TIMES, AND TORQUE ALLOWANCES. INSTALLATION REQUIREMENTS FOR ADEQUATE BOND STRENGTH INCLUDE A CLEANED AND DRY HOLE CONDITION IN CONCRETE AT LEAST CURED FOR 21 DAYS WITH HOLES DRILLED BY A CARBIDE TIPPED HAMMER DRILL BIT. APPROVED ADHESIVE OR EPOXY PRODUCT: HILTI HIT-HY 200 OR EQUAL.

DO NOT BACKFILL OR ERECT STRUCTURAL STEEL UNTIL FOUNDATION AND FLOOR SLAB HAVE DEVELOPED SUFFICIENT STRENGTH TO CARRY THE IMPOSED LOADS. A MINIMUM CONCRETE CURING PERIOD SHALL BE SEVEN DAYS, UNLESS CONCRETE TESTS INDICATED THAT MINIMUM DESIGN STRENGTHS ARE ALREADY MET.

PLACING OF CONCRETE SHALL CONFORM WITH ACI 306 FOR COLD WEATHER AND ACI 308 FOR HOT WEATHER DURING APPLICABLE CONDITIONS.

SLABS ON GRADE AND ELEVATED SLABS ARE NOT DESIGNED TO SUPPORT CRANES, FORKLIFTS, TRUCKS, MANLIFTS, OR OTHER CONSTRUCTION RELATED EQUIPMENT UNLESS NOTED AS SUCH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF CONSTRUCTION EQUIPMENT CAN BE SAFELY OPERATED ON THESE SLABS AND TO REPAIR ANY DAMAGE THE EQUIPMENT MAY CAUSE.

ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED X" INSIDE FORMS OR TOOLED TO X" RADIUS UNLESS NOTED OTHERWISE.

STEEL REINFORCING SHALL BE STORED ON THE JOB SITE IN SUCH A WAY AS TO ELIMINATE CONTAMINATION BY THE SOIL OR GRAVEL. (I.E. STEEL SHALL BE STORED ON CRIBBING OR TIMBERS WITH ADEQUATE SPACING TO PREVENT SAGGING TO THE SOIL).

FORMS SHALL BE COATED WITH A RELEASE AGENT. RELEASE AGENT SHALL BE PLACED ON FORMS PRIOR TO SETTING THEM. FORMS WITH TORN SURFACES, WORK EDGES, DENTS OR OTHER DEFECTS SHALL NOT BE USED.

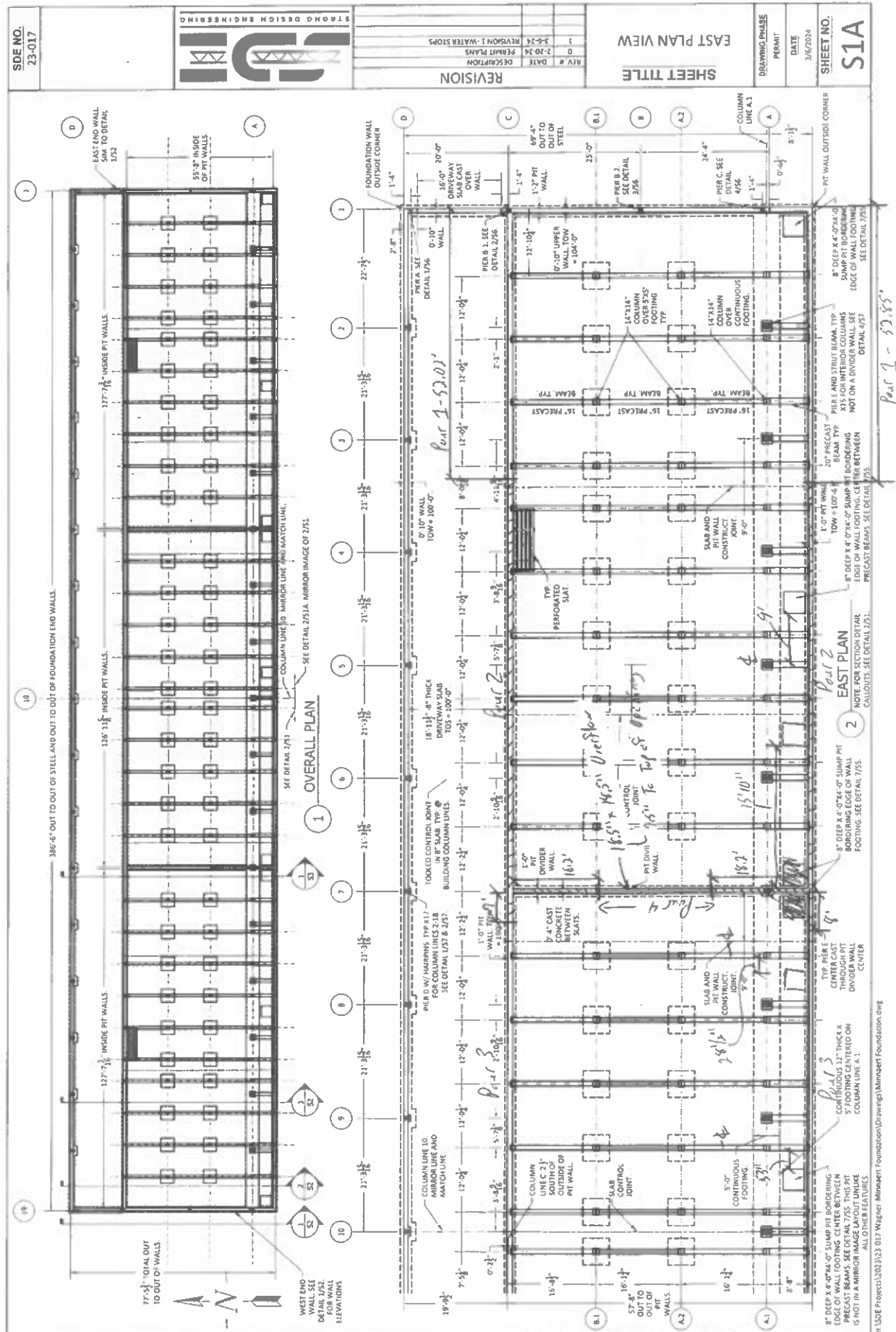
LAYOUT OF COLUMN BASES AND ANCHORS SHALL BE DONE BY AN EXPERIENCED CONSTRUCTION SURVEYOR.

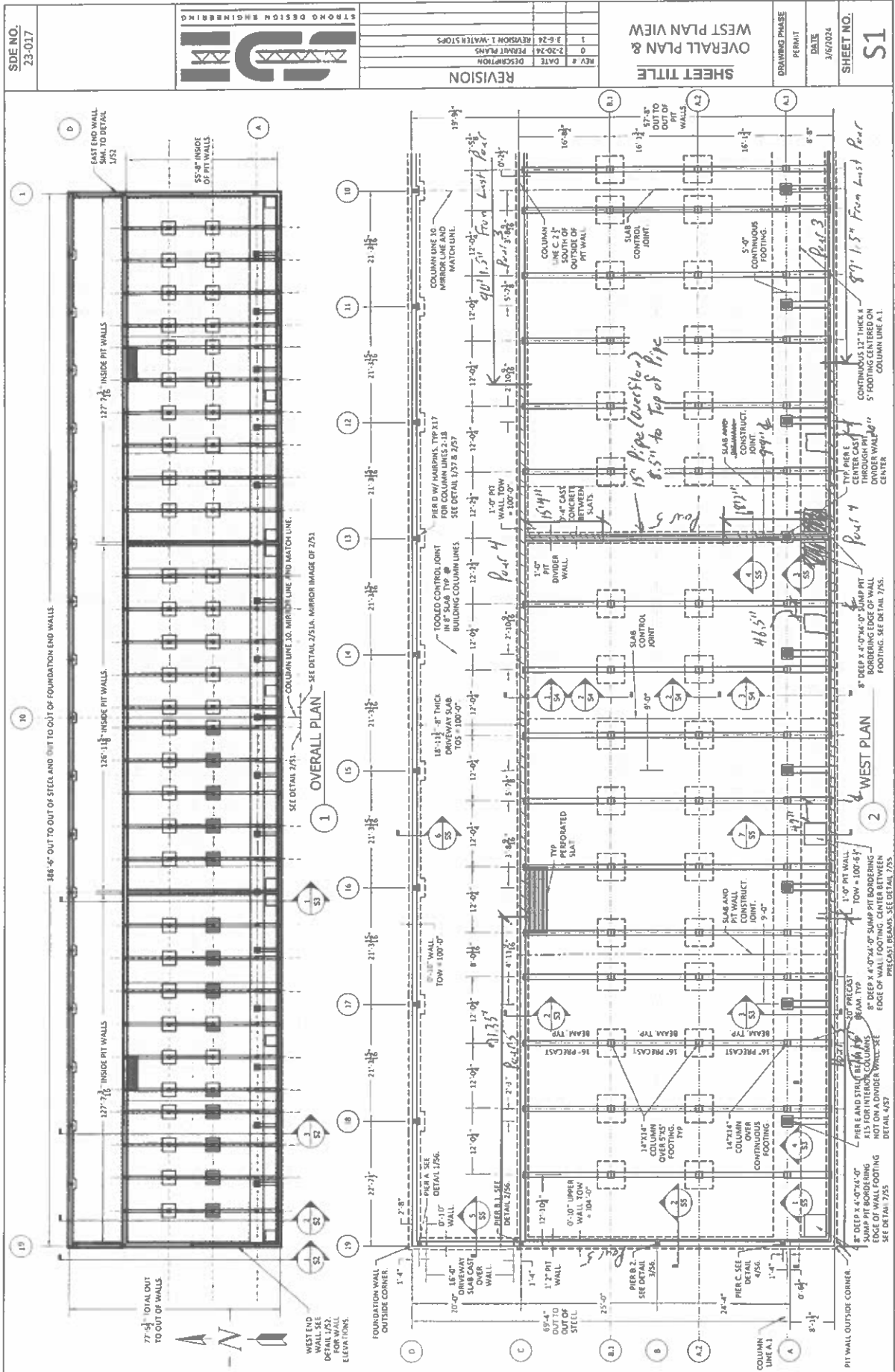
PROVIDE CARBON STEEL ANCHOR BOLT TEMPLATES PER BASE PLATE ANCHOR PATTERNS. EMBEDDED TEMPLATES SHALL BE KEPT AS SMALL AS POSSIBLE TO AVOID INTERFERENCE WITH REINFORCING STEEL AND CONCRETE PLACEMENT. CONTRACTOR TO TAKE SPECIAL CARE TO CONSOLIDATE CONCRETE AROUND ALL EMBEDDED TEMPLATES.

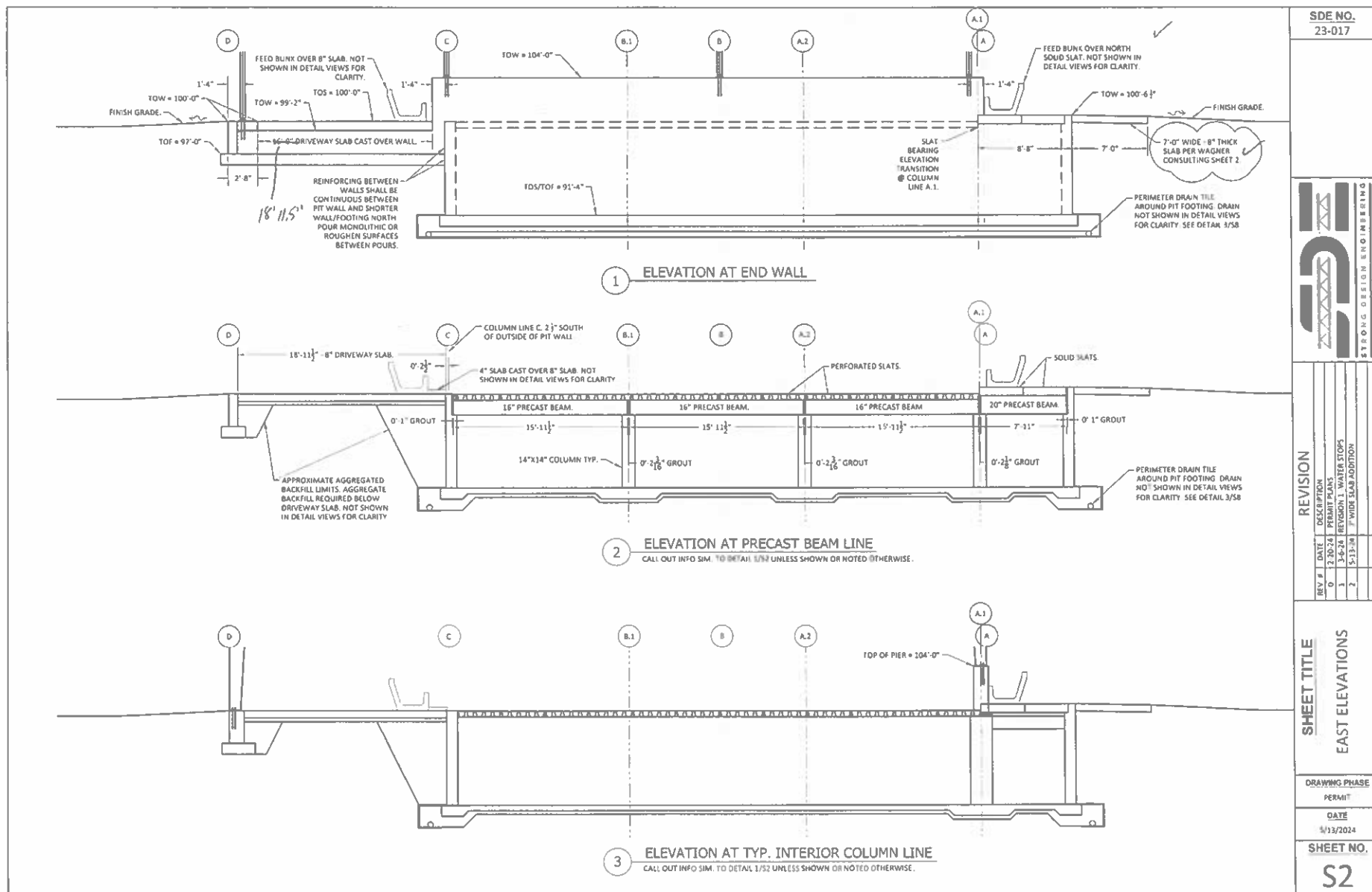
ALL WATERSTOPS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS

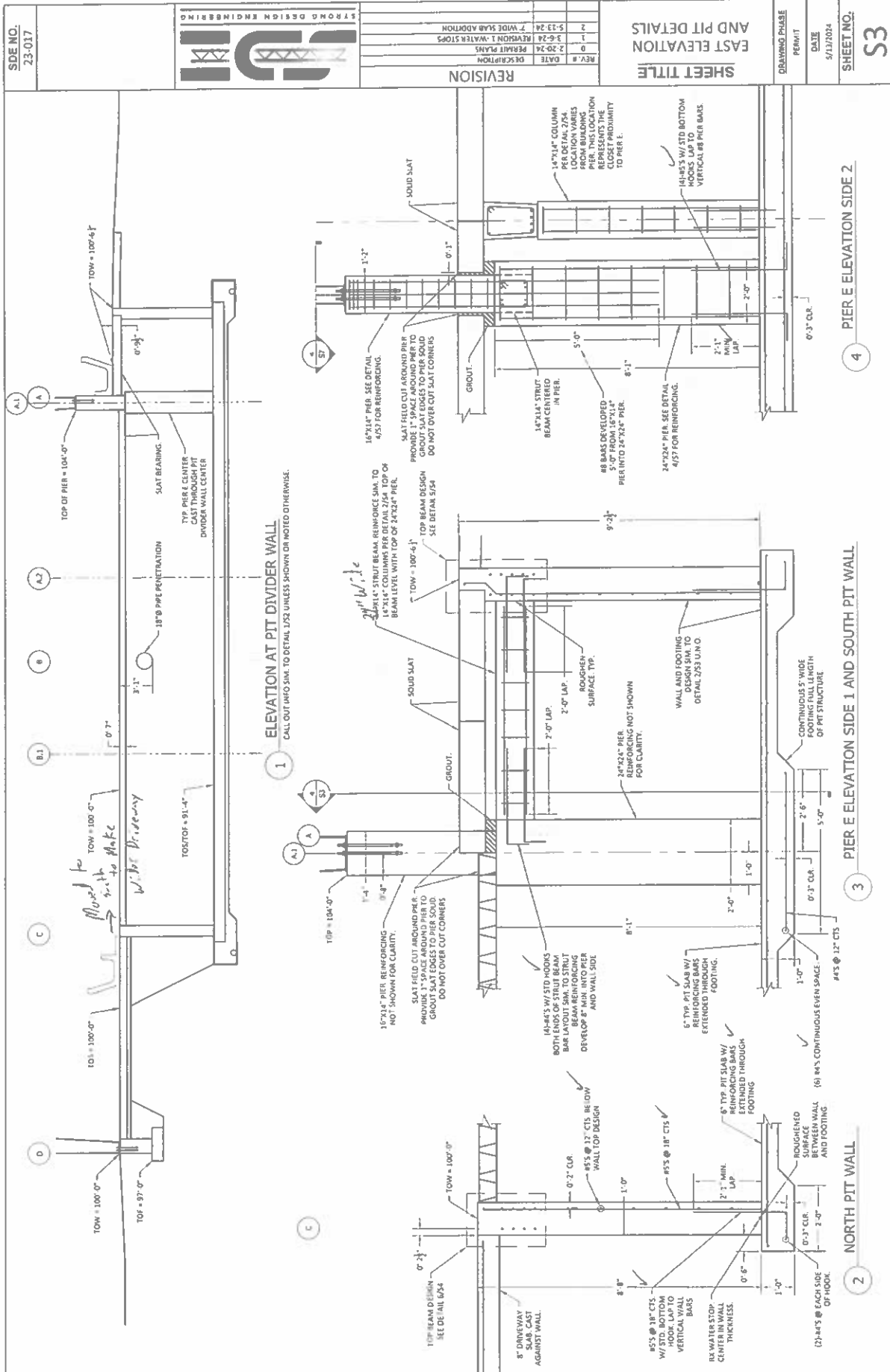
STRUCTURAL TESTS, INSPECTIONS, AND QUALITY ASSURANCE

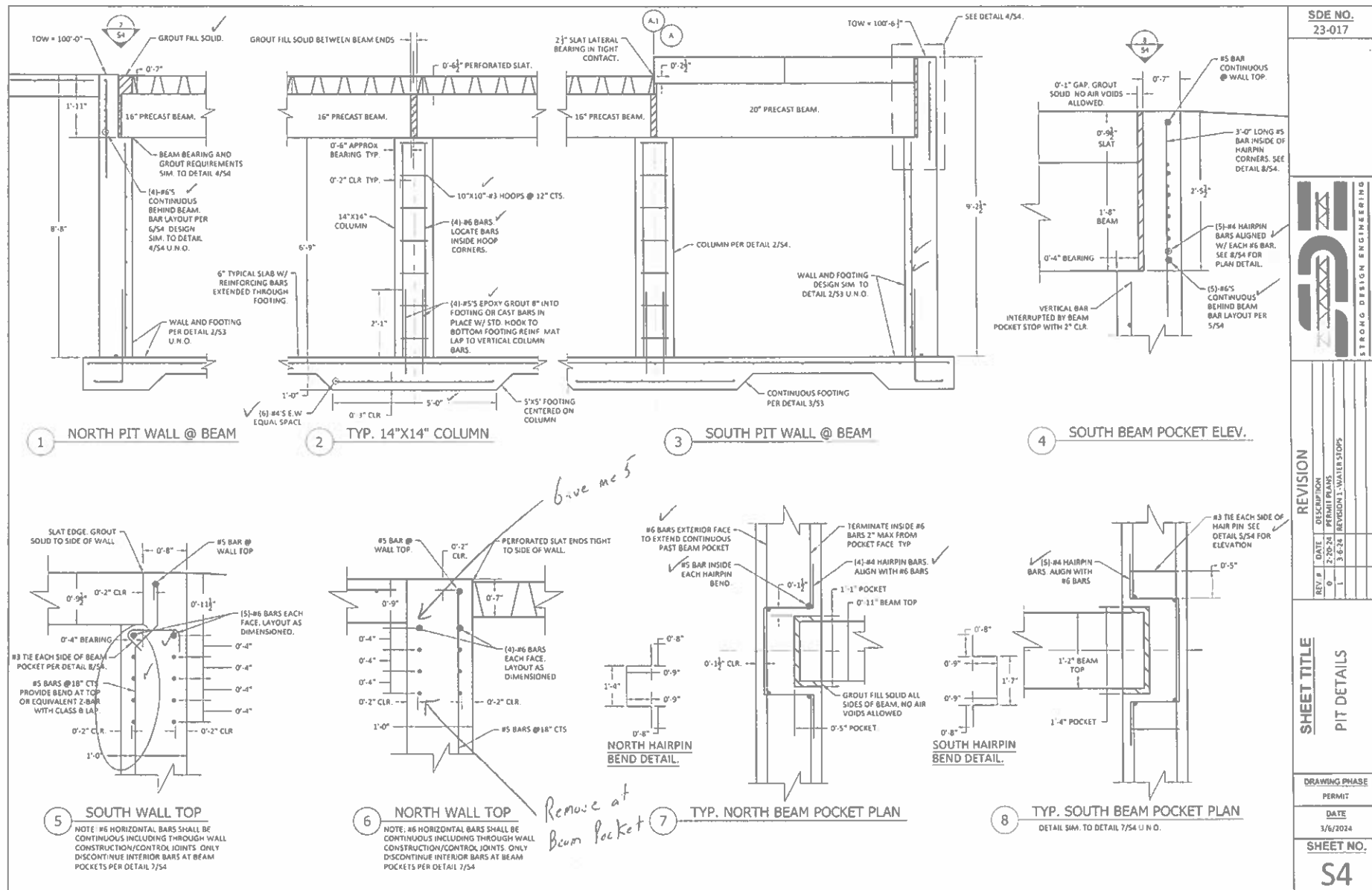
ALL MATERIALS AND STRUCTURAL TESTS AND INSPECTIONS SHALL BE PERFORMED AS DEFINED IN THE NOTES, PLANS, AND GOVERNING BUILDING CODES. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE DESIGN DOCUMENTS, BUILDING OFFICIAL, AND OWNER. NO WORK SHALL BE PERFORMED WHICH WOULD CONCEAL ITEMS TO BE TESTED AND INSPECTED UNTIL THE WORK HAS BEEN REVIEWED, TESTED, AND APPROVED.











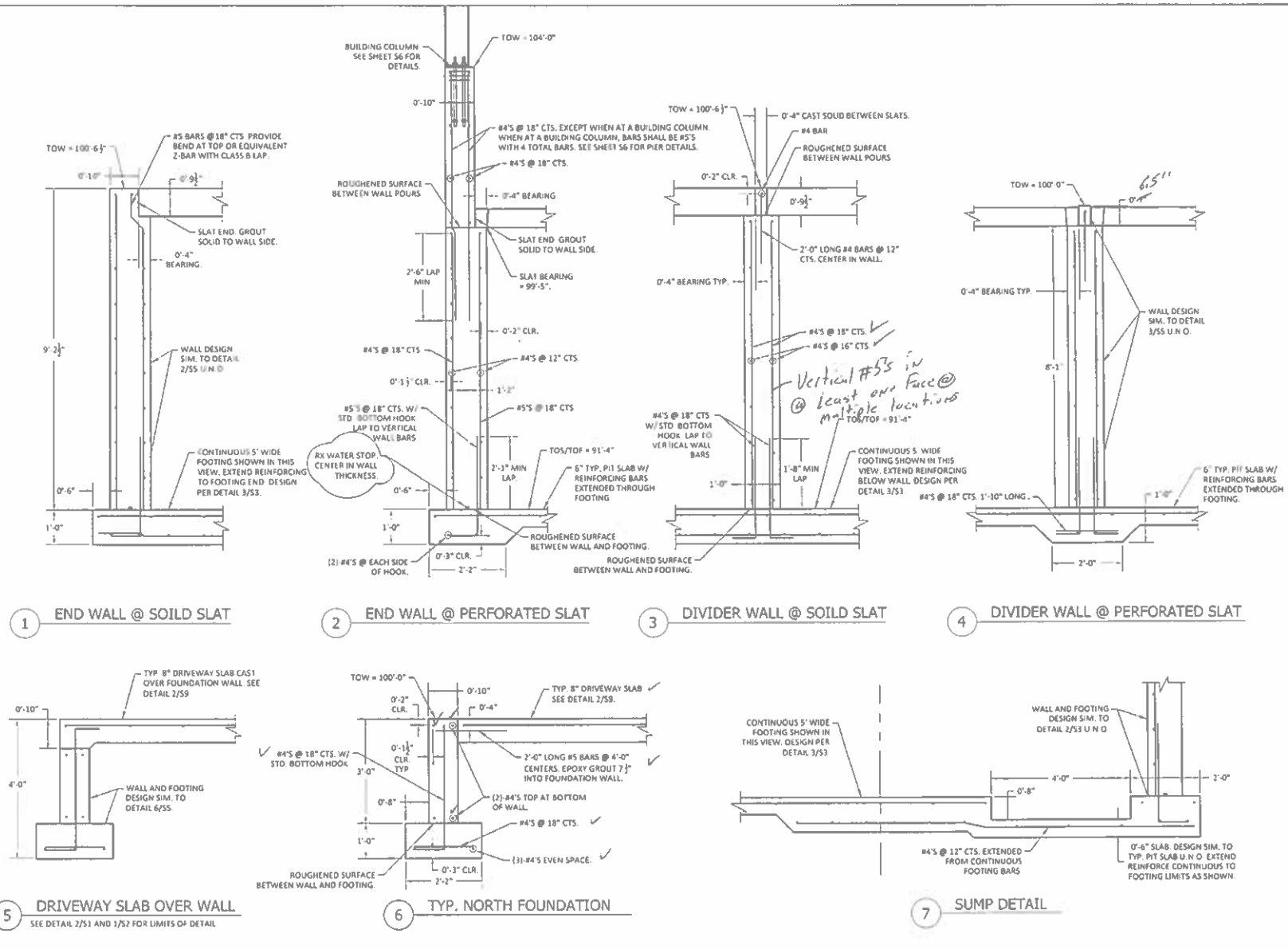
SDE NO.
23-017



REVISION		
REV #	DATE	DESCRIPTION
0	2-20-24	PERMIT PLANS
1	3-6-24	REVISION 1 - WATER STOPS

SHEET TITLE
PIT AND NORTH
FOUNDATION DETAILS

DRAWING PHASE	
PERMIT	
DATE	3/6/2024
SHEET NO.	S5



SDE NO.
23-017

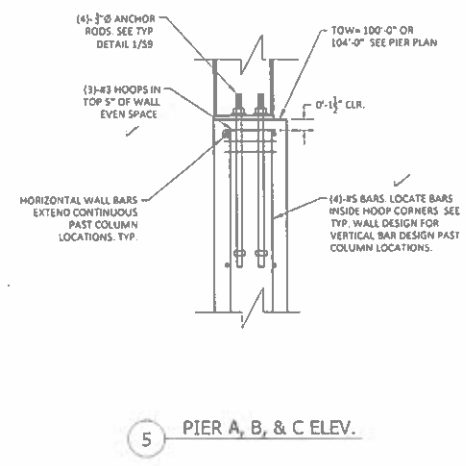
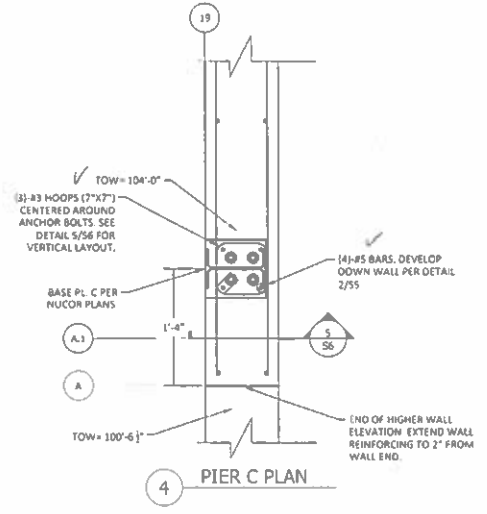
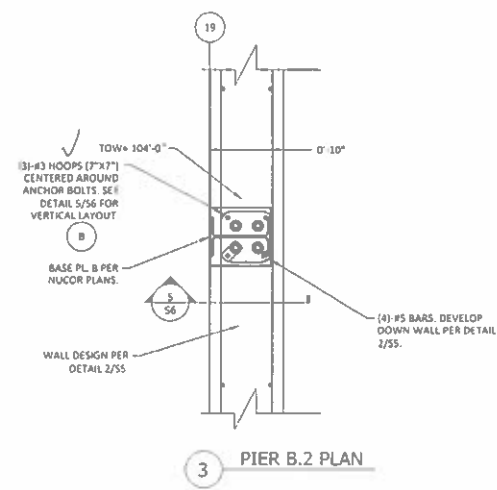
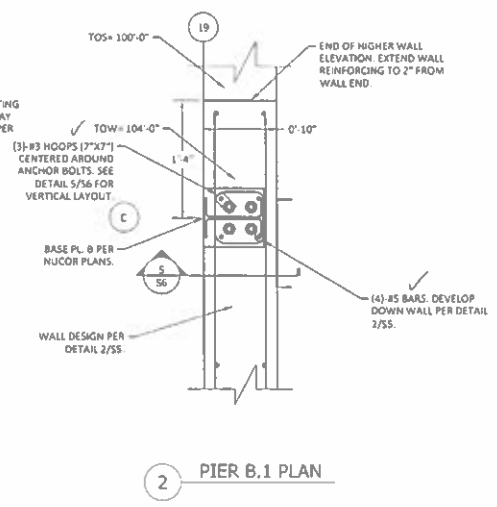
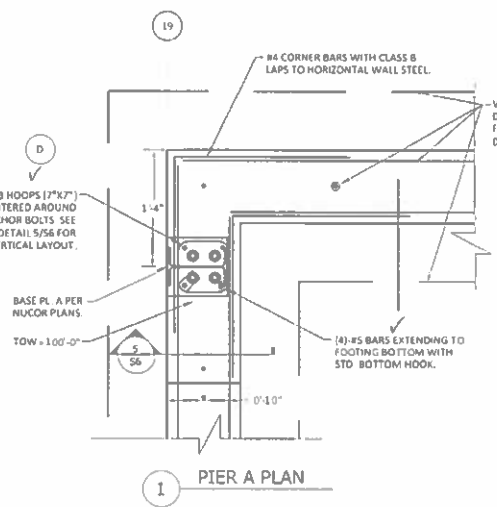


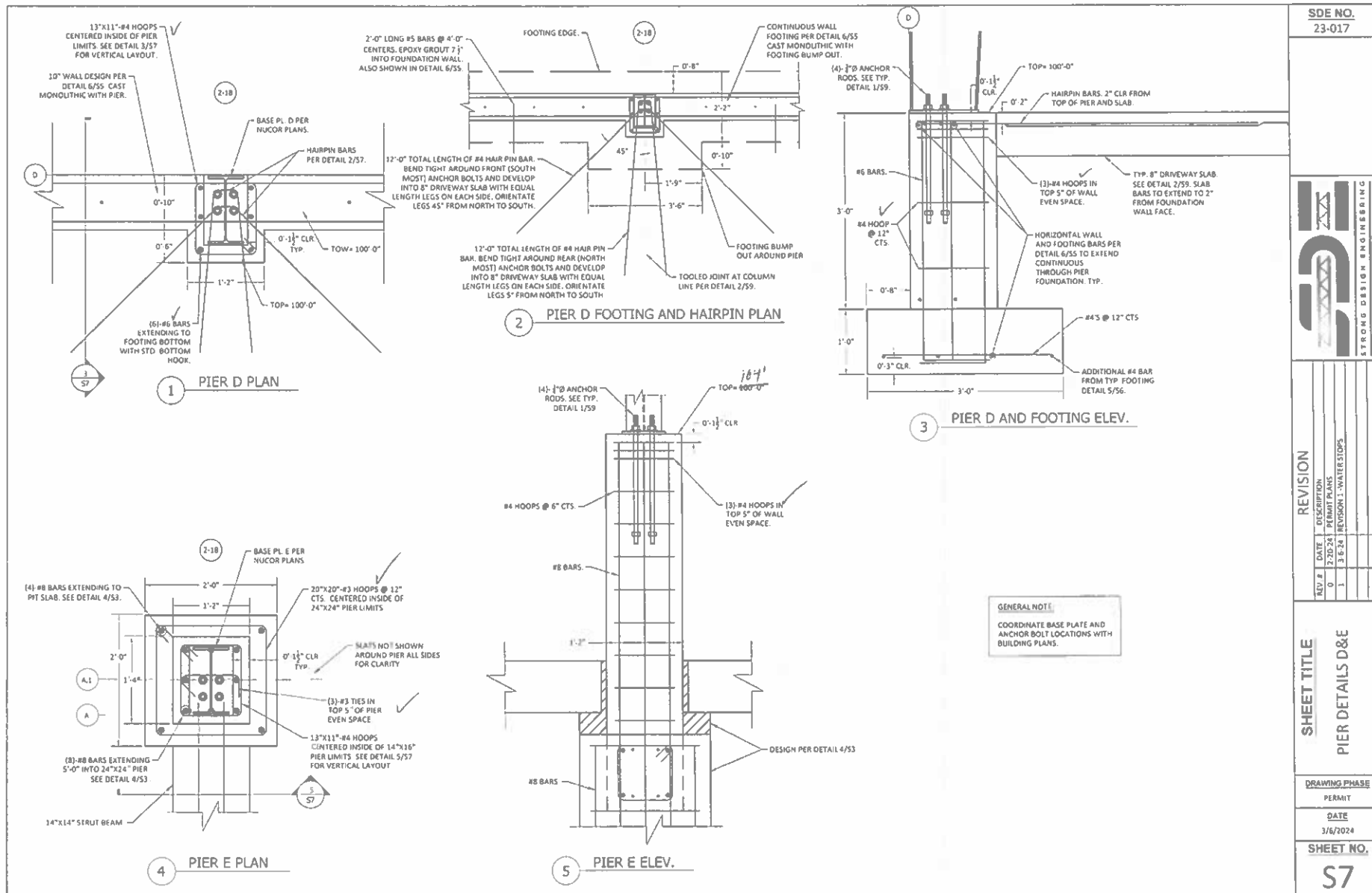
REVISION	
REV	DESCRIPTION
0	2-20-24 PERMIT PLANS
1	3-2-24 REVISION 1 - WATER STOPS

SHEET TITLE
PIER DETAILS
A, B, & C

DRAWING PHASE
PERMIT
DATE
3/8/2024
SHEET NO.
S6

GENERAL NOTE:
COORDINATE BASE PLATE AND
ANCHOR BOLT LOCATIONS WITH
BUILDING PLANS.





SDE NO.
23-017

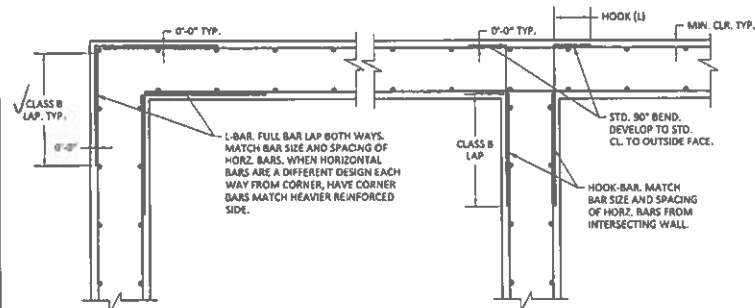


REVISION			
REV #	DATE	DESCRIPTION	BY
0	2/20/24	PERMIT PLANS	
1	3/6/24	REWORK 1 WATERLOPS	

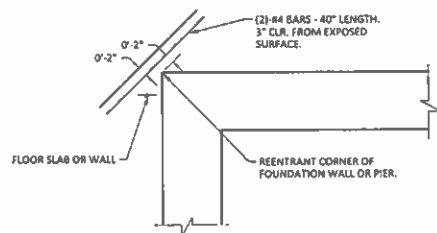
SHEET TITLE
PIER DETAILS D&E

DRAWING PHASE
PERMIT
DATE
3/6/2024

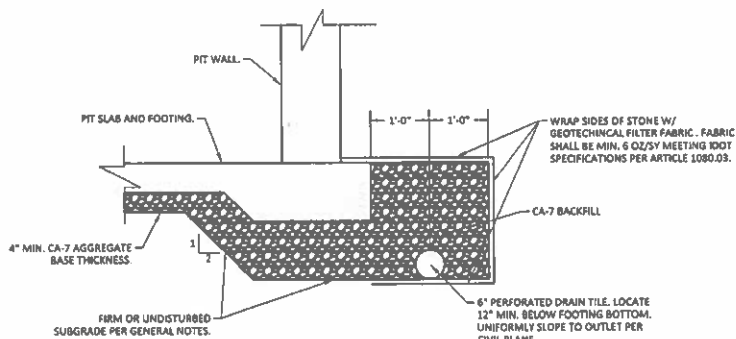
SHEET NO.
S7



1 TYP. CORNER AND INTERSECT. REINF.

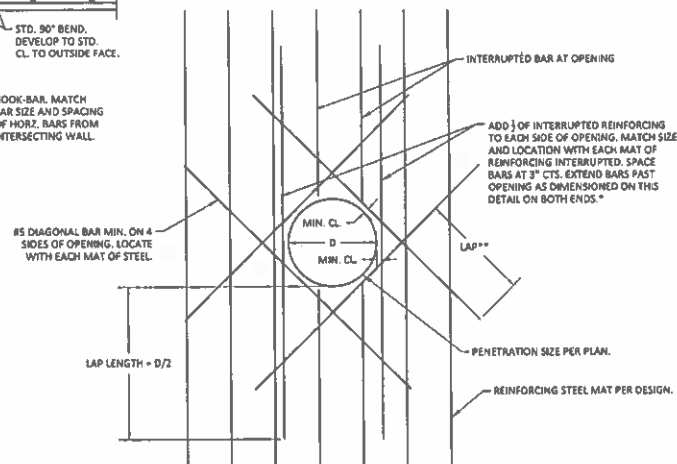


2 TYP. REINF. AT REENTRANT CORNERS



② TYP. PERIMETER DRAIN TILE AND PIT FOOTING BASE

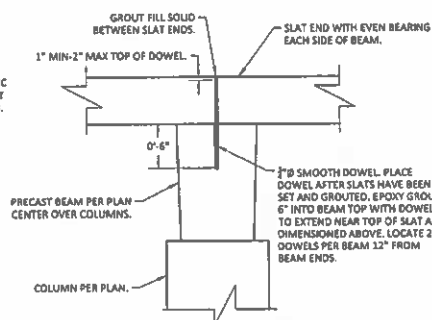
DRAIN DETAIL IS NOT INTENDED TO ALLEVIATE WATER PRESSURES FROM THE PRESENCE OF THE WATER TABLE. THE WATER TABLE IS NOT UNDERSTOOD TO BE LOCATED WITHIN THE PROJECT DEPTH. SHOULD EVIDENCE OF THE WATER TABLE BE ENCOUNTERED, THE CIVIL ENGINEER SHALL MAKE DESIGN ADJUSTMENTS TO THE UNDERDRAIN SYSTEM AND COORDINATE CHANGES WITH SDE.



REINFORCING AT PENETRATIONS

*NOTE: REINFORCING STEEL SHOWN IN UPRIGHT POSITION ONLY FOR CLARITY. PROVIDE LEFT TO RIGHT STEEL SIMILARLY.

^^LAP LENGTH TO BE TAKEN AS 75% MIN. OF BAR LAP LENGTH



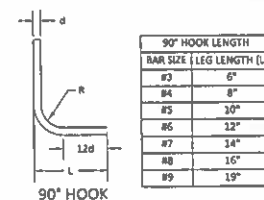
8 SLAT OVER BEAM DETAIL

BAR SIZE	TOP BARS	OTHER BARS
#3	19"	15"
#4	25"	20"
#5	31"	25"
#6	38"	30"
#7	44"	35"
#8	50"	40"
#9	56"	45"

SCHEDULE NOTES:

1. LAP LENGTHS IN TABLE REQUIRE A CONCRETE STRENGTH OF 4,000 PSI MIN.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
3. LAP SCHEDULE IS ONLY APPLICABLE FOR BAR SPACINGS OF 5 BAR DIAMETERS OR MORE WITH MINIMUM CLEAR COVER.

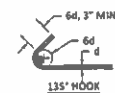
CLASS B BAR LAP



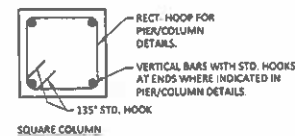
SCHEDULE NOTES:

- SCHEDULE NOTES:**
1. $R=3d$ FOR #8 BARS AND SMALLER AND $R=4d$ FOR LARGER THAN #8'S.
 2. COLD BEND WITHOUT HEATING

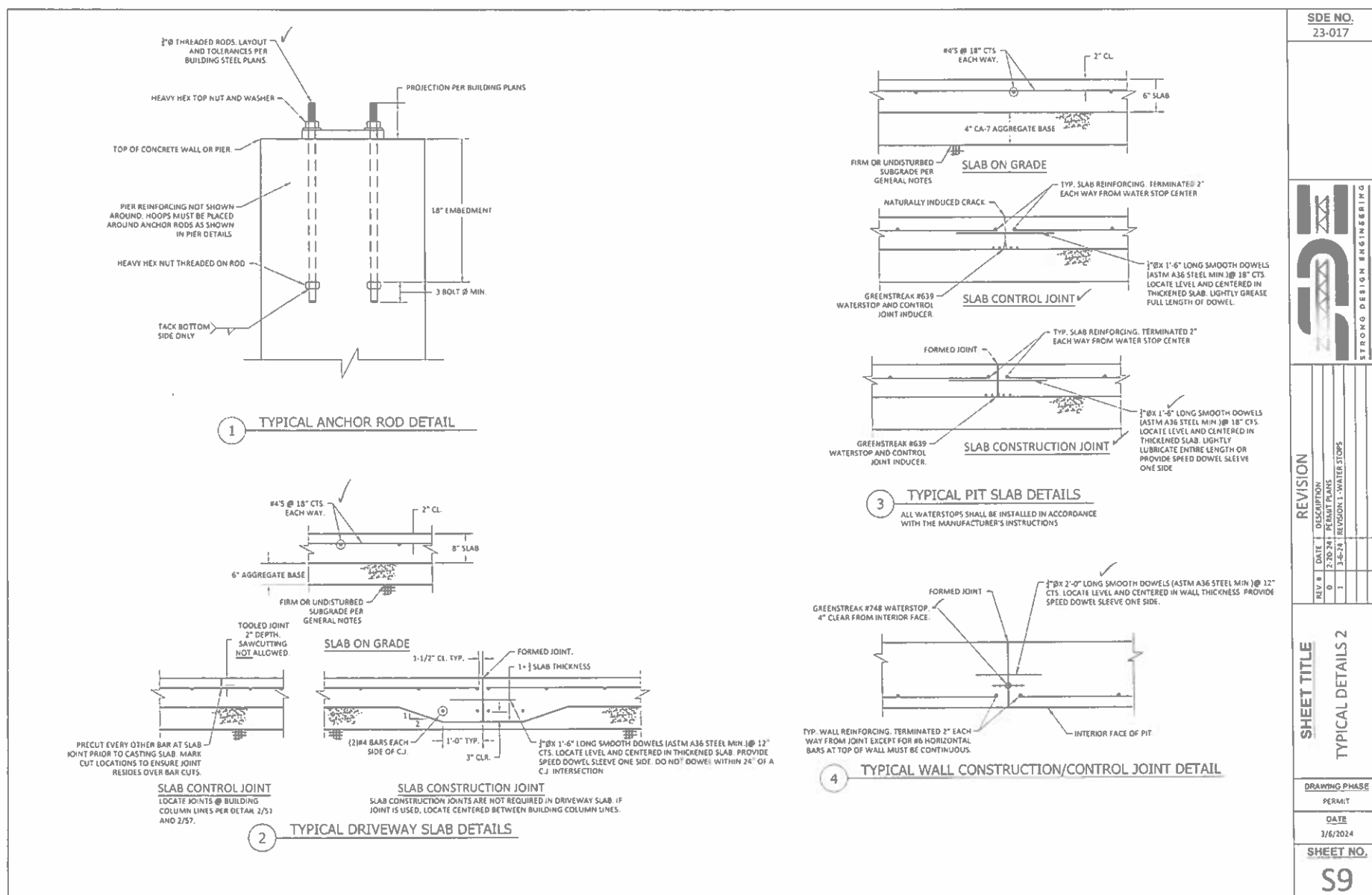
6 STANDARD HOOKS



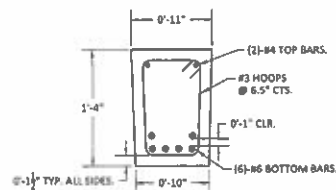
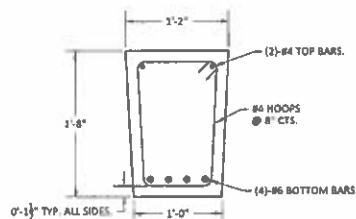
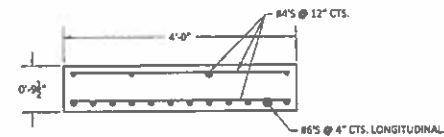
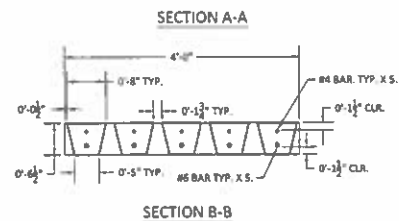
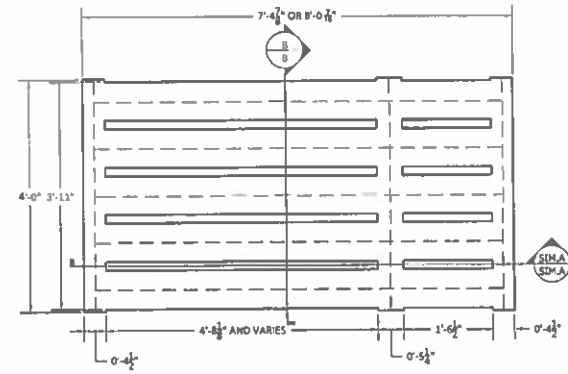
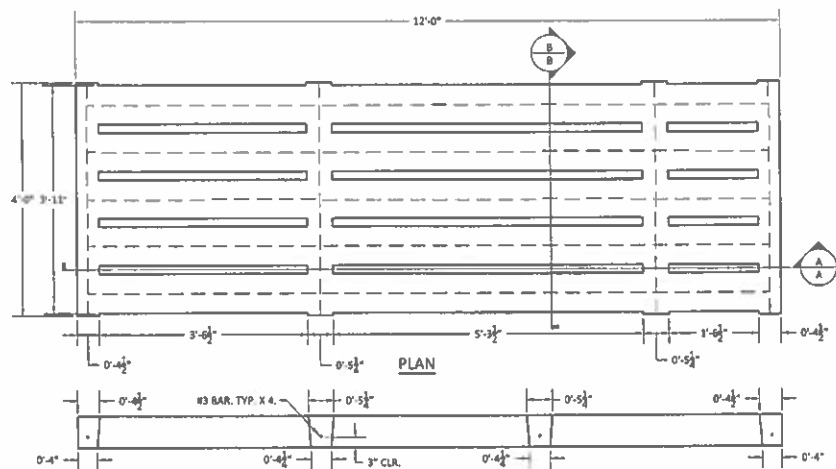
⑦ HOOKS FOR COLUMN/PIER HOOPS



8 SLAT OVER BEAM DETAIL



SDE NO. 23-017				STRONG DESIGN ENGINEERING	
SHEET TITLE		REVISION			
TYPICAL DETAILS 2		REV #	DATE	DESCRIPTION	
		0	2-20-24	PERMIT PLANS	
		1	3-22-24	REVISION 1 - WATER STOPS	
DRAWING PHASE					
PERMIT					
DATE					
3/6/2024					
SHEET NO.					
S9					



PRECAST CONCRETE AND GROUT NOTES

REINFORCING BARS: ASTM A615 GR. 60. OR ASTM A706 GR. 60
CONCRETE: 7,000 PSI (28 DAY)

PRECAST CONCRETE MIX DESIGN IS THE RESPONSIBILITY OF THE PRECAST MANUFACTURER TO MEET STRENGTH REQUIREMENTS, ENVIRONMENTAL CONDITIONS, AND APPLICABLE CODE REQUIREMENTS.

SHORT SLATS ARE REQUIRED FOR ONE BAY AT EACH OF THE 3 PIT LOCATIONS. SEE PLAN FOR DIMENSIONS AND LOCATIONS.

PRECAST BEAMS SHALL BE LOCATED WITH BEARING WIDTH DIMENSIONS PROVIDED. BEARING AREAS SHALL BE LEVEL AND UNIFORM AT THE REQUIRED ELEVATION. BEAM ENDS SHALL BE GROUDED SOLID BETWEEN ADJACENT BEAMS OR AROUND WALL POCKETS AS APPLICABLE. SLAT SIDES AND ENDS SHALL BE BUTTED TIGHT. GAPS BETWEEN BEAMS OR SLAT ENDS TO SUPPORT WALLS/PIERS SHALL BE GROUDED SOLID. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AND MEET FULL STRENGTH PRIOR TO BACKFILLING. GROUT SHALL BE INSTALLED PER MANUFACTURER INSTRUCTION AND HAVE A CONSISTENCY TO READY FLOW IN OPEN VENTS. BEAMS AND SLATS IN SOLID BEARING ARE CRITICAL TO THE STABILITY OF THE FOUNDATION STRUCTURE AND SHALL REMAIN IN PLACE.

9 1/2" SOLID SLATS AND 20" BEAMS ARE AS DESIGNED BY INW WITH LETTER REPORT DATED 4/20/15. 20" BEAM DESIGN IS PROVIDED HERE WITH TOP WIDTH INCREASE AS REQUIRED BY THE MANUFACTURER. 9 1/2" SOLID SLAT DESIGN IS PROVIDED FOR REFERENCE ONLY.

SLAT LENGTHS AND WIDTH AND BEAM LENGTHS SHALL BE VERIFIED WITH LAYOUT PLANS PRIOR TO FABRICATION. CONSTRUCTION TOLERANCES SHALL BE CONSIDERED FOR PROPER FIT UP AND BEARING REQUIREMENTS. REPORT REQUIRED CHANGES TO THE ENGINEER.

SHEET TITLE		REVISION			SDE NO. 23-017
DRAWING PHASE		REV # DATE DESCRIPTION			
PERMIT		0 2-20-24 PERMIT PLANS			
		1 3-6-24 REVISION 1: WATER STOPS			
DATE					
SHEET NO.					
S10					

FOR OCCUPANCY (RISK) CATEGORY I OR II, IBC PROVISIONS INDICATE THAT SINGLE-STORY BUILDINGS SHALL HAVE "NO DRIFT LIMIT" PROVIDED THAT INTERIOR WALLS, PARTITIONS, CEILINGS, AND EXTERIOR WALL SYSTEMS HAVE BEEN DESIGNED TO ACCOMMODATE THE SEISMIC STORY DRIFTS. INTERIOR WALLS, PARTITIONS, CEILINGS, OR EXTERIOR WALL SYSTEMS NOT PROVIDED BY THE METAL BUILDING MANUFACTURER SHALL BE DESIGNED AND DETAILED BY OTHERS TO ACCOMMODATE THE SEISMIC STORY DRIFTS. SEISMIC DRIFT VALUES MAY BE OBTAINED FROM THE METAL BUILDING MANUFACTURER.

THIS BUILDING SYSTEM DESIGN IS BASED ON UNIFORMLY APPLYING THE CONTRACT-SPECIFIED LIVE LOAD AND ROOF SNOW LOAD. IN ADDITION, THE DESIGN IS BASED ON APPLYING A CODE-DEFINED LIVE LOAD (INCLUDING APPLICABLE REDUCTIONS) AND A CODE-DEFINED SNOW LOAD (BASED ON CONTRACT-SPECIFIED GROUND SNOW) FOR ALL PARTIAL LOADING AND UNBALANCED SNOW LOAD CONDITIONS.

THE BUILDING CODE REQUIRES CONSIDERATION OF SNOW SURCHARGES FOR ANY LOWER ROOF OF A STRUCTURE LOCATED WITHIN 20 ft. OF A HIGHER STRUCTURE. INFORMATION PROVIDED TO THE METAL BUILDING MANUFACTURER DOES NOT INDICATE THE PRESENCE OF A SHADOWING STRUCTURE WITHIN THIS 20 ft. ENVELOPE, THEREFORE SNOW SURCHARGES HAVE NOT BEEN CONSIDERED IN THE DESIGN.

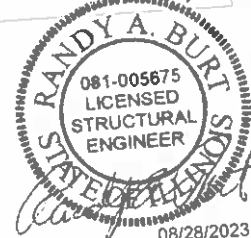
THE PROJECT "ENGINEER OF RECORD" (EOR), NOT THE METAL BUILDING MANUFACTURER, IS RESPONSIBLE FOR ASSURING THAT THE ROOF/WALL SHEETING NOT PROVIDED BY THE METAL BUILDING MANUFACTURER IS DESIGNED TO SAFELY WITHSTAND ALL CODE REQUIRED LOADINGS ASSOCIATED WITH THE PURLIN/GIRT SPACING PROVIDED. ALL TRIM AND FLASHING FOR THE WALLS AND ROOF NOT PROVIDED BY THE METAL BUILDING MANUFACTURER ARE TO BE PROVIDED BY OTHERS. PURLIN DESIGN ASSUMES THAT SHEETING BY OTHERS PROVIDES STABILITY EQUAL TO OR GREATER THAN NUCOR CLASSIC ROOF PANEL

THE ROOF PANEL AND FASTENERS BY OTHERS MUST WEIGH NO MORE THAN 1.00 PSF

IF SNOW GUARDS OR OTHER DEVICES INTENDED TO HOLD SNOW AND/OR ICE ACCUMULATION ON THE ROOF SYSTEM ARE TO BE USED ON THIS PROJECT, THEY MUST BE INSTALLED UNDER THE GUIDANCE OF THE PROJECT "ENGINEER OF RECORD" (EOR), NOT THE METAL BUILDING MANUFACTURER, SO AS NOT TO EXCEED THE DESIGN ROOF SNOW LOAD ON THIS PROJECT.

ACCESSORIES (DOORS, WINDOWS, ETC.) NOT PROVIDED BY THE METAL BUILDING MANUFACTURER MUST BE DESIGNED AS "COMPONENTS AND CLADDING" IN ACCORDANCE WITH THE SPECIFIC WIND PROVISIONS OF THE REFERENCED BUILDING CODE DISPLAYED ON THE COVER PAGE OF THIS DRAWING PACKET.

FRAMED OPENINGS HAVE BEEN DESIGNED TO SUPPORT WIND LOAD NORMAL TO THE WALL BASED ON THE STANDARD BUILDING CODE CRITERIA. FRAMED OPENINGS HAVE NOT BEEN DESIGNED FOR ANY ADDITIONAL MOMENT OR CATENARY FORCES FROM THE DOOR. ANY CHANGE TO THE INFORMATION SHOWN HERE WILL REQUIRE AN ENGINEERING INVESTIGATION AND POSSIBLE BUILDING REINFORCEMENT.



08/28/2023

Electronic Filing: Received Clerk's Office 09/16/2026 10:09 AM PCB 2027

PROJECT NAME
MINNAERT

PCB 2027

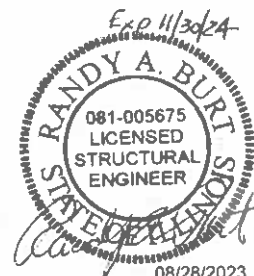
— **QUESTIONS**

08/14/2023
08/22/2023
SUNSHINE
ANCHOR RODS

MINNAERT
STRUCTURAL
BUILDINGS

PROJECT NAME
MINNAERT
GENESEO, IL 61254

AMERICAN EAGLE BUILDINGS, INC.

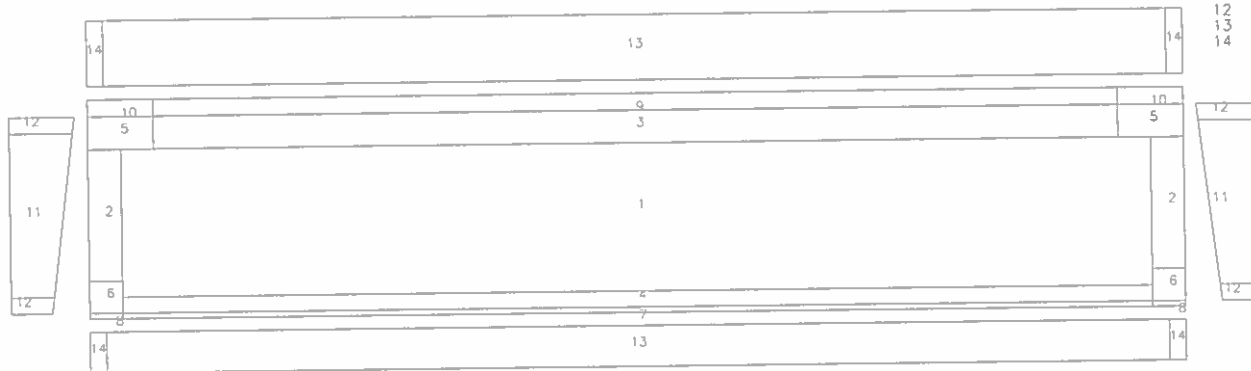


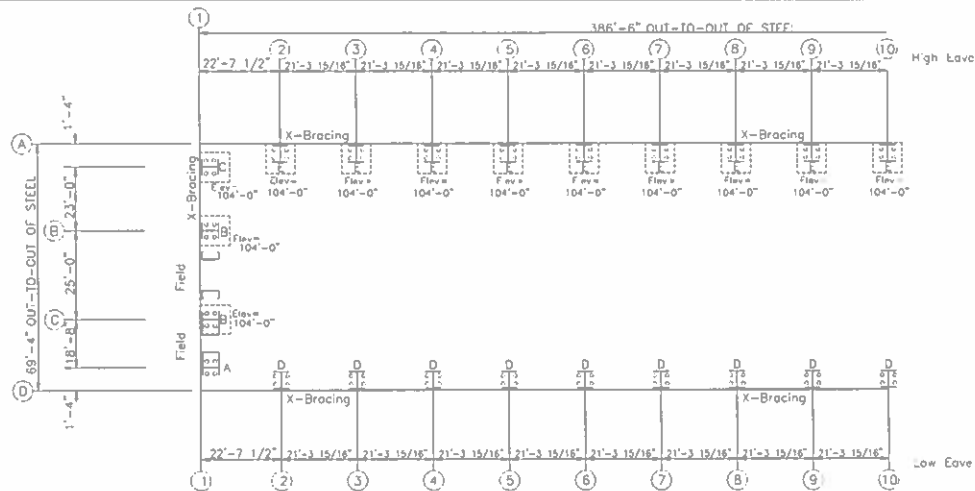
08/28/2023

Components & Cladding

Zone	Width (ft)	Length (ft)	Pressure(psf)		Suction(psf)	
			Member	Panel	Member	Panel
1			16.00	16.04	-31.13	-31.13
2		11.60	16.00	16.04	-38.60	-40.47
3	11.60		16.00	16.04	-38.60	-40.47
4	5.79		16.00	16.04	-33.00	-34.87
5	11.60	23.20	16.00	16.04	-40.47	-59.46
6	11.60		16.00	16.04	-33.00	-44.20
7	2.00	363.30	16.00	16.00	-28.30	-47.17
8	2.00	11.60	16.00	16.00	-30.00	-60.38
9	6.00	340.10	16.00	16.00	-26.06	-43.40
10	6.00	23.20	16.00	16.00	-29.97	-60.33
11			23.46	27.35	-25.16	-29.06
12	5.80		23.46	27.35	-26.42	-34.29
13			23.50	27.40	-25.20	-29.10
14	5.80		23.50	27.40	-26.46	-34.34

(+) wind towards surface
(-) wind away from surface





ANCHOR BOLT SUMMARY					
Qty	Locate	Dia (in)	Type	Proj (in)	
C 32	Endwall	3/4"	F1554	3.00	
C 136	Frame	3/4"	F1554	3.00	

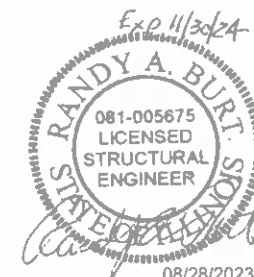
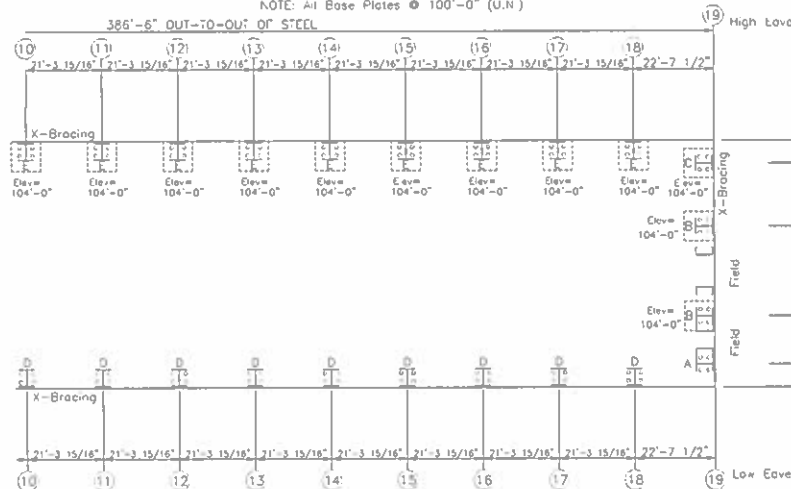
ANCHOR BOLT PLAN

GENERAL NOTES

1. THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
2. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
3. ANCHOR RODS, NUTS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AND CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY METAL BUILDING MANUFACTURER.
4. THE ANCHOR ROD LOCATIONS PROVIDED BY METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. IT IS THE RESPONSIBILITY OF THE FOUNDATION ENGINEER TO MAKE CERTAIN THAT SUFFICIENT EDGE DISTANCE IS PROVIDED FOR ALL ANCHOR RODS IN THE DETAILS OF THE FOUNDATION DESIGN.
5. DRAWINGS ARE NOT TO SCALE. SEE DETAILS FOR COLUMN ORIENTATION.
6. THE ANCHOR ROD PLAN INDICATES WHERE THE ANCHOR RODS ARE TO BE PLACED AS WELL AS THE FOOTPRINT OF THE METAL BUILDING. IT IS ESSENTIAL THAT THESE ANCHOR ROD PATTERNS BE FOLLOWED. IF THESE SETTINGS DIFFER FROM THE ARCHITECTURAL FOUNDATION PLANS, THE METAL BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY - BEFORE CONCRETE IS PLACED.
7. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.
8. ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF CONCRETE NOTCH IS REQUIRED THEN THE REQUIRED DIMENSION SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONCRETE DIMENSIONS.
9. FINISHED FLOOR ELEVATION = 100'-0" BOTTOM OF BASE PLATE = 100'-0" UNLESS NOTED OTHERWISE

ANCHOR BOLT PLAN

NOTE: All Base Plates @ 100'-0" (U.N.)



08/28/2023

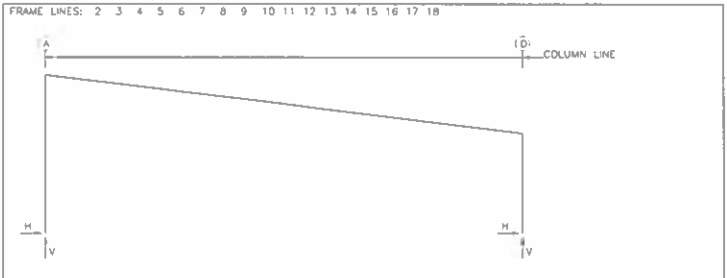
PROJECT NAME	MINNAERT	PROJECT NO.	08/14/2023
CITY/STATE	GENESEO, IL 61254	DATE	08/14/2023
CLIENT NAME	AMERICAN EAGLE BUILDINGS, INC.	ANCHOR RODS	ANCHOR RODS
DESIGNED BY	MINNAERT	ANCHOR RODS	ANCHOR RODS
CHECKED BY	MINNAERT	ANCHOR RODS	ANCHOR RODS
APPROVED BY	MINNAERT	ANCHOR RODS	ANCHOR RODS
DATE	08/28/2023	ANCHOR RODS	ANCHOR RODS

[illegible]

ACORN

PROJECT NAME
MINNAERT
GENESEQ, IL 61254
LAST ORDER NAME
AMERICAN EAGLE BUILDINGS, INC.
ANNAPAWAN, IL 61234
s Office 09/16/2026 **PCH

3 2027-015



RIGID FRAME		ANCHOR BOLTS & BASE PLATES					
Frame Line	Col Line	Anchor Bolt Qty	Bolt Dia	Base Plate Width	Base Plate Length	Base Plate Thick	Elev (m)
2*	A	4	0.750	8.000	12.88	0.500	48.0
2*	D	4	0.750	8.000	12.75	0.500	0.0

ENDWALL COLUMN:		ANCHOR BOLTS & BASE PLATES					
Frm Line	Col Line	Anc. Qty.	Bolt Dia	Base Width	Plate Length (in)	Thick	Elev. (in)
1	A	4	0.750	8.000	8.250	0.375	48.0
1	B	4	0.750	8.000	8.250	0.375	48.0
1	C	4	0.750	8.000	8.250	0.375	48.0
1	D	4	0.750	8.000	8.250	0.375	48.0
19	D	4	0.750	8.000	8.250	0.375	0.0
19	E	4	0.750	8.000	8.250	0.375	48.0
19	B	4	0.750	8.000	8.250	0.375	48.0

GENERAL NOTES

1. ALL LOADING CONDITIONS ARE EXAMINED. THE MAXIMUM AND MINIMUM HORIZONTAL (H) AND VERTICAL (V) REACTIONS AND THE CORRESPONDING VERTICAL (V) OR HORIZONTAL (H) REACTIONS ARE REPORTED.
2. REACTIONS ARE PROVIDED BY LOAD CASE IN ORDER TO AID THE FOUNDATION ENGINEER IN DETERMINING THE APPROPRIATE LOAD FACTORS TO BE USED WITH THEIR WORKING STRESS DESIGN OR THE ULTIMATE STRENGTH DESIGN METHODS. WIND LOAD CASES ARE GIVEN FOR EACH PRIMARY WIND DIRECTION.
3. FOR ASCE7-10 AND LATER BASED BUILDING CODES, THE UNFACTORED LOAD CASE REACTIONS DUE TO WIND ARE GENERATED USING THE ULTIMATE DESIGN WIND SPEED (V_{ult}).
4. POSITIVE (+) REACTIONS ARE AS SHOWN ABOVE. FOUNDATION LOADS ARE IN OPPOSITE DIRECTIONS.
5. BRACING REACTIONS ARE IN THE PLANE OF THE BRACE WITH THE HORIZONTAL REACTION (H) ACTING AWAY

```

***** RIGID FRAME LOAD CASE ABBREVIATIONS: *****
Wind_L1/Wind_R1: LATERAL WIND FROM THE LEFT/RIGHT, CASE 1
Wind_L2/Wind_R2: LATERAL WIND FROM THE LEFT/RIGHT, CASE 2
Wind_Ln1/Wind_Ln2: LONGITUDINAL WIND, CASE 1/2
Seismic_L/Seismic_R: LATERAL SEISMIC LOAD FROM LEFT/RIGHT
Windm_L/Ln1/Windm_R/Ln2: WIND-INDUCED WIND EDGE ZONES
FUBNG_SL_L/FUBNG_SL_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT
FPAI_LL_L/FPAI_LL_R: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

***** ENDWALL COLUMN LOAD CASE ABBREVIATIONS: *****
Collo1: COLLATERAL LOAD
Rafter Wind_L/Rafter Wind_R: LATERAL WIND FROM THE LEFT/RIGHT
Brace Wind_L/Brace Wind_R: LATERAL WIND FROM THE LEFT/RIGHT
Wind_P/Wind_S: LONGITUDINAL WIND PRESSURE/SUCTION ON COLUMNS
Windm_Ln: LONGITUDINAL WIND SUCTION ON ROOF
Windm_Ln1/Windm_Ln2: LATERAL SEISMIC LOAD FROM LEFT/RIGHT
FUBNG_SL_L/FUBNG_SL_R: UNBALANCED ROOF SNOW WITH WIND FROM LEFT/RIGHT
FPAI_LL_L/FPAI_LL_R: PARTIAL LIVE/SNOW LOADING FOR CONTINUOUS BEAM SYSTEMS

```

RIGID FRAME: BASIC COLUMN REACTIONS (K)																		
Frame	Column	---Dead---		---Colateral---		---Live---		---Snow---		---Wind_Left1---		---Wind_Right1---						
Line	Line	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert					
2*	A	2.6	4.3	1.3	1.9	7.8	12.7	8.0	11.6	-13.9	-19.5	-10.8	-19.4					
2*	D	-2.6	4.0	-1.3	1.8	-7.8	11.3	-8.0	11.1	5.2	-14.1	15.4	-22.1					
Frame	Column	---Wind_Left2---		---Wind_Right2---		---Wind_Long1---		---Wind_Long2---		---Seismic_Left---		---Seismic_Right---						
Line	Line	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert					
2*	A	-1.6	2.6	-1.8	-2.9	-9.1	-14.0	-13.7	-19.2	-0.4	-0.2	9.4	0.2					
2*	D	-4.1	3.9	9.7	-3.9	7.5	-15.1	17.0	-20.1	-0.5	0.2	0.5	-0.2					
Frame	Column	---MIN_SHOW---																
Line	Line	Horiz	Vert															
2*	A	10.5	15.3															
2*	D	-10.5	14.6															
2*	Frame Line:	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

ENDWALL COLUMN:		BASIC COLUMN REACTIONS (k)											
Frm Line	Col Line	Dead Vert	Collot Vert	Live Vert	Snow Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press Horz	Wind Suct Horz	Wind Long1 Vert	Wind Long2 Vert
1	A	0.9	0.4	4.1	2.5	-5.3	-4.0	-3.1	-2.7	-2.8	3.0	-2.1	-3.2
1	B	1.7	0.7	6.6	4.1	-6.2	-10.2	1.1	-2.8	-4.7	5.0	-6.9	-10.1
1	C	1.5	0.6	6.0	3.4	-5.4	-9.0	0.1	-2.5	-3.4	3.6	-6.1	-9.0
1	D	0.7	0.2	2.4	1.4	-2.4	-3.6	-0.1	-1.2	-1.7	1.9	-2.1	-3.0

From Line		Col	Sav Left	Sav Right	Min_SNOW	-EIPAT_SL_1	EIPAT_SL_2	EIPAT_SL_3	EIPAT_SL_4
Line		Col	Horz	Vert	Horz	Vert	Horz	Vert	Horz
1	A	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1
1	B	0.0	0.0	0.0	5.4	0.0	1.2	0.0	0.0
1	C	0.0	0.0	0.0	4.9	0.0	-0.2	0.0	0.0
1	D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

From Line		Col	EIPAT_LL_1	EIPAT_LL_2	EIPAT_LL_3	EIPAT_LL_4
Line		Col	Horz	Vert	Horz	Vert
1	A	0.0	2.3	0.0	-0.2	0.0
1	B	0.0	7.2	0.0	0.0	3.4
1	C	0.0	2.9	0.0	5.6	0.0
1	D	0.0	2.9	0.0	0.0	3.5
1	E	0.0	0.0	0.0	0.0	0.0

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind Left1 Vert	Wind Right1 Vert	Wind Left2 Vert	Wind Right2 Vert	Wind Press	Wind Suct	Wind Long1 Vert	Wind Long2 Vert
19 A	1	0.7	2.6	5.0	1.7	-2.4	-2.7	1.1	-1.2	1.9	1.1	-9.1	-9.1
19 C	1.5	0.6	6.0	3.4	-9.8	-6.3	-2.5	0.1	-3.4	3.6	-6.1	-9.0	-9.0
19 B	1.7	0.6	6.6	4.1	-10.2	-6.2	-2.8	1.1	-4.7	5.0	-6.9	-10.1	-10.1
19 A	0.9	0.4	4.1	2.5	-4.8	-5.3	-2.2	3.1	-2.8	3.0	-2.1	-3.2	-3.2

Firm	Col	Left	Right	-MIN	-SNOW	-E2PAT	-SL-1	E2PAT	-SL-2	E2PAT	-SL-3	E2PAT	-SL-4
Line	Line	Vert	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
19 C	0.0	0.0	0.0	0.0	1.9	0.0	0.7	0.0	0.0	0.0	0.5	0.0	-0.1
19 D	0.0	0.0	0.0	0.0	4.9	0.0	1.0	0.0	-0.2	0.0	2.0	0.0	0.9
19 B	0.0	0.0	0.0	0.0	5.4	0.0	-0.1	0.0	1.2	0.0	0.9	0.0	2.2
19 A	-0.1	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.8	0.0	-0.1	0.0	0.7

Firm	Col	E2PA1-LL-1-	E2PA1-LL-2-	E2PA1-LL-3-	E2PA1-LL-4-
Line	Line	Horz	Vert	Horz	Vert
19	D	0.0	1.7	0.0	-0.4
19	C	0.0	6.6	0.0	3.5
19	B	0.0	3.0	0.0	3.4
19	A	0.0	-0.2	0.0	-0.3

BUILDING BRACING REACTIONS									
Loc		Wall	Col	2 Reactions (k)				Panel Shear (lb/ft)	
Loc	Line			Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Wind	Seis
L_W	1	A,B		4.2	3.1	0.5	0.4		
F_SW	D	2.3		2.1	1.2	2.4	1.4		
		8.9		2.1	1.2	2.4	1.4		
		10.11		2.1	1.2	2.4	1.4		
R_W	19	B,A		4.2	3.1	0.5	0.4		
B_SW	A	11.10		2.1	1.2	2.4	1.4		
		9.8		3.6	2.9	2.6	2.1		
		3.2		3.6	2.9	2.6	2.1		

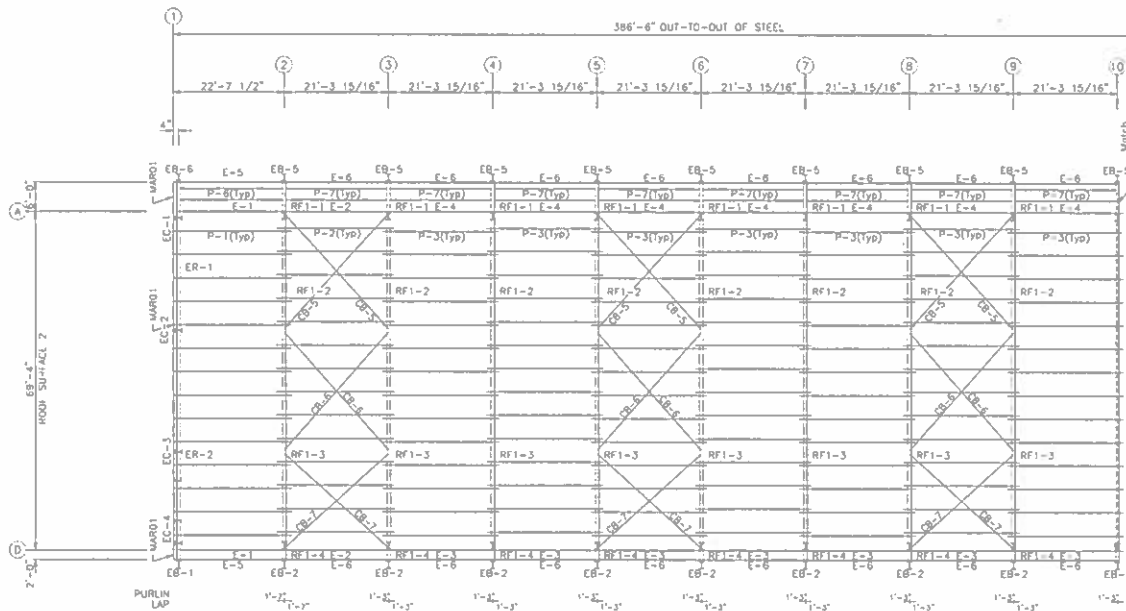
Exp 11/30/24

RANDY A. BURT
081-005675
LICENSED
STRUCTURAL
ENGINEER
STATE OF ALABAMA

08/28/2023

EXTENSION/CANOPY BOLTS				
ROOF PLAN				
MARK	QUAN	TYPE	DIA	LENGTH
EB-1	4	A325	1/2"	2"
EB-2	4	A325	1/2"	2"
EB-3	4	A325	1/2"	2"
EB-4	4	A325	1/2"	2"
EB-5	4	A325	5/8"	2 1/4"
EB-6	4	A325	1/2"	2"

MEMBER TABLE	
ROOF PLAN	
MARK	PART
EB-1	W8x10
EB-2	W8x10
EB-5	W8x18
EB-6	W8x10
P-1	08Z075
P-2	08Z075
P-3	08Z060
P-6	08Z060
P-7	08Z060
P-1	08Z075
P-2	08Z075
P-3	08Z060
P-6	08Z060
P-7	08Z060
RD05	RD05
RD05	RD05
RD05	RD05



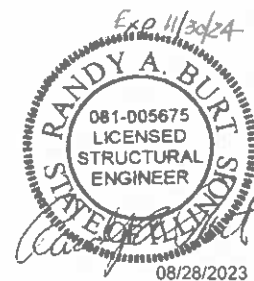
ROOF FRAMING PLAN

ROOF FRAMING PLAN

GENERAL NOTES

- PLACE TAGGED END OF RAFTERS TOWARDS THE LOW EAVE.
- STD. ROD/CABLE SIZES PER PART PREFIX ARE:

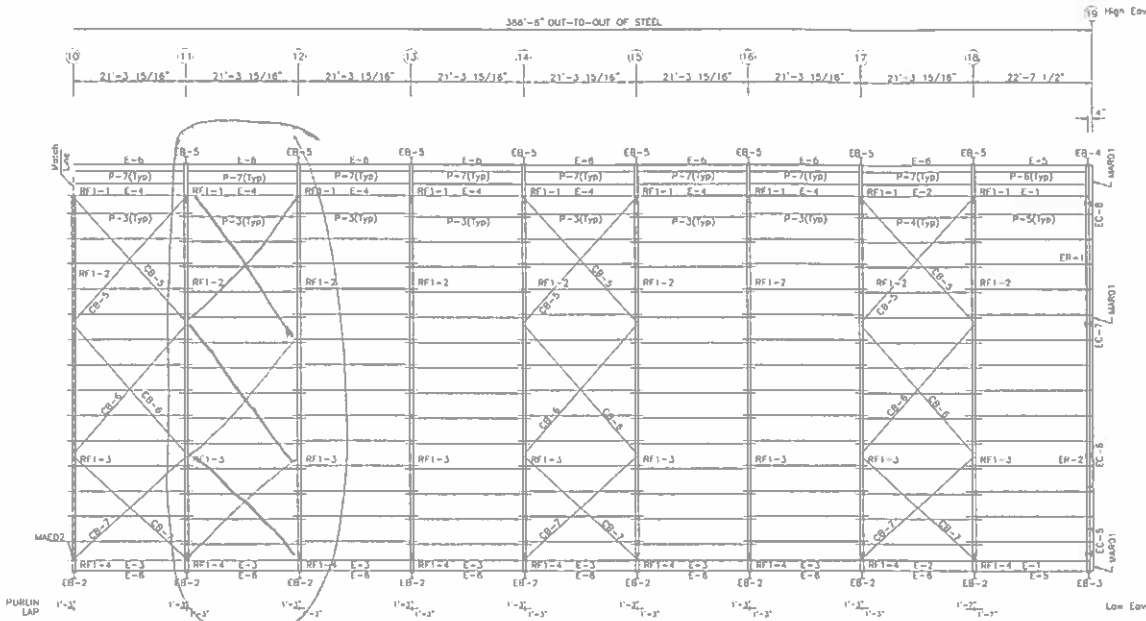
RD05 = 5/8" ROD	CA02 = 1/4" CABLE
RD06 = 3/4" ROD	CA03 = 3/8" CABLE
RD07 = 7/8" ROD	CA04 = 1/2" CABLE
RD08 = 1" ROD	
RD09 = 1 1/8" ROD	
RD10 = 1 1/4" ROD	
- PURLIN AND EAVE STRUT CONNECTIONS UTILIZE BOTH A307 AND A325 BOLTS. REFER TO THE DETAILS FOR SPECIFIC USAGE REQUIREMENTS.
- THIS DRAWING IS NOT TO SCALE.



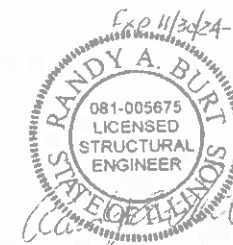
PROJECT NAME: MINNAERT
 CUSTOMER NAME: GENESIO, IL 61254
 PROJECT ADDRESS: 11111 N. WILSON AVE., CHICAGO, IL 60642
 PROJECT PHONE: (773) 334-1111
 PROJECT FAX: (773) 334-1111
 PROJECT EMAIL: minnaert@minnaert.com
 PROJECT WEBSITE: www.minnaert.com
 PROJECT DESCRIPTION: AMERICAN EAGLE CLOTHING STORE
 PROJECT DATE: 08/28/2023
 PROJECT STATUS: IN PROGRESS
 PROJECT LOCATION: CHICAGO, IL 60642
 PROJECT AREA: 10,000 SQ. FT.
 PROJECT VALUE: \$1,000,000
 PROJECT RISK: LOW
 PROJECT COMPLEXITY: MODERATE
 PROJECT SCHEDULE: 12 WEEKS
 PROJECT BUDGET: \$1,000,000
 PROJECT TEAM: MINNAERT
 PROJECT LEADER: RANDY A. BURT
 PROJECT CONTACT: RANDY A. BURT
 PROJECT PHONE: (773) 334-1111
 PROJECT FAX: (773) 334-1111
 PROJECT EMAIL: minnaert@minnaert.com
 PROJECT WEBSITE: www.minnaert.com

EXTENSION/CANOPY BOLTS				
MARK	QUAN	TYPE	DIA	LENGTH
EB-1	4	A325	1/2"	2"
EB-2	4	A325	1/2"	2"
EB-3	4	A325	1/2"	2"
EB-4	4	A325	1/2"	2"
EB-5	4	A325	5/8"	2 1/4"
EB-6	4	A325	1/2"	2"

MEMBER TABLE	
MARK	PART
EB-2	W8x10
EB-3	W8x10
EB-4	W8x10
EB-5	W8x18
P-3	082060
P-4	082075
P-5	082075
P-6	082060
P-7	082060
P-8	082075
P-9	082075
P-10	082060
P-11	082067
P-12	08C060
P-13	08C060
P-14	08C060
P-15	RD05-
P-16	RD05-
P-17	RD05-



Bracing installed in this bay rather than in 10-11 Bay



08/28/2023

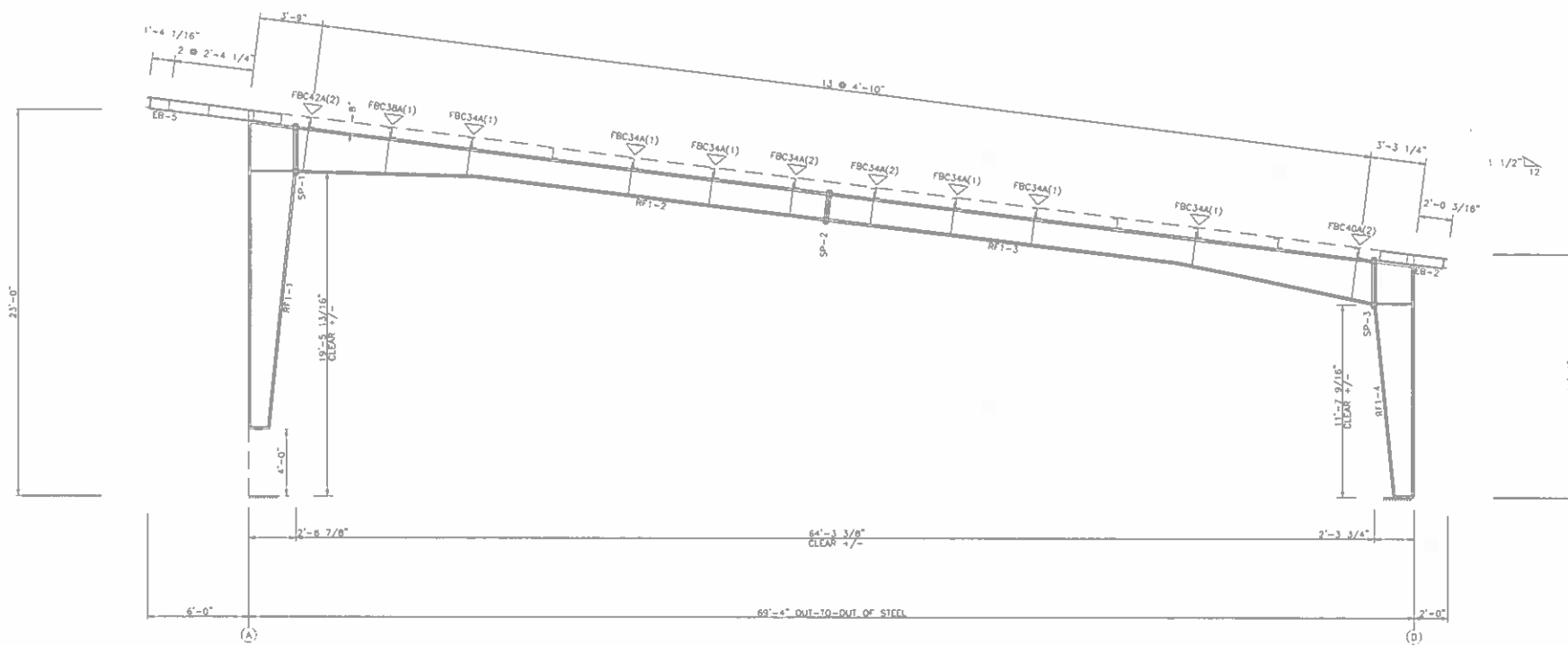
DATE	08/27/2023
TIME	1:00 PM
PROJECT NAME	MINNAERT GENESIO, IL 61254
CUSTOMER NAME	AMERICAN EAGLE BUILDINGS, INC.
PROJECT ADDRESS	ANNAPOLIS, IL 61234
SHEET TITLE	W23B0529A
SHEET	E2 OF 7

SPLICE PLATE & BOLT TABLE

Mark	Qty Top	Qty Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	1.000	3.25	8"	3/4"	3'-1 5/8"
SP-2	4	4	0	A325	1.000	3.25	8"	5/8"	2'-1 1/4"
SP-3	4	4	0	A325	1.000	3.25	8"	5/8"	3'-1 1/2"

MEMBER TABLE

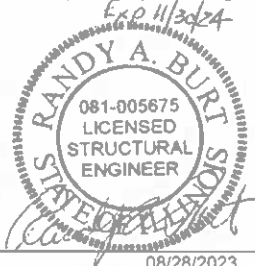
Mark	Web Depth		Web Thick	Plate Length	Outside Flange			Inside Flange		
	Start	End			W	Thk	Length	W	Thk	Length
RF1-1	12.0	32.0	0.250	181.5	8 x 3/8"		219.0	8 x 1/2"		182.6
RF1-2	32.0	32.0	0.275	37.5	8 x 3/8"		32.6	6 x 3/8"		128.1
	29.0	17.0	0.135	131.1	6 x 5/16"		382.4	6 x 1/4"		251.4
RF1-3	17.0	17.0	0.135	251.4	6 x 5/16"		251.4	6 x 1/4"		251.4
	17.0	29.0	0.135	143.7	6 x 1/4"		140.2	6 x 5/16"		144.2
RF1-4	27.0	27.0	0.220	33.3	8 x 5/16"		27.5	8 x 3/8"		135.9
	27.0	12.0	0.164	135.1	8 x 3/8"		165.1			
EB-2										
EB-5										



RIGID FRAME ELEVATION: FRAME LINE 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

GENERAL NOTES

1. ∇ INDICATES FLANGE BRACING LOCATIONS. (1) = ONE SIDE, (2) = TWO SIDES.
2. IF FLANGE BRACING IS REQUIRED ON BOTH SIDES OF AN EXPANDABLE RIGID FRAME, THE OPPOSITE SIDE FLANGE BRACES WILL HAVE TO BE INSTALLED AT THE TIME OF FUTURE EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.
3. RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACH FLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.
4. INTERIOR COLUMN METAL TAG IS ORIENTED TOWARD THE LOW EAVE OF THE BUILDING.

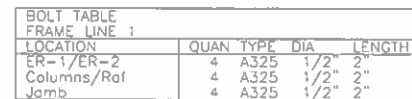


08/28/2023

MINNA
GENESE
AMERICAN EAGLE BUILDINGS, INC.
MINNA
GENESE
AMERICAN EAGLE BUILDINGS, INC.

PROJECT NAME
MINNA
GENESE
AMERICAN EAGLE BUILDINGS, INC.
MINNA
GENESE
AMERICAN EAGLE BUILDINGS, INC.

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF THE ENGINEER. THEY ARE TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. ANY REUSE OR MODIFICATION OF THESE PLANS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER IS PROHIBITED. THE ENGINEER ASSUMES NO LIABILITY FOR ANY DAMAGE OR INJURY RESULTING FROM THE USE OF THESE PLANS.



MEMBER TABLE	
FRAME LINE 1	
MARK	PART
EB-1	WBX10
EB-6	WBX10
EC-1	WBX10
EC-2	WBX10
EC-3	WBX10
EC-4	WBX10
ER-1	WBX18
EW-2	WBX18
QJ-1	F08C075
DJ-2	F08C075
DJ-3	F08C075
DH-1	F08C060
G-1	08Z105
G-2	08Z089
G-3	08Z099
G-4	08Z090
G-5	08Z120
G-6	08Z075
G-7	08Z060
CB-1	RD05-
CB-2	RD05-
JB-1	F08C060
JB-2	F08C060

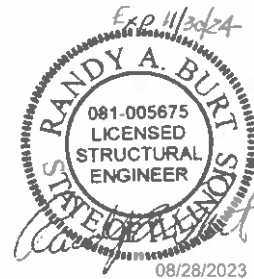
FLANGE BRACE TABLE			
FRAME LINE 1			
▽ ID	#	MARK	CLIP
1	1	FBC30	

ENDWALL FRAMING PLAN

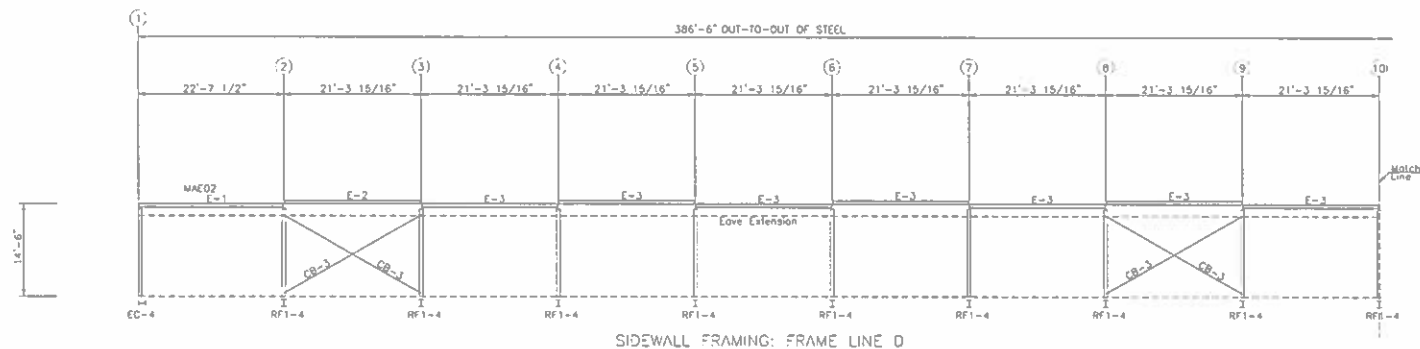
GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

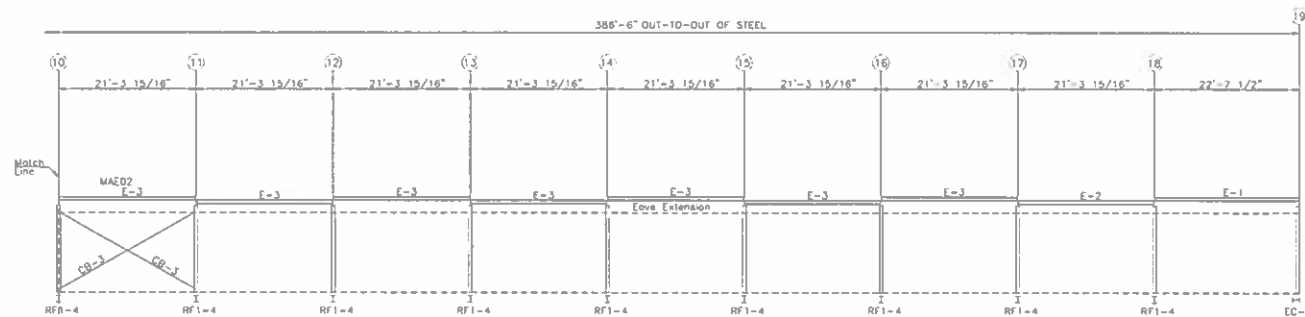
ROD	CABLE
RD03 ~ = 5/8" ROD	CA02 ~ = 1/4" CABLE
RD06 ~ = 3/4" ROD	CA03 ~ = 3/8" CABLE
RD07 ~ = 7/8" ROD	CA04 ~ = 1/2" CABLE
RD08 ~ = 1" ROD	
RD09 ~ = 1 1/8" ROD	
RD10 ~ = 1 1/4" ROD	
2. ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET BRACE CONDITION WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
4. FOR WALL PANEL, USE 0" START DIMENSION IF NO DRAW/FINISH DIMENSIONS ARE SHOWN.
5. THIS DRAWING IS NOT TO SCALE.



MEMBER TABLE	
FRAME LINE D	
MARK	PART
E-1	08Z075
E-2	08Z075
E-3	08Z060
CB-3	RD05-



SIDEWALL FRAMING: FRAME LINE 0



SIDEWALL FRAMING: FRAME LINE D

SIDEWALL FRAMING PLAN

GENERAL NOTES

1. STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD	CABLE
RD05-- = 5/8" ROD	CA02-- = 1/4" CABLE
RD06-- = 3/4" ROD	CA03-- = 3/8" CABLE
RD07-- = 7/8" ROD	CA04-- = 1/2" CABLE
RD08-- = 1" ROD	
RD09-- = 1 1/8" ROD	
RD10-- = 1 1/4" ROD	
2. ROD/CABLE SIZING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
3. FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
4. FOR WALL PANEL, USE 0" START DIMENSION IF NO START/FINISH DIMENSIONS ARE SHOWN.
5. THIS DRAWING IS NOT TO SCALE.

Exp 11/30/24

RANDY A. BURT
081-005675
LICENSED
STRUCTURAL
ENGINEER
STATE OF ILLINOIS

08/28/2023

08/28/2023

NUCOR
ROLLING SYSTEMS
200 INDUSTRIAL PARKWAY, NORTH, ON L4V 0J3
PHONE: (416) 837-7991 FAX: (416) 837-7984
PO BOX 1828, 200 SHEPPARD RD. SCARBOROUGH, ON M1B 4Y6
PHONE: (416) 298-7100 FAX: (416) 298-7111
600 SHEPPARD AVE. E. UNIT 100, SCARBOROUGH, ON M1B 4Y6
PHONE: (416) 298-7007 FAX: (416) 298-7018

PROJECT NAME MINNAERT
GENESEO, IL 61254
CUSTOMER NAME AMERICAN EAGLE BU

and the fact that the only way to get the most out of the system is to use the system. The system is designed to be used by the user, and the user is the only one who can make the most of it. The system is designed to be used by the user, and the user is the only one who can make the most of it.

PROJECT NAME	MINNAERT
PROJECT NO.	081-005675
DATE	08/22/2023
BY	JAN 1
CHECKED	JAN 1
DESIGNED	JAN 1
APPROVED	JAN 1
SCALE	AS SHOWN

MINNAERT
STRUCTURAL
ENGINEERING
INC.
1111 N. WILSON ST.
CHICAGO, IL 60642
(773) 344-1111
WWW.MINNAERT.COM

PROJECT NAME
MINNAERT
PROJECT NO.
081-005675
DATE
08/22/2023
BY
JAN 1
CHECKED
JAN 1
DESIGNED
JAN 1
APPROVED
JAN 1
SCALE
AS SHOWN

PROJECT NAME
MINNAERT
PROJECT NO.
081-005675
DATE
08/22/2023
BY
JAN 1
CHECKED
JAN 1
DESIGNED
JAN 1
APPROVED
JAN 1
SCALE
AS SHOWN

BOLT TABLE FRAME LINE 19			
LOCATION	QUAN	TYPE	DIA
ER-1/ER-2	4	A325	1/2"
Columns/Rail	4	A325	1/2"
Jamb	4	A325	1/2"

MEMBER TABLE FRAME LINE 19	
MARK	PART
EB-3	WBx10
EB-4	WBx10
EC-5	WBx10
EC-6	WBx10
EC-7	WBx10
EC-8	WBx10
ER-1	WBx18
ER-2	WBx18
DJ-1	F08C075
DJ-2	F08C075
DJ-3	F08C075
DH-1	F08C060
G-1	0BZ105
G-2	0BZ089
G-3	0BZ099
G-4	0BZ060
G-5	0BZ120
G-6	0BZ075
G-7	0BZ060
CB-1	RD05
CB-2	RD05
JB-1	F08C060
JB-3	F08C060

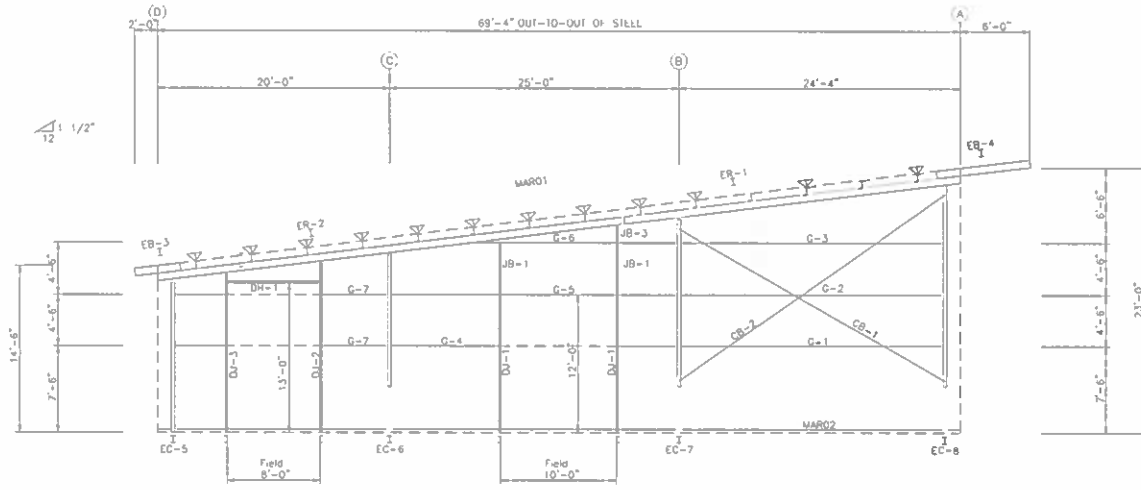
FLANGE BRACE TABLE FRAME LINE 19			
ID	SIDES	MARK	CLIP
1	1	FBC30	

ENDWALL FRAMING PLAN

GENERAL NOTES

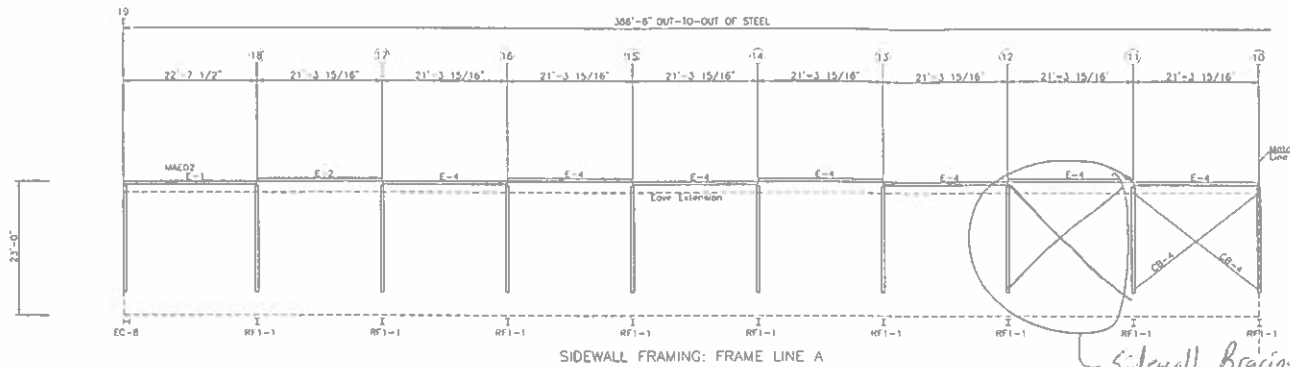
- STD. ROD/CABLE SIZES PER PART PREFIX ARE:
 ROD- = 5/8" ROD
 ROD5- = 3/4" ROD
 ROD6- = 7/8" ROD
 ROD7- = 1" ROD
 ROD8- = 1 1/8" ROD
 ROD9- = 1 1/4" ROD
 CABLE- = 1/4" CABLE
 CABLE2- = 3/8" CABLE
 CABLE3- = 1/2" CABLE
 CABLE4- = 3/4" CABLE
- ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING.
- FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING.
- FOR WALL PANEL, USE 0" START DIMENSION IF NO START/FINISH DIMENSIONS ARE SHOWN.
- THIS DRAWING IS NOT TO SCALE.

Ex 011/30/24
 RANDY A. BURT
 081-005675
 LICENSED
 STRUCTURAL
 ENGINEER
 STATE OF ILLINOIS
 08/28/2023

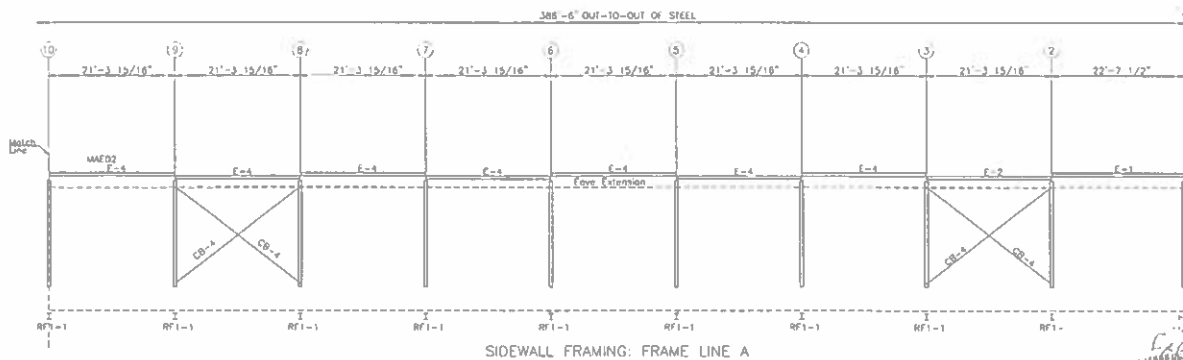


ENDWALL FRAMING: FRAME LINE 19

MEMBER TABLE	FRAM	LINE A
MARK	PART	
E-1	082075	
E-2	082075	
E-4	082067	
CB-4	RD05-	



Sidewall Bracing
Moved to this Per

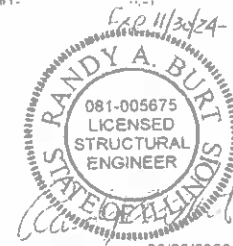


SIDEWALL FRAMING PLAN

GENERAL NOTES

- STD. ROD/CABLE SIZES PER PART PREFIX ARE:

ROD	CABLE
RD05- = 5/8" ROD	CA02- = 1/4" CABLE
RD06- = 3/4" ROD	CA03- = 3/8" CABLE
RD07- = 7/8" ROD	CA04- = 1/2" CABLE
RD08- = 1" ROD	
RD09- = 1 1/8" ROD	
RD10- = 1 1/4" ROD	
- ROD/CABLE BRACING THAT OCCURS IN FLUSH OR INSET GIRT CONDITIONS WILL REQUIRE FIELD SLOTTING OF GIRT WEBS TO ALLOW FOR BRACING
- FRAMED OPENINGS WHICH ARE FIELD LOCATED WILL REQUIRE FIELD CUTTING OF GIRTS AND SHEETING
- FOR WALL PANEL, USE 0" START DIMENSION IF NO START/FINISH DIMENSIONS ARE SHOWN
- THIS DRAWING IS NOT TO SCALE.



PROJECT NAME	MINNAERT	PROJECT NO.	08/11/2023
CLIENT NAME	GENESECO, IL 61254	DATE	08/22/2023
DESIGNER NAME	AMERICAN EAGLE BUILDINGS, INC.		
ANNAWAN, IL 61234			
JOB NUMBER	W23B0529A		
SHEET TITLE	E7 OF 7		