

# CITY OF BEAVERCREEK

## SALT BARN & NINE ACRES SITE IMPROVEMENTS

2260 DAYTON-XENIA ROAD

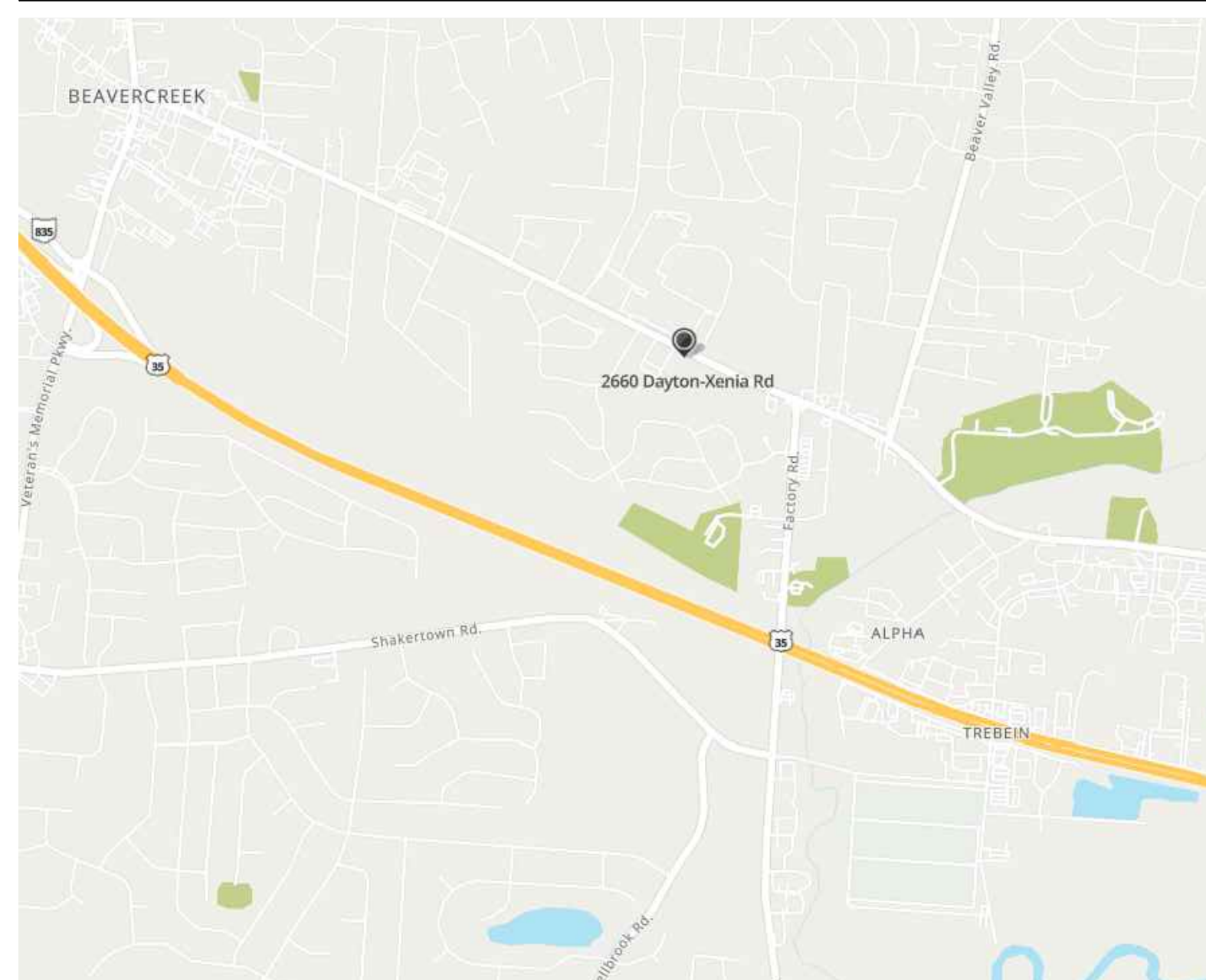
BEAVERCREEK, OHIO 45434

BID DOCUMENTS

10/05/2023



1 SITE LOCATION MAP  
NTS  
PROPOSED BUILDING



2 SITE VICINITY MAP  
NTS

### CODE INFORMATION

**CODE INFORMATION**  
 PROJECT DESCRIPTION: DEMOLITION OF EXISTING STRUCTURE AND CONSTRUCTION OF NEW PRE-ENGINEERED METAL SALT STORAGE BUILDING, A BRINE STORAGE BUILDING AND AN EQUIPMENT STORAGE SHED  
 PROJECT TYPE: NEW CONSTRUCTION  
 BUILDING USE GROUP: LOW HAZARD STORAGE (S-2)  
 CONSTRUCTION TYPE: TYPE 2-B  
 GROSS AREA:  
 SALT STORAGE BUILDING (INCLUDING BRINE BUILDING) TOTAL SQ. FT. = 13,300 SF  
 SALT STORAGE BUILDING LEAN TO (ALTERNATE 1) TOTAL SQ. FT. = 1,400 SF  
 STORAGE SHED TOTAL SQ. FT. = 400 SF  
 TOTAL BUILDING SQ. FT. = 15,100 SF  
 NUMBER OF EXITS: ONE(1) PER STRUCTURE  
 OCCUPANT LOAD: 2 PERSONS  
 FIRE PROTECTION:  
 FIRE SUPPRESSOR = N/A  
 FIRE ALARM = N/A

### SHEET INDEX

(G) GENERAL	
GO.1	COVER SHEET
(C) CIVIL	
C100	EXISTING CONDITIONS
C200	DEMOLITION PLAN
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C400	UTILITY PLAN
C500	GRADING PLAN
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C601	DETAILS
C700	SWPPP
C701	SWPPP DETAILS
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E2.1	ELECTRICAL SITE PLAN
E3.1	ELECTRICAL PLANS

CERTIFIED BY:  
  
 CHRISTOPHER MOYNIHAN  
 LICENSE #E-67075  
 EXPIRATION DATE: 12/31/2023

CERTIFIED BY:



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & NINE ACRES SITE**  
**IMPROVEMENTS**  
 2260 DAYTON-XENIA ROAD  
 BEAVERCREEK, OHIO 45434

ISSUANCES/REVISIONS

ISSUANCES/REVISIONS	ISSUANCES/REVISIONS
ISSUANCES/REVISIONS	ISSUANCES/REVISIONS

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
23061.00	JCR	MCM

SHEET TITLE:  
**COVER SHEET**

SHEET NUMBER:  
**GO.1**



ARCHITECTS  
 MECHANICAL, ELECTRICAL, & PLUMBING ENGINEERS  
 LANDSCAPE ARCHITECTS  
 TECHNOLOGY DESIGNERS  
 INTERIOR DESIGNERS

**GARMANN MILLER**

38 SOUTH LINCOLN DRIVE  
 PO BOX 71 MINSTER, OHIO 45865  
 419.628.4240

555 METRO PLACE NORTH  
 SUITE 320 DUBLIN, OHIO 43017  
 614.502.4240

2 WEST MAIN STREET  
 CARMEL, INDIANA 46032  
 317.343.9343

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**LEGEND**

--- 1030 ---	- Existing Contour Major	○	- Post
--- 1020 ---	- Existing Contour Minor	⊠	- Traffic Control Cabinet
--- 1029 ---	- Proposed Contour Major	⊞	- Traffic Pulbox
--- 1029 ---	- Proposed Contour Minor	⊞	- Signal Pedestal
---	- Existing Storm Sewer	⊞	- Unknown Pulbox
---	- Existing Communications	⊞	- Flag Pole
---	- Existing Underground Electric	⊞	- Signs
---	- Existing Gas	⊞	- Project Control
---	- Existing Sanitary Sewer	⊞	- Deciduous Tree
---	- Existing Water	⊞	- Evergreen Tree
---	- Proposed Storm Sewer	⊞	- Telephone Manhole
---	- Proposed Communications	⊞	- Telephone Pedestal
---	- Proposed Underground Electric	⊞	- Unknown Valve
---	- Proposed Gas	⊞	- Electric Manhole
---	- Proposed Sanitary Sewer	⊞	- Power Pole
---	- Proposed Water	⊞	- Light Pole
x	- Fence	⊞	- Power & Light Pole
⊞	- Storm Manhole	⊞	- Blank Pole
■	- Catch Basins	⊞	- Guy Anchor
■	- Curb Inlet	⊞	- Gas Valve
●	- Drywell	⊞	- Gas Shutoff Valve
⊞	- Sanitary Manhole	⊞	- Gas Regulator
●	- Cleanout		
⊞	- Water Manhole		
⊞	- Water Valve		
⊞	- Water Meter		
⊞	- Fire Hydrant		
⊞	- Water Shutoff Valve		

NEW BUILDING FOR

# CITY OF BEAVERCREEK

## SALT BARN & 9-ACRE PROPERTY SITE IMPROVEMENTS

2300 DAYTON XENIA ROAD  
BEAVERCREEK, OHIO 45324

ISSUANCES/REVISIONS	
BID DOCUMENTS	10/05/2023
PROJECT NUMBER:	21062.00
DRAWN BY:	CHECKED BY:
SHEET TITLE:	
EXISTING CONDITIONS	
SHEET NUMBER:	
C100	

GRAPHIC SCALE: 1"=30'



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE IMPROVEMENTS**  
 2300 DAYTON XENIA ROAD  
 BEAVERCREEK, OHIO 45324

ISSUANCES/REVISIONS	
BID DOCUMENTS	10/05/2023
PROJECT NUMBER:	21062.00
DRAWN BY:	CHECKED BY:
SHEET TITLE:	
EXISTING CONDITIONS	
SHEET NUMBER:	
C100	

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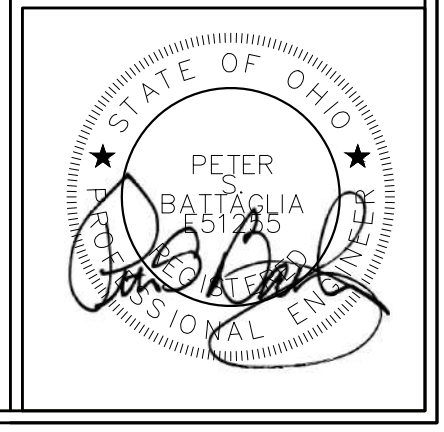
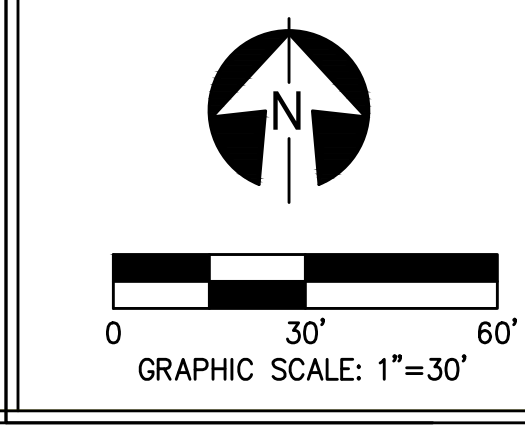
**LEGEND**

--- 1030 ---	- Existing Contour Major	○	- Post
--- 1029 ---	- Existing Contour Minor	⊠	- Traffic Control Cabinet
---	- Proposed Contour Major	⊞	- Traffic Pulbox
---	- Proposed Contour Minor	⊞	- Signal Pedestal
---	- Existing Storm Sewer	⊞	- Unknown Pulbox
---	- Existing Communications	⊞	- Flag Pole
---	- Existing Underground Electric	⊞	- Signs
---	- Existing Gas	⊞	- Project Control
---	- Existing Sanitary Sewer	⊞	- Deciduous Tree
---	- Existing Water	⊞	- Evergreen Tree
---	- Proposed Storm Sewer	⊞	- Telephone Manhole
---	- Proposed Communications	⊞	- Telephone Pedestal
---	- Proposed Underground Electric	⊞	- Unknown Valve
---	- Proposed Gas	⊞	- Electric Manhole
---	- Proposed Sanitary Sewer	⊞	- Power Pole
---	- Proposed Water	⊞	- Light Pole
x	- Fence	⊞	- Power & Light Pole
⊞	- Storm Manhole	⊞	- Blank Pole
■	- Catch Basins	⊞	- Light Pole
■	- Curb Inlet	⊞	- Power & Light Pole
●	- Drywell	⊞	- Blank Pole
⊞	- Sanitary Manhole	⊞	- Guy Anchor
●	- Cleanout	⊞	- Gas Valve
⊞	- Water Manhole	⊞	- Gas Shutoff Valve
⊞	- Water Valve	⊞	- Gas Regulator
⊞	- Water Meter		
⊞	- Fire Hydrant		
⊞	- Water Shutoff Valve		
⊞	- Existing Pavement to be removed		
---	- Sawcut Existing Pavement		

**KEYNOTE DESCRIPTION**

1	EXISTING STRUCTURE TO BE REMOVED
2	EXISTING ELECTRIC UTILITY TO BE REMOVED
3	EXISTING WATER LINE TO BE REMOVED
4	EXISTING FENCE TO BE REMOVED
5	CONCRETE PAD TO BE REMOVED
6	EXISTING LIGHT POLE TO BE REMOVED
7	EXISTING WATER LINE TO BE PROTECTED
8	EXISTING STORM SEWER TO BE REMOVED BEYOND THIS POINT
9	EXISTING CATCH BASIN TO BE REMOVED
10	SIGN TO BE REMOVED
11	CONCRETE CMU BLOCK TO BE REMOVED AND STORED
12	EXISTING STORM LINE TO BE CAPPED AND ABANDONED IN PLACE
13	ALL EQUIPMENT AND STOCK ITEMS TO BE REMOVED BY THE CITY PRIOR TO THE START OF CONSTRUCTION

NOTE: SAW CUT FROM THE EDGE OF PAVEMENT INTO EXISTING PAVEMENT ALONG THE LENGTH OF THE PROPOSED ENTRANCE A MINIMUM OF 1 FOOT TO ENSURE SOUND FULL DEPTH JOINT.



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 2380 DAYTON XENA ROAD  
 BEAVERCREEK, OHIO 43084

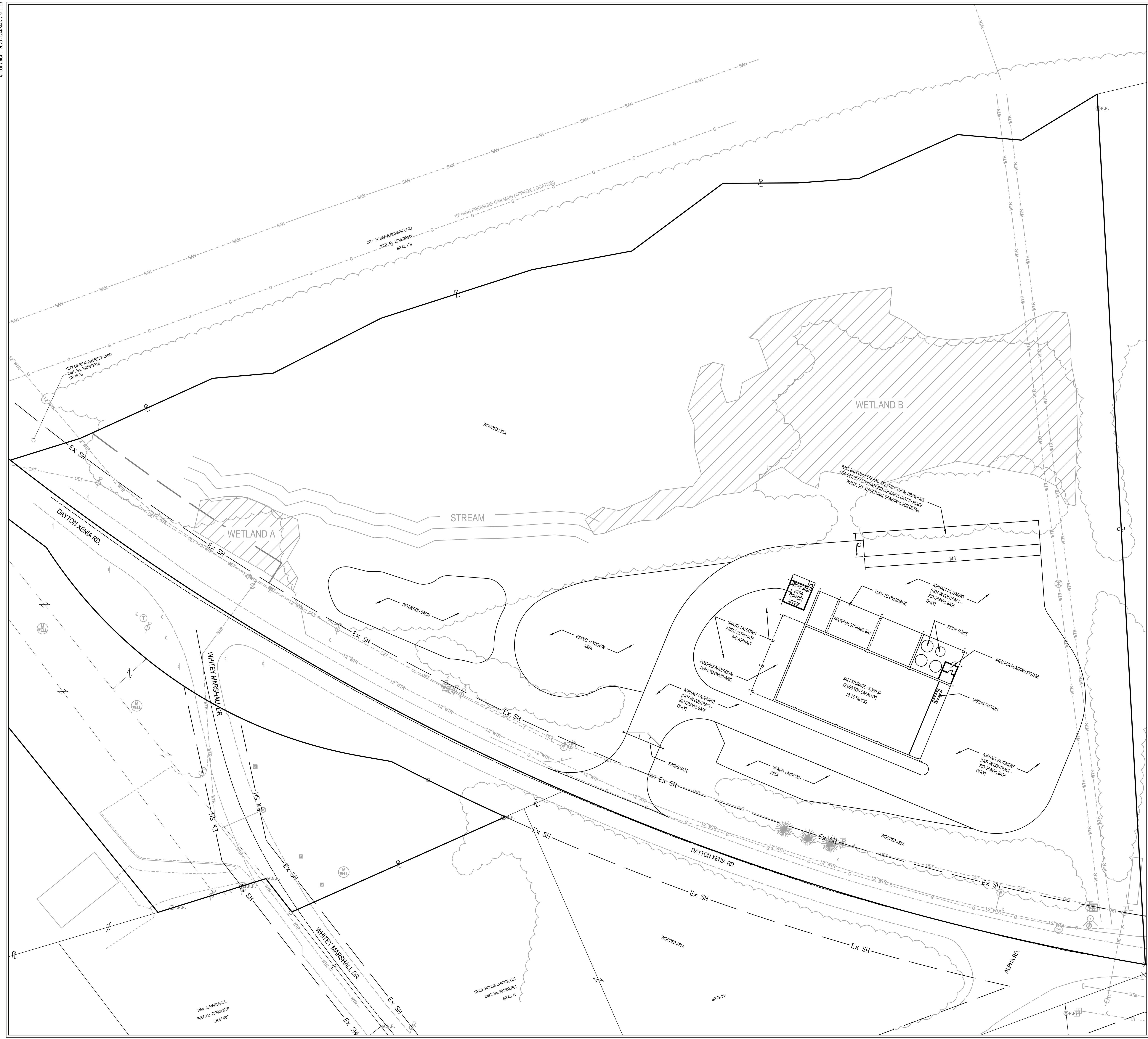
ISSUANCES/REVISIONS	
BID DOCUMENTS	10/05/2023

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21062.00		

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DEMOLITION PLAN

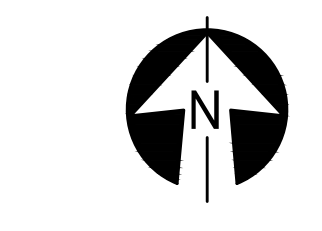
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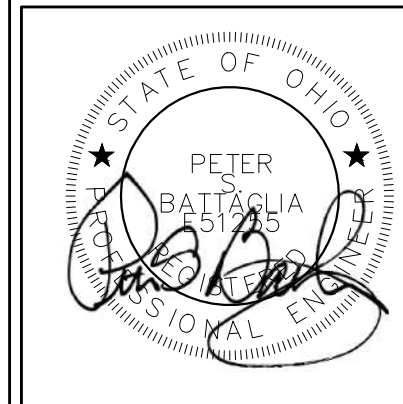


**LEGEND**

--- 1030 ---	- Existing Contour Major	○	- Post
--- 1020 ---	- Existing Contour Minor	⊠	- Traffic Control Cabinet
---	- Proposed Contour Major	⊞	- Flag Pullbox
---	- Proposed Contour Minor	⊞	- Signal Pedestal
---	- Existing Storm Sewer	⊞	- Unknown Pullbox
---	- Existing Communications	⊞	- Flag Pole
---	- Existing Underground Electric	⊞	- Signs
---	- Existing Gas	⊞	- Project Control
---	- Existing Sanitary Sewer	⊞	- Deciduous Tree
---	- Existing Water	⊞	- Evergreen Tree
---	- Proposed Storm Sewer	⊞	- Telephone Manhole
---	- Proposed Communications	⊞	- Telephone Pedestal
---	- Proposed Underground Electric	⊞	- Unknown Valve
---	- Proposed Gas	⊞	- Electric Manhole
---	- Proposed Sanitary Sewer	⊞	- Power Pole
---	- Proposed Water	⊞	- Light Pole
x	- Fence	⊞	- Power & Light Pole
⊞	- Storm Manhole	⊞	- Blank Pole
■	- Catch Basins	⊞	- Guy Anchor
■	- Curb Inlet	⊞	- Gas Valve
●	- Drywell	⊞	- Gas Shutoff Valve
⊞	- Sanitary Manhole	⊞	- Gas Regulator
●	- Cleanout		
⊞	- Water Manhole		
⊞	- Water Valve		
⊞	- Water Meter		
⊞	- Fire Hydrant		
⊞	- Water Shutoff Valve		



GRAPHIC SCALE: 1"=30'





**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**

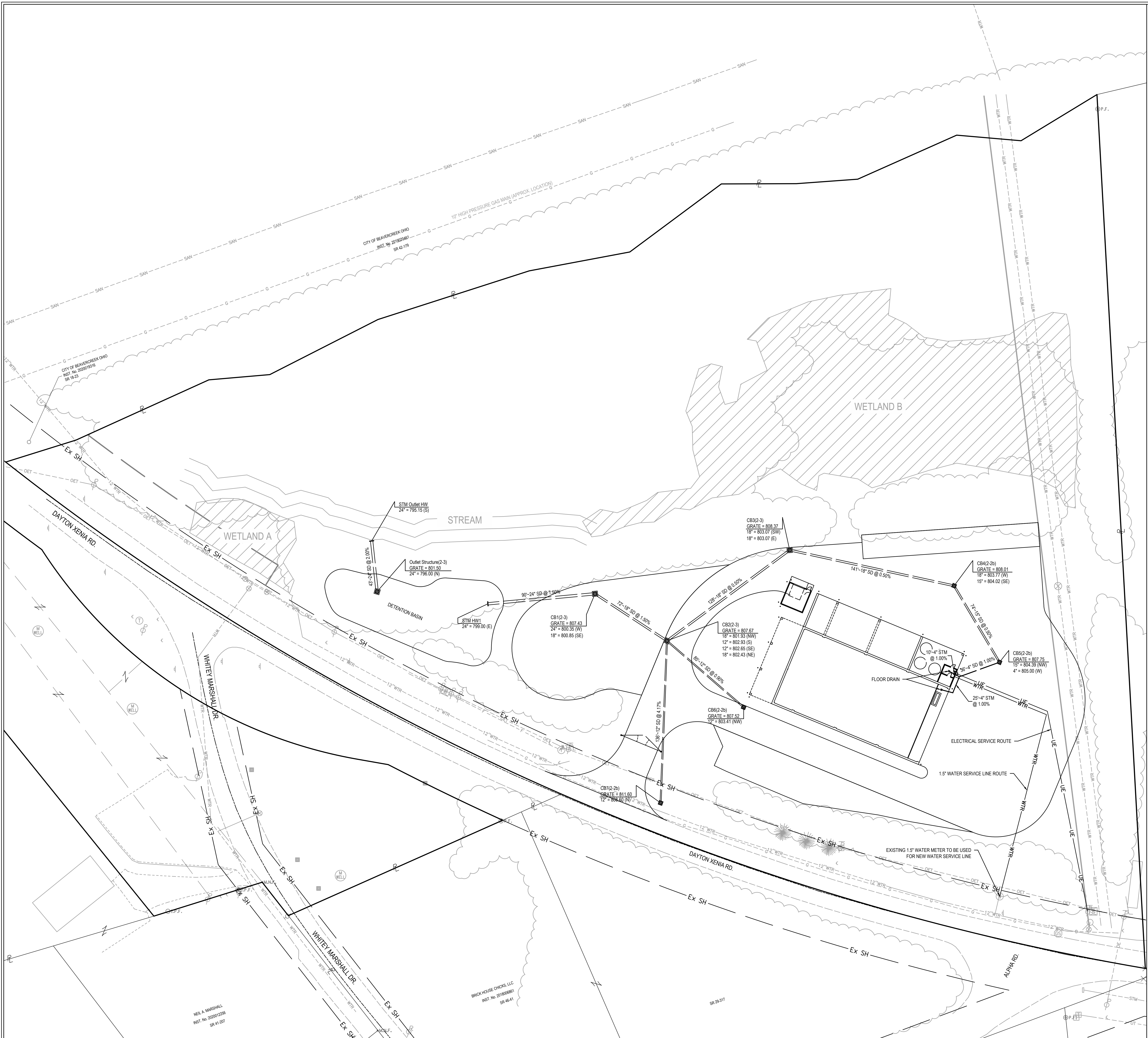
ISSUANCES/REVISIONS	
BID DOCUMENTS	10/05/2023

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
21062.00		

SHEET TITLE:  
**SITE PLAN**

SHEET NUMBER:  
**C300**

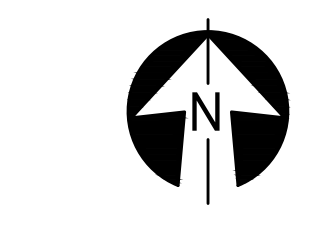
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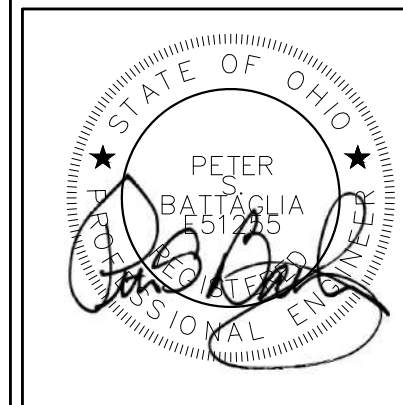
LEGEND			
--- 1030 ---	- Existing Contour Major	○	- Post
--- 1020 ---	- Existing Contour Minor	⊠	- Traffic Control Cabinet
---	- Proposed Contour Major	⊠	- Traffic Pulbox
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---	- Proposed Underground Electric	⊠	- Unknown Valve
---	- Proposed Gas	⊠	- Electric Manhole
---	- Proposed Sanitary Sewer	⊠	- Power Pole
---	- Proposed Water	⊠	- Light Pole
x	- Fence	⊠	- Power & Light Pole
⊠	- Storm Manhole	⊠	- Blank Pole
■	- Catch Basins	⊠	- Guy Anchor
■	- Curb Inlet	⊠	- Gas Valve
●	- Drywell	⊠	- Gas Shutoff Valve
⊠	- Sanitary Manhole	⊠	- Gas Regulator
●	- Cleanout		
⊠	- Water Manhole		
⊠	- Water Valve		
⊠	- Water Meter		
⊠	- Fire Hydrant		
⊠	- Water Shutoff Valve		

STORMWATER NOTES

STORM BASIN DETAILS:  
 DRAINAGE AREA: 2.35 ACRES  
 SEDIMENT SETTLING VOLUME: 1,987 CU FT



GRAPHIC SCALE: 1"=30'





NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 BEAVERCREEK, OHIO 43004  
 2300 DAYTON XENIA ROAD

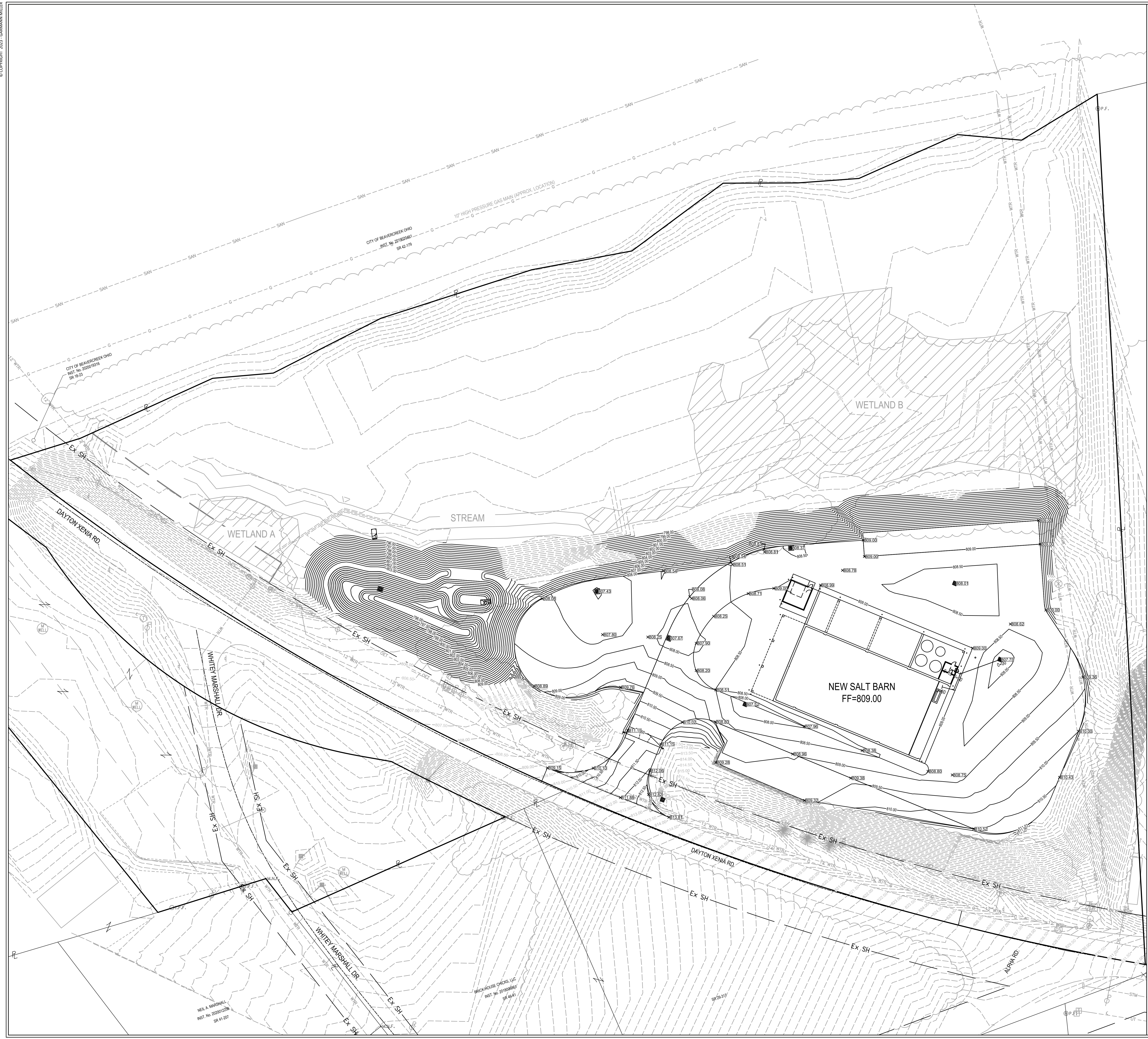
ISSUANCES/REVISIONS	
BD DOCUMENTS	10/05/2023

PROJECT NUMBER: 21062.00	DRAWN BY:	CHECKED BY:
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SHEET TITLE:  
**UTILITY PLAN**

SHEET NUMBER:  
**C400**

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NEIL A. MARSHALL  
REG. NO. 2020012288  
SR 41-207  
BROOKHOUSE CIVICS, LLC  
REG. NO. 2019066647  
SR 46-41  
CITY OF BEAVERCREEK OHIO  
REG. NO. 2020010018  
SR 18-23  
CITY OF BEAVERCREEK OHIO  
REG. NO. 2019020461  
SR 42-179  
10" HIGH PRESSURE GAS MAIN (APPROX. LOCATION)



LEGEND	
1030	Existing Contour Major
1020	Existing Contour Minor
1030	Proposed Contour Major
1020	Proposed Contour Minor
STW	Existing Storm Sewer
UT	Existing Communications
UE	Existing Underground Electric
G	Existing Gas
SAN	Existing Sanitary Sewer
WTR	Existing Water
WTR	Proposed Storm Sewer
UT	Proposed Communications
UE	Proposed Underground Electric
G	Proposed Gas
WTR	Proposed Sanitary Sewer
WTR	Proposed Water
x	Fence
⊙	Storm Manhole
■	Catch Basins
■	Curb Inlet
●	Drywell
●	Cleanout
⊙	Sanitary Manhole
●	Water Manhole
⊙	Water Valve
⊙	Water Meter
⊙	Fire Hydrant
⊙	Water Shutoff Valve
○	Post
⊠	Traffic Control Cabinet
⊠	Traffic Pulbox
⊠	Signal Pedestal
⊠	Unknown Pulbox
⊠	Flag Pole
⊠	Signs
⊠	Project Control
⊠	Deciduous Tree
⊠	Evergreen Tree
⊠	Telephone Manhole
⊠	Telephone Pedestal
⊠	Unknown Valve
⊠	Electric Manhole
⊠	Power Pole
⊠	Light Pole
⊠	Power & Light Pole
⊠	Blank Pole
⊠	Guy Anchor
⊠	Gas Valve
⊠	Gas Shutoff Valve
⊠	Gas Regulator

NEW BUILDING FOR

# CITY OF BEAVERCREEK

## SALT BARN & 9-ACRE PROPERTY SITE IMPROVEMENTS

BEAVERCREEK, OHIO 45334  
2300 DAYTON XENIA ROAD

ISSUANCES/REVISIONS	
BID DOCUMENTS	10/05/2023

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
21062.00		

SHEET TITLE:  
**GRADING PLAN**

SHEET NUMBER:  
**C500**

GRAPHIC SCALE: 1"=30'

**GARMANN MILLER**  
MINSTER, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA  
cre@gm.com

NEW BUILDING FOR

# CITY OF BEAVERCREEK

## SALT BARN & 9-ACRE PROPERTY SITE IMPROVEMENTS

BEAVERCREEK, OHIO 45334  
2300 DAYTON XENIA ROAD

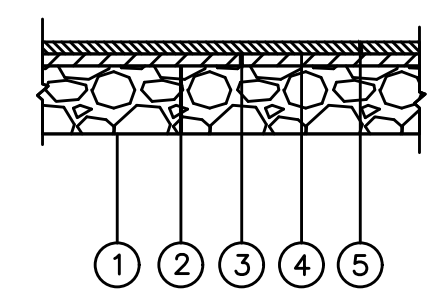
ISSUANCES/REVISIONS	
BID DOCUMENTS	10/05/2023

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21062.00		

SHEET TITLE:  
**GRADING PLAN**

SHEET NUMBER:  
**C500**

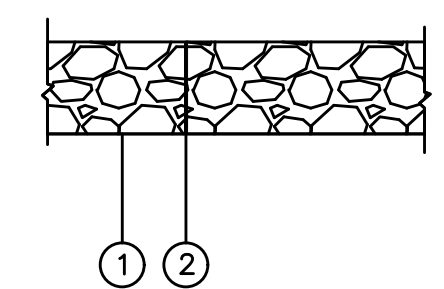
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- ① ITEM 203 ~ SUBGRADE COMPACTION - 8" MINIMUM
- ② ITEM 304 ~ AGGREGATE BASE, 10" COURSE
- ③ ITEM 402 ~ ASPHALTIC CONCRETE, 3" INTERMEDIATE COURSE
- ④ ITEM 407 ~ TACK COAT, ASPHALT RC-2, RATE 0.05 TO 0.25 GAL./S.Y.
- ⑤ ITEM 404 ~ ASPHALTIC CONCRETE, 1.5" SURFACE COURSE

NOTE:  
 1. ALL ITEM NUMBERS REFER TO STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIALS SPECIFICATIONS, JANUARY 2023 EDITION OR LATEST REVISION THEREOF.

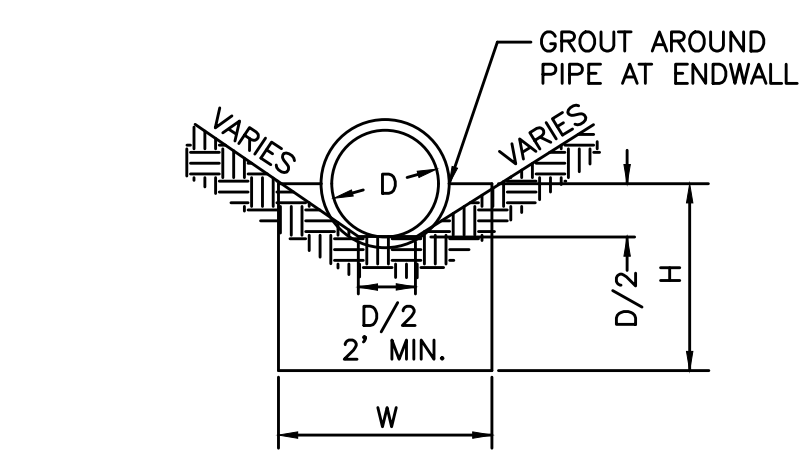
PAVEMENT SECTION  
 NOT TO SCALE



- ① ITEM 203 ~ SUBGRADE COMPACTION - 8" MINIMUM
- ② ITEM 304 ~ AGGREGATE BASE, 8" COURSE

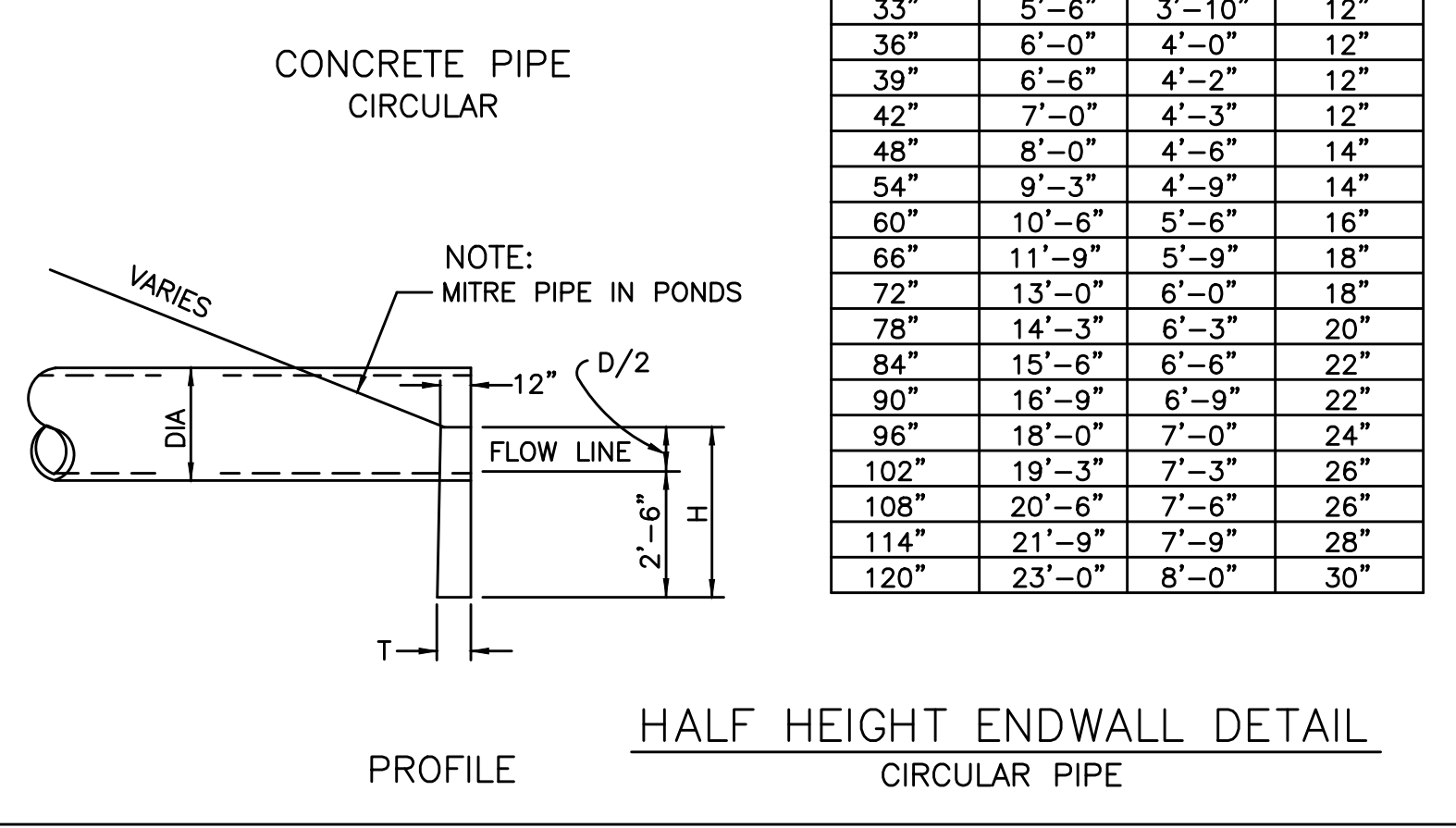
NOTE:  
 1. ALL ITEM NUMBERS REFER TO STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIALS SPECIFICATIONS, JANUARY 2023 EDITION OR LATEST REVISION THEREOF.

GRAVEL LAYDOWN AREA SECTION  
 NOT TO SCALE

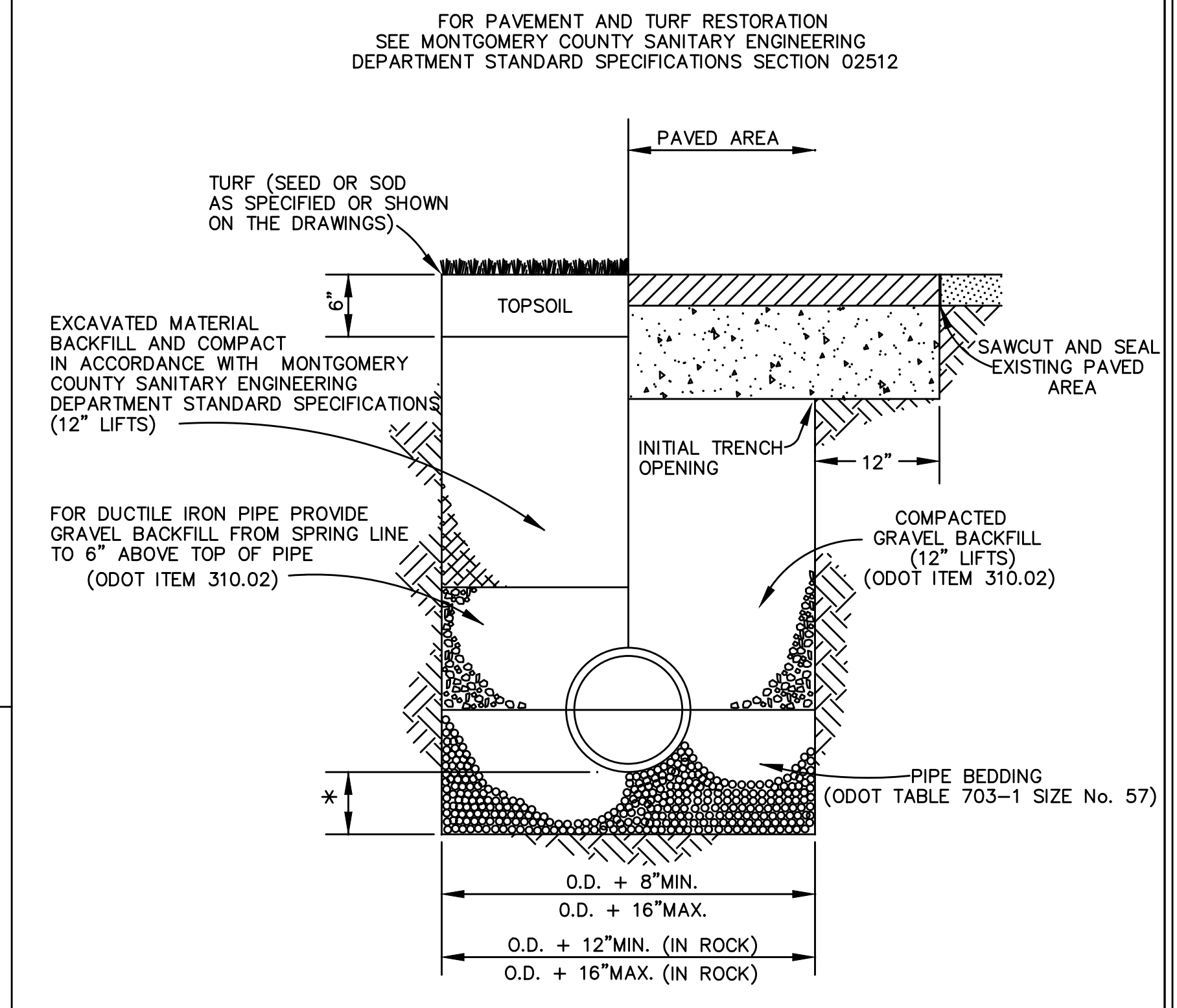


NOTE: REINFORCING STEEL SHALL BE 5/8" ROUND. MINIMUM COVER FOR ALL BARS SHALL BE 2" UNLESS OTHERWISE NOTED

D	W	H	T
12"	2'-0"	3'-0"	12"
15"	2'-6"	3'-2"	12"
18"	3'-0"	3'-3"	12"
21"	3'-6"	3'-4"	12"
24"	4'-0"	3'-6"	12"
27"	4'-6"	3'-8"	12"
30"	5'-0"	3'-9"	12"
33"	5'-6"	3'-10"	12"
36"	6'-0"	4'-0"	12"
39"	6'-6"	4'-2"	12"
42"	7'-0"	4'-3"	12"
48"	8'-0"	4'-6"	14"
54"	9'-3"	4'-9"	14"
60"	10'-6"	5'-6"	16"
66"	11'-9"	5'-9"	18"
72"	13'-0"	6'-0"	18"
78"	14'-3"	6'-3"	20"
84"	15'-6"	6'-6"	22"
90"	16'-9"	6'-9"	22"
96"	18'-0"	7'-0"	24"
102"	19'-3"	7'-3"	26"
108"	20'-6"	7'-6"	26"
114"	21'-9"	7'-9"	28"
120"	23'-0"	8'-0"	30"

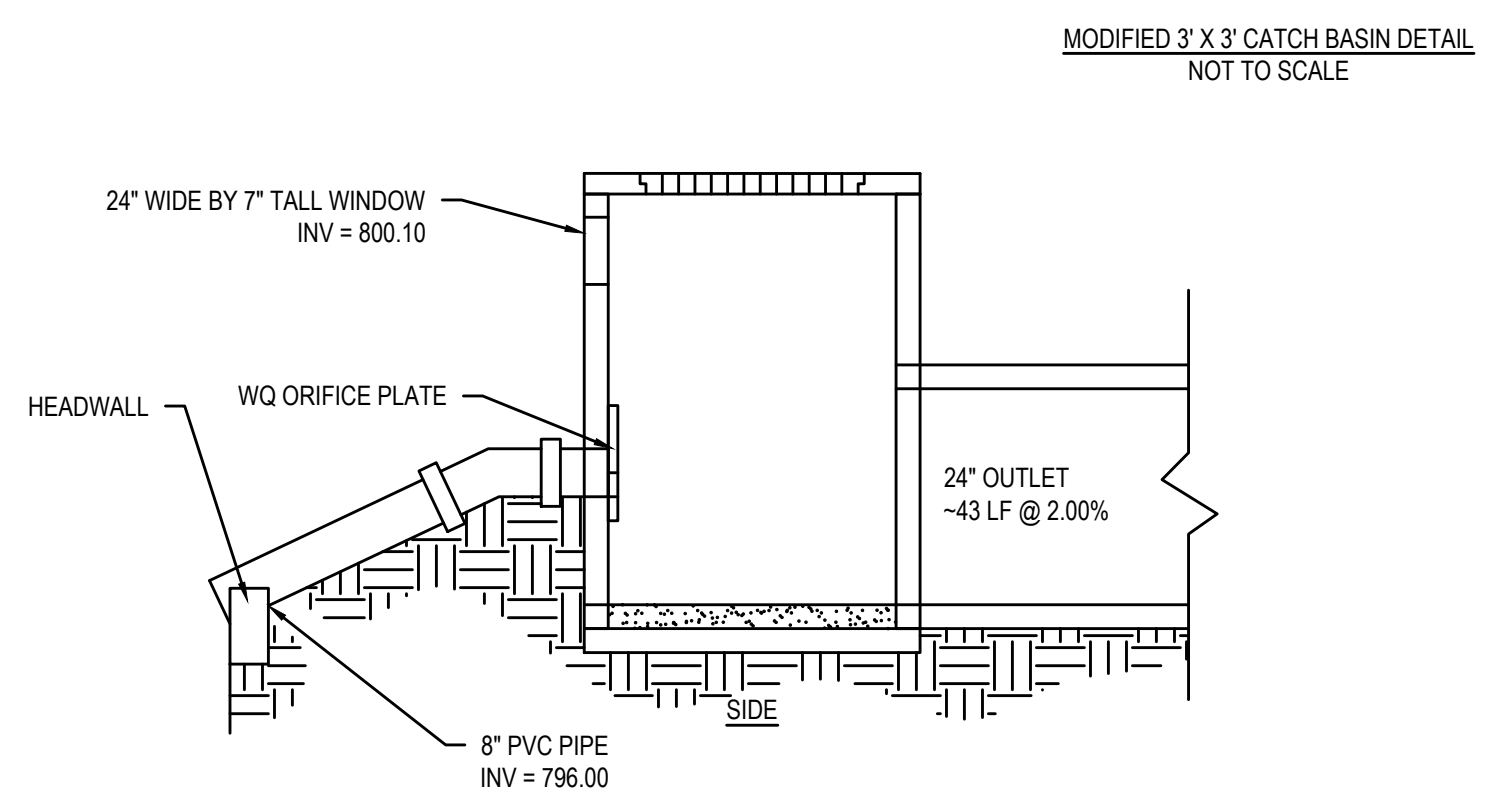


HALF HEIGHT ENDWALL DETAIL  
 CIRCULAR PIPE

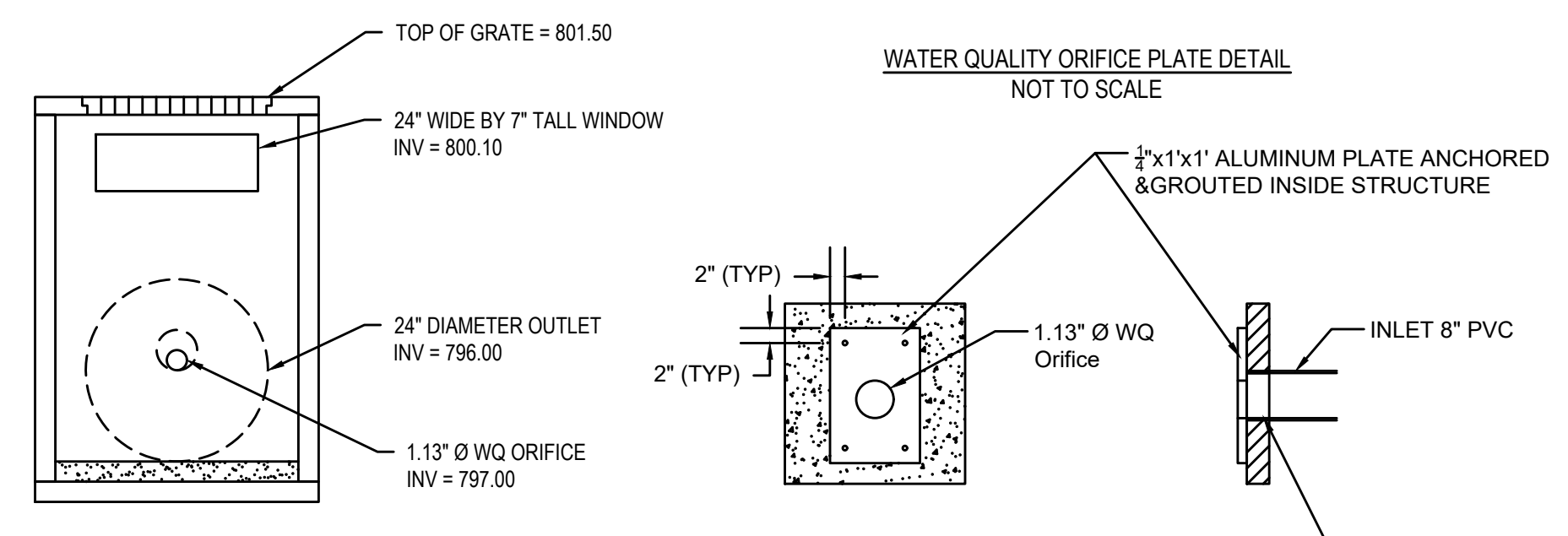


\*6" OR PIPE O.D. (INCHES) WHICHEVER IS LARGER  
 \*\*RIGID PIPE = DUCTILE IRON, CONCRETE PRESSURE PIPE, PVC COMPOSITE OR REINFORCED CONCRETE PIPE

PIPE BEDDING AND TRENCH  
 DETAIL FOR RIGID PIPE  
 NTS

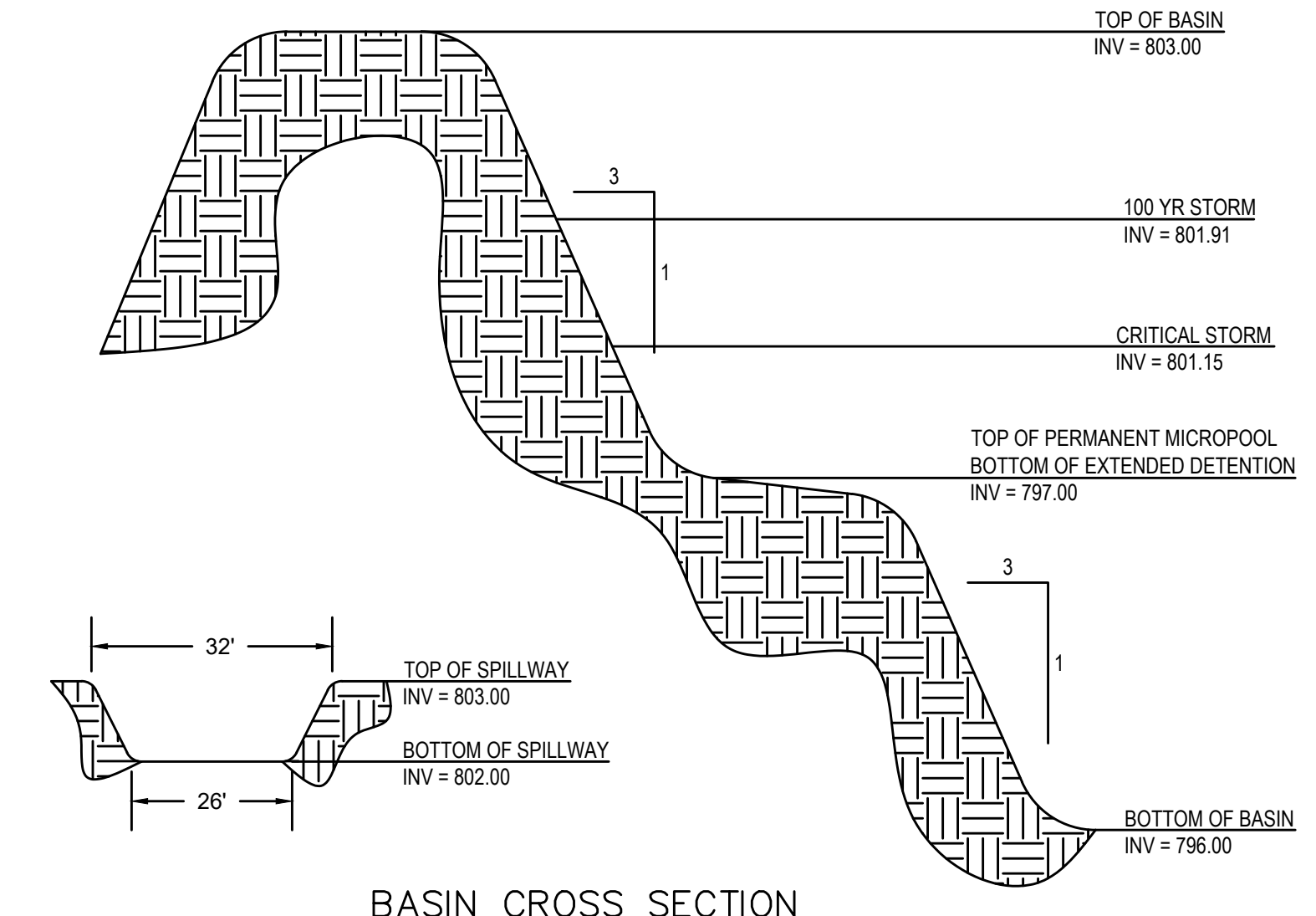


BASIN OUTLET STRUCTURE DETAIL  
 NOT TO SCALE

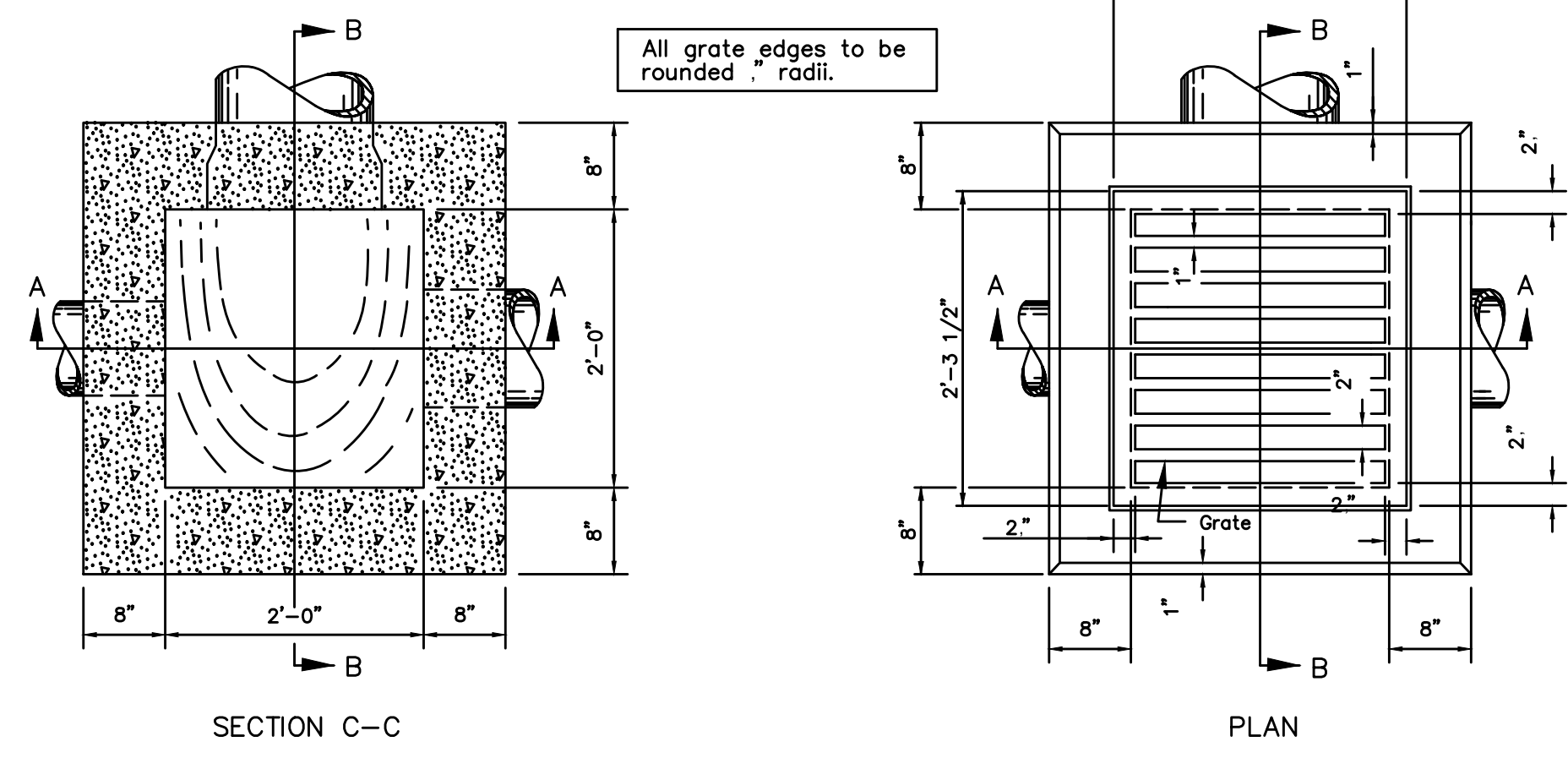
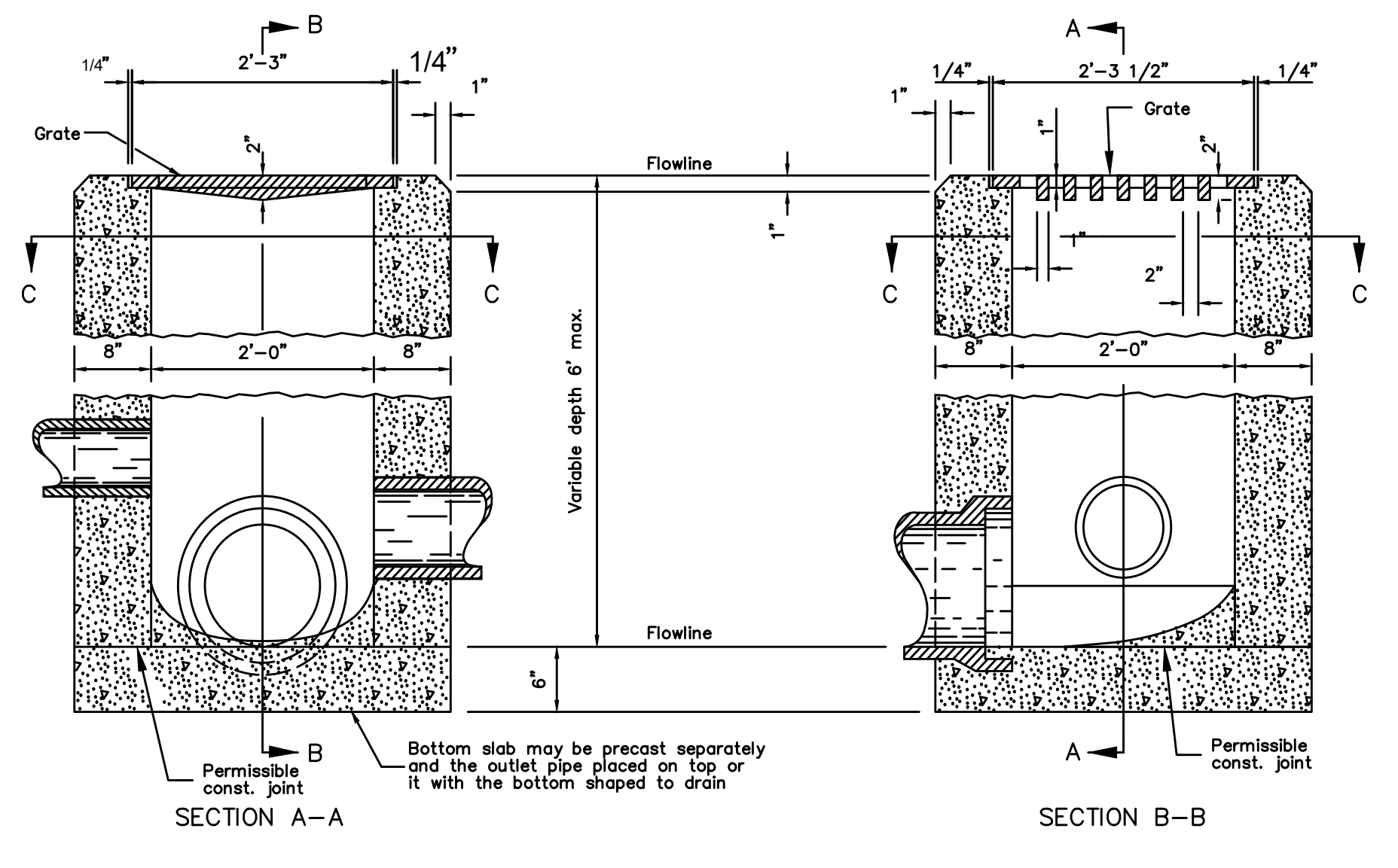


SKIMMER NOTE  
 ATTACH SKIMMER TO 8" W/O INLET ORIFICE AS NEEDED FOR TEMPORARY W/O DEWATERING. SEE SEPARATE SKIMMER DETAIL ON PAGE C701.  
 THE SKIMMER END CAP SHALL HAVE A 1.13" Ø ORIFICE.  
 UPON COMPLETION OF ALL CONSTRUCTION, GRADING, AND SITE STABILIZATION THE SKIMMER MAY BE REMOVED AND THE 8" PVC MICRO POOL OUTLET ATTACHED IN ITS PLACE WITH THE APPROPRIATELY SIZED ORIFICE PLATE AS DETAILED HERE.

WATER QUALITY ORIFICE PLATE DETAIL  
 NOT TO SCALE



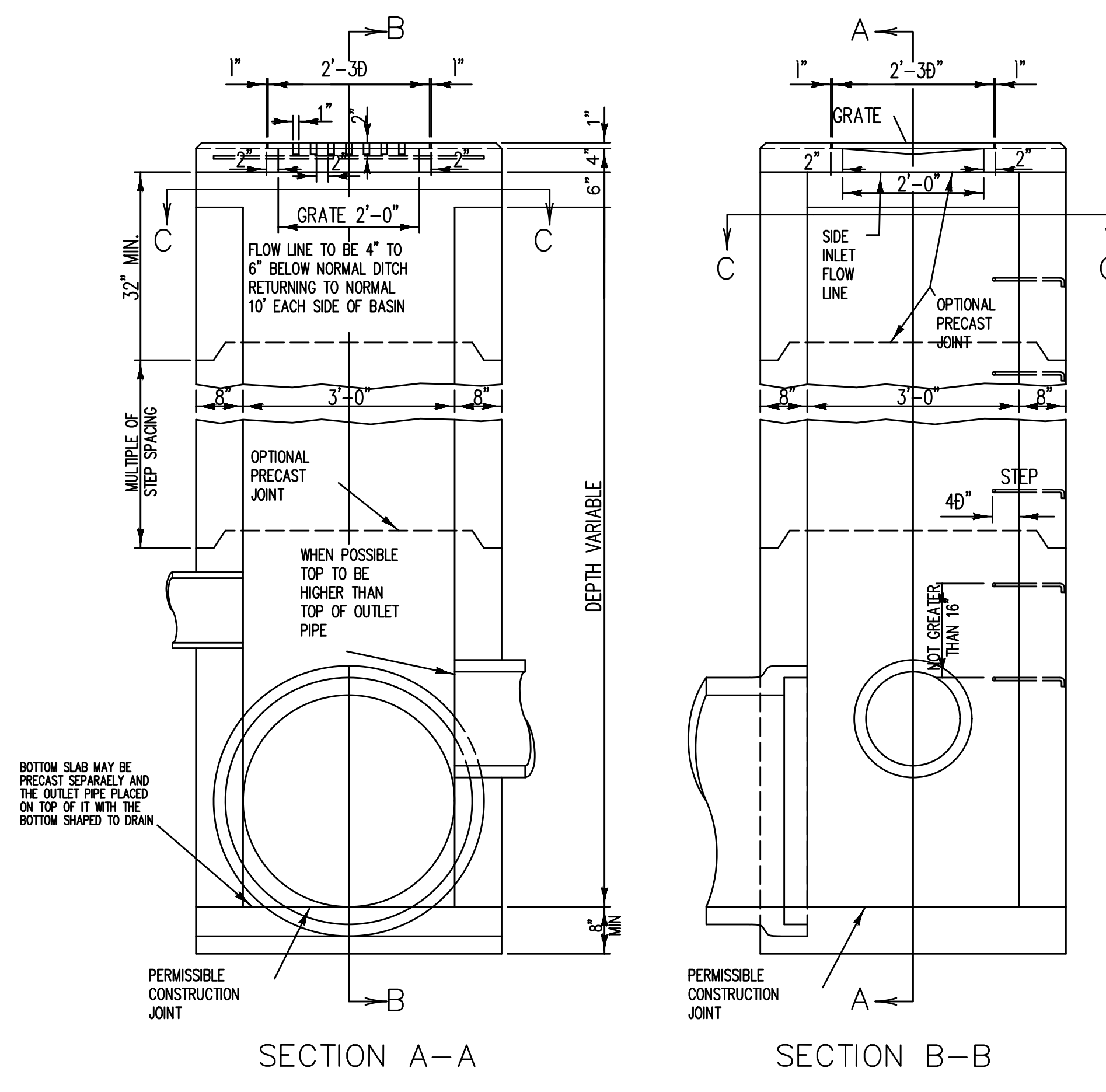
BASIN CROSS SECTION  
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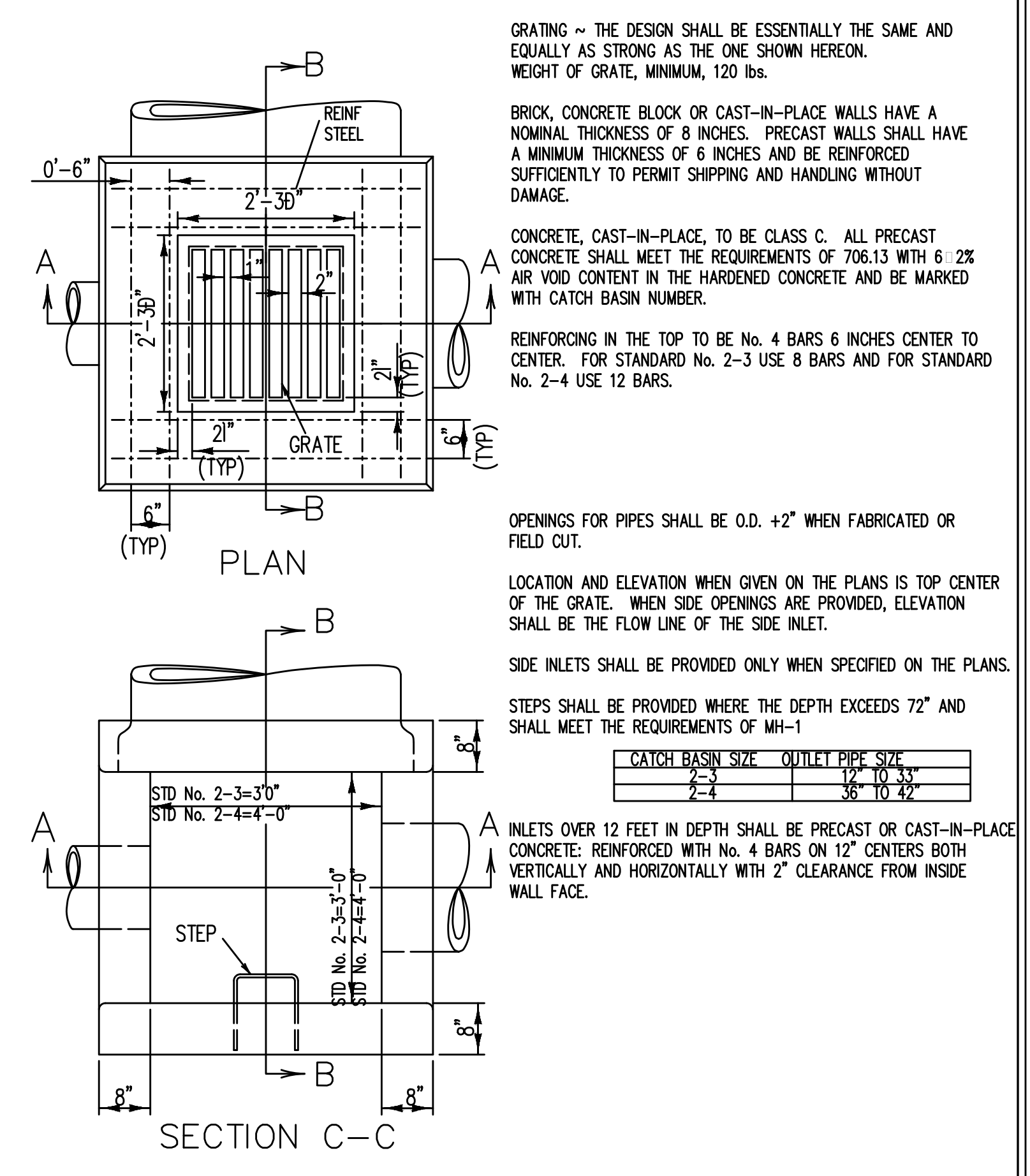
CATCH BASIN No. 2-2B

NOTES  
 CATCH BASINS 2-2A, 2-2B & 2-2C: This sheet depicts Catch Basin 2-2B & 2-2C. See Sheet 1 of 2 for Catch Basin 2-2A.  
 CB-2-2B GRATE: Furnish a design essentially the same and equally as strong as the one shown (see Construction Information table), or meet the requirements of CMS 711.14. Provide grate openings and dimensions as shown here unless otherwise shown in the plans.  
 If necessary, bicycle safe grates will be specified in the plans. Furnish Neenah No. R-4859-S or EJ No. 5110M3 (00511043) grates or approved equals.  
 Place grate elevation 4" to 6" below normal ditch and return to normal 10' to 15' each side of inlet.  
 CB-2-2C FRAME & GRATE: Where the catch basin is specified for use in a parking lot, furnish Neenah No. R-1878-ASD or EJ No. V-5622 (45622010) frame and V-5622 (45622030) grate or approved equals. If necessary, bicycle safe grates will be specified in the plans. Furnish Neenah No. R-3405 grate or EJ No. 5250M (00525037) grate or approved equals.  
 On cast-in-place and precast units, provide a level surface on the catch basin 4" below the plan grate elevation for setting the frame and grate assembly. Provide a concrete apron to enclose and secure the frame of a width not less than the thickness of the catch basin walls that the frame was placed on or as shown in the plans. Slope apron to provide local depression.  
 GRATE TEXT: Cast the following text into the top of the grate:  
 "DRAINS TO WATERWAY" and "DUMP NO WASTE"  
 Print text in bold, capital letters at least 1/2" high. "WATERWAY" may be substituted with "STREAM", "RIVER", "LAKE", etc. Actual placement and logo may vary per manufacturer.  
 WALLS: Construct brick or cast-in-place walls with a nominal 8" thickness. Provide precast walls at least 6" thick with sufficient reinforcing to permit shipping and handling without damage.  
 CONCRETE: Use 4000 psi compressive strength for cast-in-place concrete. Meet the requirements of CMS 706.13 for all precast concrete and mark with the catch basin number.  
 PRECAST BASE: If a precast base is used, set it deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Do not use brick layers to adjust the top elevation.  
 LOCATION AND ELEVATION: When given on the plans, location and elevation are at the top center of the grate.  
 MINIMUM DEPTH: The minimum depth of CB No. 2-2B is the outside diameter (O.D.) of the outlet pipe plus 4". The minimum depth of CB No. 2-2C is the outside diameter (O.D.) of the outlet pipe plus 8".  
 OPENINGS: Ensure pipe openings are the O.D. of the pipe being supplied plus 2" when fabricated or field cut. Fill any voids per CMS 611.  
 PAYMENT: All materials and labor, including excavation and backfilling, are paid for under Item 611 - Catch Basin, No. 2-(2B or 2C).

CONSTRUCTION INFORMATION	
Minimum weight of grate, 120 lbs.	



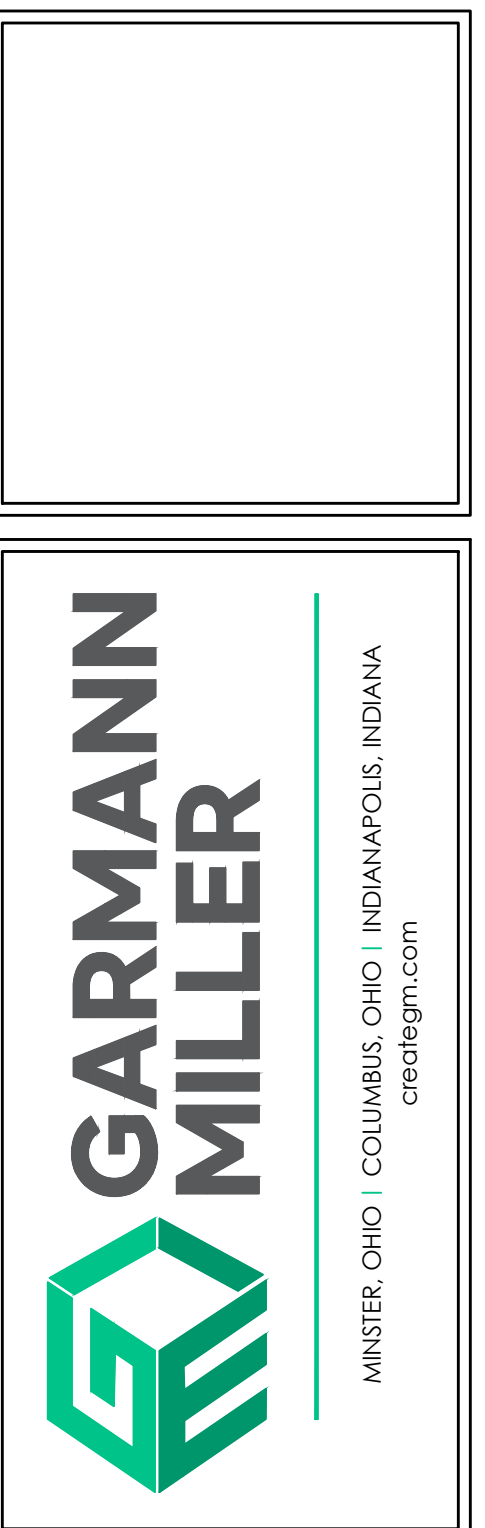
STANDARD No. 2-3 & No. 2-4 CATCH BASIN  
 NOT TO SCALE



GRATING - THE DESIGN SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THE ONE SHOWN HEREON. WEIGHT OF GRATE, MINIMUM, 120 lbs.  
 BRICK, CONCRETE BLOCK OR CAST-IN-PLACE WALLS HAVE A NOMINAL THICKNESS OF 8 INCHES. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.  
 CONCRETE, CAST-IN-PLACE, TO BE CLASS C. ALL PRECAST CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13 WITH 6 2% AIR VOID CONTENT IN THE HARDENED CONCRETE AND BE MARKED WITH CATCH BASIN NUMBER.  
 REINFORCING IN THE TOP TO BE No. 4 BARS 6 INCHES CENTER TO CENTER. FOR STANDARD No. 2-3 USE 8 BARS AND FOR STANDARD No. 2-4 USE 12 BARS.  
 OPENINGS FOR PIPES SHALL BE O.D. +2" WHEN FABRICATED OR FIELD CUT.  
 LOCATION AND ELEVATION WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE. WHEN SIDE OPENINGS ARE PROVIDED, ELEVATION SHALL BE THE FLOW LINE OF THE SIDE INLET.  
 SIDE INLETS SHALL BE PROVIDED ONLY WHEN SPECIFIED ON THE PLANS.  
 STEPS SHALL BE PROVIDED WHERE THE DEPTH EXCEEDS 72" AND SHALL MEET THE REQUIREMENTS OF MH-1

CATCH BASIN SIZE	OUTLET PIPE SIZE
2-2	6, 8, 10, 12
2-3	12, 15, 18, 24
2-4	18, 24, 30, 36

INLETS OVER 12 FEET IN DEPTH SHALL BE PRECAST OR CAST-IN-PLACE CONCRETE REINFORCED WITH No. 4 BARS ON 12" CENTERS BOTH VERTICALLY AND HORIZONTALLY WITH 2" CLEARANCE FROM INSIDE WALL FACE.



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 BEAVERCREEK, OHIO 43004  
 2380 DAVENPORT ROAD

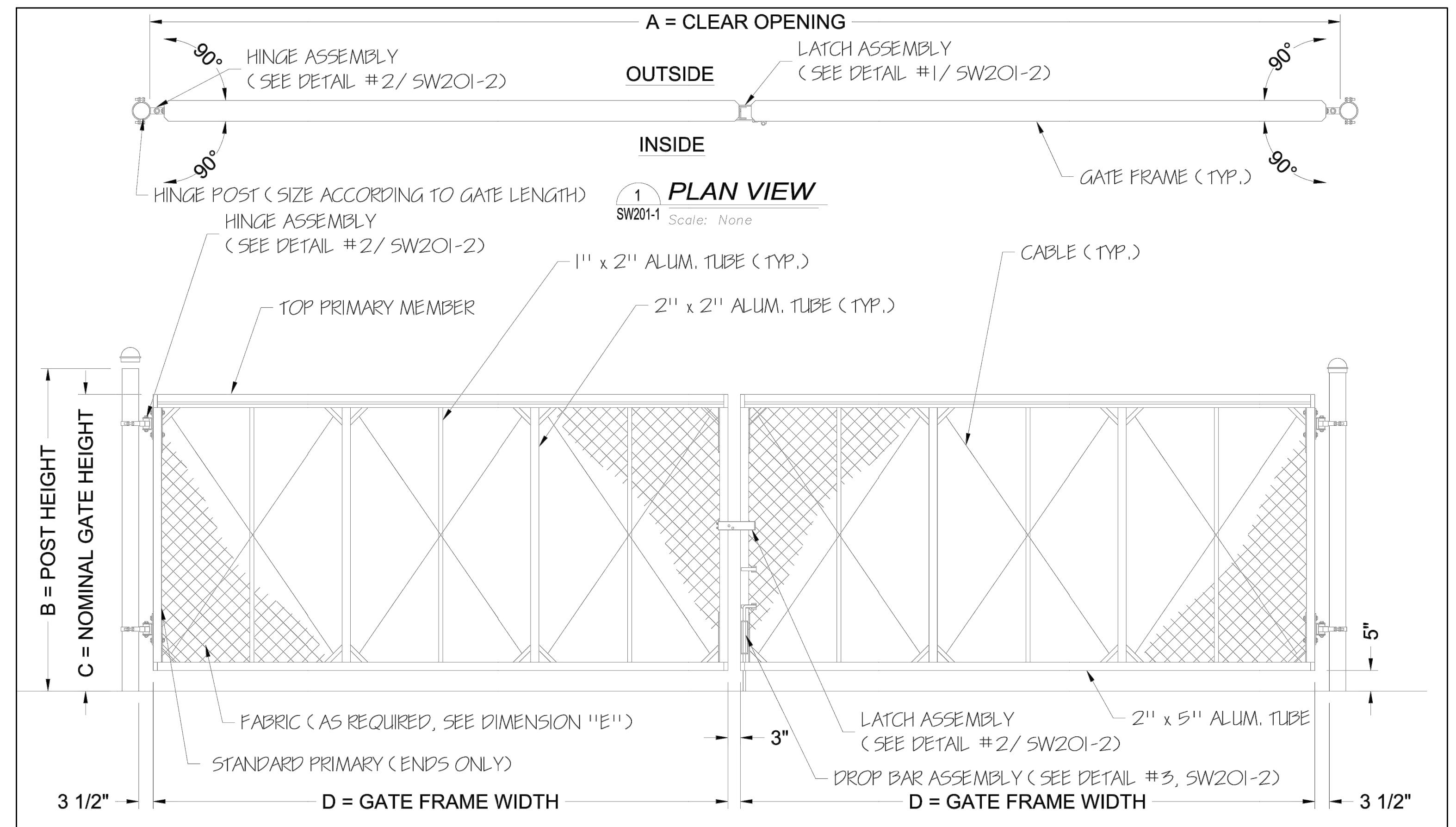
ISSUANCES/REVISIONS	
BID DOCUMENTS	10/05/2023

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
21062.00		

SHEET TITLE:  
**DETAILS**

SHEET NUMBER:  
**C600**



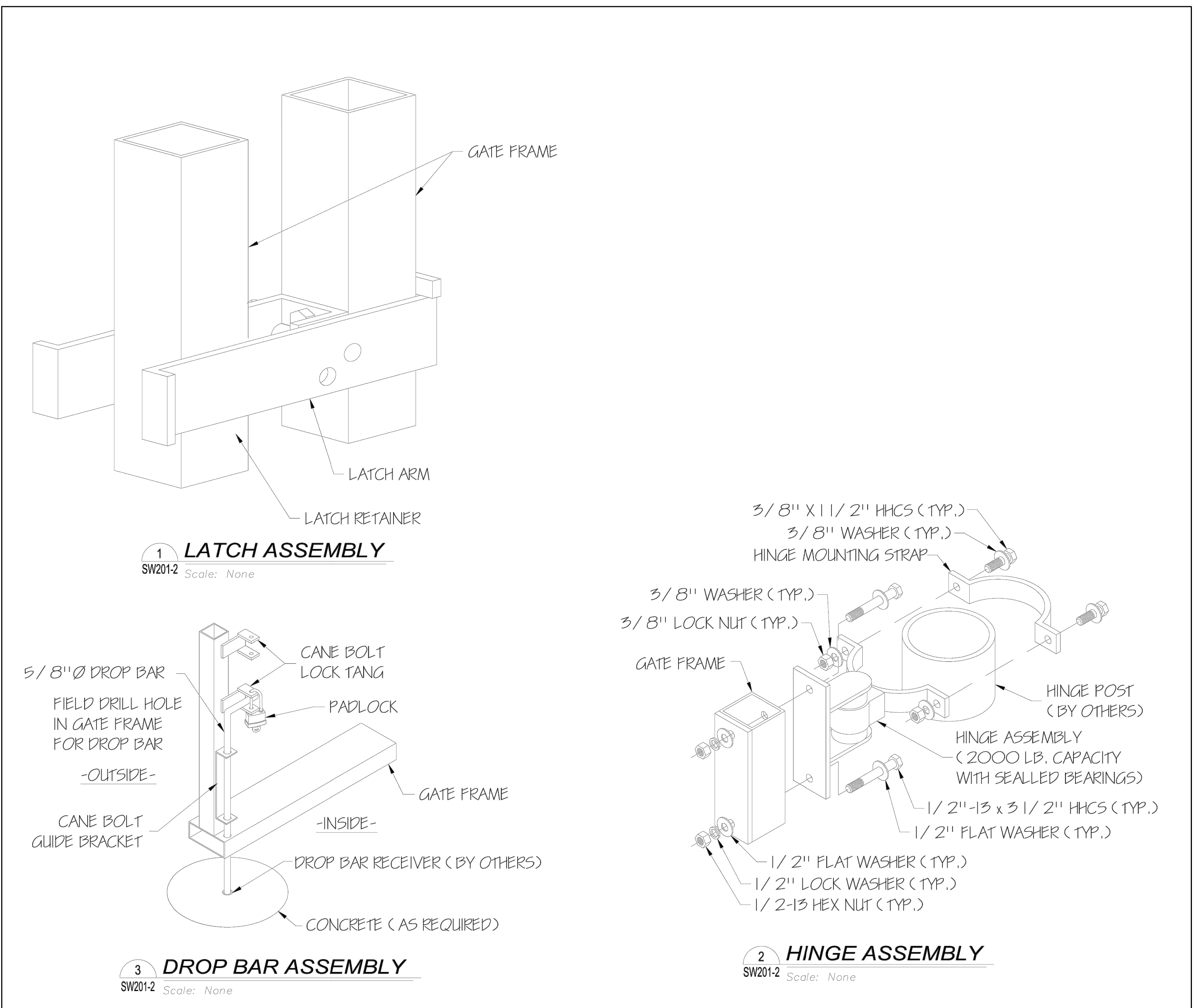


**2 ELEVATION**  
 Scale: None (INSIDE LOOKING OUT)

**NOTES:**  
 1. HANGER POST SIZE WILL VARY DEPENDING ON THE CLEAR OPENING WIDTH.  
 2. ALL FITTINGS PROVIDED FOR 6 5/8" O.D. POSTS STANDARD. OTHER SIZES AVAILABLE UPON REQUEST.  
 3. BARB ARMS AND DROP BAR ASSEMBLY ARE OPTIONAL.  
 4. GATE ELEVATION IS VIEWED FROM THE INSIDE OF THE SECURE AREA LOOKING OUT.

NOMINAL GATE SIZE		
30'W x 6'H		
CRITICAL DIMENSION CHART		
A	CLEAR OPENING	30'-0"
B	POST HEIGHT	6'-6"
C	NOMINAL GATE HEIGHT	6'-0"
D	OVERALL GATE LENGTH	14'-7"
E	FABRIC HEIGHT	5'-0"

**SWING GATE DETAIL**  
 NOT TO SCALE



ISSUANCES/REVISIONS	
PROJECT NUMBER:	21062.00
DATE:	10/05/2023

PROJECT NUMBER:	21062.00
DRAWN BY:	
CHECKED BY:	

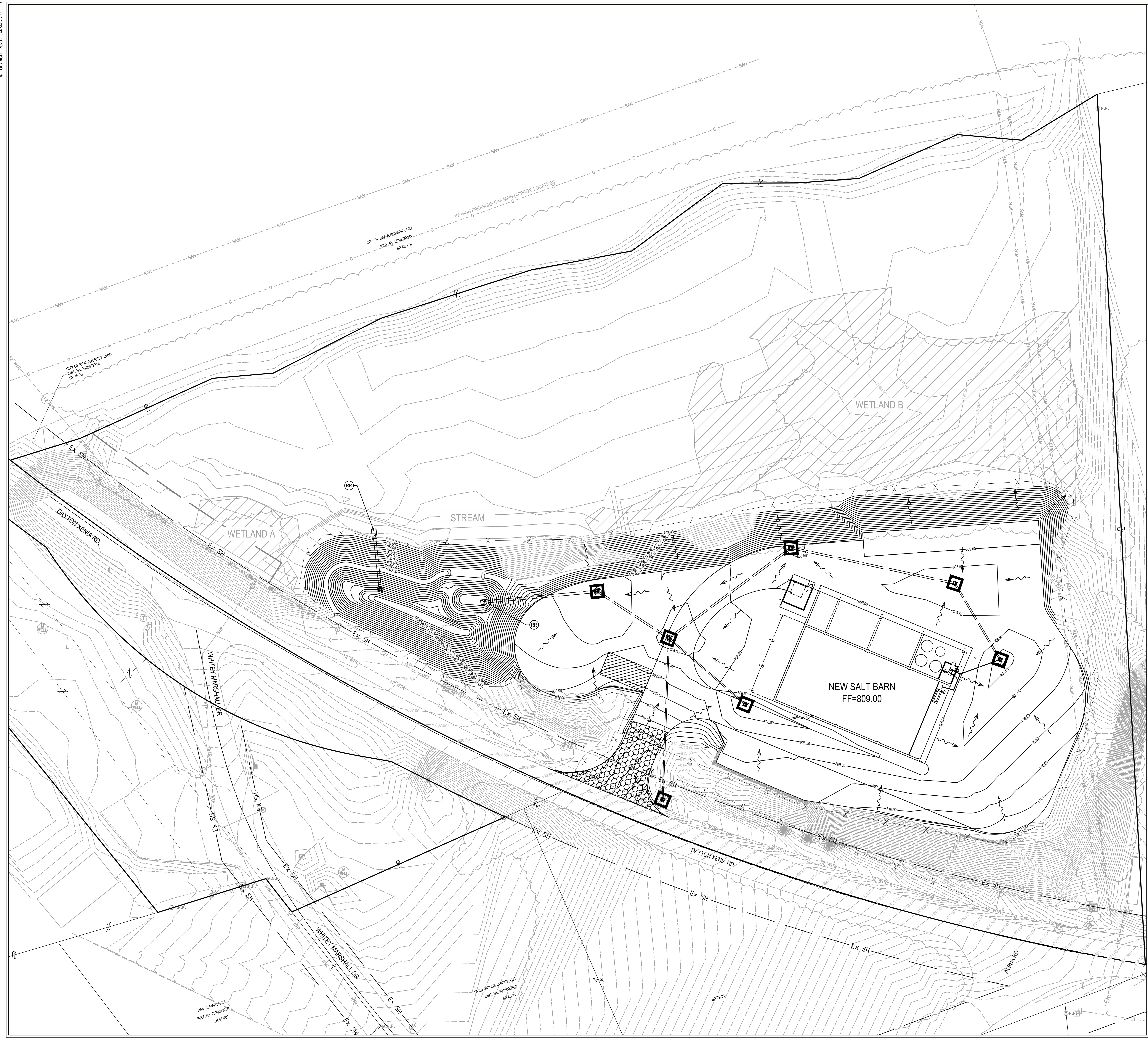
SHEET TITLE:  
**DETAILS**

SHEET NUMBER:  
**C601**





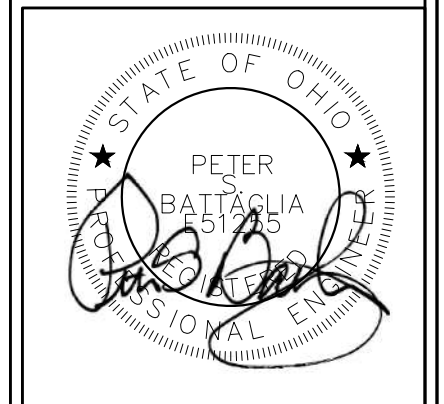
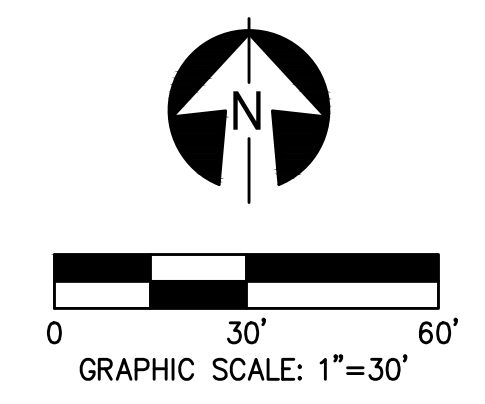
© COPYRIGHT 2023, GARMANN MILLER  
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 REG. NO. 2020012286  
 SR 41-207  
 BROOKHOUSE CIVICS, LLC  
 REG. NO. 201806667  
 SR 66-41  
 CITY OF BEAVERCREEK OHIO  
 REG. NO. 2020010018  
 SR 18-23  
 CITY OF BEAVERCREEK OHIO  
 REG. NO. 2019020401  
 SR 42-179  
 10" HIGH PRESSURE GAS MAIN (APPROX. LOCATION)  
 BR 26-317  
 BR 26-317



**LEGEND**

1030	Existing Contour Major	○	Post
1029	Existing Contour Minor	⊠	Traffic Control Cabinet
1030	Proposed Contour Major	⊞	Traffic Pulbox
1029	Proposed Contour Minor	⊞	Signal Pedestal
STW	Existing Storm Sewer	⊞	Unknown Pulbox
UT	Existing Communications	⊞	Flag Pole
UE	Existing Underground Electric	⊞	Signs
G	Existing Gas	⊞	Project Control
SAN	Existing Sanitary Sewer	⊞	Deciduous Tree
WTR	Existing Water	⊞	Evergreen Tree
WTR	Proposed Storm Sewer	⊞	Telephone Manhole
UT	Proposed Communications	⊞	Telephone Pedestal
UE	Proposed Underground Electric	⊞	Unknown Valve
G	Proposed Gas	⊞	Electric Manhole
WTR	Proposed Sanitary Sewer	⊞	Power Pole
WTR	Proposed Water	⊞	Light Pole
x	Fence	⊞	Power & Light Pole
⊞	Storm Manhole	⊞	Blank Pole
⊞	Catch Basins	⊞	Guy Anchor
⊞	Curb Inlet	⊞	Gas Valve
⊞	Drywell	⊞	Gas Shutoff Valve
⊞	Sanitary Manhole	⊞	Gas Regulator
⊞	Cleanout		
⊞	Water Manhole		
⊞	Water Valve		
⊞	Water Meter		
⊞	Fire Hydrant		
⊞	Water Shutoff Valve		

562.00	PROPOSED MAJOR CONTOUR
561.75	PROPOSED MINOR CONTOUR
562.00	EXISTING MAJOR CONTOUR
561.25	EXISTING MINOR CONTOUR
⊞	CONSTRUCTION ENTRANCE, SEE SHEET C701
⊞	CONCRETE WASHOUT, SEE SHEET C701
⊞	RIP RAP OUTLET PROTECTION, ROCK ODOT TYPE C, SEE SHEET C701
⊞	INLET PROTECTION, SEE SHEET C701
→	DRAINAGE FLOW ARROW
x-x	SILT FENCE, SEE SHEET C701



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 2300 DAYTON BEAVER ROAD  
 BEAVERCREEK, OHIO 43004

ISSUANCES/REVISIONS

BID DOCUMENTS	10/05/2023
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PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
21062.00		

SHEET TITLE:

SWPPP

SHEET NUMBER:

C700

**SWPPP NOTES**

- THE EROSION CONTROL MEASURES INCLUDED IN THE EROSION CONTROL PLAN AND EROSION CONTROL DETAILS SHALL BE INSTALLED AS THE FIRST STEP OF GRADING AND 7 DAYS PRIOR TO INITIAL REMOVAL OF VEGETATION. SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT ALL EARTH-DISTURBING ACTIVITY. SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE PROJECT SITE BY INSTALLING AND MAINTAINING SILT FENCE, INLET PROTECTION, SEDIMENT BASINS, ETC. AS SHOWN ON THIS PLAN. RIP RAP OUTLET PROTECTION AT THE CUTOFF OF THE STORM SEWER SYSTEM SHALL BE INSTALLED AT THE TIME OF THE CONSTRUCTION OF THE CUTOFF. THE BOX CULVERT SHALL BE CONSTRUCTED WITH A 12" DIA. RIP RAP OUTLET PROTECTION AT THE CUTOFF. STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION FROM ALL SITES REMAINING DISTURBED FOR MORE THAN 14 DAYS.
- THE CONTRACTOR SHALL CONTROL WASTES, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY AS TO PREVENT STORM WATER RUNOFF OR OTHER FORCES PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND DISPOSED BUILDING MATERIAL APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL IS REQUIRED. COMPLIANCE IS REQUIRED WITH ALL STATE OR LOCAL REGULATIONS REGARDING WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEMS.
- PUBLIC OR PRIVATE ROADWAYS SHALL BE CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE PUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.
- ALL ON-SITE STORM DRAIN INLETS SHALL BE PROTECTED AGAINST SEDIMENTATION WITH DANDY BAGS, FILTER FABRIC, OR EQUIVALENT BARRIERS AS SHOWN ON THESE PLANS.
- EXCEPT AS PREVENTED BY INCLEMENT WEATHER CONDITIONS, ALL DISTURBED AREAS MORE THAN 50 FEET AWAY FROM THE STREAM OR WETLANDS TO REMAIN INACTIVE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING, SOILING, MULCHING, COVERING, OR BY OTHER EQUIVALENT EROSION CONTROL MEASURES WITHIN SEVEN (7) DAYS. ALL DISTURBED AREAS LESS THAN 50 FEET AWAY FROM THE STREAM OR WETLANDS TO REMAIN INACTIVE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING, SOILING, MULCHING, COVERING, OR BY OTHER EQUIVALENT EROSION CONTROL MEASURES WITHIN TWO (2) DAYS. PERMANENT SOIL STABILIZATION SHALL BE PROVIDED WITHIN 7 DAYS AFTER FINAL GRADE IS ESTABLISHED FOR AREAS WITHIN 50 FEET OF THE STREAM OR WETLANDS AND WITHIN 30 DAYS FOR ALL OTHER AREAS.
- THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
- DURING THE PERIOD OF CONSTRUCTION ACTIVITY, ALL SEDIMENT BASINS AND OTHER EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. AT COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF MAINTENANCE RESPONSIBILITIES, IF REQUIRED, WITH THE CITY OF BEAVERCREEK. MAINTENANCE SHALL BE IN ACCORDANCE WITH CHAPTER 6 OF OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT, AND URBAN STREAM PROTECTION.
- ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH OHIO'S STANDARDS FOR STORMWATER MANAGEMENT, LAND DEVELOPMENT, AND URBAN STREAM PROTECTION.
- EXISTING VEGETATION SHALL BE PROTECTED AS MUCH AS PRACTICAL.
- POST-CONSTRUCTION STORM WATER MANAGEMENT LOCAL LAWS REGARDING THE DISCHARGING OF OIL AND OTHER POLLUTANTS INTO STORM SEWERS OR DRAINAGEWAYS SHALL APPLY.
- ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED BY QUALIFIED INSPECTION PERSONNEL AND IN ACCORDANCE WITH THE CONDITIONS OF APPLICABLE NPDES PERMITS.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE REMOVED AND DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.
- THIS EROSION CONTROL PLAN MUST BE RETAINED ON-SITE AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION.

**SITE DESCRIPTION**

THE EXISTING SITE CONSISTS OF SALT STORAGE BARN, SEVERAL GRAVEL LAY DOWN AREAS, BRINE CREATION STATION, A COUPLE OF MATERIAL STORAGE BAYS, AND A PAVED ACCESS ROAD. THE SITE CURRENTLY SHEET DRAINS TO THE NORTH AWAY FROM DAYTON XENA ROAD INTO A WETLAND AND STREAM IN THE WOODED AREA TO THE NORTH OF THE SITE. FROM THERE THE STREAM THEN DRAINS INTO BEAVER CREEK ON THE NORTHERN EDGE OF THE SITE.

LATITUDE = 39°42'48.14"N

LONGITUDE = 84°01'07.35"W

**SCOPE AND PURPOSE**

THE PURPOSE OF THIS PROJECT IS TO DEVELOP THE EXISTING SALT BARN FACILITY WITH A NEW SALT BARN FACILITY. THIS PROJECT WILL INVOLVE THE CREATION OF A NEW SALT BARN, A COUPLE OF GRAVEL LAYDOWN AREAS, AND ACCOMPANYING PAVEMENT.

**CONSTRUCTION SEQUENCE SCHEDULE**

- OBTAIN PLAN APPROVAL AND APPLICABLE PERMITS
- LAYOUT WORK LIMITS
- INSTALLATION OF SILT FENCE AND CONSTRUCTION ENTRANCE AS SHOWN
- INSTALLATION OF RETENTION BASIN, STORM SEWERS, CATCH BASINS, INLET PROTECTION, SWALES, AND CHECK DAMS AS SHOWN
- ROUGH GRADE
- INSTALLATION OF OUTLET PROTECTION
- CONSTRUCT GRAVEL STORAGE AREAS, DRIVEWAYS, AND STRUCTURES
- FINAL SURFACE GRADING
- FINAL SITE STABILIZATION AND PERMANENT SEEDING

**MONITORING AND MAINTENANCE GUIDELINES**

A QUALIFIED INSPECTION PERSON SHALL HAVE WEEKLY INSPECTIONS TO MONITOR THE SITE DURING AND AFTER CONSTRUCTION. INSPECTIONS SHALL ALSO OCCUR EVERY 24 HOURS OF EVERY RUNOFF PRODUCING RAINFALL OF 0.5" WITHIN A 24 HOUR PERIOD. SEDIMENT TO BE REMOVED FROM BEHIND SEDIMENT FENCE WHEN SEDIMENT IS 8" DEEP AT SILT FENCE WITHIN 3 DAYS OF INSPECTION. SEDIMENT REMOVED DURING MAINTENANCE SHALL BE DISPOSED OF ALONG SLOPES AND SEEDS AS OTHER PROPOSED AREAS. AN INSPECTION CHECKLIST SHALL BE COMPLETED AND SIGNED AFTER EVERY INSPECTION AND KEPT FOR A PERIOD OF 3 YEARS AFTER FINAL CONSTRUCTION. IF A BMP IS FOUND TO BE INOPERABLE OR MISSING, A NEW BMP SHALL BE CONSTRUCTED TO REPLACE IT WITHIN 10 DAYS OF INSPECTION.

**STORMWATER CALCULATIONS**

DRAINAGE CALCULATIONS AND DESIGN WAS PERFORMED UTILIZING NRCS TR55 METHOD FOR THE CALCULATION OF RUNOFF RATES AND VOLUMES FOR THE SITE. NRCS TR55 METHODOLOGY WAS ALSO UTILIZED FOR THE CALCULATION OF TIME TO CONCENTRATION (T<sub>C</sub>). THE COMPOSITE CURVE NUMBER FOR THE SITE IS 0.73. THE DEVELOPED CONDITION WAS DETERMINED TO BE 88 WITH A T<sub>C</sub> OF 10 MIN. THE COMPOSITE CURVE NUMBER FOR THE SITE IN ITS POST DEVELOPED CONDITION WAS DETERMINED TO BE 92 WITH A T<sub>C</sub> OF 10 MIN.

THE SITE HYDROLOGIC SOIL GROUP IS TYPE C WAS USED.

THE CRITICAL STORM FOR THE SITE WAS DETERMINED TO BE A 3 YEAR STORM. THIS WAS DETERMINED USING CRITICAL STORM METHOD.

THE TREATMENT OF THE WATER QUALITY WILL BE HANDLED VIA A DRY DETENTION BASIN. THIS DETENTION BASIN UTILIZES A STAGE OUTLET STRUCTURE, FOREBAY, AND PERMANENT MICRO POOL, TO ENSURE AN ADEQUATE DRAW DOWN TIME FOR THE PURPOSE OF WATER QUALITY TREATMENT. THE DETAILS OF THE STAGE OUTLET STRUCTURE CAN BE FOUND ON PAGE 0901. DETAILS FOR THE CAPACITY OF THE BASIN, FOREBAY, AND PERMANENT MICROPOOL, AS WELL AS THE DRAW DOWN TIME, VOLUME TREATED IN THE FIRST 103 OF THE MINIMUM DRAW DOWN TIME OF 60 MINS, TOP ELEVATION OF THE BASIN, CRITICAL STORAGE ELEVATION, 100 YR STORM ELEVATION, WATER QUALITY VOLUME ELEVATION, AND THE WATER QUALITY ORIFICE ELEVATION ARE SHOWN BELOW.

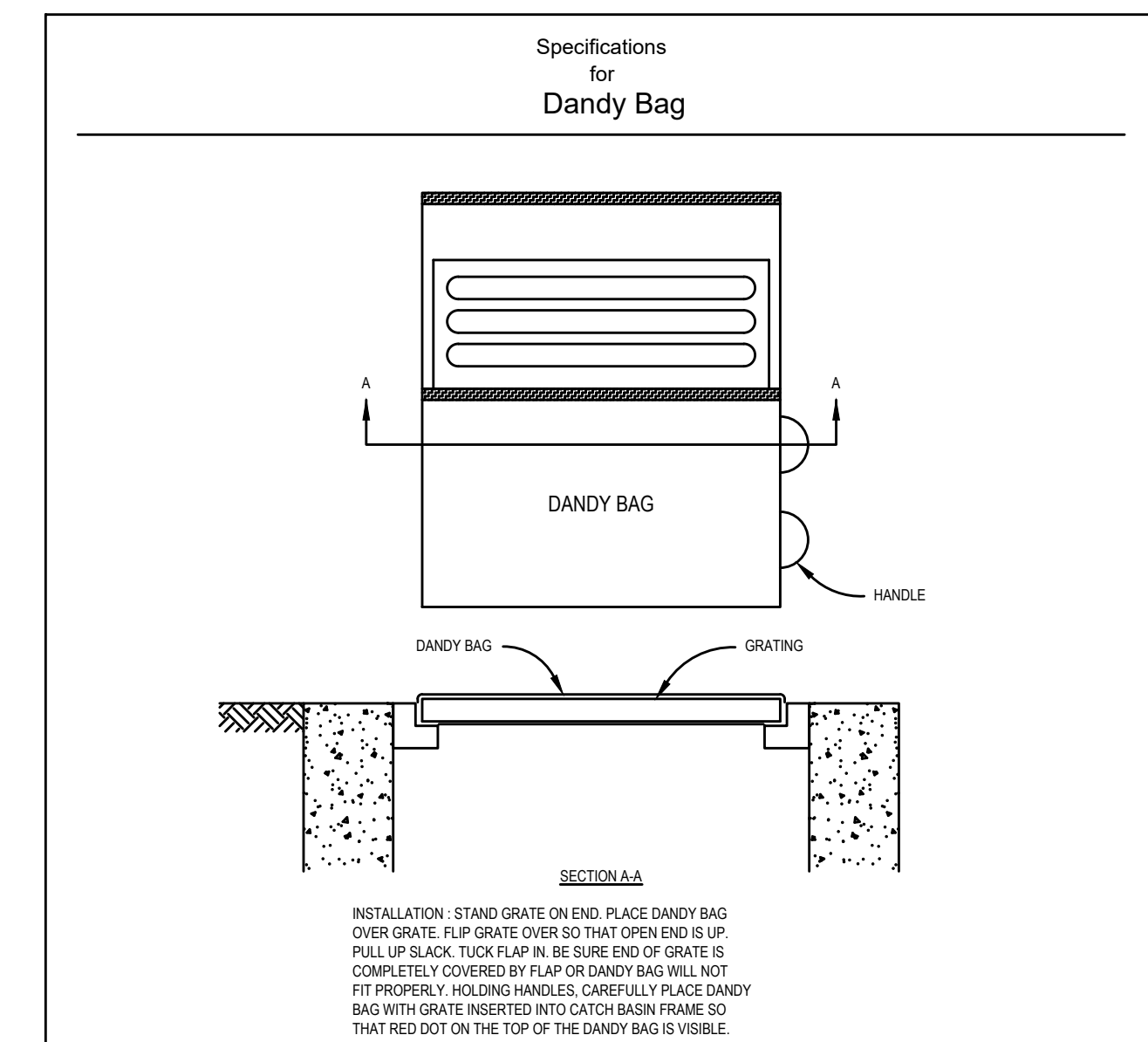
**DETENTION BASIN**

CAPACITY OF PERMANENT MICROPOOL IN BASIN = 756 CU FT
CAPACITY OF FOREBAY = 778 CU FT
CAPACITY OF BASIN NOT INCLUDING MICROPOOL = 25,088 CU FT
BASIN DRAWDOWN TIME = 58 HR
WATER QUALITY VOLUME DRAINED IN FIRST 16 HR = 3,078 CU FT
TOP OF BASIN ELEVATION = 803.00 FT
CRITICAL STORM ELEVATION = 801.15 FT
100 YR STORM ELEVATION = 801.91 FT
WATER QUALITY VOLUME ELEVATION = 800.10 FT
WATER QUALITY ORIFICE INVERT ELEVATION = 797.00 FT

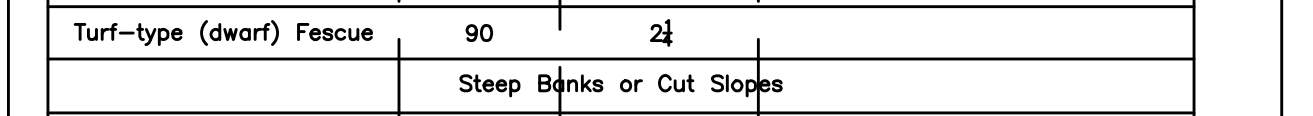
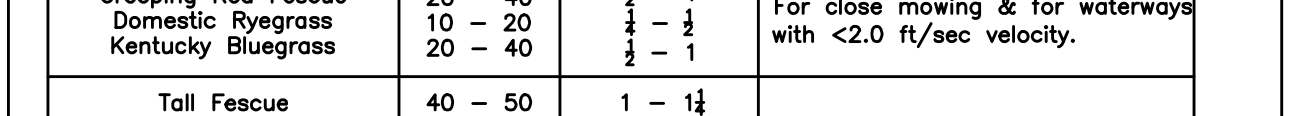
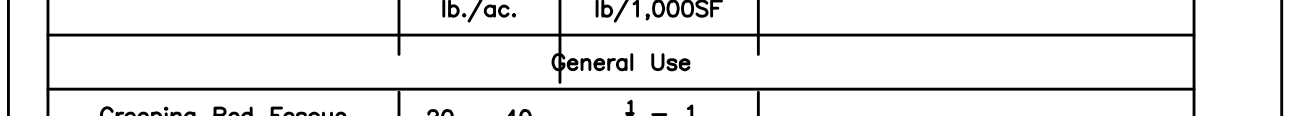
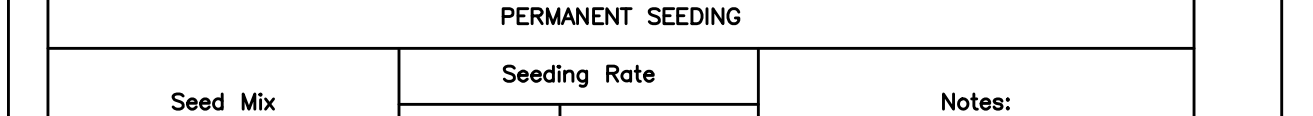
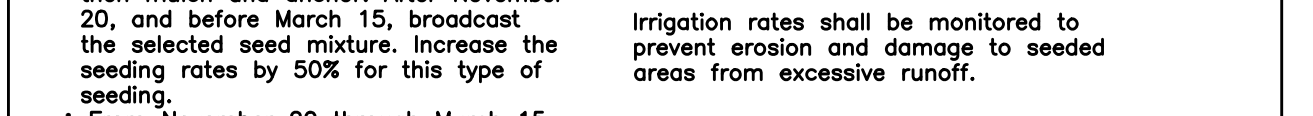
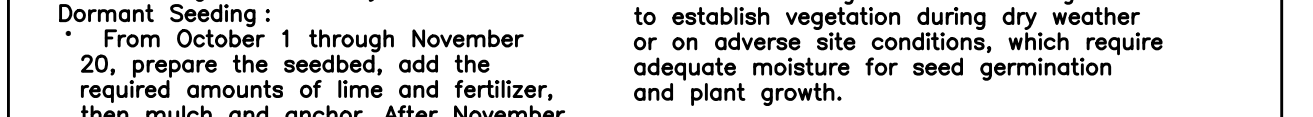
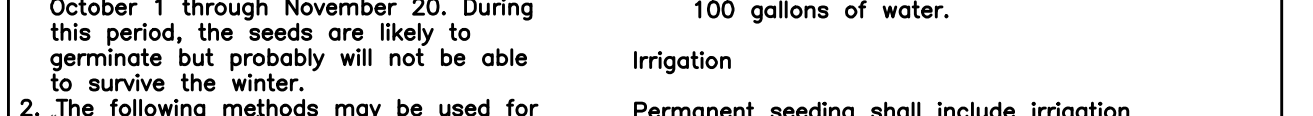
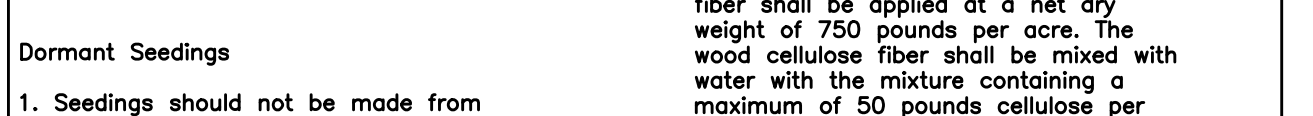
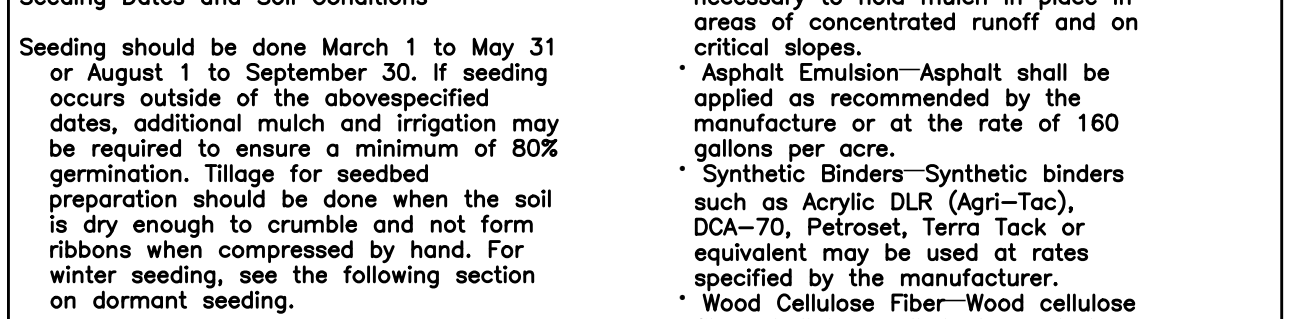
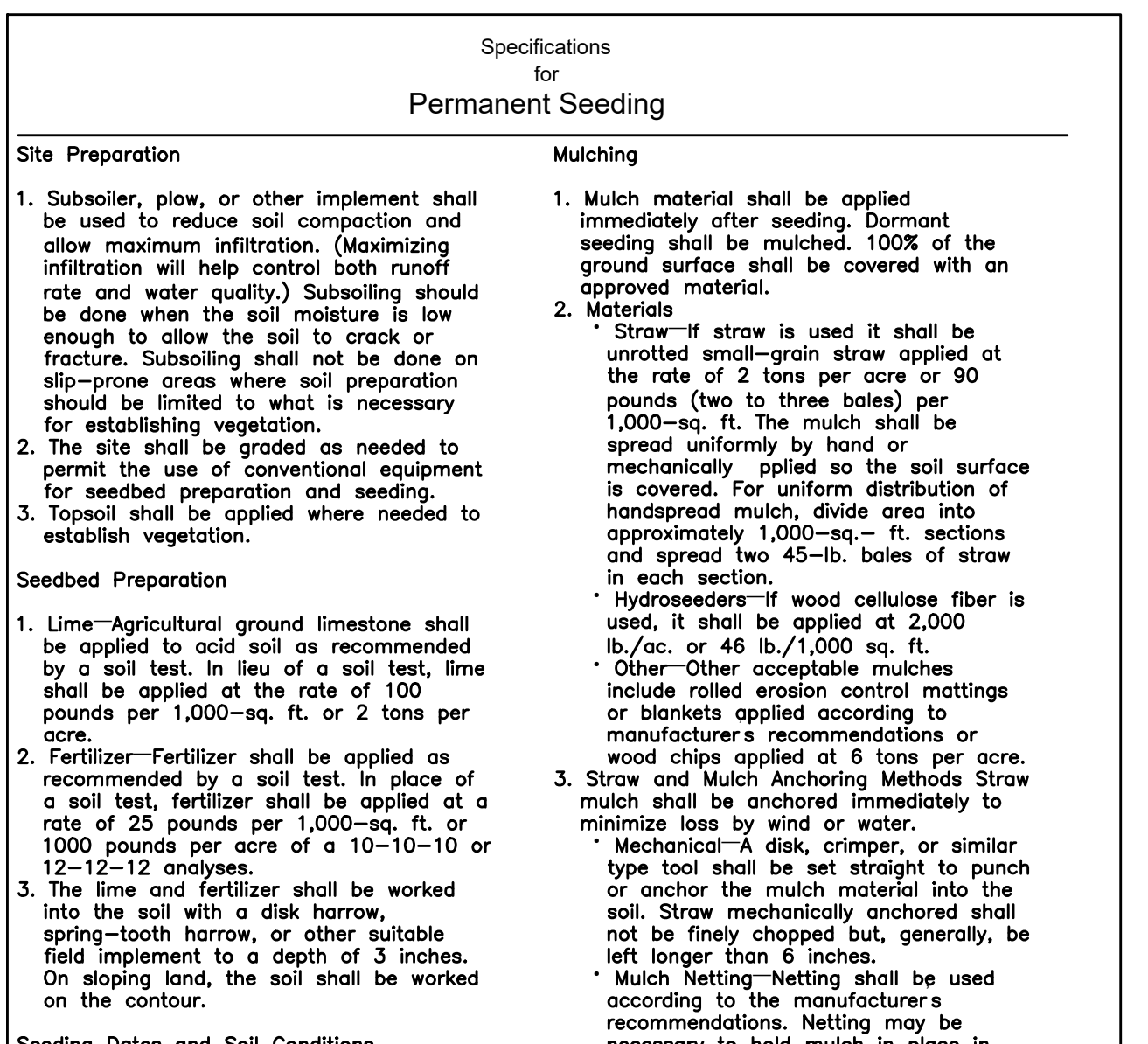
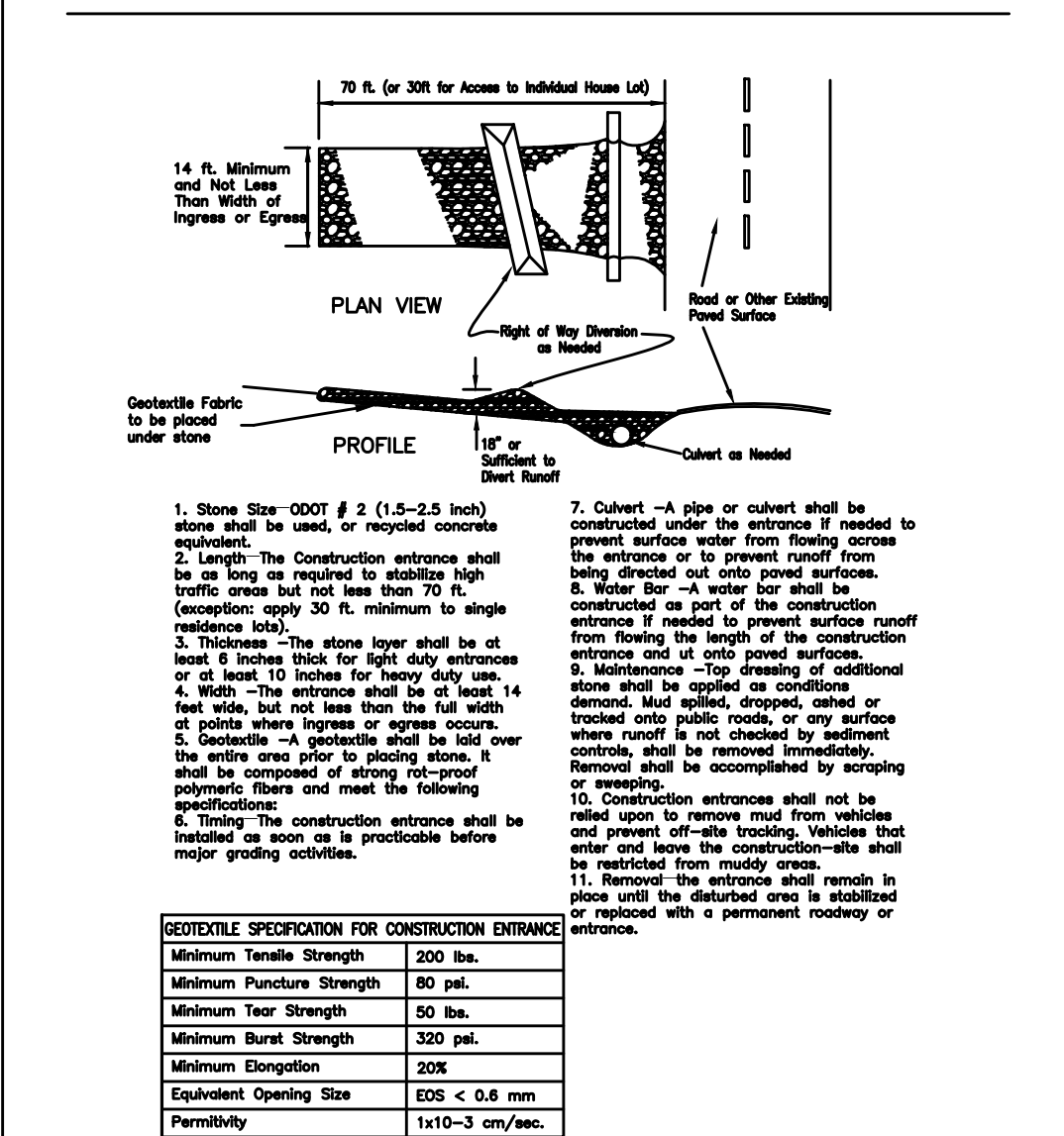
**STORMWATER RUNOFF RATES**

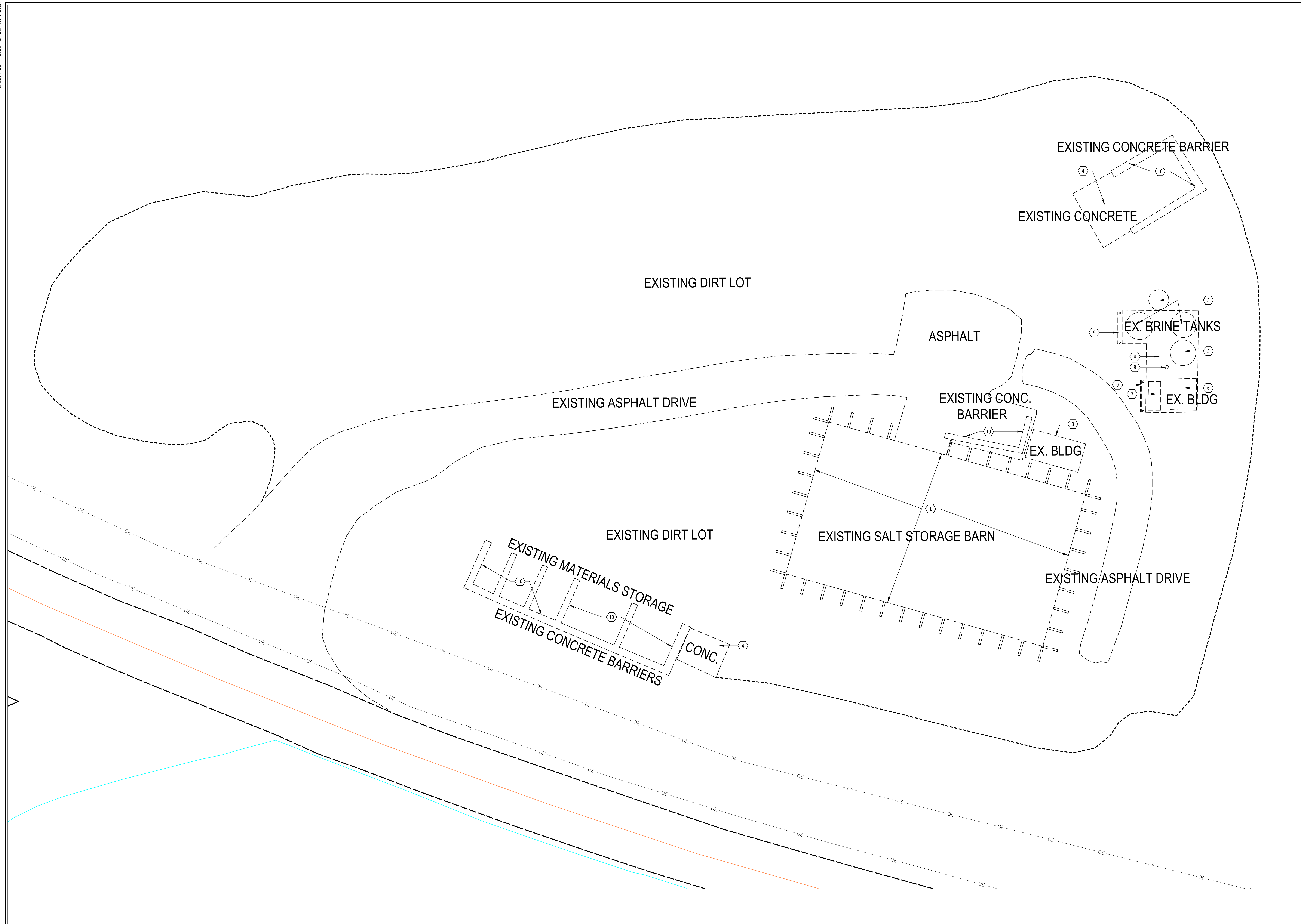
STORM	PRE-DEV(CFS)	OFF-SITE(CFS)	ALLOWABLE(CFS)	POST-DEV(CFS)	BASIN(CFS)
1-YR	4.41	0.98	5.38	5.63	1.12
2-YR	5.84	1.36	5.38	7.12	3.22
5-YR	7.83	1.93	5.38	9.13	4.94
10-YR	9.37	2.38	11.75	10.68	5.88
25-YR	11.45	2.99	14.44	12.74	10.52
50-YR	13.10	3.49	16.59	14.37	14.13
100-YR	14.79	4.00	18.78	16.03	17.39

\* - CRITICAL STORM ALLOWABLE FLOW



**Specifications for Construction Entrance**





**1** DEMOLITION PLAN  
 AD1.1 1" = 100'

**GENERAL DEMOLITION NOTES**

A. THESE NOTES APPLY TO ALL ARCHITECTURAL DEMOLITION DRAWINGS. FOR DEMOLITION NOTES AND SYMBOLS APPLICABLE ONLY TO DRAWINGS OF DISCIPLINES OTHER THAN ARCHITECTURAL, REFER TO SPECIFIC DRAWINGS OF THAT GENERAL DISCIPLINE.

B. FIELD VERIFY CONDITIONS AND COORDINATE DEMOLITION OR REMOVAL WORK WITH CORRESPONDING NEW CONSTRUCTION WORK AND WITH ALL APPROPRIATE TRADES PRIOR TO STARTING DEMOLITION WORK. IF DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS, NOTIFY ARCHITECT IMMEDIATELY.

C. REMOVE ITEMS TO BE DEMOLISHED IN THEIR ENTIRETY UNLESS OTHERWISE NOTED. DESCRIPTION OF PRIMARY ITEMS TO BE REMOVED IS GENERAL IN NATURE, AND REMOVAL OF SECONDARY COMPONENTS SUCH AS BLOCKING, SUPPORTS, ANCHORS, TRIM, ADHESIVE, PIPING, WIRING, ETC., RELATED TO PRIMARY ITEMS SHALL BE INCLUDED.

D. PROTECT EXISTING SURFACES THAT ARE TO REMAIN IN AREAS ADJACENT TO DEMOLITION WORK. CONTRACTOR TO REPAIR EXISTING SURFACES DAMAGED DURING CONSTRUCTION AND DEMOLITION.

E. DEMOLISHED MATERIALS ARE THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE AND SHALL BE PROMPTLY DISPOSED OFF SITE IN A LEGAL MANNER.

F. REMOVE DEBRIS DAILY.

G. PROVIDE STRUCTURAL SUPPORT FOR WALLS AND CEILINGS DURING DEMOLITION.

#	KEYNOTE DESCRIPTION
1	REMOVE EXISTING SALT STORAGE BUILDING IN ITS ENTIRETY, INCLUDING CONCRETE FOUNDATIONS, CONCRETE FLOOR, WALL FRAMING, ROOF STRUCTURE, STEEL TRUSSES AND CONCRETE BASE WALLS - REFERENCE ELECTRICAL DEMOLITION DRAWINGS
2	REMOVE EXISTING CONCRETE BARRIER IN ITS ENTIRETY, INCLUDING FOUNDATIONS, FLOOR AND WALLS
3	REMOVE EXISTING STORAGE BUILDING IN ITS ENTIRETY, INCLUDING CONCRETE FOUNDATIONS, CONCRETE FLOOR, FRAMING, ROOF AND WALLS
4	REMOVE EXISTING CONCRETE SLAB
5	EXISTING BRINE TANKS, BY OWNER - RELOCATE TO NEW LOCATIONS
6	REMOVE EXISTING BRINE BUILDING - REMOVE AND RELOCATE EXISTING BRINE EQUIPMENT FOR REUSE IN NEW BRINE BUILDING - REFERENCE PLUMBING DRAWINGS
7	REMOVE EXISTING BRINE MIX STATION - RELOCATE TO NEW LOCATION
8	DISCONNECT AND REMOVE EXISTING LIGHT POLE
9	REMOVE EXISTING GUARD RAIL
10	EXISTING CONCRETE UNIT MOVABLE WALLS - REFERENCE SITE DEMOLITION PLAN

STATE OF OHIO  
 CHRISTOPHER MOXNIN  
 E-67075  
 PROFESSIONAL ENGINEER

CHRISTOPHER MOXNIN  
 LICENSE #E-67075  
 EXPIRATION DATE: 12/31/2023

**GARMANN MILLER**

MINSTER, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA  
 cre@gm.com

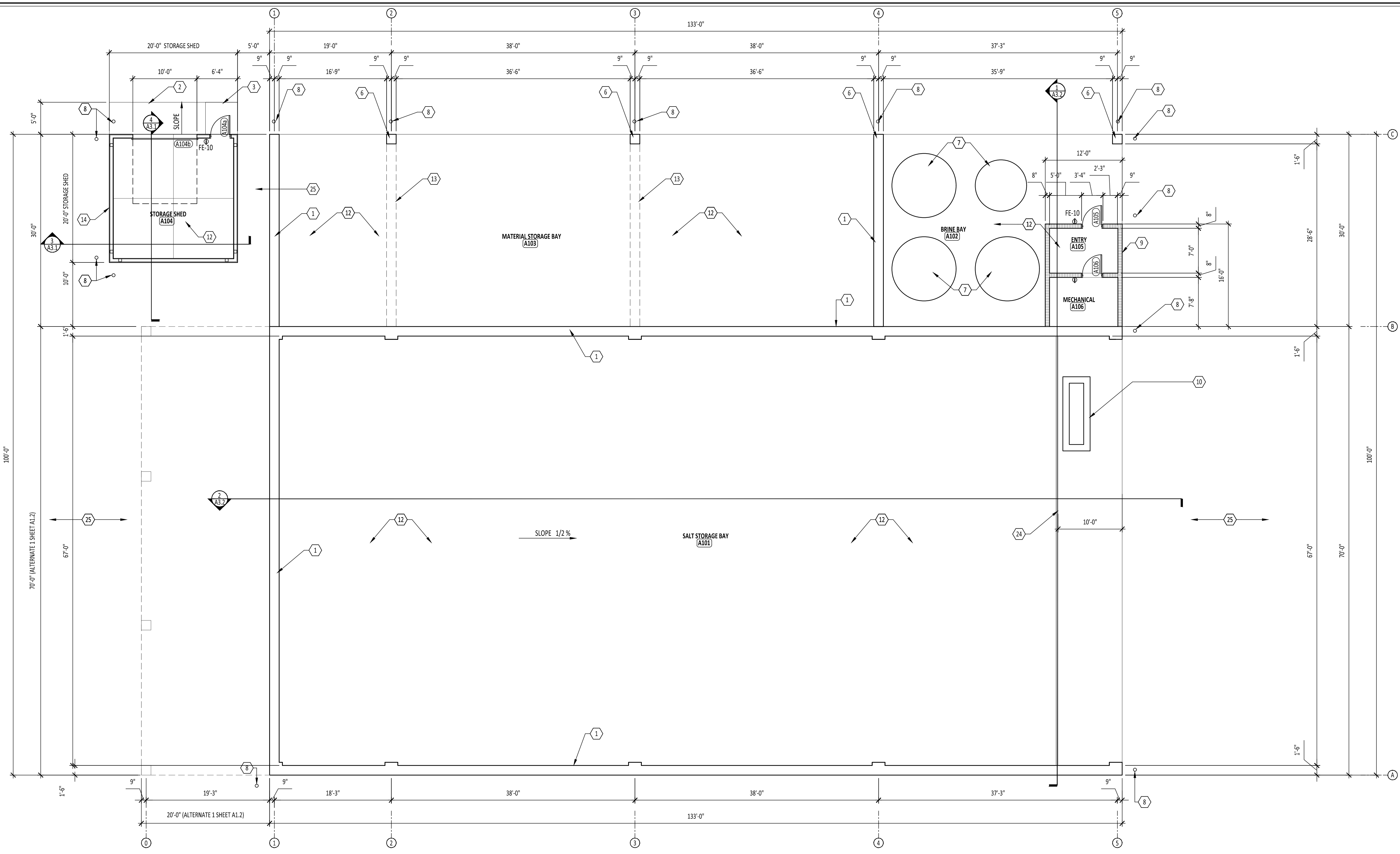
NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 BEAVERCREEK, OHIO 43024  
 2180 DANTON-REDAI ROAD

ISSUANCES/REVISIONS	
BID DOCUMENTS	10/05/2023

PROJECT NUMBER: <b>21062.00</b>	DRAWN BY: JCR	CHECKED BY: MCN
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SHEET TITLE:  
**DEMOLITION PLAN**  
**SALT STORAGE BARN**

SHEET NUMBER:  
**AD1.1**



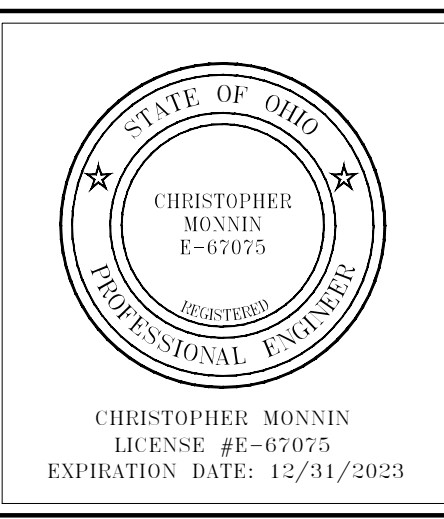
**1** FLOOR PLAN  
A1.1  
1/8" = 1'-0"

**FLOOR PLAN LEGEND**

- ① STRUCTURAL GRID REFERENCE - REFERENCE STRUCTURAL SHEETS
- LEVEL LINE
- A101 DOOR DESIGNATION - REFERENCE DOOR/OPENING SCHEDULE ON SHEET A6.1
- X KEYNOTE DESIGNATION - REFERENCE PLAN NOTES ON THIS SHEET
- XXX ROOM DESIGNATION - REFERENCE ROOM INDEX ON THIS SHEET
- FE FIRE EXTINGUISHER - REFERENCE SPEC SECTION 10 4400
- X BUILDING SECTION - REFERENCE SECTION ON SHEET INDICATED

ROOM NAME/ NUMBER	
A101	SALT STORAGE BAY
A102	BRINE BAY
A103	MATERIAL STORAGE BAY
A104	STORAGE SHED
A105	ENTRY
A106	MECHANICAL
A107	LEAN TO BAY (ALTERNATE 1)

KEYNOTE SCHEDULE	
#	KEYNOTE DESCRIPTION
1	REINFORCED POURED CONCRETE WALLS - REFERENCE STRUCTURAL DRAWINGS
2	CONCRETE APRON - REFERENCE STRUCTURAL DRAWINGS
3	ANTI-HEAVE CONCRETE STOOP - REFERENCE STRUCTURAL DRAWINGS
6	REINFORCED POURED CONCRETE COLUMN BASE; REFERENCE STRUCTURAL DRAWINGS
7	BRINE TANKS, BY OWNER - RELOCATE FROM EXISTING LOCATIONS
8	6" BOLLARD (TYPICAL), CENTERLINE OF BOLLARD MINIMUM 1'-6" FROM CONCRETE WALL; REFERENCE DETAIL 616.2
9	NEW BRINE BUILDING - REFERENCE SECTIONS AND DETAILS
10	BRINE MIX STATION, BY OWNER - RELOCATE FROM EXISTING LOCATION
12	CONCRETE FLOOR SLAB ON GRADE - REFERENCE STRUCTURAL DRAWINGS
13	PROVIDE LOCK BLOCKS FOR 6" HIGH DIVIDING WALL AS SPECIFIED IN SECTION 03 4813
14	26 GA. PRE-FINISHED METAL SIDING OVER 1/2" PLYWOOD OVER 2 x 6 WOOD STUD FRAMING @ 16" O.C.
24	4" WIDE PAINTED FLOOR LINE
25	EXTERIOR PAVEMENT, SLOPE TO DRAIN - REFERENCE CIVIL DRAWINGS



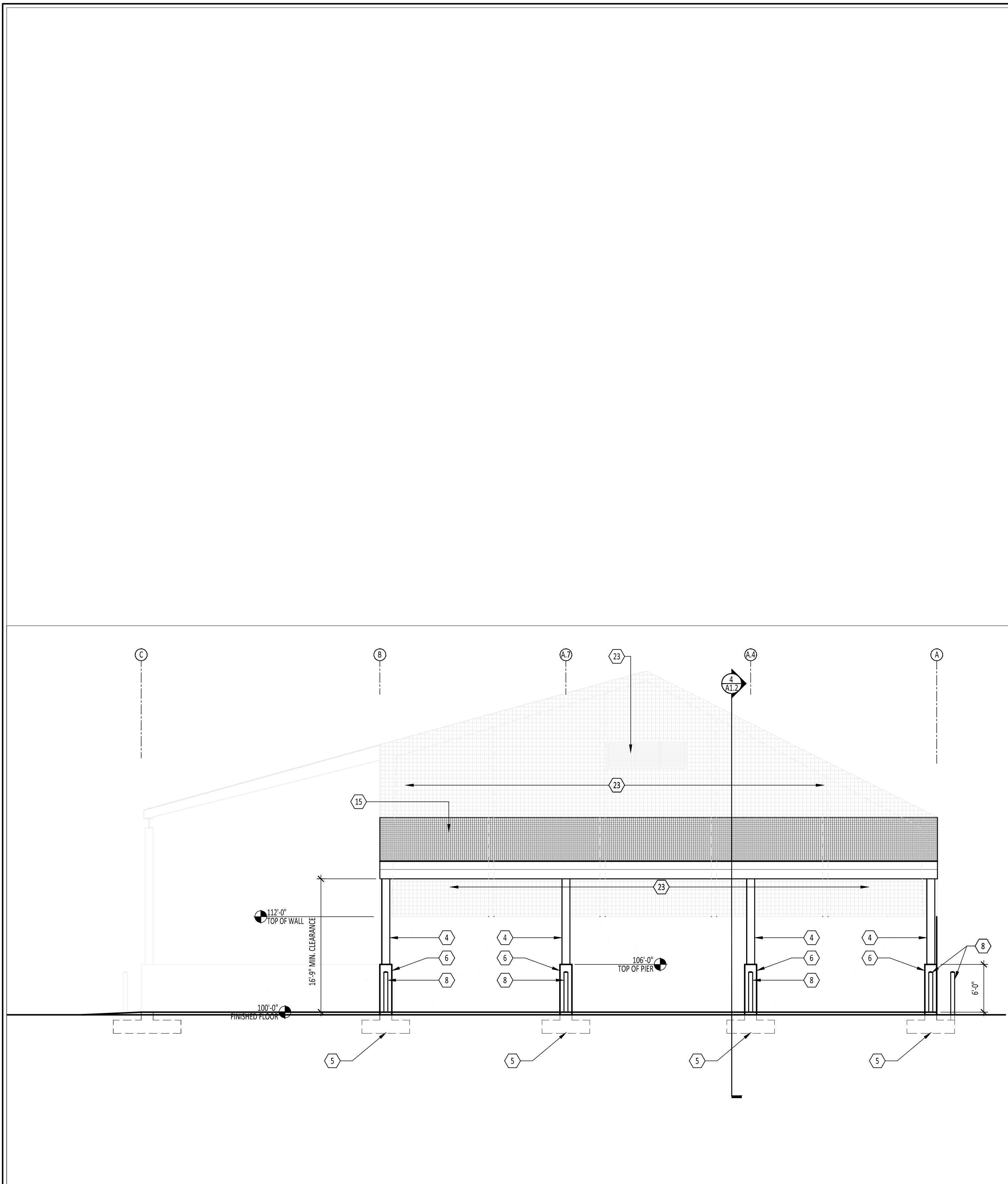
NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
2100 DANTON-REINHOLD ROAD  
BEAVERCREEK, OHIO 43084

ISSUANCES/REVISIONS	
BID DOCUMENTS	10/05/2023

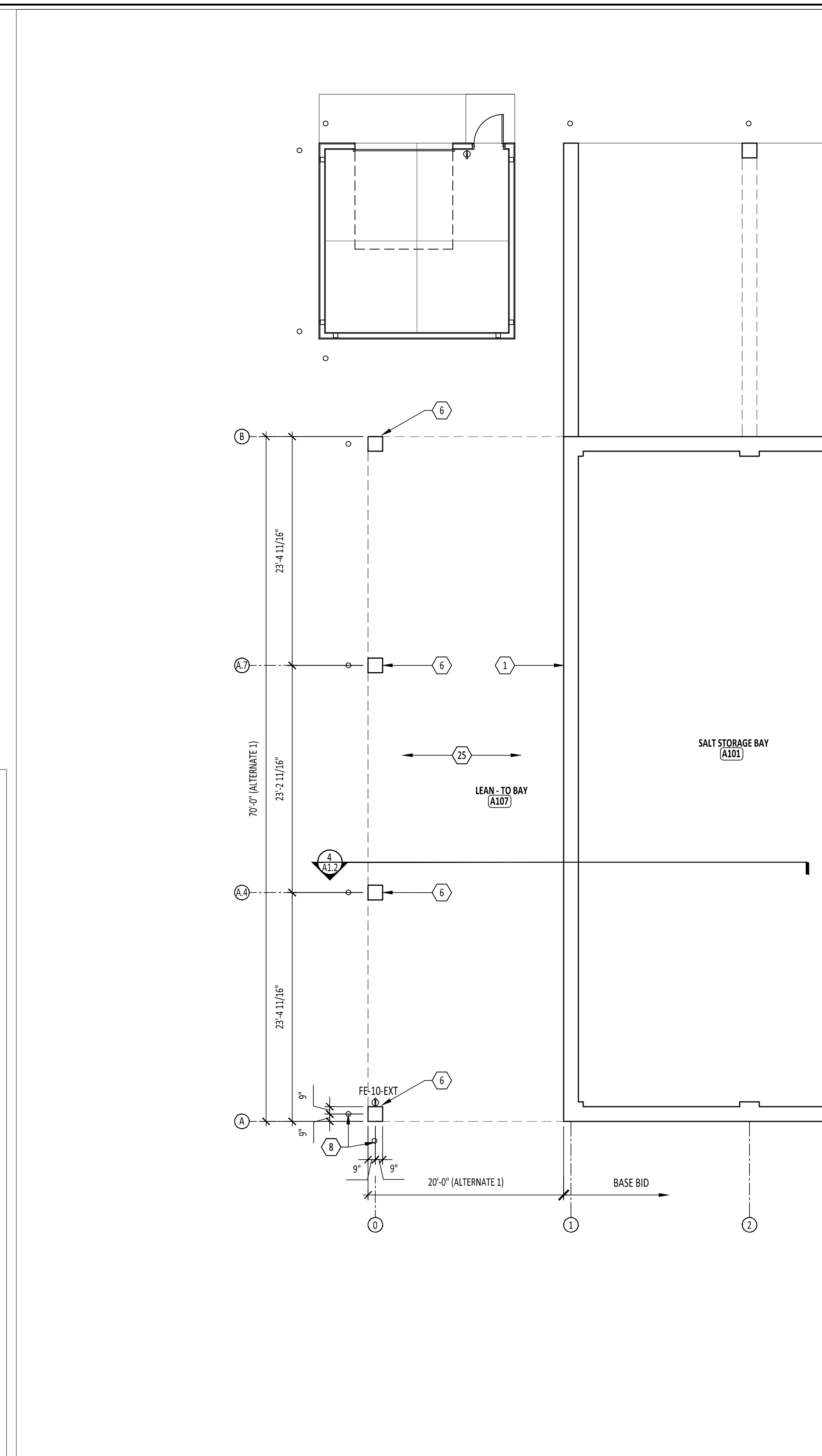
PROJECT NUMBER: <b>21062.00</b>	DRAWN BY: JCR	CHECKED BY: MCN
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SHEET TITLE:  
**FLOOR PLAN**  
**SALT STORAGE BARN**  
**BRINE BUILDING**  
**AND**  
**STORAGE SHED**

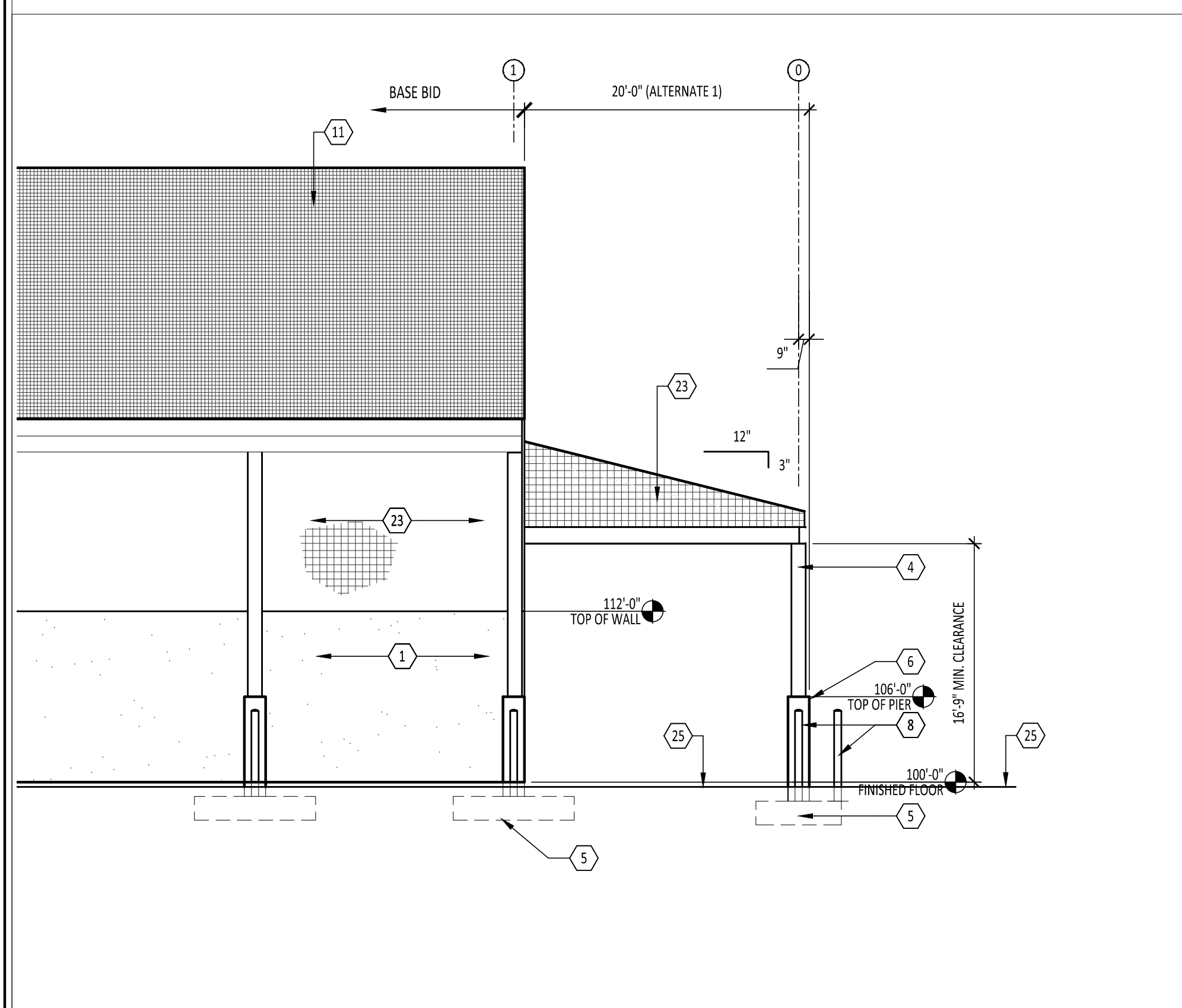
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**A1.1**



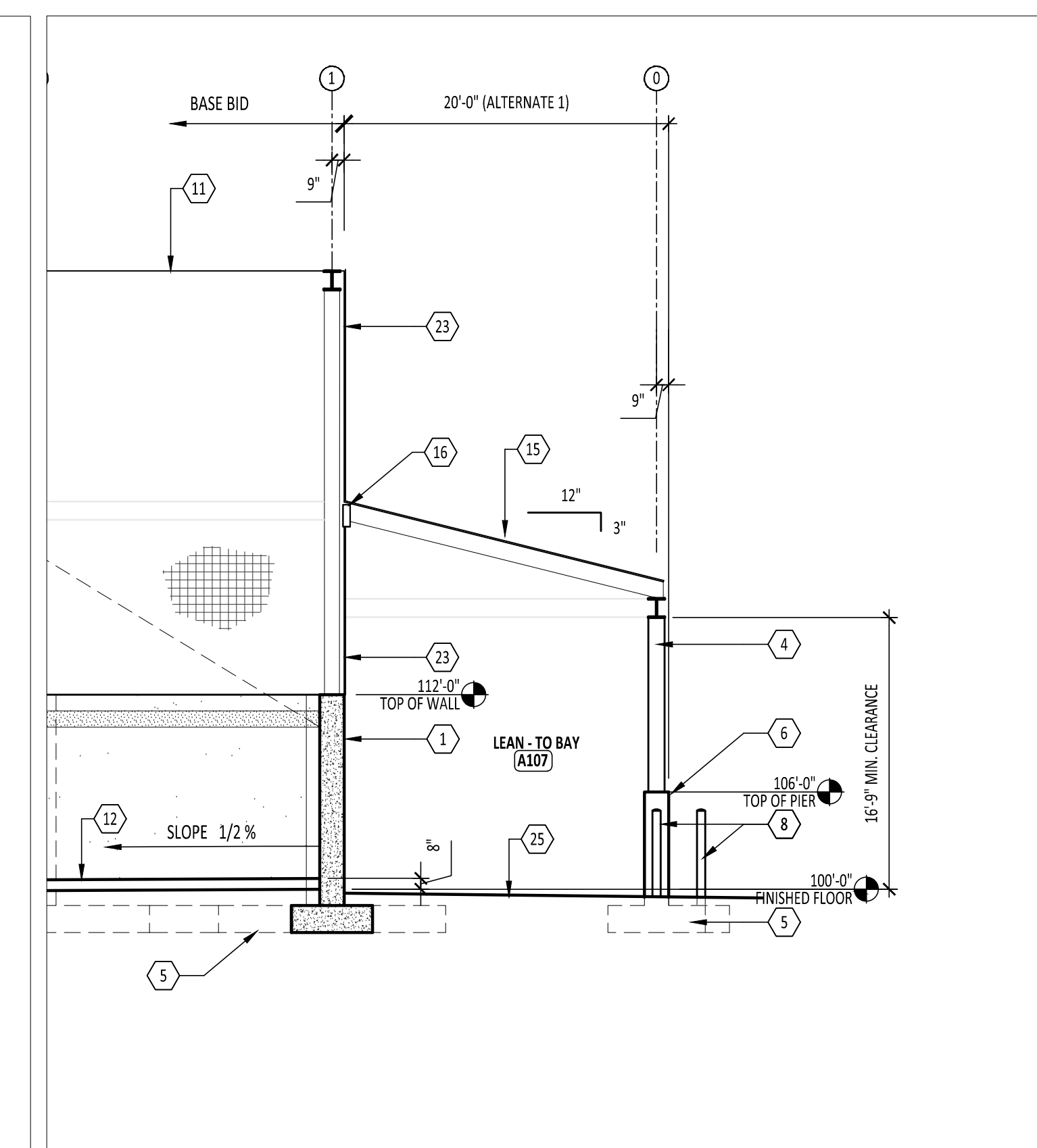
**2** WEST BUILDING ELEVATION (ALTERNATE 1)  
A1.2 1/8" = 1'-0"



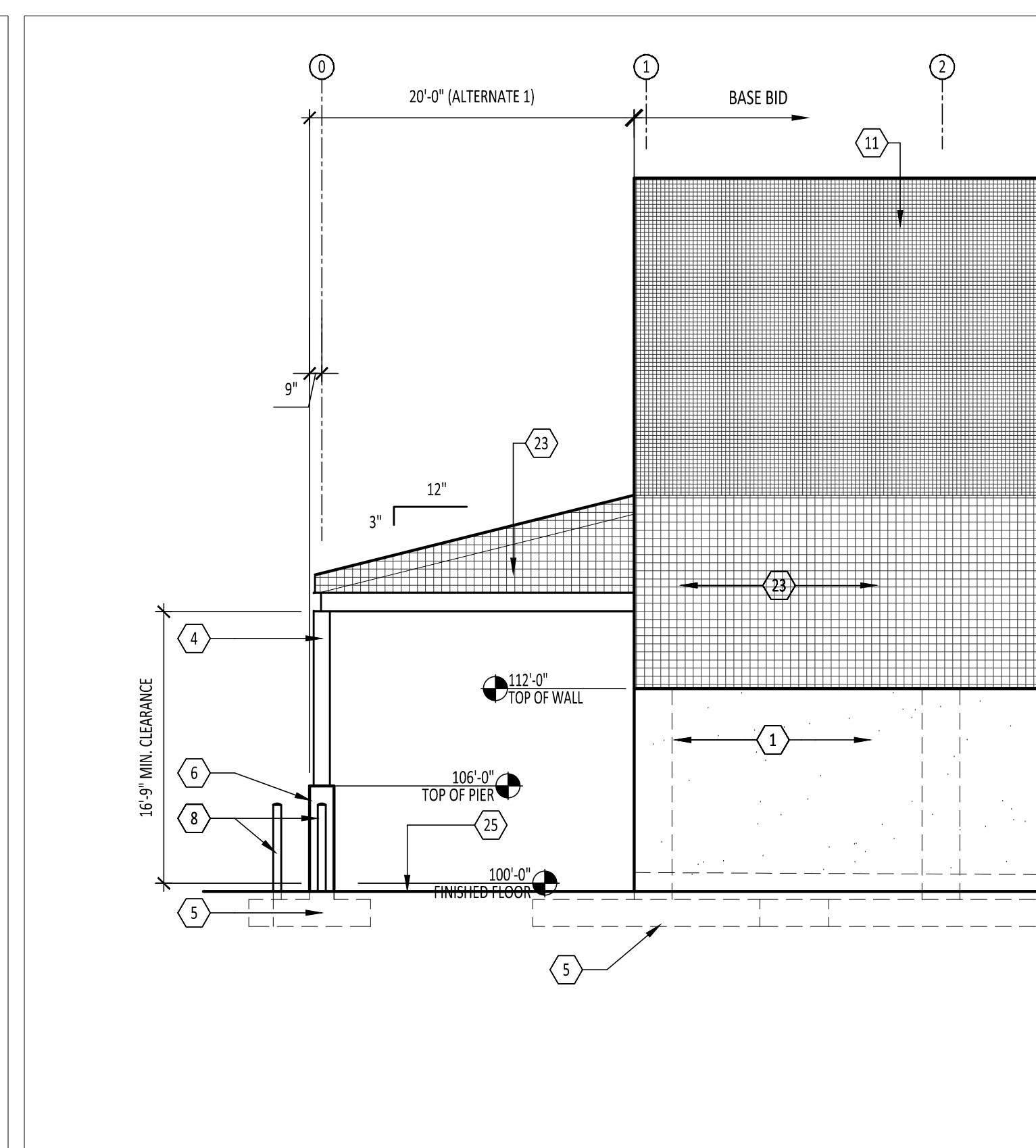
**1** PARTIAL FLOOR PLAN (ALTERNATE 1)  
A1.2 1/8" = 1'-0"



**5** NORTH BUILDING ELEVATION (ALTERNATE 1)  
A1.2 1/8" = 1'-0"



**4** BUILDING SECTION LOOKING SOUTH (ALTERNATE 1)  
A1.2 1/8" = 1'-0"



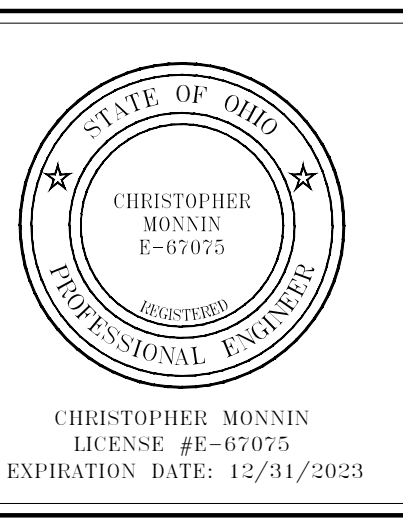
**3** SOUTH BUILDING ELEVATION (ALTERNATE 1)  
A1.2 1/8" = 1'-0"

**FLOOR PLAN LEGEND**

- ① STRUCTURAL GRID REFERENCE - REFERENCE STRUCTURAL SHEETS
- LEVEL LINE
- A101 DOOR DESIGNATION - REFERENCE DOOR/OPENING SCHEDULE ON SHEET A6.1
- X KEYNOTE DESIGNATION - REFERENCE PLAN NOTES ON THIS SHEET
- XXX ROOM DESIGNATION - REFERENCE ROOM INDEX ON THIS SHEET
- FE FIRE EXTINGUISHER - REFERENCE SPEC SECTION 10 400
- SECTION BUILDING SECTION - REFERENCE SECTION ON SHEET INDICATED

ROOM NAME/ NUMBER	
A101	SALT STORAGE BAY
A102	BRINE BAY
A103	MATERIAL STORAGE BAY
A104	STORAGE SHED
A105	ENTRY
A106	MECHANICAL
A107	LEAN TO BAY (ALTERNATE 1)

KEYNOTE SCHEDULE	
#	KEYNOTE DESCRIPTION
1	REINFORCED POURED CONCRETE WALLS - REFERENCE STRUCTURAL DRAWINGS
4	PRE-ENGINEERED STRUCTURAL COLUMN
5	LINE OF CONCRETE FOUNDATION (REFERENCE STRUCTURAL DRAWINGS)
6	REINFORCED POURED CONCRETE BOLLARD BASE; REFERENCE STRUCTURAL DRAWINGS
8	6" BOLLARD (TYPICAL), CENTERLINE OF BOLLARD MINIMUM 1'-6" FROM CONCRETE WALL, REFERENCE DETAIL 6/A2.1
11	PRE-ENGINEERED CLEAR SPAN STEEL RIGID FRAME WITH FABRIC MEMBRANE ROOF BY FABRIC MEMBRANE ROOF MANUFACTURER
12	CONCRETE FLOOR SLAB ON GRADE - REFERENCE STRUCTURAL DRAWINGS
15	PRE-ENGINEERED LEAN-TO STEEL FRAME WITH FABRIC MEMBRANE ROOF BY FABRIC MEMBRANE ROOF MANUFACTURER
16	CONTINUOUS STEEL FRAMING FOR LEAN-TO ROOF SUPPORT BY FABRIC MEMBRANE ROOF MANUFACTURER
22	PROVIDE AIR PRESSURE/WIND VENTILATION AS REQUIRED BY FABRIC MEMBRANE ROOF MANUFACTURER
23	ELEVATION SHALL BE CLOSED WITH INFILL FRAMING AND FABRIC MEMBRANE
25	EXTERIOR PAVEMENT, SLOPE TO DRAIN - REFERENCE CIVIL DRAWINGS



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 2380 DANTON-BEHAL ROAD  
 BEAVERCREEK, OHIO 43084

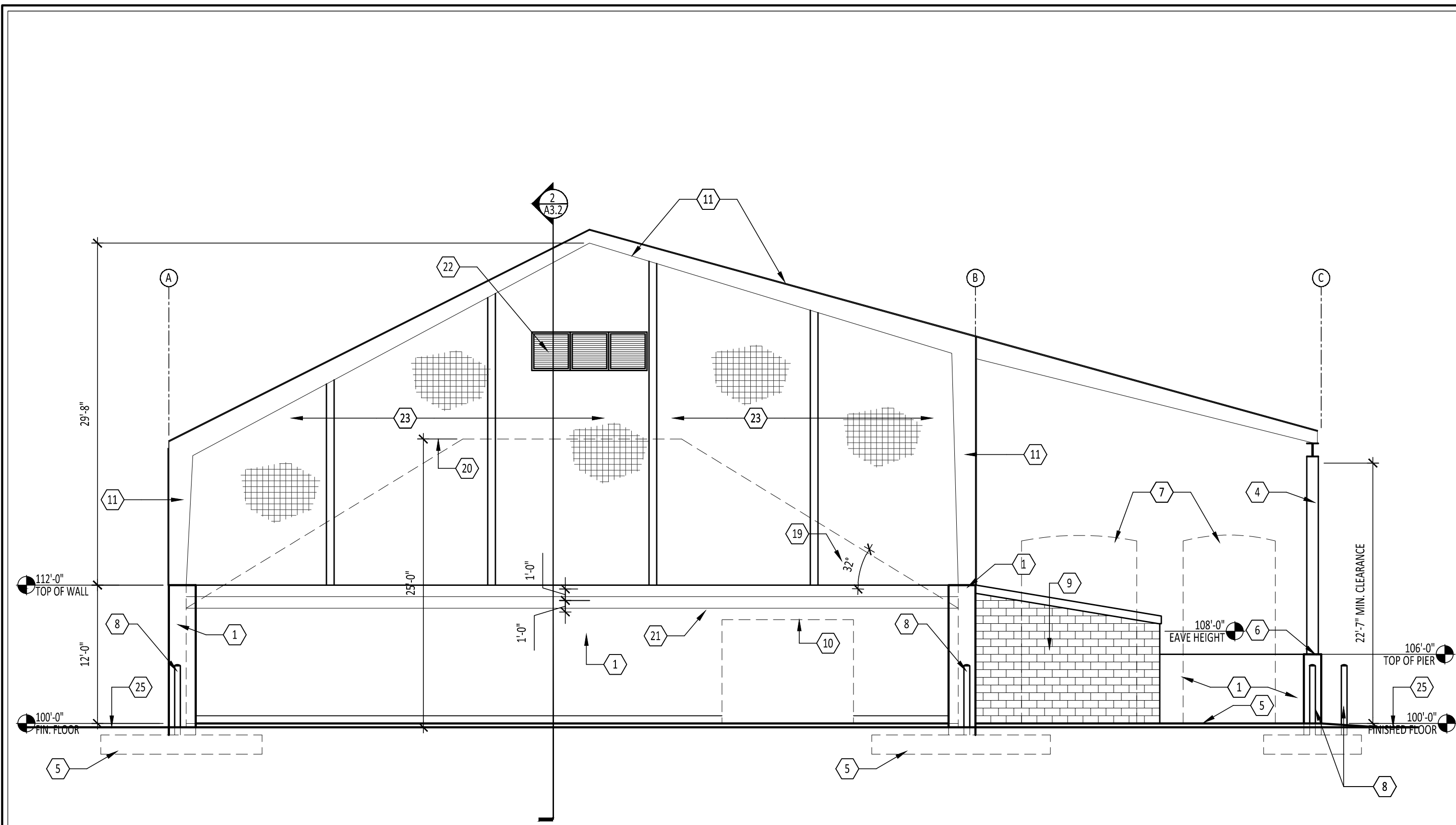
**ISSUANCES/REVISIONS**

BID DOCUMENTS	10/05/2023
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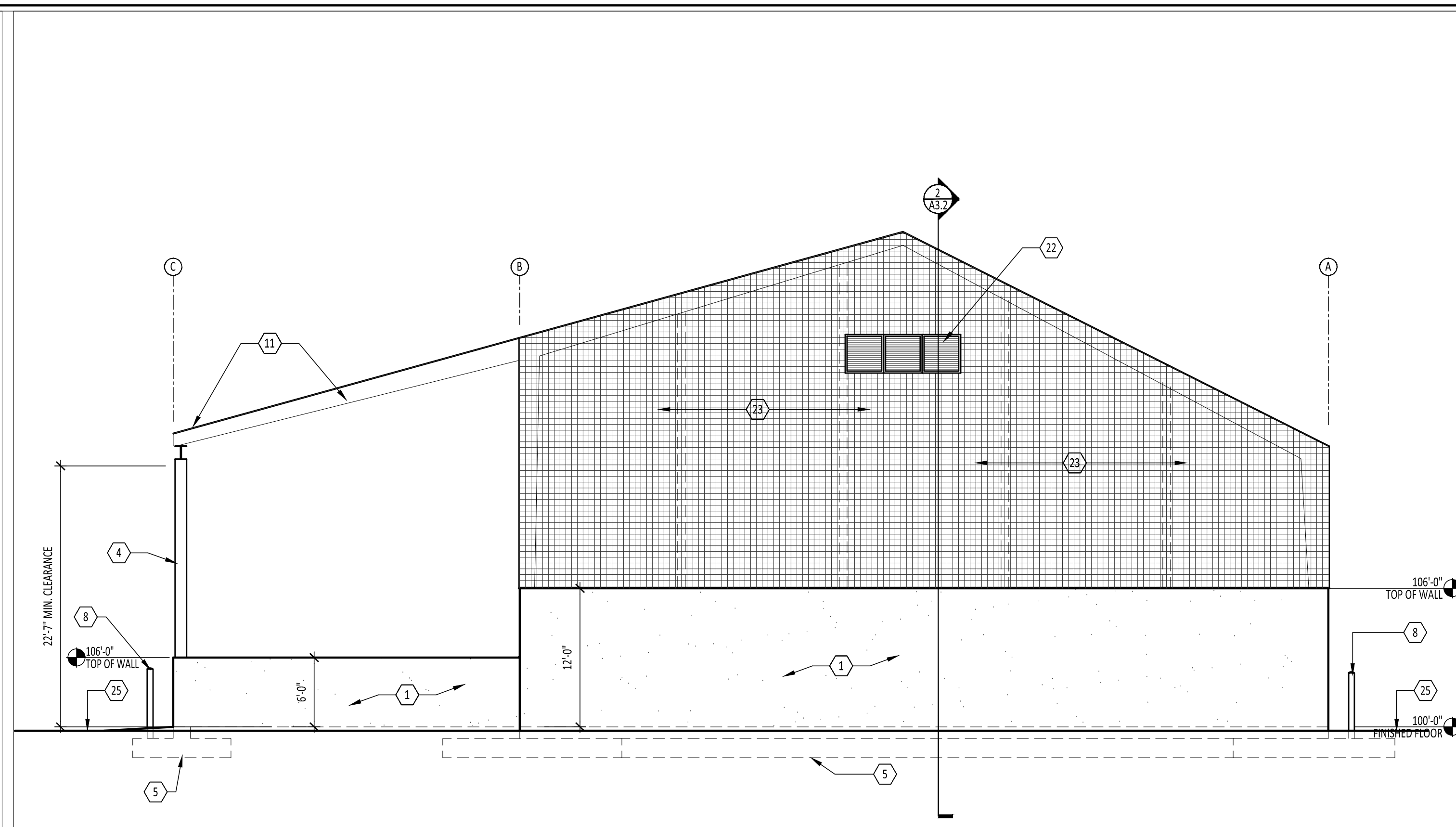
PROJECT NUMBER: <b>21062.00</b>	DRAWN BY: JCR	CHECKED BY: MCN
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SHEET TITLE:  
**SALT STORAGE BARN**  
**LEAN TO**  
**ALTERNATE 1**

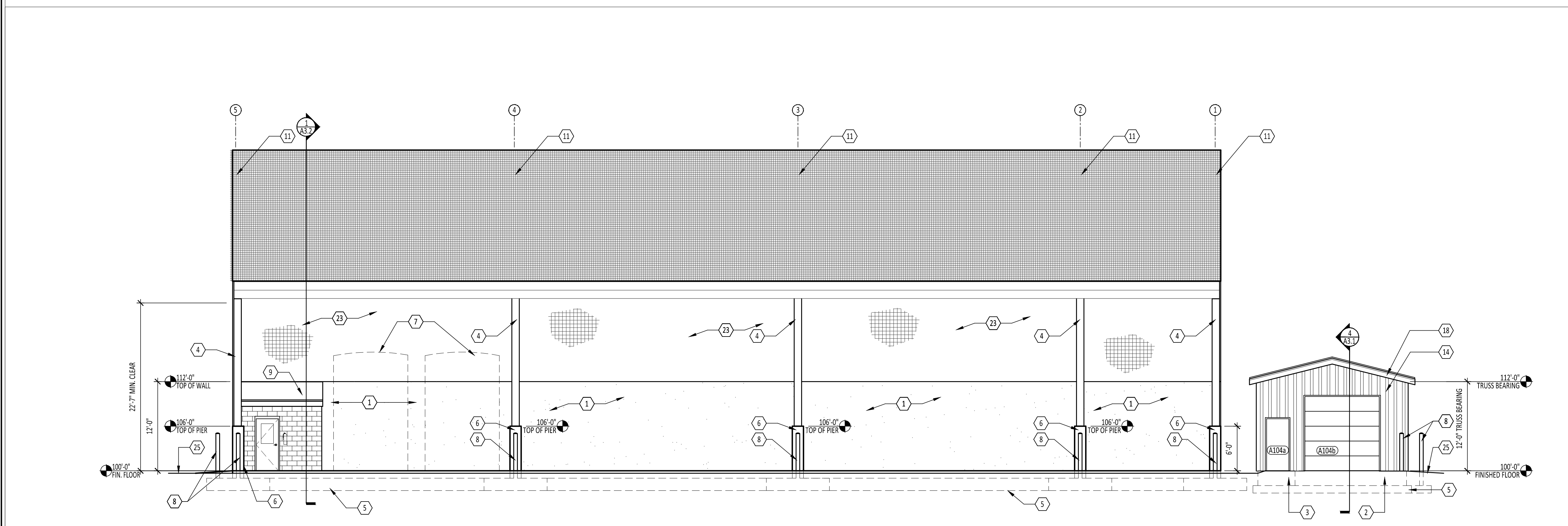
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**A1.2**



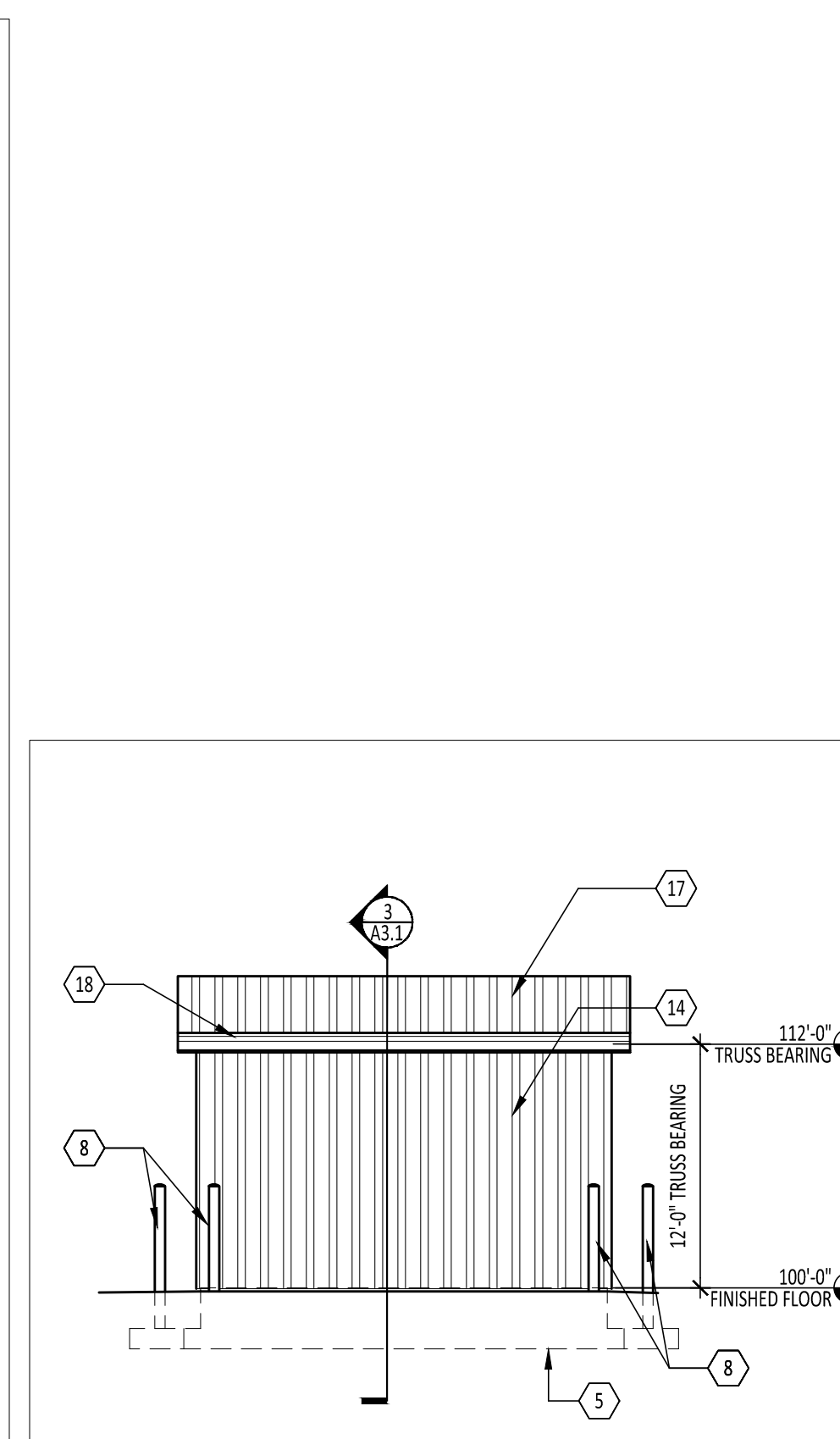
**1 EAST ELEVATION SALT STORAGE BUILDING (BASE BID)**  
A2.1  
1/8" = 1'-0"



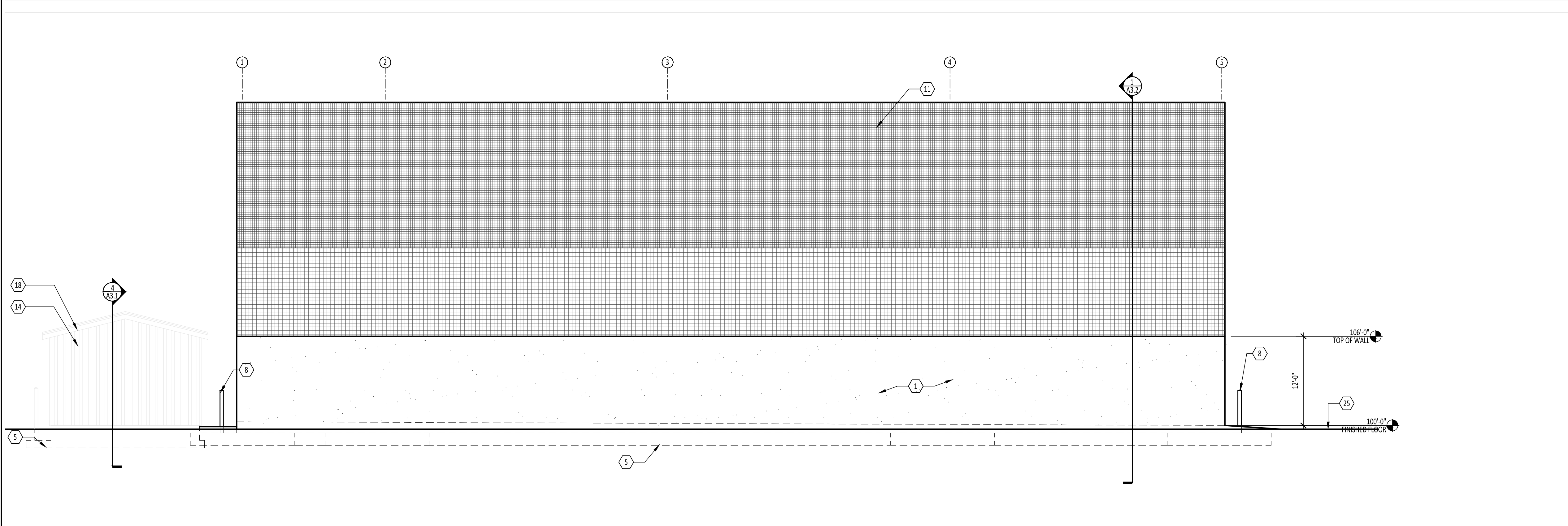
**2 WEST ELEVATION SALT STORAGE BUILDING (BASE BID)**  
A2.1  
1/8" = 1'-0"



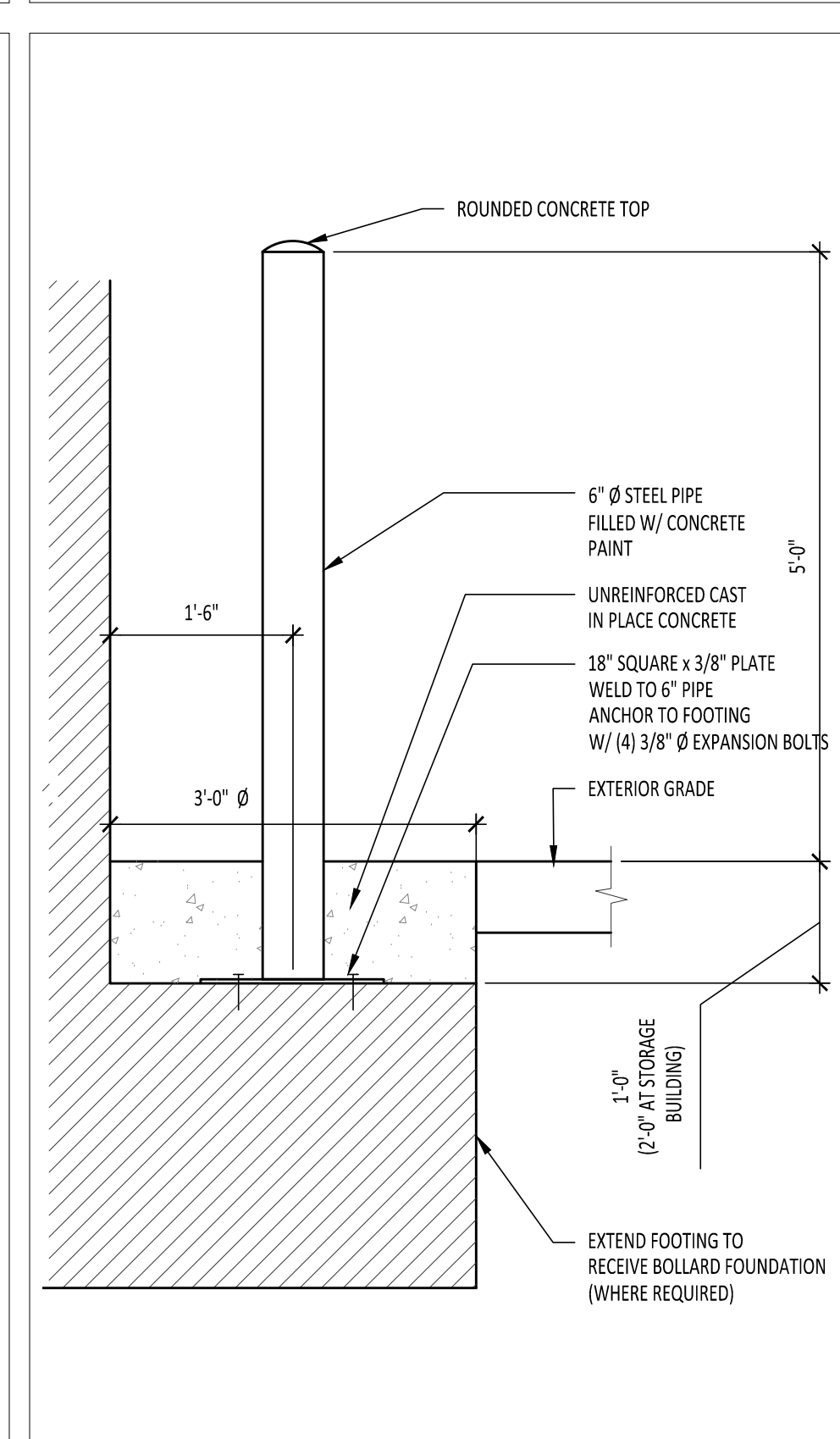
**3 NORTH ELEVATION (SALT STORAGE BUILDING AND STORAGE SHED)**  
A2.1  
1/8" = 1'-0"



**5 WEST ELEVATION (STORAGE BUILDING)**  
A2.1  
1/8" = 1'-0"



**4 SOUTH ELEVATION (SALT STORAGE BUILDING (BASE BID) AND STORAGE SHED)**  
A2.1  
1/8" = 1'-0"



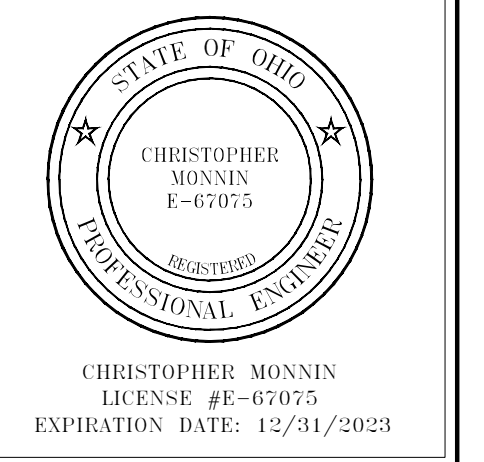
**6 BOLLARD DETAIL**  
A2.1  
1/8" = 1'-0"

**FLOOR PLAN LEGEND**

- ① STRUCTURAL GRID REFERENCE - REFERENCE STRUCTURAL SHEETS
- LEVEL LINE
- A101 DOOR DESIGNATION - REFERENCE DOOR/OPENING SCHEDULE ON SHEET A6.1
- X KEYNOTE DESIGNATION - REFERENCE PLAN NOTES ON THIS SHEET
- XXX ROOM DESIGNATION - REFERENCE ROOM INDEX ON THIS SHEET
- FE FIRE EXTINGUISHER - REFERENCE SPEC SECTION 10.4400
- BUILDING SECTION - REFERENCE SECTION ON SHEET INDICATED

ROOM NAME/ NUMBER
A101 SALT STORAGE BAY
A102 BRINE BAY
A103 MATERIAL STORAGE BAY
A104 STORAGE SHED
A105 ENTRY
A106 MECHANICAL
A107 LEAN TO BAY (ALTERNATE 3)

#	KEYNOTE DESCRIPTION
1	REINFORCED POURED CONCRETE WALLS - REFERENCE STRUCTURAL DRAWINGS
2	CONCRETE APRON - REFERENCE STRUCTURAL DRAWINGS
3	ANTI-HEAVE CONCRETE STOOP - REFERENCE STRUCTURAL DRAWINGS
4	PRE-ENGINEERED STRUCTURAL COLUMN
5	LINE OF CONCRETE FOUNDATION (REFERENCE STRUCTURAL DRAWINGS)
6	REINFORCED POURED CONCRETE COLUMN BASE; REFERENCE STRUCTURAL DRAWINGS
7	BRINE TANKS, BY OWNER - RELOCATE FROM EXISTING LOCATIONS
8	6" BOLLARD (TYPICAL) CENTERING OF BOLLARD MINIMUM 3'-6" FROM CONCRETE WALL. REFERENCE DETAIL 6/A2.1
9	NEW BRINE BUILDING - REFERENCE SECTIONS AND DETAILS
10	BRINE MIX STATION, BY OWNER - RELOCATE FROM EXISTING LOCATION
11	PRE-ENGINEERED CLEAR SPAN STEEL RIGID FRAME WITH FABRIC MEMBRANE ROOF BY FABRIC MEMBRANE ROOF MANUFACTURER
12	CONCRETE FLOOR SLAB ON GRADE (SLOPE TO DRAIN); REFERENCE STRUCTURAL DRAWINGS
14	26 GA. PRE-FINISHED METAL SIDING OVER 1/2" PLYWOOD OVER 2 x 6 WOOD STUD FRAMING @ 16" O.C. - REFERENCE STRUCTURAL DRAWINGS
17	26 GA. PRE-FINISHED METAL ROOFING OVER ROOF SHEATHING OVER PRE-ENGINEERED WOOD TRUSSES @ 24" O.C. - REFERENCE STRUCTURAL DRAWINGS
18	METAL CLAD 2" FASOIA WITH CONTINUOUS DRIP EDGE
19	ANGLE OF REPOSE FOR ROAD SALT
20	MAXIMUM HEIGHT OF SALT PILE
21	"MAX FILL" WARNING PAINT STRIPE, SHALL EXTEND ENTIRE INSIDE PERIMETER OF STRUCTURE
22	PROVIDE AIR PRESSURE/WIND VENTILATION AS REQUIRED BY FABRIC MEMBRANE ROOF MANUFACTURER
23	SALT STORAGE BAY WALLS SHALL BE CLOSED WITH INRILL FRAMING AND FABRIC MEMBRANE
25	EXTERIOR PAVEMENT, SLOPE TO DRAIN - REFERENCE CIVIL DRAWINGS



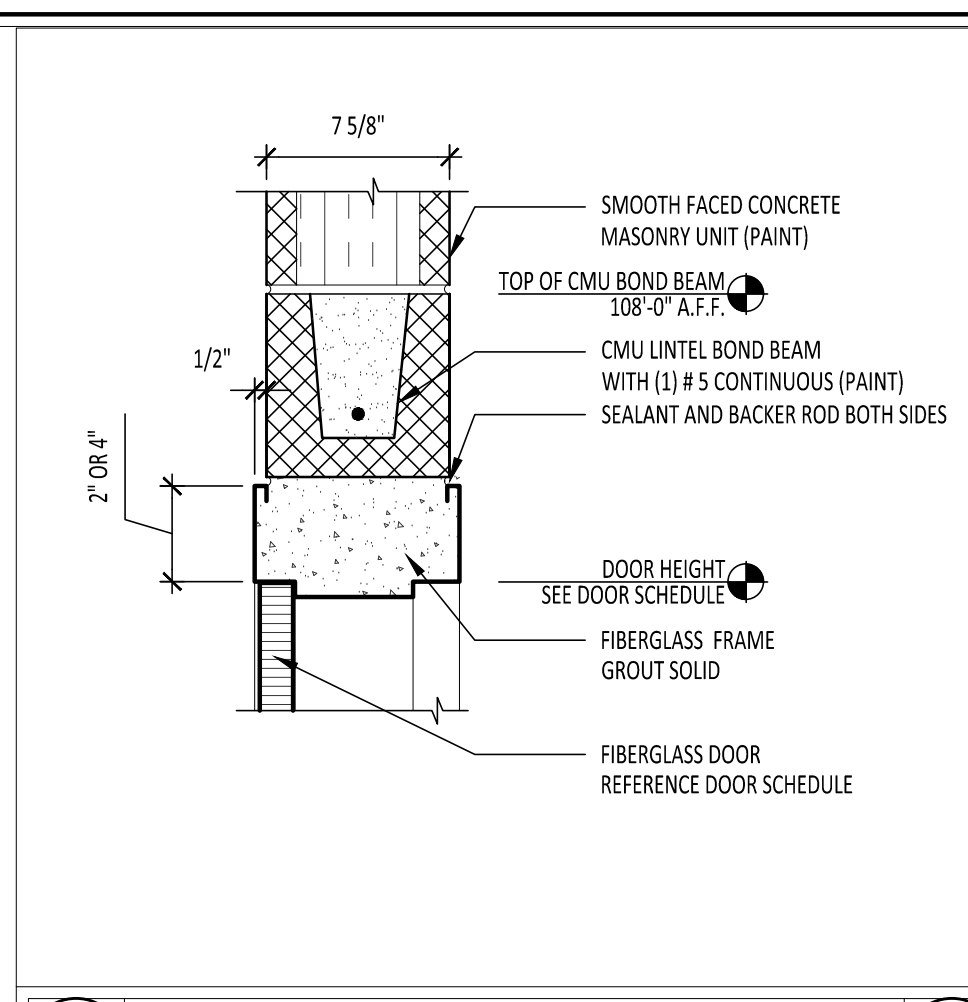
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 BEAVERCREEK, OHIO 45424  
 2160 DANTON/KENNA ROAD

ISSUANCES/REVISIONS
BID DOCUMENTS 10/05/2023

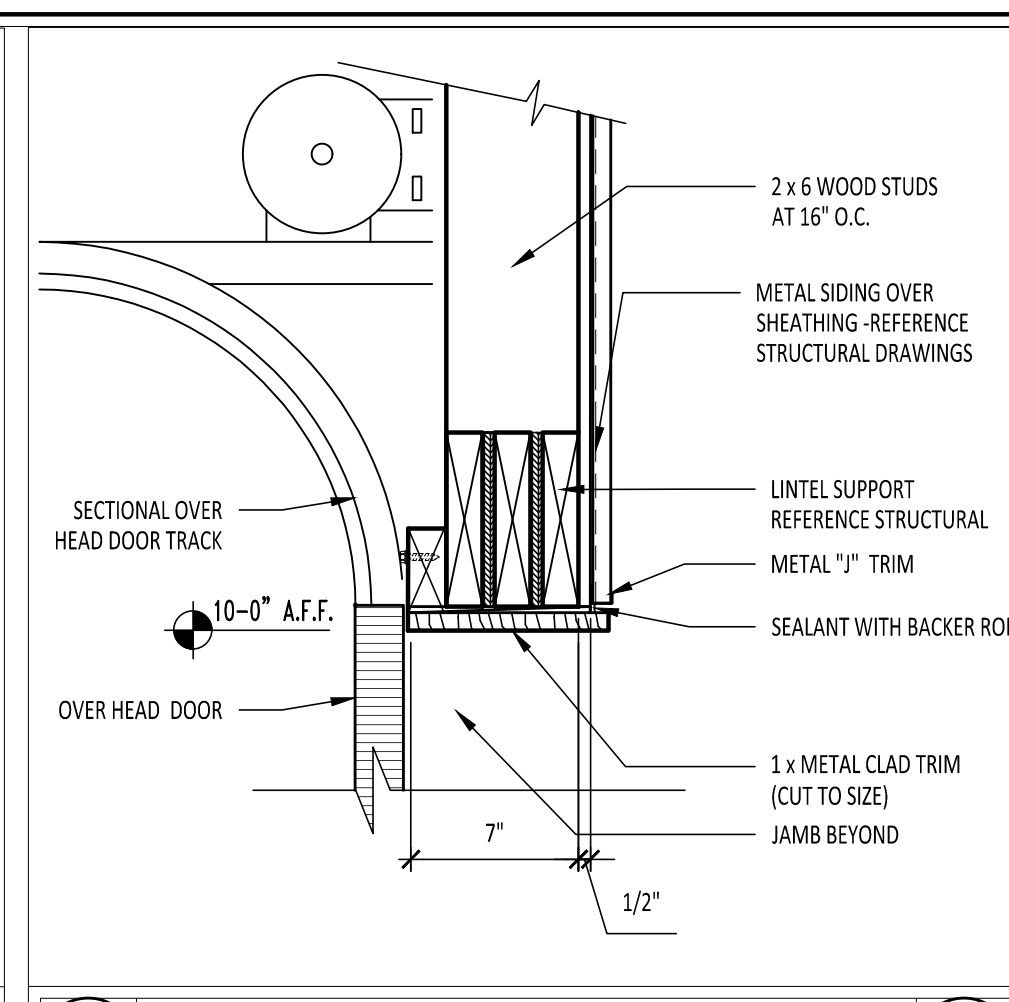
PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
21062.00	JCR	MCN

SHEET TITLE:  
**BUILDING ELEVATIONS**

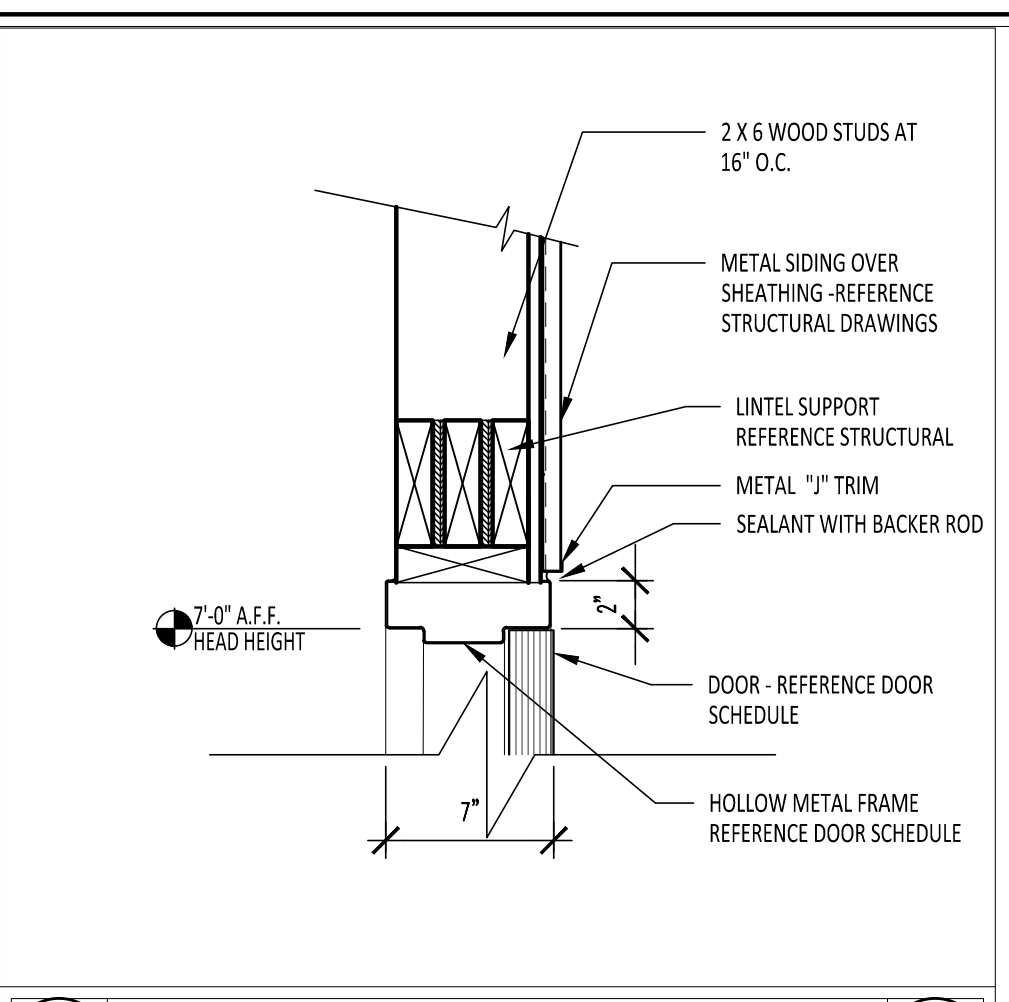
SHEET NUMBER:  
**A2.1**



14 DOOR HEAD DETAIL  
A3.1 1 1/2" = 1'-0"



8 OVER HEAD DOOR HEAD DETAIL  
A3.1 1 1/2" = 1'-0"



5 EXTERIOR DOOR HEAD DETAIL  
A3.1 1 1/2" = 1'-0"

DOOR SCHEDULE

NUMBER	SIZE	DOOR		FRAME		DETAIL NUMBER			HARDWARE SET	FIRE RATING	ROOM KEY SIDE	
		MATL	TYPE	MATL	TYPE	HEAD	JAMB	SILL				
A104a	3'-0" x 7'-0" x 1 1/2"	HM	F	7"	HM	1	-	5	6	7	1	EXT
A104b	10'-0" x 10'-0"	STL	OHD	-	STL	-	-	8	9	10	-	EXT
A105	3'-0" x 7'-0" x 1 1/2"	FG	HG	7"	FG	2	-	14	15	16	1	EXT
A106	3'-0" x 7'-0" x 1 1/2"	FG	F	7"	FG	1	-	14	15	22	2	A105

DOOR / OPENING ABBREVIATIONS:  
 STL STEEL  
 FLUSH  
 HM HOLLOW METAL  
 FG FIBER GLASS  
 OHD OVER HEAD DOOR

FRAME ABBREVIATIONS:  
 1. (3) HINGES, (1) - RIM PANIC W/ LEVER HANDLE ON EXTERIOR, (1) CLOSER W/ O.H. STOP, (1) THRESHOLD, (1) WEATHER STRIPPING, (1) DOOR SWEEP  
 2. (3) HINGES, (1) - STORAGE LOCKSET W/ LEVER HANDLE ON EXTERIOR, (1) CLOSER W/ O.H. STOP

1 DOOR SCHEDULE  
NO SCALE

FLOOR PLAN LEGEND

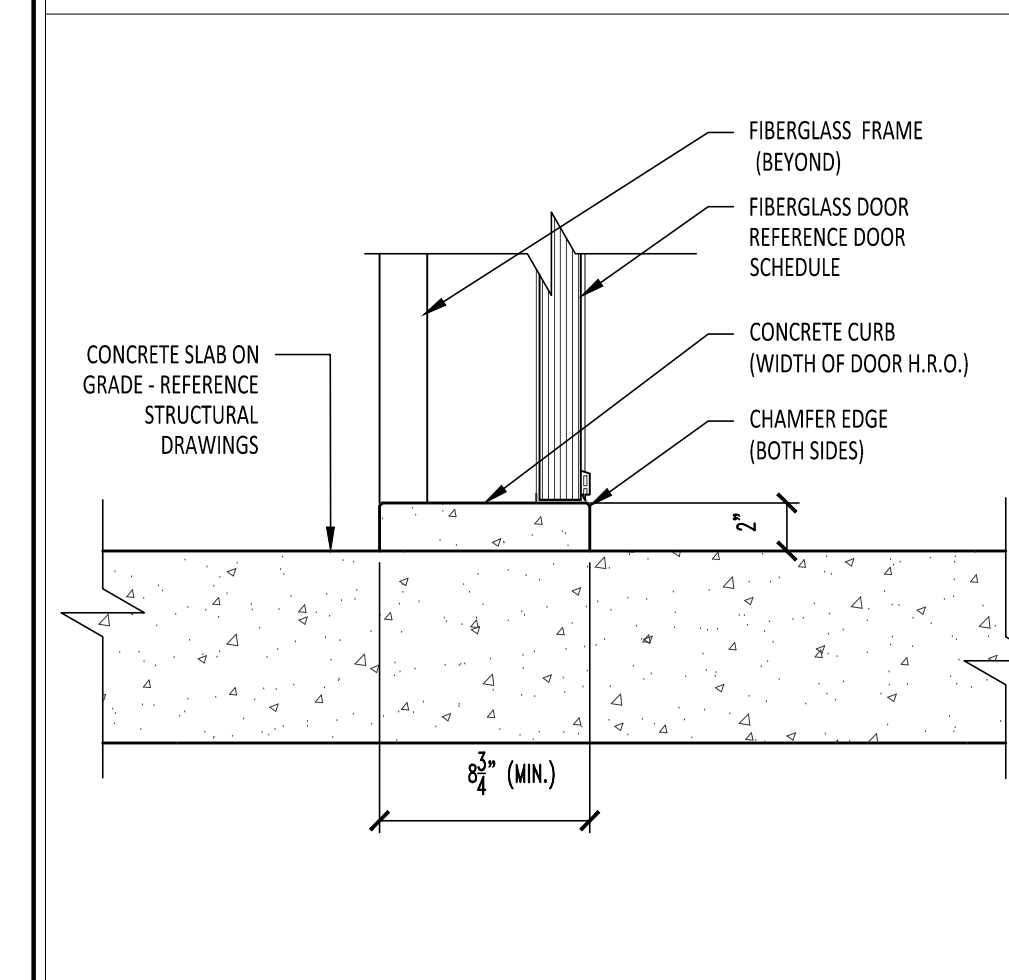
- 1 STRUCTURAL GRID REFERENCE - REFERENCE STRUCTURAL SHEETS
- LEVEL LINE
- A101 DOOR DESIGNATION - REFERENCE DOOR/OPENING SCHEDULE ON SHEET A3.1
- X KEYNOTE DESIGNATION - REFERENCE PLAN NOTES ON THIS SHEET
- XXX ROOM DESIGNATION - REFERENCE ROOM INDEX ON THIS SHEET
- FE- FIRE EXTINGUISHER - REFERENCE SPEC SECTION 10 4000
- SECTION BUILDING SECTION - REFERENCE SECTION ON SHEET INDICATED

ROOM NAME / NUMBER

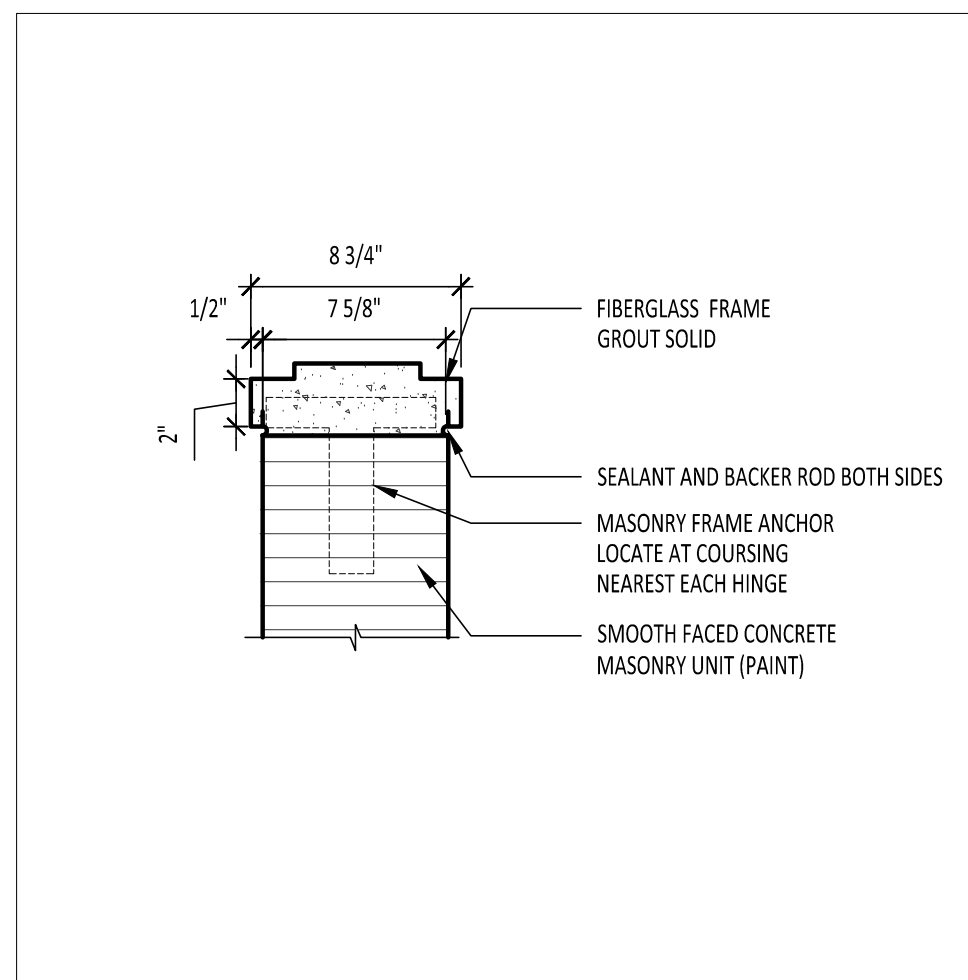
A101	SALT STORAGE BAY
A102	BRINE BAY
A103	MATERIAL STORAGE BAY
A104	STORAGE SHED
A105	ENTRY
A106	MECHANICAL
A107	LEAN TO BAY (ALTERNATE 1)

KEYNOTE SCHEDULE

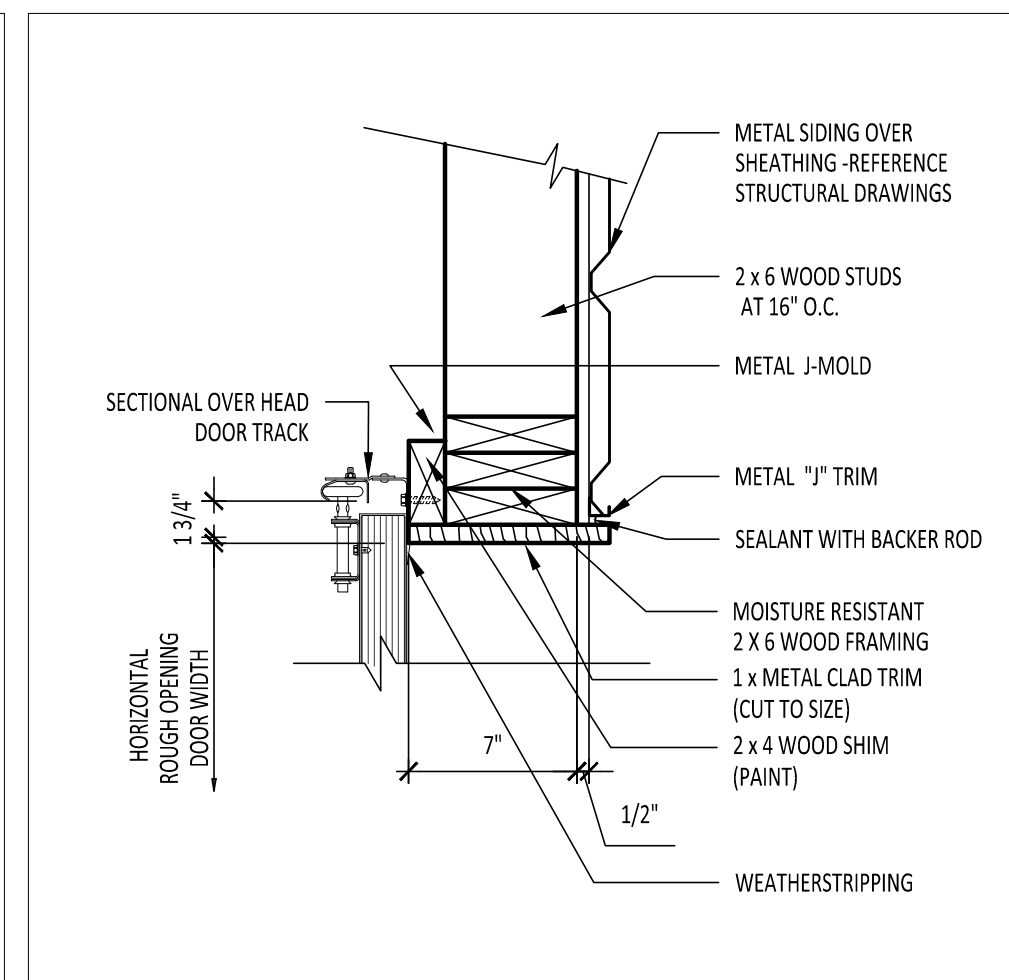
#	KEYNOTE DESCRIPTION
2	CONCRETE APRON - REFERENCE STRUCTURAL DRAWINGS
5	LINE OF CONCRETE FOUNDATION - REFERENCE STRUCTURAL DRAWINGS
12	CONCRETE FLOOR SLAB ON GRADE (SLOPE TO DRAIN) - REFERENCE STRUCTURAL DRAWINGS
14	26 GA. PRE-FINISHED METAL SIDING OVER 1/2" PLYWOOD OVER 2 x 6 WOOD STUD FRAMING @ 16" O.C. - REFERENCE STRUCTURAL DRAWINGS
17	26 GA. PRE-FINISHED METAL ROOFING OVER ROOF SHEATHING OVER PRE-ENGINEERED WOOD TRUSSES @ 24" O.C. - REFERENCE STRUCTURAL DRAWINGS
18	METAL CLAD 2 x FASCIA WITH CONTINUOUS DRIP EDGE
25	EXTERIOR PAVEMENT, SLOPE TO DRAIN - REFERENCE CIVIL DRAWINGS
26	STEEL STRAP CROSS BRACING - REFERENCE STRUCTURAL DRAWINGS
27	6 x 6 HOLD DOWN POST - REFERENCE STRUCTURAL DRAWINGS



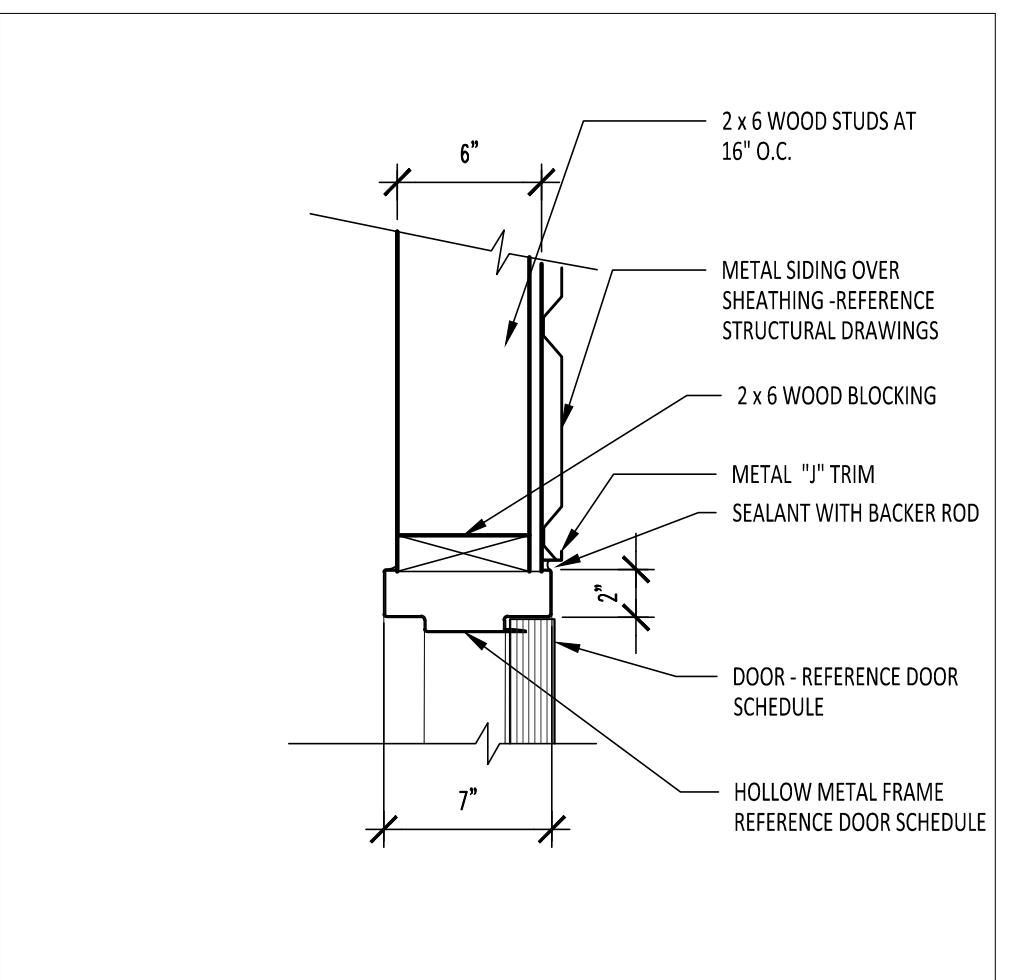
22 INTERIOR DOOR SILL DETAIL  
A3.1 1 1/2" = 1'-0"



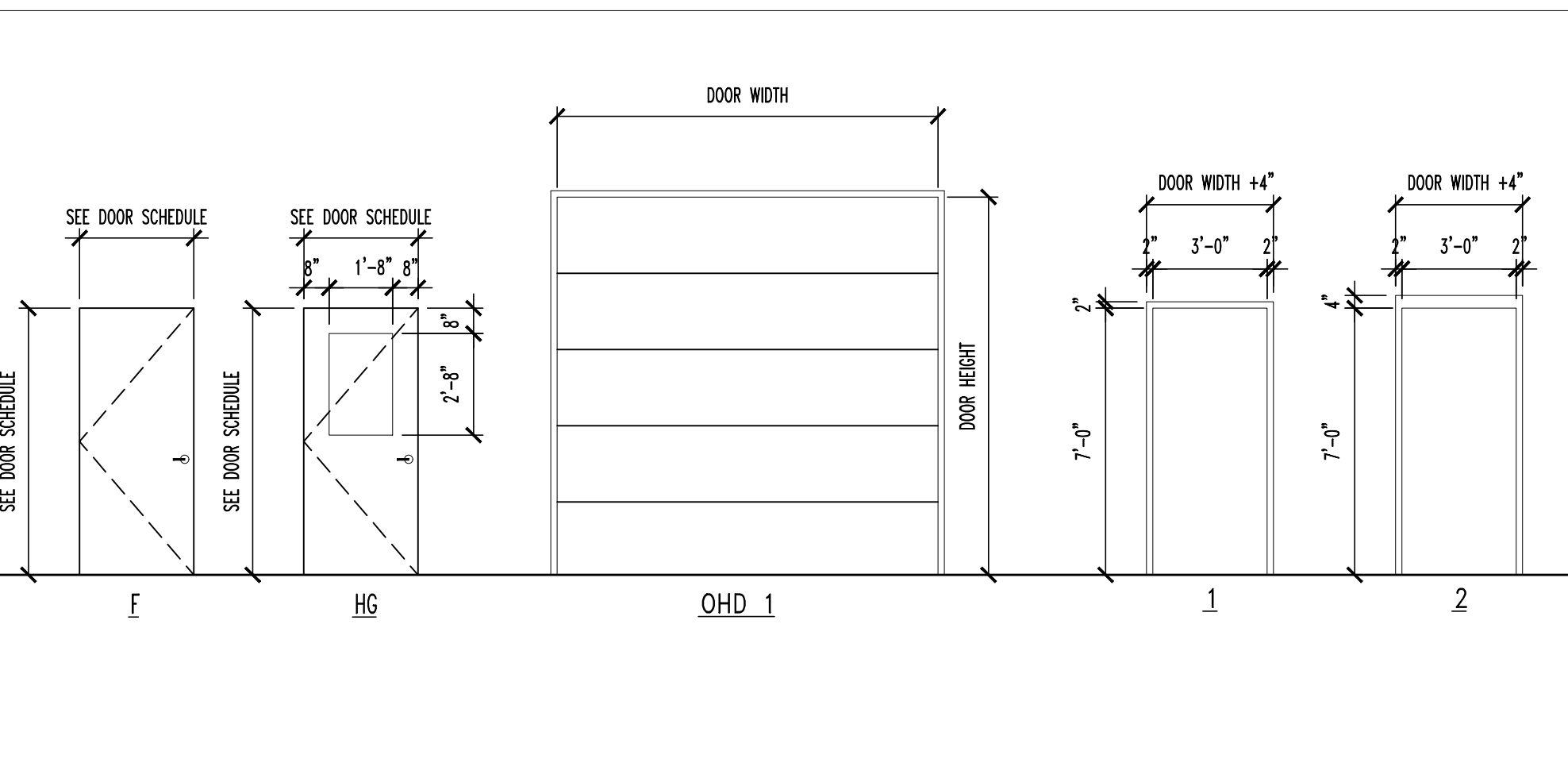
15 DOOR JAMB DETAIL  
A3.1 1 1/2" = 1'-0"



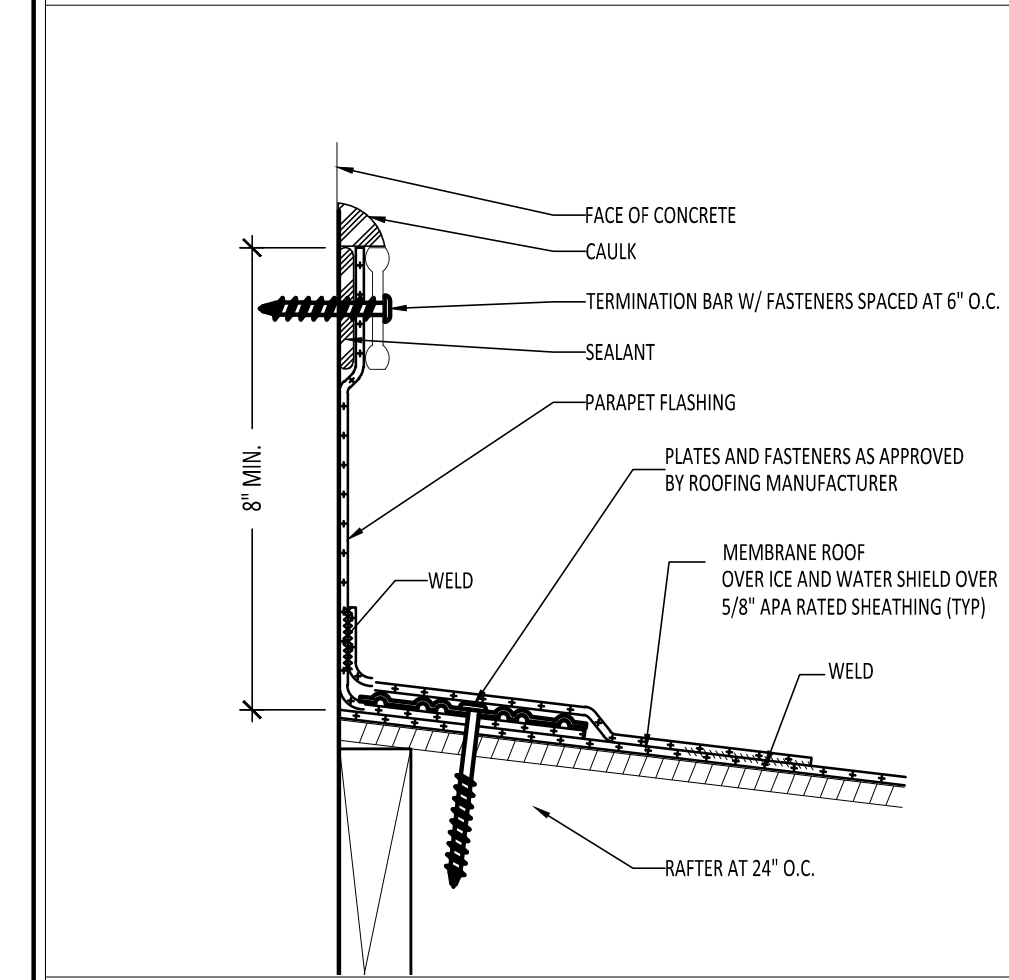
9 OVERHEAD DOOR JAMB DETAIL  
A3.1 1 1/2" = 1'-0"



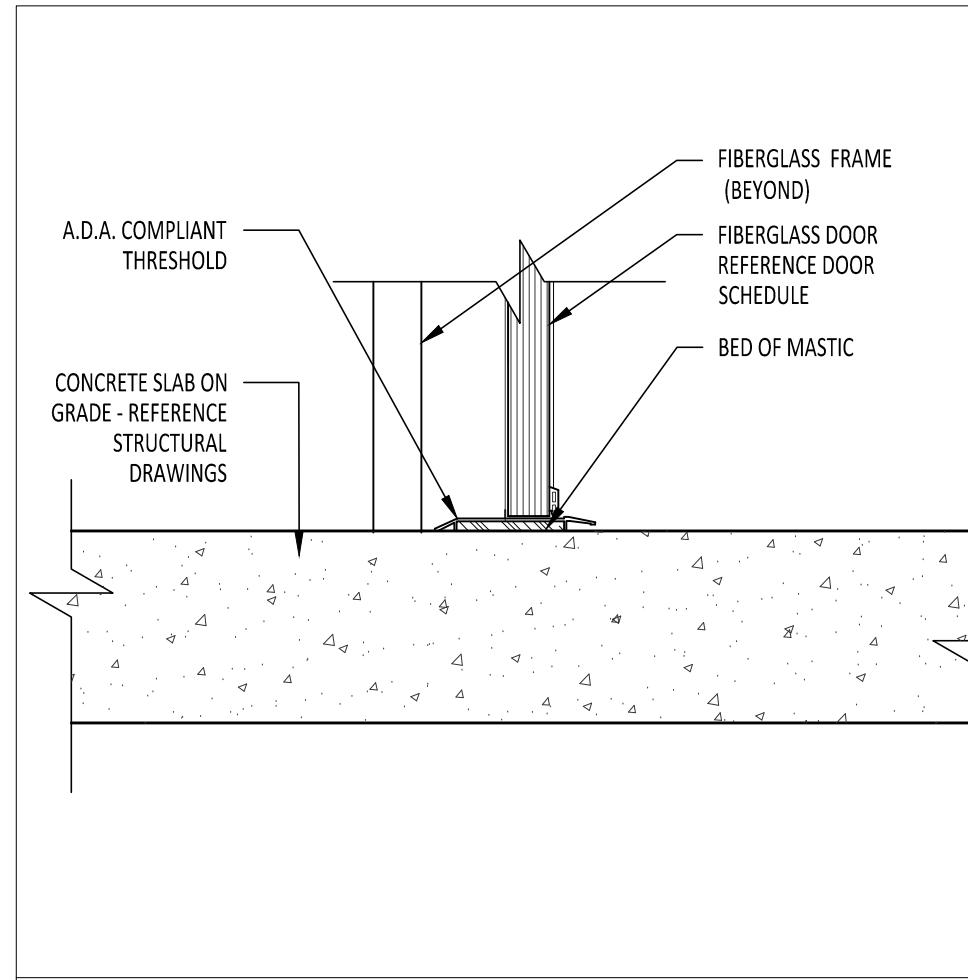
6 EXTERIOR DOOR JAMB DETAIL  
A3.1 1 1/2" = 1'-0"



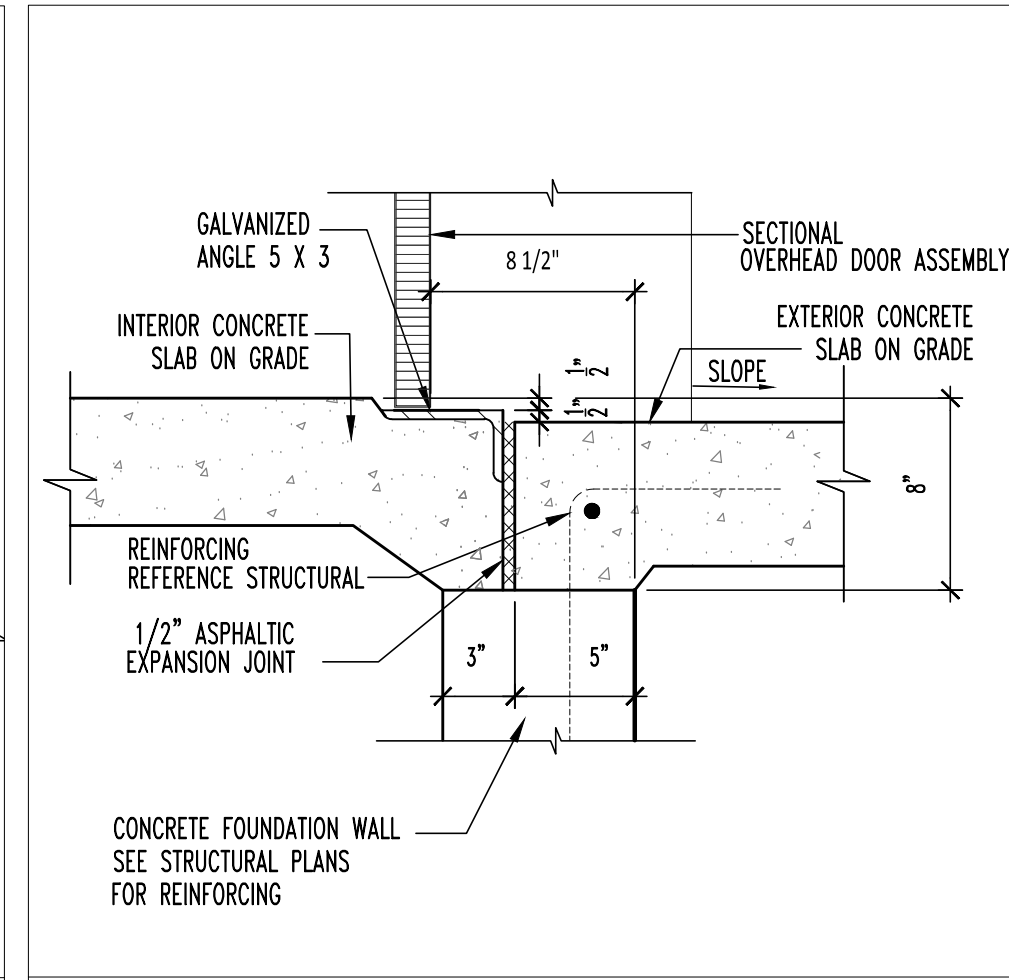
2 DOOR AND FRAME TYPES  
A3.1 1/4" = 1'-0"



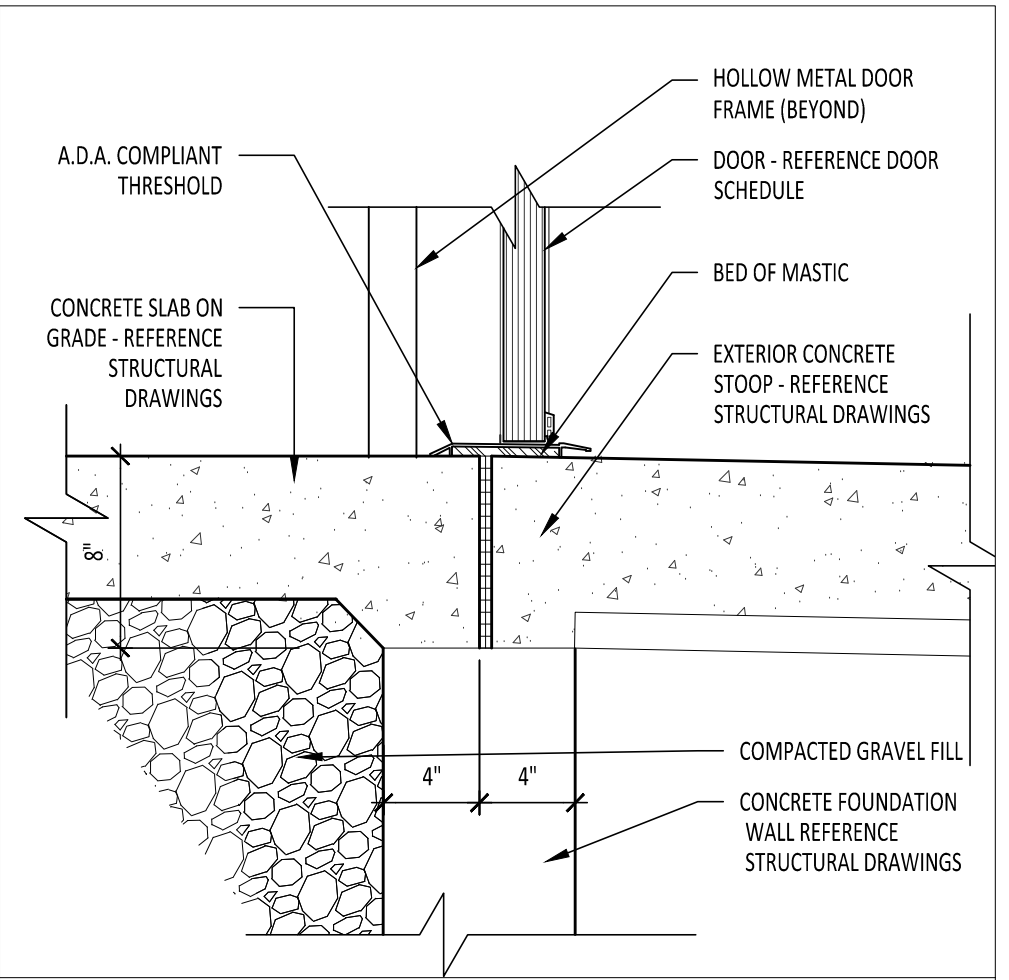
21 DETAIL  
A3.1 1" = 1'-0"



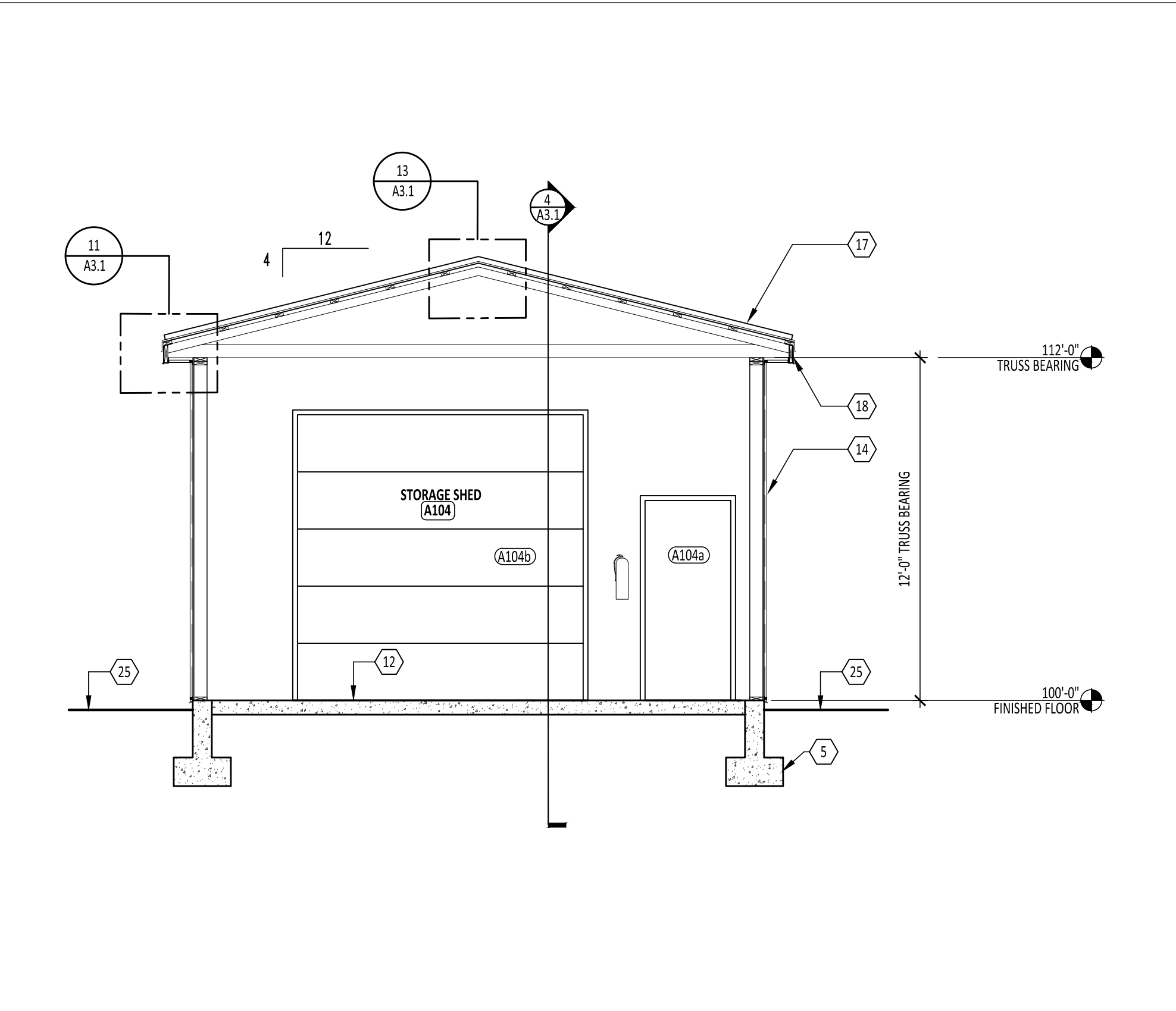
16 EXTERIOR DOOR SILL DETAIL  
A3.1 1 1/2" = 1'-0"



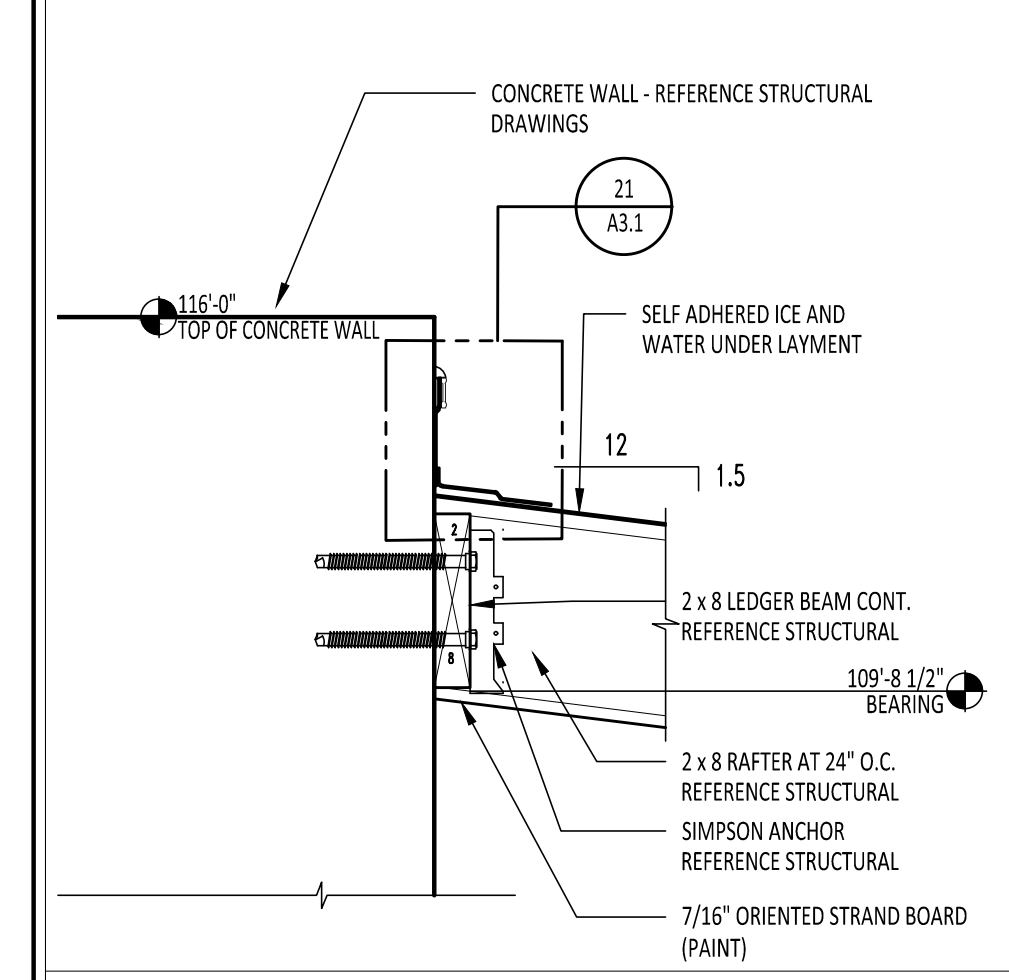
10 EXTERIOR OVERHEAD DOOR SILL DETAIL  
A3.1 1 1/2" = 1'-0"



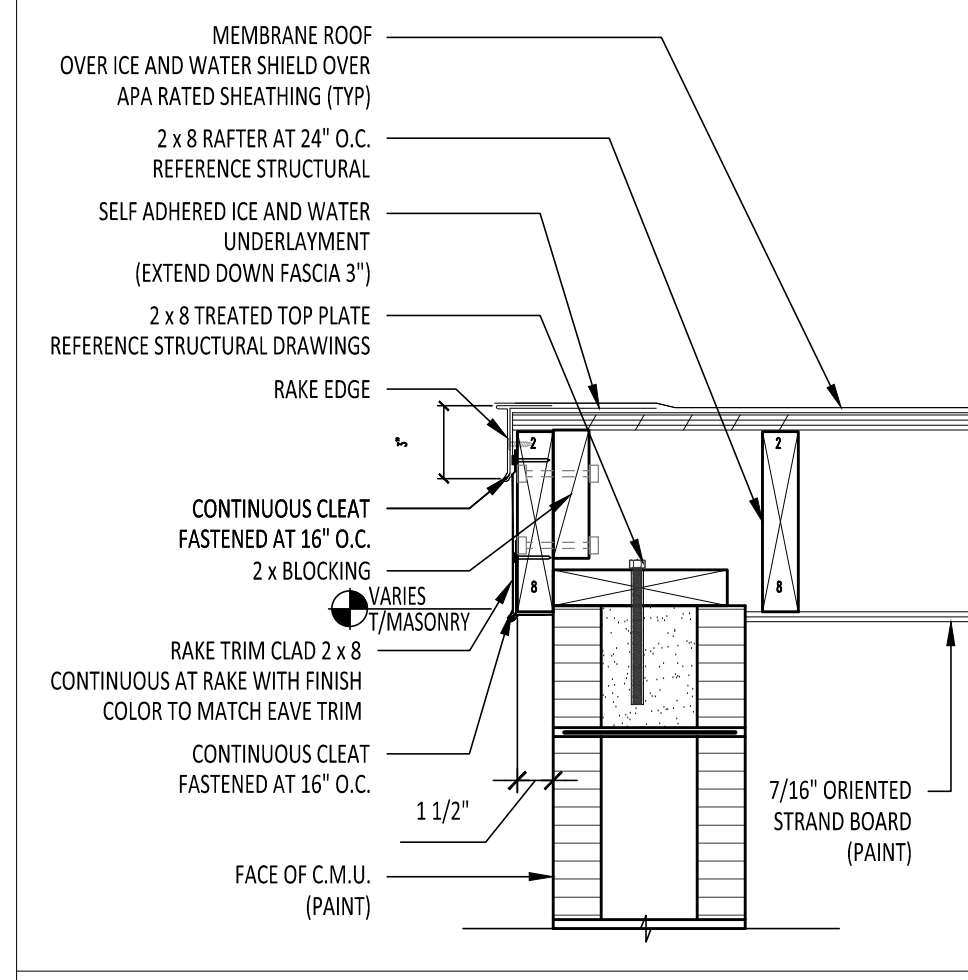
7 EXTERIOR DOOR SILL DETAIL  
A3.1 1 1/2" = 1'-0"



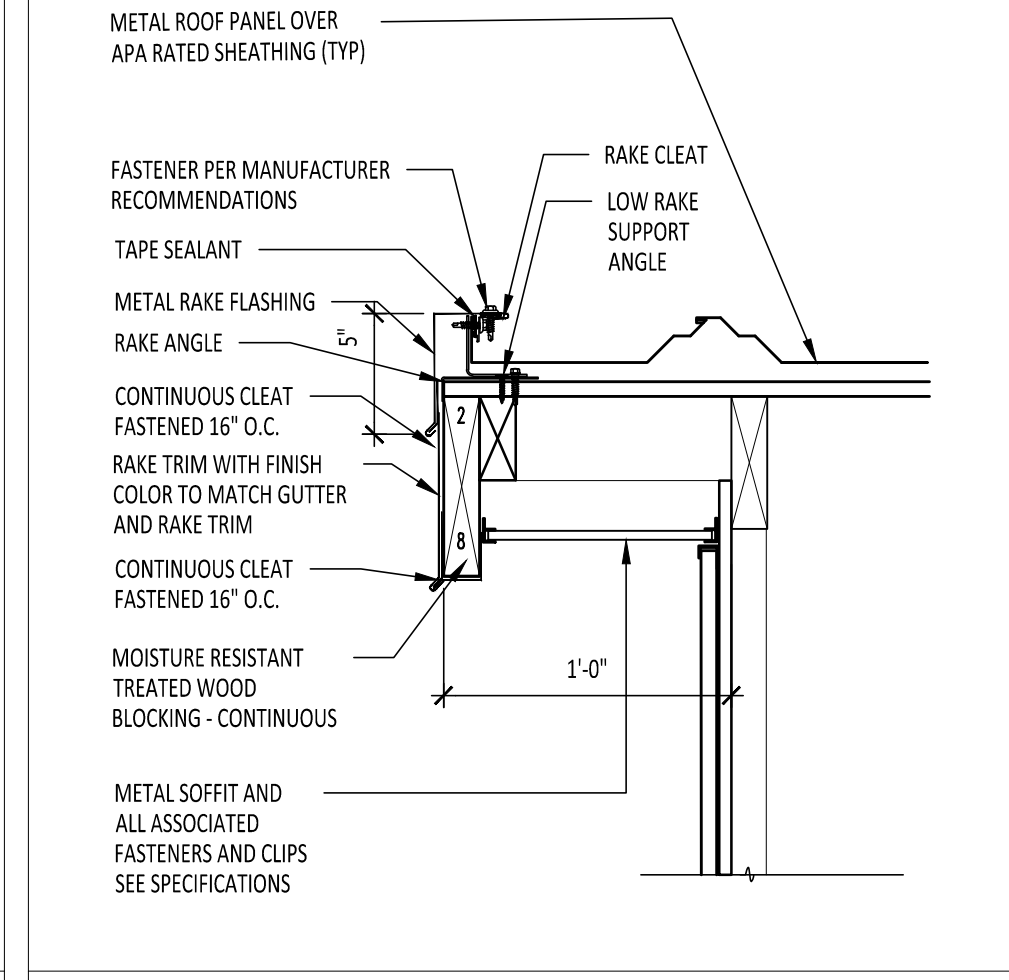
3 STORAGE SHED SECTION  
A3.1 1/4" = 1'-0"



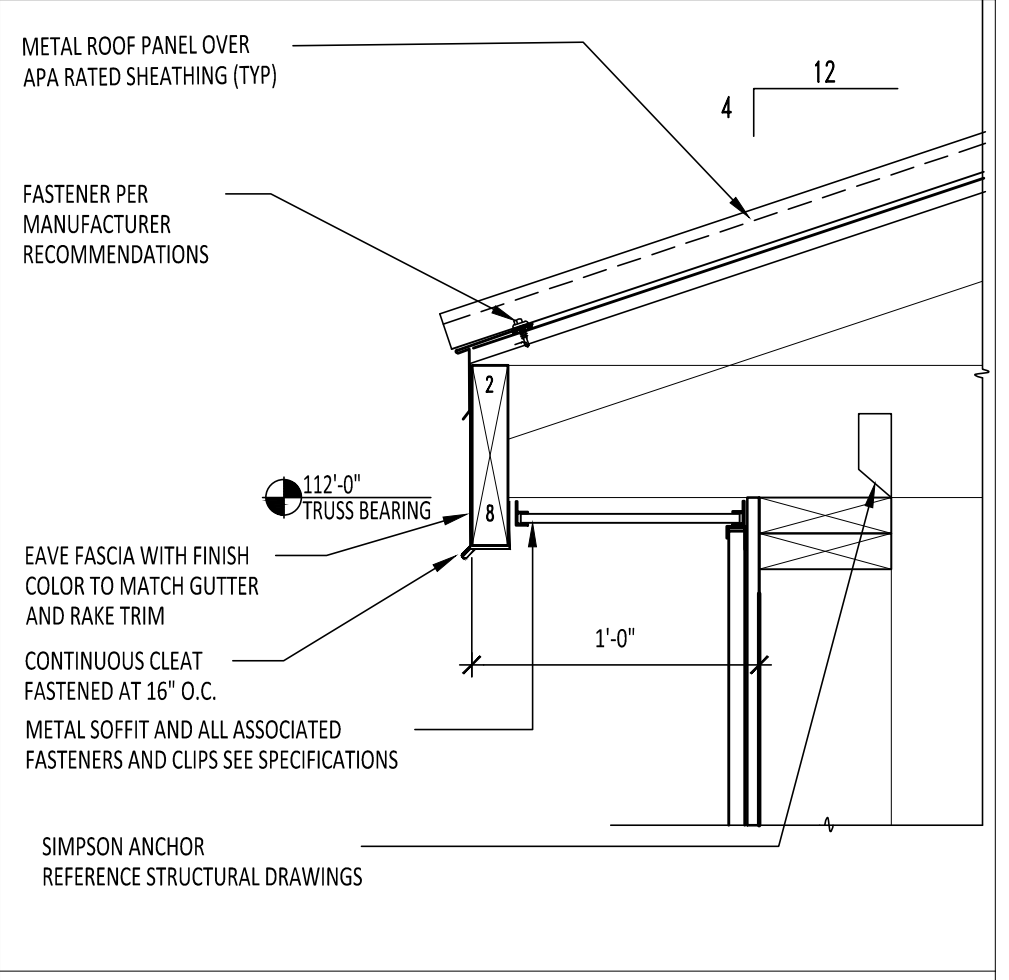
20 HIGH SIDE PEAK DETAIL  
A3.1 1 1/2" = 1'-0"



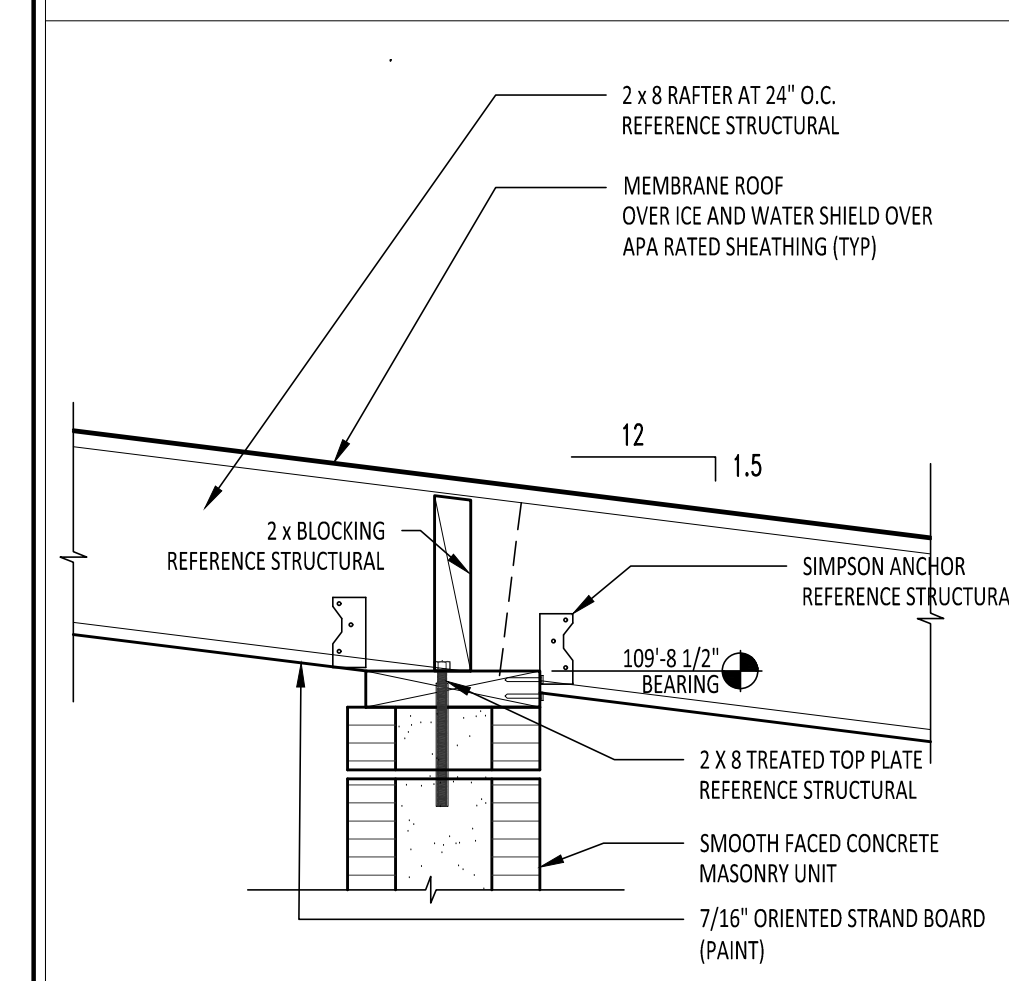
17 GABLE DETAIL  
A3.1 1 1/2" = 1'-0"



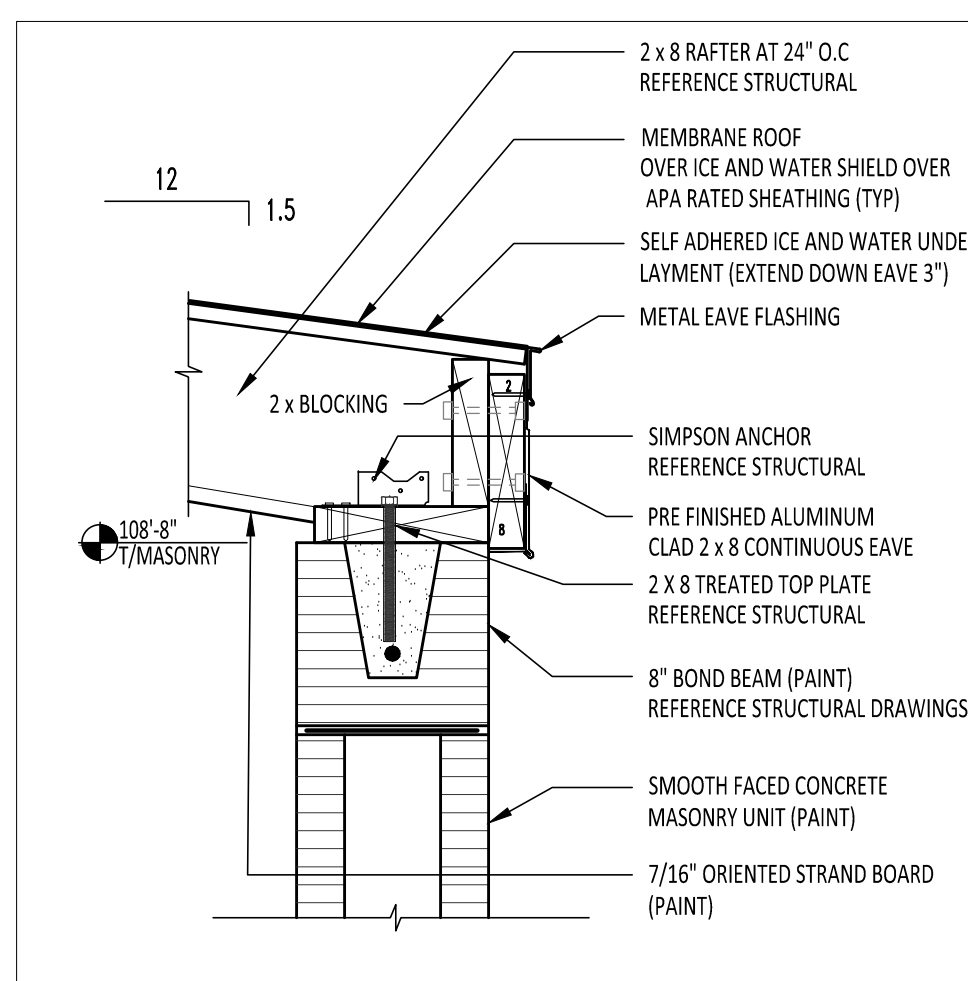
12 GABLE DETAIL  
A3.1 1 1/2" = 1'-0"



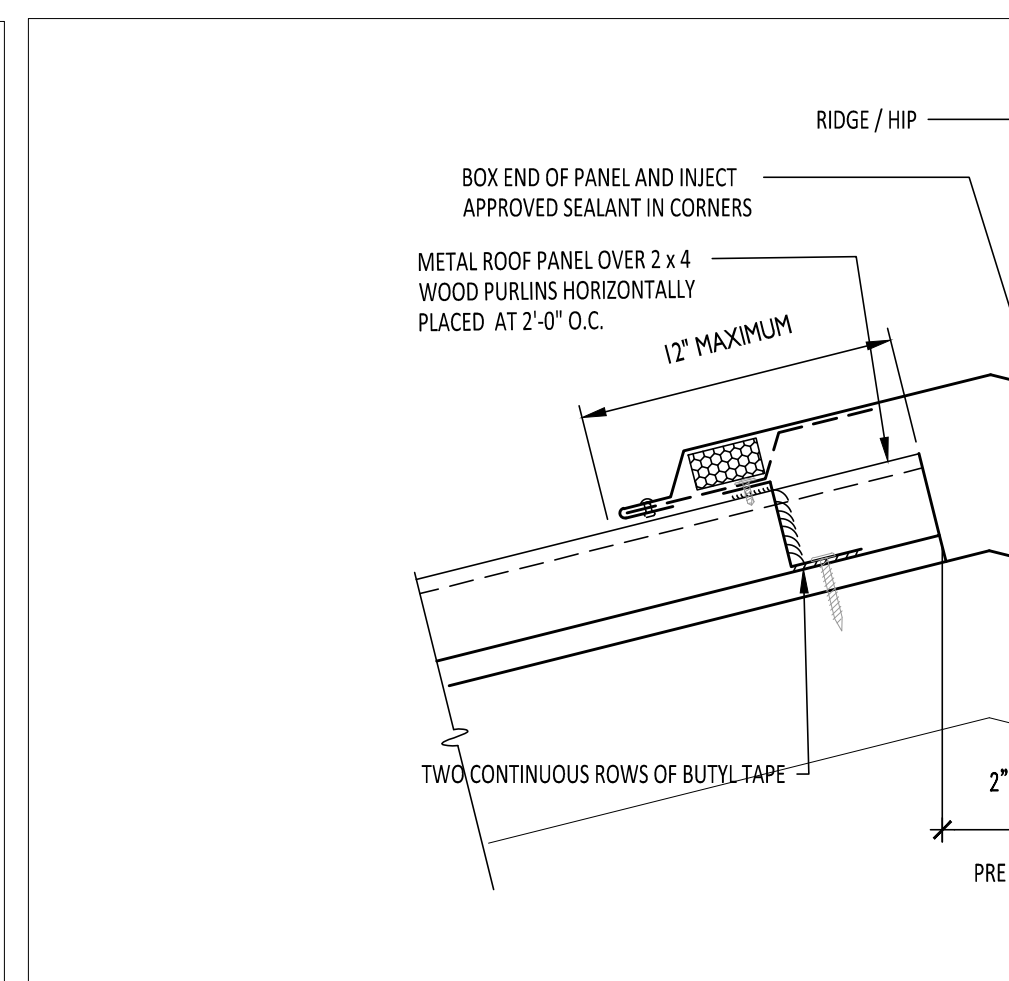
11 EAVE DETAIL  
A3.1 1 1/2" = 1'-0"



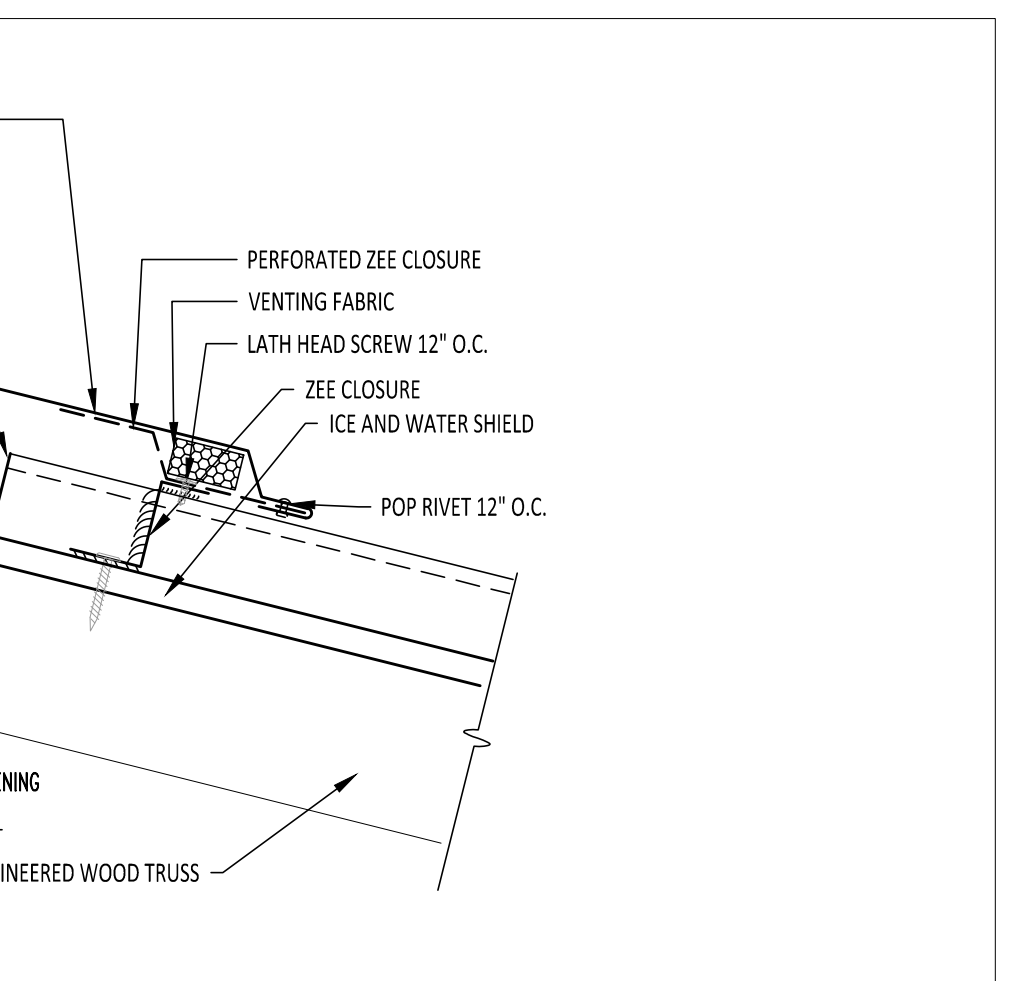
19 INTERMEDIATE BEARING DETAIL  
A3.1 1 1/2" = 1'-0"



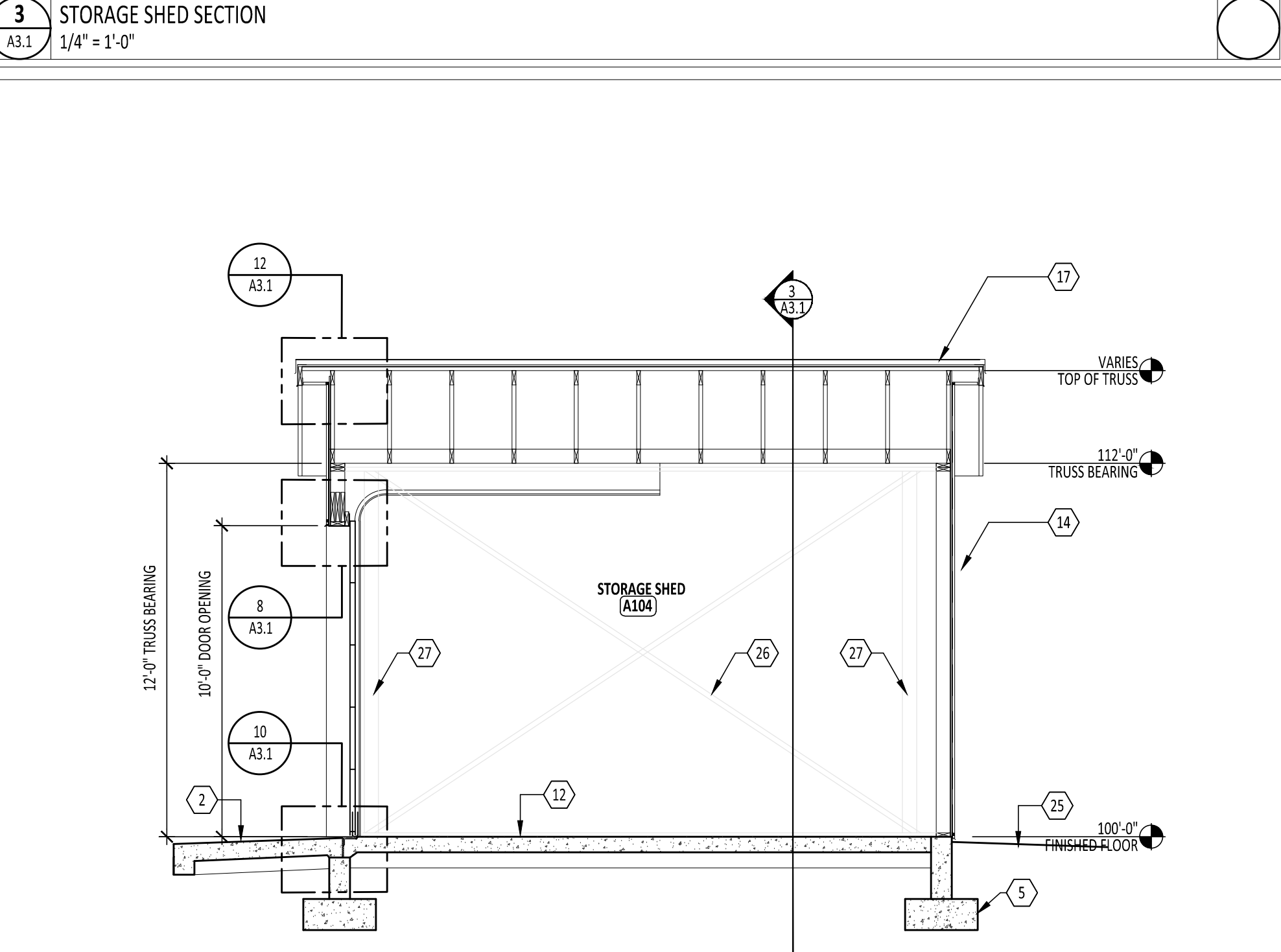
18 EAVE BEARING DETAIL  
A3.1 1 1/2" = 1'-0"



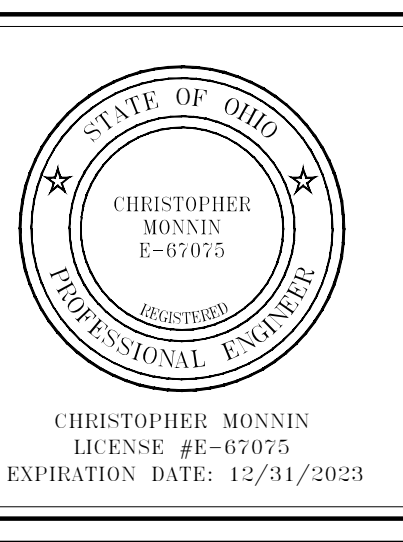
13 RIDGE CAP DETAIL  
A3.1 1 1/2" = 1'-0"



4 STORAGE SHED SECTION  
A3.1 1/4" = 1'-0"



3 STORAGE SHED SECTION  
A3.1 1/4" = 1'-0"



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 BEAVERCREEK, OHIO 45424

ISSUANCES/REVISIONS

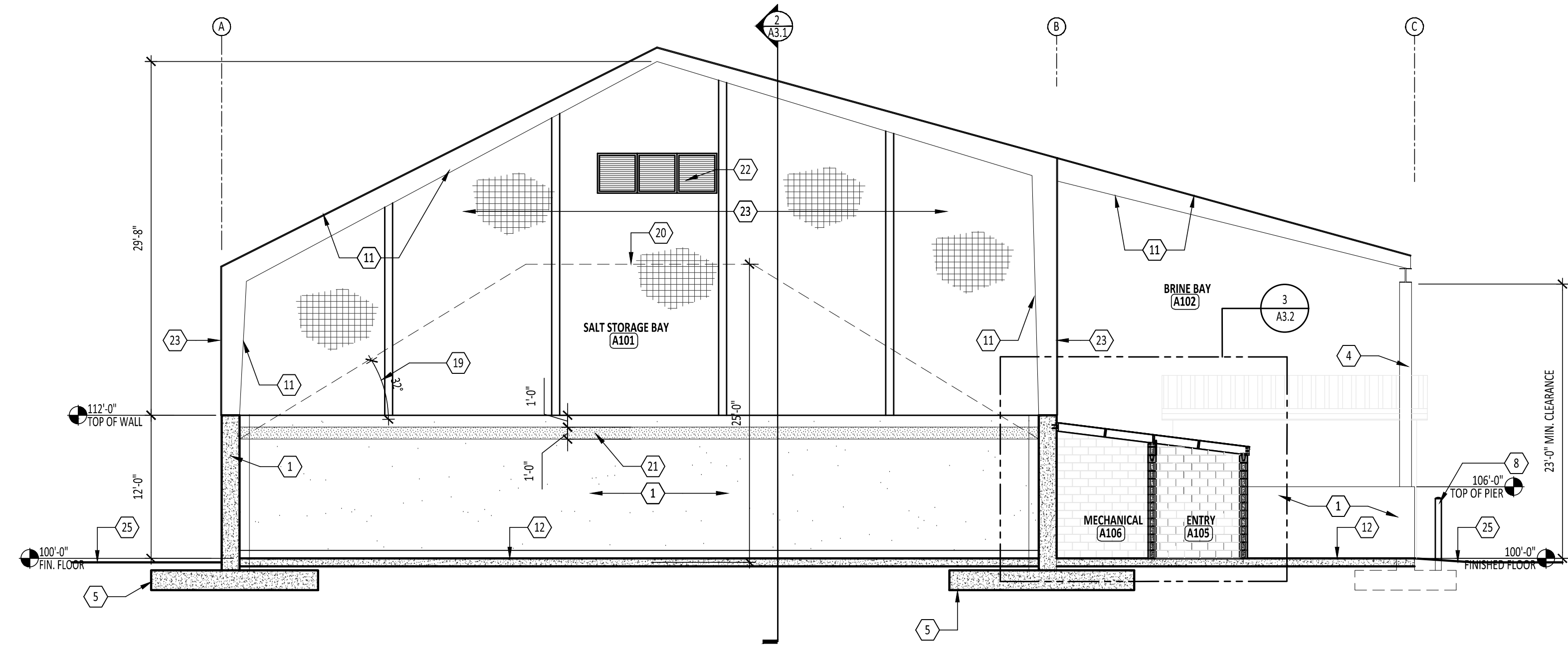
BD DOCUMENTS	10/05/2023
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PROJECT NUMBER: 21062.00

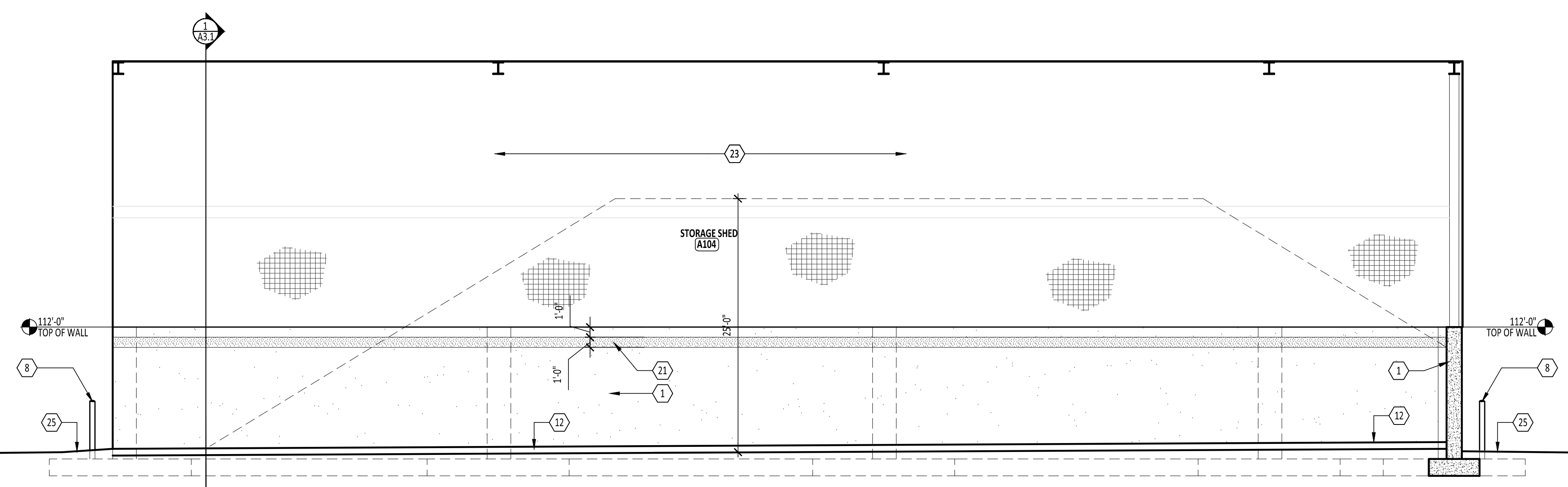
DRAWN BY: JCR	CHECKED BY: MCN
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SHEET TITLE:  
**DOOR SCHEDULE**  
**DOOR DETAILS**  
**BUILDING SECTIONS**  
**AND**  
**WALL DETAILS**

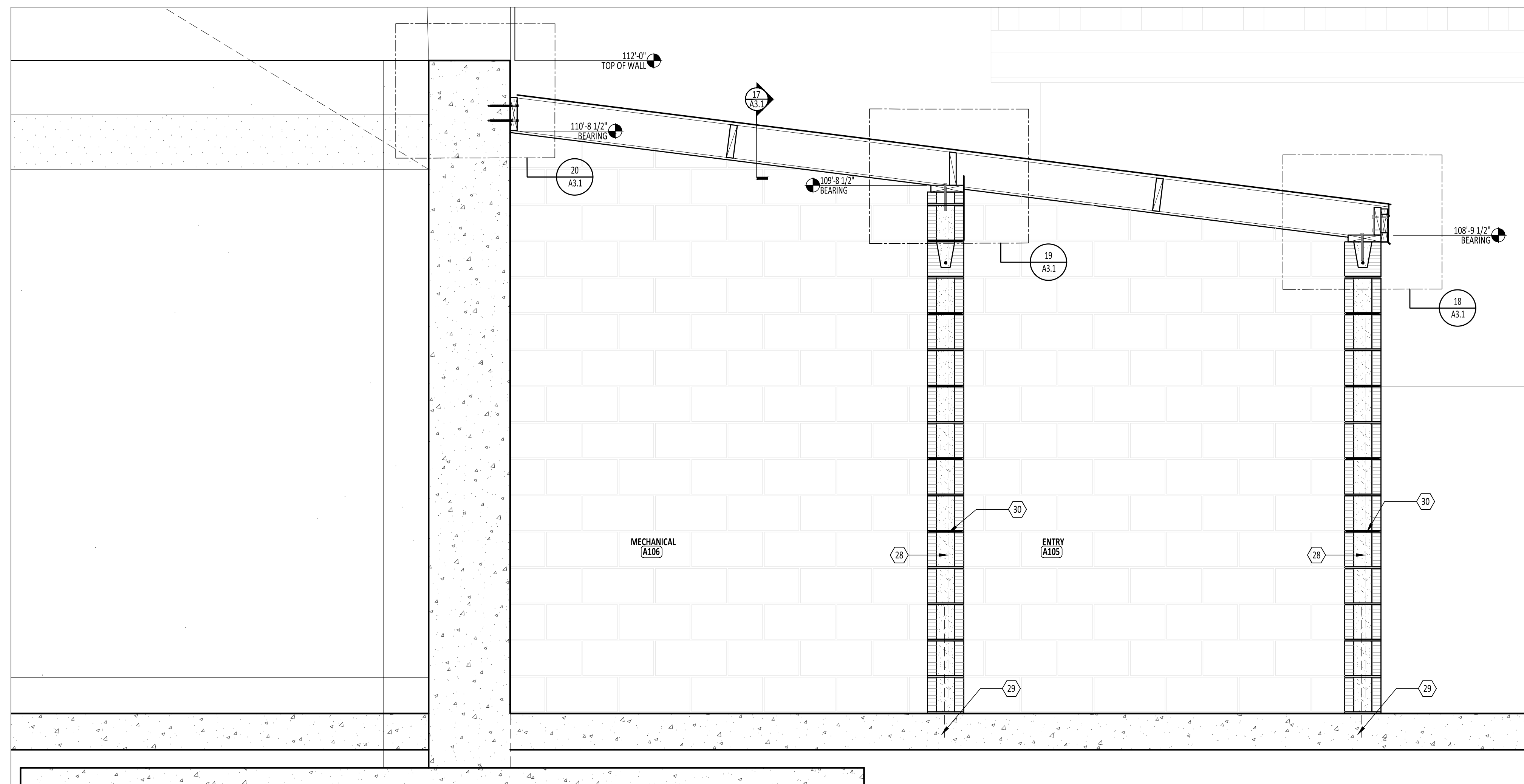
SHEET NUMBER:  
**A3.1**



**1** SALT STORAGE BUILDING (BASE BID) SECTION LOOKING WEST  
 A3.2 1/8" = 1'-0"



**2** SALT STORAGE BUILDING (BASE BID) LONGITUDINAL SECTION LOOKING SOUTH  
 A3.2 1/8" = 1'-0"



**3** BRINE BUILDING SECTION  
 A3.2 3/4" = 1'-0"

**FLOOR PLAN LEGEND**

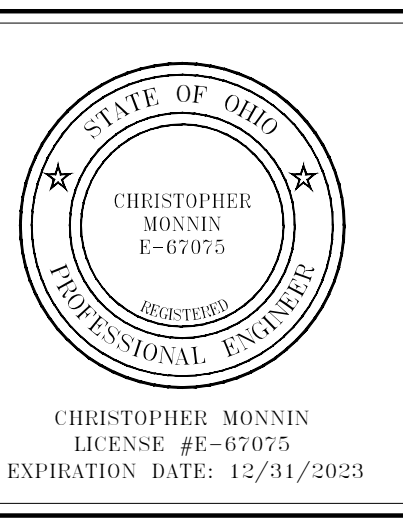
- ① STRUCTURAL GRID REFERENCE - REFERENCE STRUCTURAL SHEETS
- LEVEL LINE
- A101 DOOR DESIGNATION - REFERENCE DOOR/OPENING SCHEDULE ON SHEET A6.1
- X KEYNOTE DESIGNATION - REFERENCE PLAN NOTES ON THIS SHEET
- XXX ROOM DESIGNATION - REFERENCE ROOM INDEX ON THIS SHEET
- FE FIRE EXTINGUISHER - REFERENCE SPEC SECTION 10 400
- X BUILDING SECTION - REFERENCE SECTION ON SHEET INDICATED

**ROOM NAME/ NUMBER**

A101	SALT STORAGE BAY
A102	BRINE BAY
A103	MATERIAL STORAGE BAY
A104	STORAGE SHED
A105	ENTRY
A106	MECHANICAL
A107	LEAN TO BAY (ALTERNATE 1)

**KEYNOTE SCHEDULE**

#	KEYNOTE DESCRIPTION
1	REINFORCED POURED CONCRETE WALLS - REFERENCE STRUCTURAL DRAWINGS
2	CONCRETE APRON - REFERENCE STRUCTURAL DRAWINGS
4	PRE-ENGINEERED STRUCTURAL COLUMN
5	LINE OF CONCRETE FOUNDATION (REFERENCE STRUCTURAL DRAWINGS)
8	6" BOLLARD (TYPICAL), CENTERLINE OF BOLLARD MINIMUM 1'-6" FROM CONCRETE WALL, REFERENCE DETAIL 6/A2.1
11	PRE-ENGINEERED CLEAR SPAN STEEL RIGID FRAME WITH FABRIC MEMBRANE ROOF BY FABRIC MEMBRANE ROOF MANUFACTURER
12	CONCRETE FLOOR SLAB ON GRADE (SLOPE TO DRAIN) - REFERENCE STRUCTURAL DRAWINGS
18	METAL CLAD 2 x FASCIA WITH CONTINUOUS DRIP EDGE
19	ANGLE OF REPOSE FOR ROAD SALT
20	MAXIMUM HEIGHT OF SALT PILE
21	*"MAX FILL" WARNING PAINT STRIPE, SHALL EXTEND ENTIRE INSIDE PERIMETER OF STRUCTURE
22	PROVIDE AIR PRESSURE/WIND VENTILATION AS REQUIRED BY FABRIC MEMBRANE ROOF MANUFACTURER
23	SALT STORAGE BAY WALLS SHALL BE CLOSED WITH INFILL FRAMING AND FABRIC MEMBRANE
25	EXTERIOR PAVEMENT, SLOPE TO DRAIN - REFERENCE CIVIL DRAWINGS
28	8" x 16 CONCRETE MASONRY UNIT WALL - REFERENCE STRUCTURAL DRAWINGS (PAINT ALL EXTERIOR EXPOSED SURFACES)
29	DOWEL - REFERENCE STRUCTURAL DRAWINGS
30	HORIZONTAL REINFORCEMENT AT 16" O.C. - REFERENCE STRUCTURAL DRAWINGS



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 2160 DANTON FEDERAL ROAD  
 BEAVERCREEK, OHIO 43084

**ISSUANCES/REVISIONS**

NO.	DESCRIPTION	DATE
1	BID DOCUMENTS	10/05/2023

**PROJECT INFORMATION**

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
21062.00	JCR	MCN

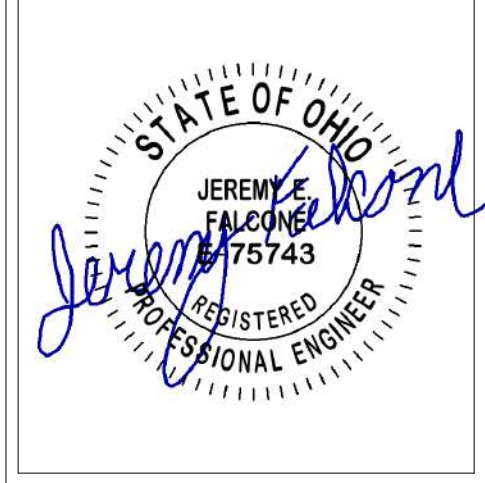
SHEET TITLE:  
**BUILDING SECTIONS AND WALL DETAILS**

SHEET NUMBER:  
**A3.2**

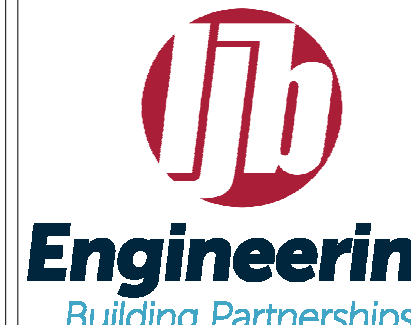


# CITY OF BEAVERCREEK SALT BARN & 9 ACRE PROPERTY SITE IMPROVEMENTS

## 2260 DAYTON-XENIA ROAD BEAVERCREEK, OHIO 45434



CONSULTANT:



LJBinc.com  
(866) 552-3536  
info@LJBinc.com

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CITY OF BEAVERCREEK  
SALT BARN & 9 ACRE PROPERTY SITE  
IMPROVEMENTS  
2260 DAYTON XENIA ROAD  
BEAVERCREEK, OHIO 45434

ISSUANCES/REVISIONS		
OWNER REVIEW		09/26/2023
BID DOCUMENTS		10/05/2023

LIB PROJECT NUMBER	DRAWN BY	CHECKED BY	SHEET NUMBER
012207SA.00	BJF	JBF	S100

SHEET TITLE:  
**GENERAL STRUCTURAL DATA**

SHEET NUMBER:  
**S100**

### GENERAL STRUCTURAL NOTES

#### GENERAL

- MEANS, METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- IMPLEMENTATION OF JOB SITE SAFETY INCLUDING ALL OSHA REGULATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- TEMPORARY BRACING, SHEETING, SHORING, ETC. REQUIRED TO ENSURE THE STRUCTURAL INTEGRITY OF THE NEW AND ANY EXISTING STRUCTURES, SIDEWALKS/UTILITIES, ETC. DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR'S CONSTRUCTION AND ERECTION SEQUENCES SHALL CONSIDER THE EFFECTS OF THERMAL EXPANSION AND CONTRACTION ON THE STRUCTURE DURING CONSTRUCTION.
- HOLES AND NOTCHES SHALL NOT BE CUT OR DRILLED INTO ANY STRUCTURAL MEMBER IN THE FIELD WITHOUT THE APPROVAL OF THE ENGINEER.
- STRUCTURAL DRAWINGS ARE NOT STAND ALONE DOCUMENTS. CONTRACTOR SHALL COORDINATE STRUCTURAL, ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND OTHER DISCIPLINES AND INCORPORATE ALL REQUIREMENTS INTO SHOP DRAWINGS AND FIELD WORK.
- CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THE STRUCTURAL DRAWINGS AND THE DRAWINGS OR REQUIREMENTS OF ANY OTHER DISCIPLINE.
- CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THE GENERAL STRUCTURAL NOTES, SPECIFICATIONS, AND DRAWINGS. THE ENGINEER WILL DETERMINE WHICH REQUIREMENT WILL GOVERN.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING DIMENSIONS AND INSTALLATION DETAILS OF PURCHASED EQUIPMENT WITH THE SUPPORTING STRUCTURE. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THESE ITEMS AND THE STRUCTURE.
- DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE SHOWN IN THE DETAILS. CONTACT ENGINEER FOR INTERPRETATION OF THE APPLICABILITY OF TYPICAL DETAILS.
- SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER.
- SHOP DRAWINGS AND MATERIAL SUBMITTALS SHALL BE PROVIDED TO AND REVIEWED BY THE ENGINEER PRIOR TO THE START OF FABRICATION OR THE COMMENCEMENT OF WORK.
- CHANGES OR ADDITIONS MADE TO RESUBMITTED SHOP DRAWINGS SHALL BE CLEARLY INDICATED ON THE DRAWINGS. REVIEW OF RESUBMITTED SHOP DRAWINGS SHALL BE LIMITED TO THE ITEMS NOTED FOR CORRECTION ON THE PRIOR SUBMITTAL.

#### ELEVATION DATUM

SEE ARCHITECTURAL OR CIVIL DRAWINGS FOR FINISH FLOOR ELEVATION ABOVE SEA LEVEL. FINISH FLOOR FINISH FLOOR ELEVATION OF 100'-0" IS USED ON THE STRUCTURAL DRAWINGS.

#### DESIGN SPECIFICATIONS

2017 OHIO BUILDING CODE

#### EARTHWORK

EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL GEOTECHNICAL ENGINEER TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY CTL ENGINEERING, INC. DATED MARCH 30, 2022. GEOTECHNICAL ENGINEER SHALL VERIFY THAT SOIL ON WHICH FOUNDATIONS BEAR MEET THE SOIL BEARING CAPACITY LISTED IN THE DESIGN DATA.

#### FOOTINGS

- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.
- HORIZONTAL REINFORCING IN FOOTINGS SHALL BE CONTINUOUS AT CORNERS AND INTERSECTIONS. CORNER BARS SHALL BE PROVIDENT HORIZONTAL STEEL. REINFORCING STEEL SHALL BE LAPPED AS FOLLOWS WHERE SPICES ARE REQUIRED:  
BAR SIZE LAP DIMENSION  
#4 2'-0"  
#5 3'-0"  
#6 4'-0"
- CONCRETE SHALL NOT BE PLACED WHERE WATER OR FROST EXISTS IN THE BOTTOM OF THE FOUNDATION EXCAVATION.
- WHERE BACKFILL OCCURS ON BOTH SIDES OF A WALL, BACKFILL BOTH SIDES SIMULTANEOUSLY.
- EQUIPMENT AND/OR MATERIALS WITH WEIGHT GREATER THAN THE DESIGN SURCHARGE SHALL BE KEPT A SAFE HORIZONTAL CLEAR DISTANCE FROM ANY BASEMENT OR RETAINING WALLS. THE SAFE HORIZONTAL CLEAR DISTANCE EQUALS THE HEIGHT FROM THE BASE OF THE RETAINING WALL TO FINISHED GRADE. THE DESIGN SURCHARGE LOAD EQUALS 250 PSF.

#### CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE AND ALL BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 308 SPECIFICATION FOR HOT WEATHER CONCRETING, ACI 306 SPECIFICATION FOR COLD WEATHER CONCRETING, AND ACI 117 SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:  
1. PRIOR TO CONCRETE PLACEMENT, THE CONTRACTOR SHALL SUBMIT FOR THE ENGINEER TO REVIEW A CONCRETE MIX DESIGN FOR EACH TYPE OF CONCRETE TO BE USED. CONCRETE MIXES SHALL MEET THE REQUIREMENTS SPECIFIED BELOW.

CONCRETE USE	28-DAY COMPRESSIVE STRENGTH (f' <sub>c</sub> )	MAX AGGREGATE SIZE	MAX. W/C RATIO	AIR ENTRAINMENT	UNIT WEIGHT
FOUNDATIONS	3,000 PSI	1 1/2"	0.55	NONE	145-150 PCF
FLOOR SLABS	4,000 PSI	1 1/2"	0.50	NONE	145-150 PCF
CAST-IN-PLACE WALLS	4,500 PSI	1 1/2"	0.45	4-6%	145-150 PCF

- CEMENT SHALL CONFORM TO ASTM C150 TYPE II, OR III.
- CONTRACTOR SHALL PROVIDE SPACERS, CHAIRS, STIRRUPS, TIES, ETC. AS NECESSARY TO SECURELY HOLD REINFORCING IN PLACE WHILE PLACING CONCRETE.
- CHLORIDE-BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, A706, OR A996, GRADE 60.
- PLAIN WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A1064 WITH A YIELD STRENGTH OF 65 KSI. DEFORMED WELDED WIRE REINFORCEMENT FOR SLABS SHALL CONFORM TO ASTM A1064 WITH A YIELD STRENGTH OF 70 KSI. DEFORMED WELDED WIRE REINFORCEMENT FOR WALL PANELS SHALL CONFORM TO ASTM A1064 WITH A YIELD STRENGTH OF 80 KSI AT 0.35% STRAIN.
- NON-SHRINK, NON-METALLIC, FACTORY PACKAGED GROUT SHALL BE USED BENEATH STEEL, BASE PLATES. GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6000 PSI AND SHALL CONFORM TO ASTM C1107.
- WHERE CONCRETE EXPANSION ANCHORS ARE SPECIFIED ON THE STRUCTURAL DRAWINGS, ACCEPTABLE ANCHORS INCLUDE: HILTI KWIK BOLT 1, HILTI KWIK BOLT 2, POWERS POWER-STD-SD1, POWERS POWER-STD-SD2, AND SIMPSON STRONG BOLT 2, WHERE CONCRETE SCREW ANCHORS ARE SPECIFIED ON THE STRUCTURAL DRAWINGS, ACCEPTABLE ANCHORS INCLUDE HILTI KWIK HUS-EZ, POWERS WEDGE BOLT+, AND SIMPSON TITEN HD. BEFORE USING ANY POST INSTALLED CONCRETE ANCHOR NOT LISTED ABOVE, APPROVAL FROM THE ENGINEER IS REQUIRED. IF A SPECIFIC TYPE OF CONCRETE ANCHOR IS SHOWN ON THE STRUCTURAL DRAWINGS, IT MUST BE USED UNLESS AN ALTERNATIVE IS APPROVED BY THE ENGINEER. FOR THE CONCRETE ANCHORS LISTED ABOVE, MINIMUM EMBEDMENT DEPTHS FOR VARIOUS ANCHOR DIAMETERS ARE SHOWN IN THE TABLES BELOW. IF A SPECIFIC EMBEDMENT DEPTH IS SHOWN ON THE STRUCTURAL DRAWINGS, THAT DEPTH MUST BE USED UNLESS AN ALTERNATE IS APPROVED BY THE ENGINEER.
- SEE MANUFACTURER'S LITERATURE FOR PROPER INSTALLATION OF POST INSTALLED CONCRETE ANCHORS.

ANCHOR SIZE	EXPANSION ANCHOR MINIMUM EMBEDMENT DEPTHS			
	HILTI KWIK BOLT 1	HILTI KWIK BOLT 2	POWER-STD- SD1	SIMPSON STRONG BOLT 2
3/8" Ø	2 5/8"	1 13/16"	2 3/8"	2 3/8"
1/2" Ø	2 5/8"	2 3/8"	2 1/2"	2 3/4"
5/8" Ø	3 7/8"	3 9/16"	3 3/8"	3 3/8"
3/4" Ø	4 5/16"	3 13/16"	4"	4 1/8"

ANCHOR SIZE	SCREW ANCHOR MINIMUM EMBEDMENT DEPTHS		
	HILTI KWIK HUS-EZ	SCREW-BOLT+	TITEN HD
3/8" Ø	1 5/8"	2"	2 1/2"
1/2" Ø	2 1/4"	2 1/2"	3 1/4"
5/8" Ø	3 1/4"	3 1/4"	4"
3/4" Ø	4"	4 1/4"	5 1/2"

### PRE-ENGINEERED METAL BUILDINGS

- THE DESIGN OF THE PRE-ENGINEERED METAL BUILDING SHALL CONFORM TO ALL STRUCTURAL DESIGN CRITERIA AND BUILDING CODE(S) NOTED IN THESE DRAWINGS.
- THE DESIGN, FABRICATION, AND ERECTION OF THE PRE-ENGINEERED METAL BUILDING SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, THE AISC METAL BUILDING SYSTEMS MANUAL, AND CURRENT OSHA STANDARDS.
- ANCHOR RODS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36 STEEL WITH COMPOSITIONAL LIMITS OF ASTM A36 STEEL TO ENSURE WELDABILITY.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX, EXCEPT FOR THE WELDING OF DEFORMED BAR ANCHORS WHICH SHALL USE E80XX WELDING ELECTRODES.
- THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL SUPER-STRUCTURE ELEMENTS OF THE BUILDING. THE DESIGN OF THE PRE-ENGINEERED METAL BUILDING SHALL BE COORDINATED WITH ALL OF THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- THE FOUNDATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE BASED ON LOAD ASSUMPTIONS. REACTIONS MUST BE PROVIDED TO L.B. BY PRE-ENGINEERED METAL BUILDING MANUFACTURER IN ORDER TO VERIFY FOUNDATION DESIGN PRIOR TO FOUNDATION CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE FINAL APPROVAL DRAWINGS BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER AND THE STRUCTURAL DRAWINGS BY L.B. THIS COORDINATION SHALL BE DONE PRIOR TO PERFORMING FOUNDATION WORK AND SHALL INCLUDE, BUT IS NOT LIMITED TO, COLUMN LOCATIONS, BASE PLATE SIZES AND ANCHOR ROD LAYOUTS. CONTRACTOR SHALL NOTIFY L.B. OF ANY DISCREPANCIES BETWEEN THE PRE-ENGINEERED METAL BUILDING DRAWINGS AND THE STRUCTURAL DRAWINGS.
- THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL SUBMIT DESIGN CALCULATIONS AND DRAWINGS TO THE ENGINEER OF RECORD. CALCULATIONS AND DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF THE MANUFACTURER'S REGISTERED DESIGN PROFESSIONAL. SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER OF RECORD PRIOR TO FABRICATION. CALCULATIONS NEED NOT BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION. CALCULATIONS ARE FOR RECORD PURPOSES ONLY.
- ROOF FRAMING MEMBERS SHALL BE DESIGNED FOR A VERTICAL DEFLECTION LIMIT OF L/240 FOR LIVE LOAD AND L/180 FOR TOTAL LOAD UNLESS NOTED OTHERWISE.
- FRAMES SHALL BE DESIGNED FOR A LATERAL DRIFT LIMIT FOR WIND LOADS OF H/120 AT THE EAVE HEIGHT USING PRESSURES BASED ON THE 10-YEAR MEAN RECURRENT WIND SPEED.

#### WOOD MEMBERS

- METAL PLATE-CONNECTED WOOD TRUSSES SHALL BE MANUFACTURED AS REQUIRED BY TRUSS PLATE INSTITUTE. EACH MANUFACTURER OF TRUSSES USING METAL PLATE CONNECTORS SHALL RETAIN AN APPROVED AGENCY TO MAKE UNSCHEDULED INSPECTIONS OF TRUSS MANUFACTURING AND DELIVERY OPERATIONS. THE INSPECTION SHALL COVER ALL PHASES OF TRUSS OPERATIONS, INCLUDING LUMBER STORAGE, HANDLING, CUTTING, FIXTURES, PRESSES OR ROLLERS, MANUFACTURING, BUNDLING AND BANDING.
- TRUSS CONSTRUCTION DOCUMENTS SHALL BE PREPARED BY A REGISTERED DESIGN PROFESSIONAL AND SHALL BE PROVIDED TO THE BUILDING OFFICIAL AND APPROVED PRIOR TO INSTALLATION. THESE CONSTRUCTION DOCUMENTS SHALL INCLUDE, AT A MINIMUM, THE INFORMATION SPECIFIED BELOW. TRUSS SHOP DRAWINGS SHALL BE PROVIDED WITH THE SHIPMENT OF TRUSSES DELIVERED TO THE JOB SITE. TRUSS LUMBER SHALL BE SPRUCE-FIR-PINE NO. 2 OR BETTER. DEFLECTION LIMIT FOR TRUSSES IS L/180 FOR TOTAL LOAD AND L/240 FOR LIVE LOAD.
  - SLOPE OR DEPTH, SPAN AND SPACING.
  - LOCATION OF JOISTS.
  - REQUIRED BEARING WIDTHS.
  - DESIGN LOADS AS APPLICABLE.
  - TOP CHORD LIVE LOAD (INCLUDING SNOW LOADS).
  - TOP CHORD DEAD LOAD.
  - BOTTOM CHORD DEAD LOAD.
  - CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION.
  - CONTROLLING WIND AND EARTHQUAKE LOADS.
  - ADJUSTMENT TO LUMBER AND METAL CONNECTOR PLATE DESIGN VALUES FOR CONDITION OF USE.
  - EACH REACTION FORCE AND DIRECTION.
  - METAL CONNECTOR PLATE TYPE, SIZE, THICKNESS OR GAGE, AND THE DIMENSIONED LOCATION OF EACH METAL CONNECTOR PLATE EXCEPT WHERE SYMMETRICALLY LOCATED RELATIVE TO THE JOINT INTERFACE.
  - LUMBER SIZE, SPECIES AND GRADE FOR EACH MEMBER.
  - CONNECTION REQUIREMENTS FOR TRUSS TO STEEL BEAM.
  - CALCULATED DEFLECTION RATIO AND /OR MAXIMUM DEFLECTION FOR TOTAL AND LIVE LOAD.
  - MAXIMUM AXIAL COMPRESSION FORCES IN THE TRUSS MEMBERS.
  - TRUSS HEADERS FOR ROOF OPENINGS.

- ALL DESIGN AND CONSTRUCTION REQUIRING WOOD PRODUCTS SHALL CONFORM TO THE LATEST EDITIONS OF THE "TIMBER ENGINEERING MANUAL" AND NFA "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION".
- ALL LUMBER SHALL BE GRADE MARKED TO GRADE AGENCY GRADE SPECIES AND MOISTURE CONTENT. WOOD STUDS SHALL BE SOUTHERN PINE NO. 1 OR BETTER. ALL HEADERS, PLATES, PURLINS, BEAMS AND BLOCKING SHALL BE SOUTHERN YELLOW PINE NO. 1 OR BETTER. GLULAM BEAMS SHALL BE SOUTHERN PINE GRADE 22F-V5.
- WALLS SHALL BE COMMON WALLS AND SHALL CONFORM TO ASTM F1667.
- REFER TO MANUFACTURER INSTALLATION REQUIREMENTS WHERE SPECIFIC ANCHORAGE HARDWARE (SIMPSON) IS SPECIFIED.
- WHERE SPECIFIC CONNECTION REQUIREMENTS ARE NOT GIVEN, REFER TO FASTENING SCHEDULE IN TABLE 2304.9.1 IN THE 2017 OHIO BUILDING CODE.
- LUMBER EXPOSED TO WEATHER OR GROUND, OR IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-IMPREGNATED BY AN APPROVED PROCESS AND PRESERVATIVE.

#### PLYWOOD SHEATHING

- PLYWOOD SHEATHING SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT APA PLYWOOD DESIGN SPECIFICATION, WITH THE FOLLOWING SUPPLEMENTAL REQUIREMENTS:
- PLYWOOD SHALL CONFORM WITH VOLUNTARY PRODUCT STANDARD PS 1-9S AND BEAR THE TRADEMARK OF APA - THE ENGINEERED WOOD ASSOCIATION.
  - PLYWOOD SHALL BE STRUCTURAL I RATED EXTERIOR SHEATHING WITH THICKNESS AS SHOWN ON THE DRAWINGS.
  - FOR ROOF DAHPRAGM USE 104 COMMON NAILS AT 6" ON CENTER AT SUPPORTED EDGES AND 12" ON CENTER ALONG INTERMEDIATE FRAMING MEMBERS.
  - FOR WALL SHEATHING USE 1932" EXTERIOR WOOD STRUCTURAL PANEL SHEATHING WITH 104 COMMON NAILS SPACED AT 6" ON CENTER AT SUPPORTING EDGES AND 12" ON CENTER ALONG INTERMEDIATE FRAMING MEMBERS.

#### MASONRY

- MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT TMS 402/802 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:
- HOLLOW MASONRY BLOCK SHALL CONFORM TO ASTM C90 NORMAL WEIGHT.
  - GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
  - MORTAR SHALL BE TYPE M OR S CONFORMING TO ASTM C270. AVERAGE COMPRESSIVE STRENGTH SHALL BE 1,800 PSI.
  - MINIMUM 28-DAY COMPRESSIVE STRENGTH OF MASONRY: f<sub>m</sub> = 1,500 PSI.
  - WIRE REINFORCING SHALL CONFORM TO ASTM A615, STANDARD LADDER-TYPE REINFORCING, AND SHALL BE PLACED CONTINUOUSLY IN ALTERNATE HORIZONTAL MORTAR JOINTS. PROVIDE LAP AS RECOMMENDED BY THE MANUFACTURER WITH A MINIMUM.
  - WIRE REINFORCING SHALL BE HOT DIP GALVANIZED. WIRE REINFORCING SHALL BE 9 GA. MINIMUM.
  - REINFORCING STEEL SHALL CONFORM TO ASTM A615, A706, OR A996, GRADE 60. REINFORCING STEEL SHALL BE LAPPED AS FOLLOWS WHERE SPICES ARE REQUIRED:  
BAR SIZE LAP DIMENSION  
#4 1'-0"  
#5 2'-0"  
#6 3'-0"
  - VERTICAL CONTROL JOINTS SHALL BE PROVIDED AT SPACINGS NOT TO EXCEED 24 FT. UNLESS SHOWN OTHERWISE ON STRUCTURAL DRAWINGS. COORDINATE LOCATIONS WITH ARCHITECT AND ENGINEER.
  - ALL CONCRETE MASONRY SHALL BE CONSTRUCTED USING A RUNNING BOND PATTERN UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS. FACE SHELL MORTAR BEDDING SHALL BE USED FOR ALL HOLLOW UNITS, IN PARTIALLY GROUTED WALLS, WEBS ADJACENT TO CORES THAT WILL BE GROUTED SHALL ALSO BE MORTARED.
  - SOLID GROUT ALL CMU CELLS THAT ARE BELOW GRADE. HAVE VERTICAL REINFORCING OR ARE BELOW BEAM/JOIST/GIRDER BEARING PLATES. SOLID GROUT ALL CMU LINTELS AND BOND BEAMS.
  - HORIZONTAL REINFORCING SHALL BE DISCONTINUOUS AT VERTICAL CONTROL JOINTS, EXCEPT FOR BOND BEAM REINFORCING, WHICH SHALL BE CONTINUOUS.
  - ALL CMU WALLS HAVE BEEN DESIGNED TO BE STABLE IN THE FINAL CONSTRUCTED CONDITION ONLY. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY BRACING OF CMU WALLS.

#### SPECIAL INSPECTION

WHERE SPECIAL INSPECTION IS REQUIRED BY THE AUTHORITY HAVING JURISDICTION, IT SHALL BE PERFORMED BY A REGISTERED DESIGN INSPECTOR, EMPLOYED BY THE OWNER AND APPROVED BY THE GOVERNING JURISDICTION. COPIES OF THE INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND L.B. A LICENSED ENGINEER OR ARCHITECT SHALL SIGN EACH REPORT. L.B. SHALL BE NOTIFIED IMMEDIATELY OF ANY TEST WHICH INDICATES NON COMPLIANCE WITH APPLICABLE CODES OR REQUIREMENTS OF THESE PLANS UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1705 OF THE 2015 INTERNATIONAL BUILDING CODE ON THE FOLLOWING:

- STEEL CONSTRUCTION PER SECTION 1705.2.
- CONCRETE CONSTRUCTION PER SECTION 1705.3.
- MASONRY CONSTRUCTION PER SECTION 1705.4.
- SOILS PER SECTION 1705.6.

### DESIGN DATA

#### ROOF LOAD

LIVE LOAD	20
PEMB SELF WEIGHT (ASSUMED)	8
TOTAL TO BEAMS OR JOIST GIRDEES	28 LBS./FT <sup>2</sup>

#### RISK CATEGORY

II

#### ROOF SNOW LOAD

(DRIFTING SNOW IN ADDITION TO UNIFORM LOAD WHERE APPLICABLE)

P <sub>s</sub> =	20 LBS./FT <sup>2</sup>
P <sub>a</sub> =	14 LBS./FT <sup>2</sup>
P <sub>m</sub> =	20 LBS./FT <sup>2</sup>
C <sub>e</sub> =	1.0
I <sub>s</sub> =	1.0
C <sub>t</sub> =	1.0

#### BASIC DESIGN WIND LOAD

V <sub>ult</sub> =	115 M.P.H. (3-SECOND GUST)
V <sub>add</sub> =	89 M.P.H. (3-SECOND GUST)
EXPOSURE C	
INTERNAL PRESSURE COEFFICIENT = ± 0.18	

#### GEOTECHNICAL DATA

ALLOWABLE SOIL BEARING (AFTER SOIL IMPROVEMENT)	4,500 LBS./FT <sup>2</sup>
FROST DEPTH	32 INCHES

#### EARTHQUAKE DESIGN DATA

S <sub>s</sub> =	0.149
S <sub>1</sub> =	0.071

#### SITE CLASS D

S<sub>D5</sub> = 0.159

S<sub>D1</sub> = 0.113

#### SEISMIC DESIGN CATEGORY B

BASIC SEISMIC-FORCE-RESISTING SYSTEM = STEEL ORDINARY MOMENT FRAMES

I<sub>e</sub> = 1.0

R = 3.5

V = C<sub>g</sub>W = 0.0454W

EQUIVALENT LATERAL FORCE PROCEDURE

### STRUCTURAL ABBREVIATIONS

ADDL.	ADDITIONAL	L.W.	LONG WAY
A.F.F.	ABOVE FINISH FLOOR	L.W.C.	LIGHT WEIGHT CONCRETE
ALT.	ALTERNATE	MATL.	MATERIAL
ARCH.	ARCHITECTURAL	MAX.	MAXIMUM
B.	BOTTOM OF	MECH.	MECHANICAL
B.F.F.	BELOW FINISH FLOOR	MEMB.	MEMBRANE
BLDG.	BUILDING	MN.	MINIMUM
BOT.	BOTTOM	MISC.	MISCELLANEOUS
BMD	BOTTOM OF METAL DECK	MFR.	MANUFACTURER
BRG.	BEARING	M.O.	MASONRY OPENING
C/C	CENTER TO CENTER	M.P.A.	MEGAPASCALS
C.I.P.	CAST IN PLACE	MTL.	METAL
C.J.	CONTROL JOINT	MWFRS	MAIN WIND FORCE RESISTING SYSTEM
C.P.J.	COMPLETE JOINT PENETRATION	NA	NOT APPLICABLE
CLR.	CLEAR	N.I.C.	NOT IN CONTRACT
C.M.U.	CONCRETE MASONRY UNIT	N.M.	NOMINAL
COL.	COLUMN	N.S.	NEET
CONC.	CONCRETE	N.T.S.	NOT TO SCALE
CONSTR.	CONSTRUCTION	N.W.C.	NORMAL WEIGHT CONCRETE
CONT.	CONTINUOUS	O.C.	OUT TO OUT
C.Y.	CUBIC YARD	O.C.	ON CENTER
DET.	DETAIL	O.D.	OUTSIDE DIAMETER
DIA.	DIAMETER	O.F.	OUTSIDE FACE
DWG.	DIAGONAL	OPENG	OPENING
DL.	DEAD LOAD	OPP.	OPPOSITE
D.M.	DIMENSION	P.A.F.	POWER ACTUATED FASTENER
D.L.	DEAD LOAD	P.C.	PRECAST CONCRETE
D.W.L.	DRAWING	PCF	POUNDS PER CUBIC FOOT
E.A.	EACH	PCS.	PIECES
E.F.	EACH FACE	P.I.	POINT OF INTERSECTION
E.J.	EXPANSION JOINT	PL	PLATE
ELEC.	ELECTRICAL	PL.	POUNDS PER LINEAL FOOT
ELEV.	ELEVATION	PLUMB.	PLUMBING
E.L. OR E	EARTHQUAKE (OR SEISMIC) LOAD	PSF	POUNDS PER SQUARE FOOT
E.Q.	EQUAL	PS	POUNDS PER SQUARE INCH
EQUIP.	EQUIPMENT	R, OR RAD.	RADIUS
E.S.	EACH SIDE	R.	ROOF DRAIN
E.W.	EACH WAY	REF.	REFERENCE
EXIST.	EXISTING	REINF.	REINFORCING
EXP.	EXPANSION	REO'D.	REQUIRED
EXT.	EXTERIOR	RET.	RETAINING
F.	FACE OF	R.O.P.	ROUGH OPENING
F.F.	FLOOR FINISH	R.O.P.	ROOF TOP OPENING
F.L.R.	FLOOR	R.T.U.	SCHEDULE
F.N.	FOUNDATION	SCH.	SHORT WAY
F.S.	FAR SIDE	SHTG.	SHEDDING
FT.	FEET	SM.	SIMILAR
FTG.	FOOTING	S.L.	SNOW LOAD
GA.	GAUGE	SLRS	SEISMIC LOAD RESISTING SYSTEM
GALV.	GALVANIZED	S.O.G.	SLAB ON GRADE
G.B.	GRADE BEAM	SPA.	SPACES
G.C.	GENERAL CONTRACTOR	SQA.	SQUARE
HORIZ.	HORIZONTAL	STD.	STANDARD
H.P.	HIGH POINT	STIFF.	STIFFENER
H.T.	HEIGHT	STR.	STRUCTURAL
I.D.	INSIDE DIAMETER	S.W.	SHORT WAY
I.F.	INSIDE FACE	SYM.	SYMMETRICAL
IN.	INCH	T.	TOP OF
INSUL.	INSULATION	T&B	TOP AND BOTTOM
I.R.	INTERIOR	T&G.	TONGUE AND GROOVE
J.	JOIST	T.D.	TRENCH DRAIN
J.S.T.	JOINT	T.H.	THICK
K.	KIP	THK.	THICK
K.F.	KIPS PER LINEAR FOOT	T.L.	TOTAL LOAD
K.P.A.	KILOPASCALS	T.O.S.	TOP OF STEEL
K.S.B.	KIPS PER SQUARE INCH	TRANS.	TRANSVERSE
L.	LINEAR	TYP.	TYPICAL
L.B.	LINEAR FEET	U.N.O.	UNLESS NOTED OTHERWISE
L.F.	LIVE LOAD	VERT.	VERTICAL
L.L.V.	LONG LEG HORIZONTAL	V.I.F.	VERIFY IN FIELD



CONSULTANT:

**Engineering**  
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NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9 ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
2200 DUTTON AVENUE, SUITE 200  
BEAVERCREEK, OHIO 43084

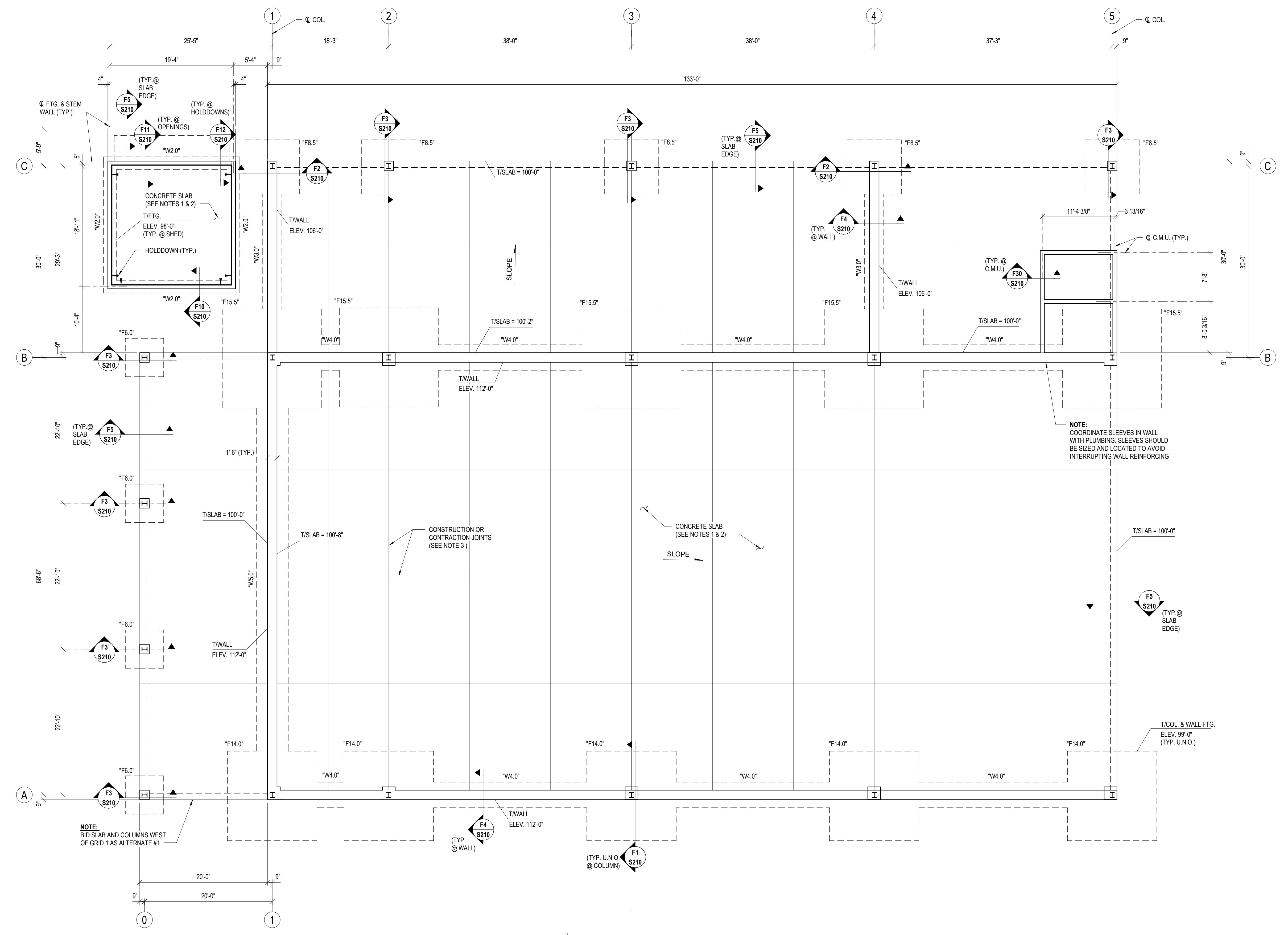
ISSUANCES/REVISIONS		
OWNER REVIEW		09/26/2023
BID DOCUMENTS		10/05/2023

LIB PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
0122075A.00	BJF	JEF

SHEET TITLE:

**FOUNDATION PLAN - SALT BARN**

SHEET NUMBER:  
**S200**

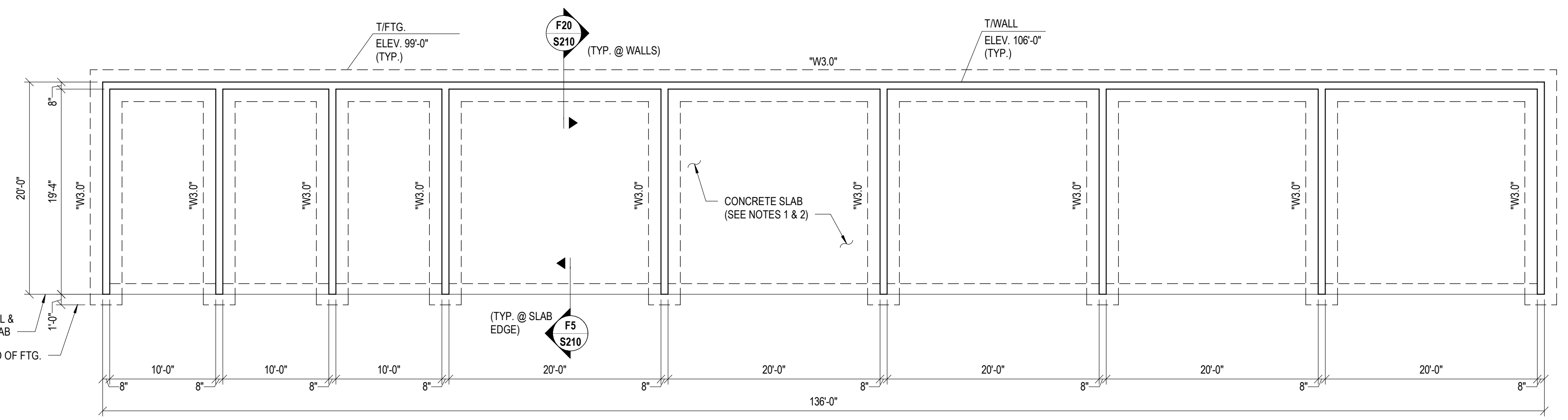


**FOUNDATION PLAN - SALT BARN BUILDING**  
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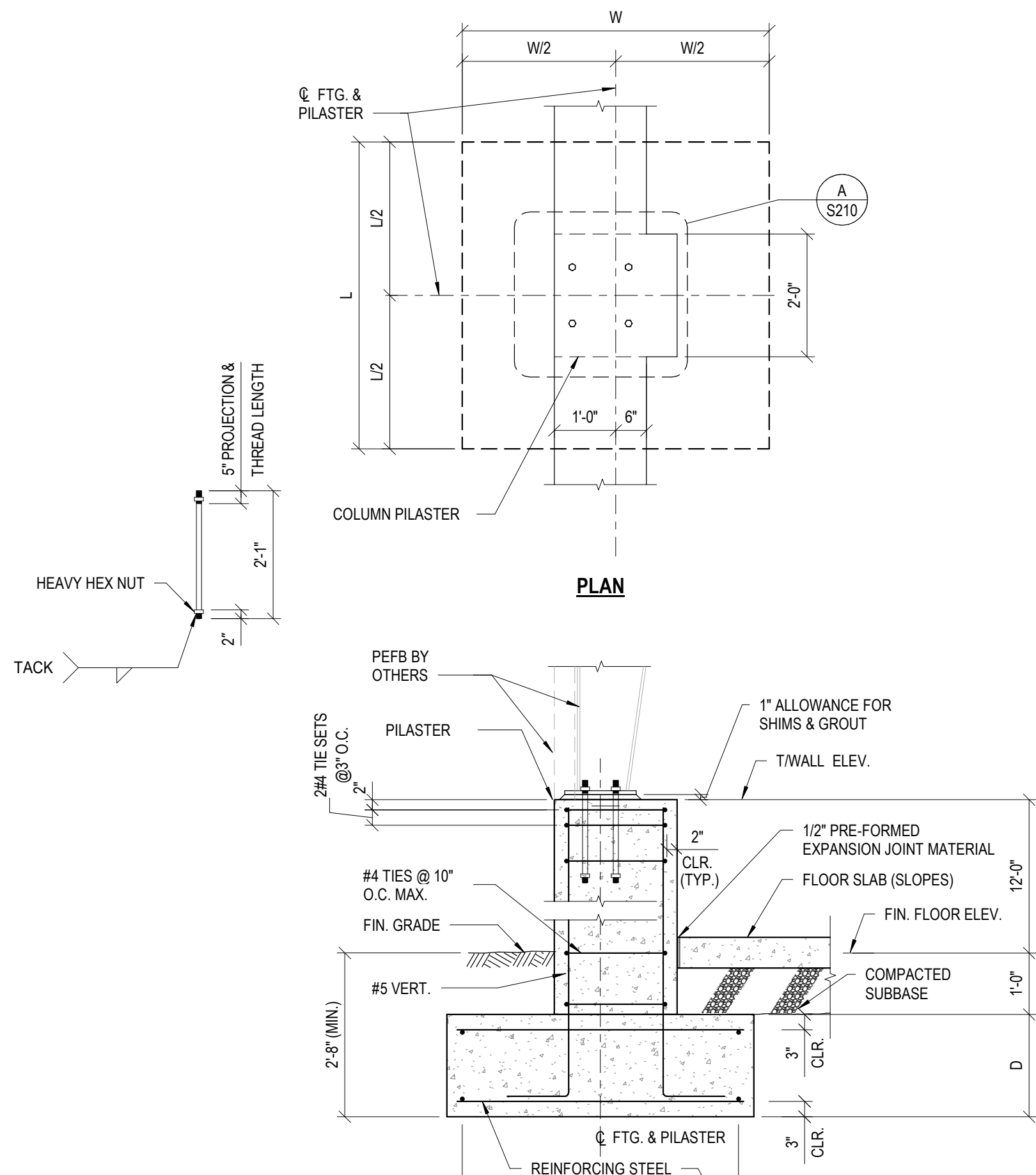
- FOUNDATION PLAN NOTES**
- REFER TO ARCHITECTURAL OR CIVIL DRAWINGS FOR FINISHED FLOOR ELEVATION ABOVE SEA LEVEL. REFERENCE FINISH FLOOR ELEVATION OF 100'-0" IS USED ON THE STRUCTURAL DRAWINGS. ALL ELEVATIONS ARE REFERENCED FROM THIS ELEVATION.
  - UNREINFORCED CONCRETE SLAB-ON-GRADE. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE RECOMMENDATIONS. SLOPE TO DRAINS, REFER TO ARCH. DRAWINGS FOR SLOPE.
  - CONSTRUCTION OR CONTRACTION JOINTS SPACED EQUALLY BETWEEN COLUMNS AT 20'-0" O.C. MAX. REFER TO JOINT DETAILS ON SHEET S220.
  - PROVIDE SLAB REINFORCEMENT AT ALL RE-ENTRANT CORNERS PER DETAIL ON SHEET S220.
  - \* - DENOTES FOOTING MARK. SEE FOOTING SCHEDULE FOR FOOTING SIZE AND REINFORCING.
  - INTERFACE BETWEEN FOUNDATION AND PEMB SHALL BE VERIFIED BY PEMB DESIGN ENGINEER PRIOR TO THE RELEASE OF STRUCTURAL DRAWINGS AND FABRICATION.
  - COORDINATE LOCATIONS AND SIZES OF ALL DEPRESSED SLAB AREAS, FLOOR SLOPES, CURBS, AND DRAINS WITH THE ARCHITECTURAL DRAWINGS.
  - WHEN CONTINUOUS FOOTINGS CHANGE WIDTH, LONGITUDINAL REINFORCING IN THE NARROW FOOTINGS SHALL EXTEND 2'-0" MINIMUM PAST CHANGE IN WIDTH.

FOOTING SCHEDULE - SALT BARN					
MARK	WIDTH (W)	LENGTH (L)	DEPTH (D)	REINFORCING	
*F8.0'	8'-0"	8'-0"	1'-8"	4#5 TOP & BOTTOM EACH WAY	
*F8.5'	8'-6"	8'-6"	1'-8"	7#5 TOP & BOTTOM EACH WAY	
*F14.0'	14'-0"	14'-0"	1'-8"	10#5 TOP & BOTTOM EACH WAY	
*F15.5'	15'-6"	15'-6"	1'-8"	11#5 TOP & BOTTOM EACH WAY	
*W2.0'	2'-0"	CONT.	1'-0"	2#5 CONT.	
*W3.0'	3'-0"	CONT.	1'-8"	5#5 CONT. BOTTOM #5 @ 1'-0" O.C. TRANSVERSE	
*W4.0'	4'-0"	CONT.	1'-8"	6#5 CONT. BOTTOM #5 @ 1'-0" O.C. TRANSVERSE	
*W5.0'	5'-0"	CONT.	1'-8"	7#5 CONT. BOTTOM #5 @ 1'-0" O.C. TRANSVERSE	

**NOTE:**  
REINFORCING BARS IN CONTINUOUS FOOTINGS SHALL EXTEND 2'-6" MINIMUM INTO ADJACENT SPREAD FOOTINGS.

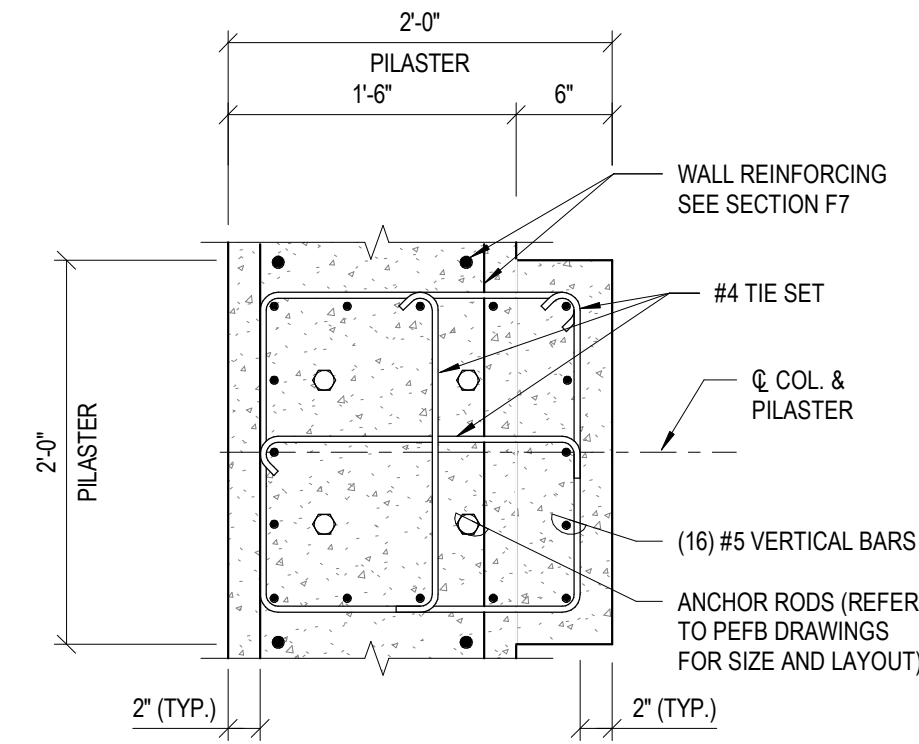


**FOUNDATION PLAN - SITE STORAGE BAYS (ALTERNATE #2)**  
SCALE: 1/8" = 1'-0"  
NOTE:  
REFER TO CIVIL DRAWINGS FOR LOCATION ON SITE.

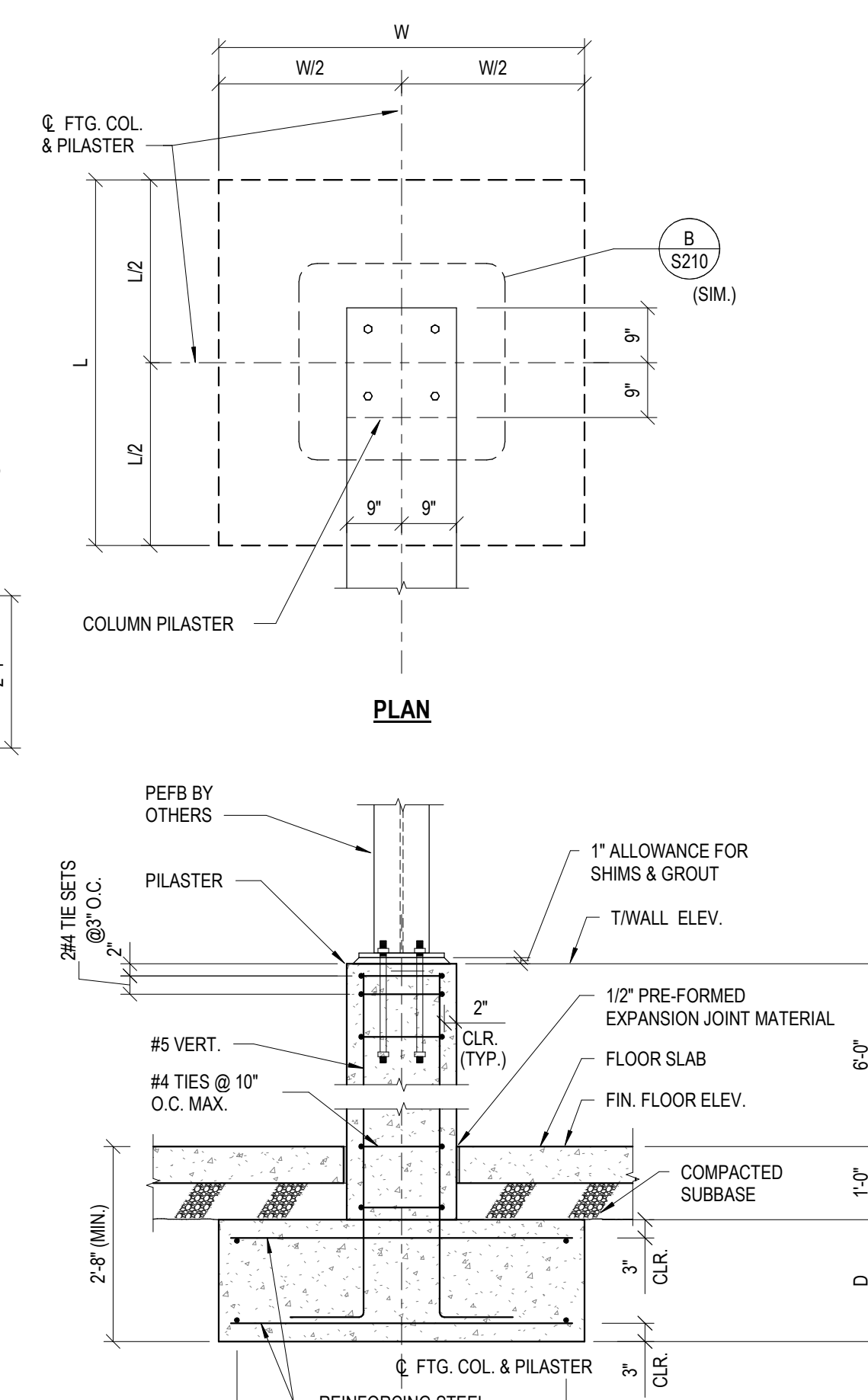


F1 COLUMN FOOTING SECTION  
SCALE: NOT TO SCALE

- NOTES:
- SEE FOOTING SCHEDULE FOR L, W, D AND REINFORCING STEEL.
  - INTERFACE BETWEEN FOUNDATION AND PEFB SHALL BE VERIFIED BY PEFB DESIGN ENGINEER PRIOR TO THE RELEASE OF STRUCTURAL SHOP DRAWINGS AND FABRICATION.
  - CONTINUOUS WALL REINFORCING NOT SHOWN FOR CLARITY.

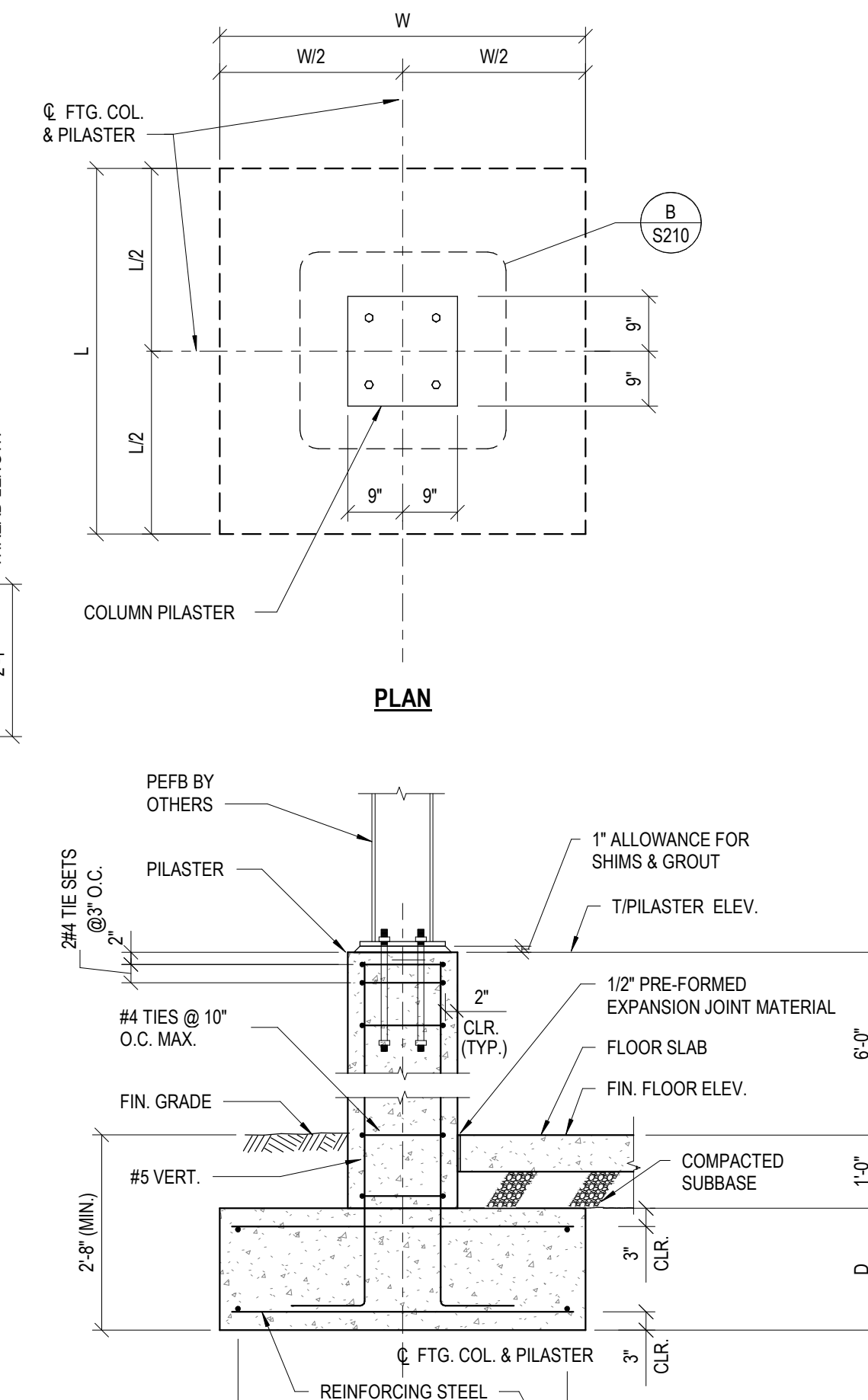


A DETAIL  
SCALE: NOT TO SCALE



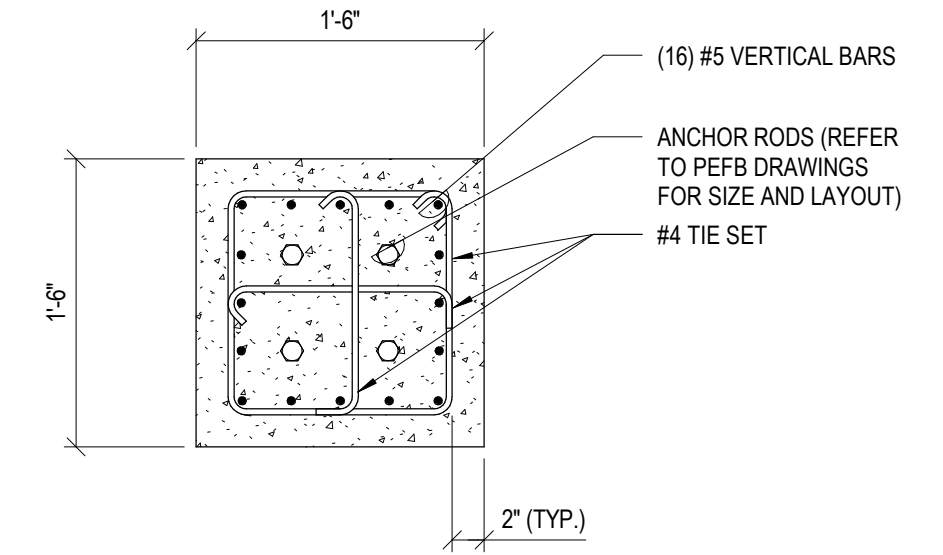
F2 COLUMN FOOTING SECTION  
SCALE: NOT TO SCALE

- NOTES:
- SEE FOOTING SCHEDULE FOR L, W, D AND REINFORCING STEEL.
  - INTERFACE BETWEEN FOUNDATION AND PEFB SHALL BE VERIFIED BY PEFB DESIGN ENGINEER PRIOR TO THE RELEASE OF STRUCTURAL SHOP DRAWINGS AND FABRICATION.
  - CONTINUOUS WALL REINFORCING NOT SHOWN FOR CLARITY.

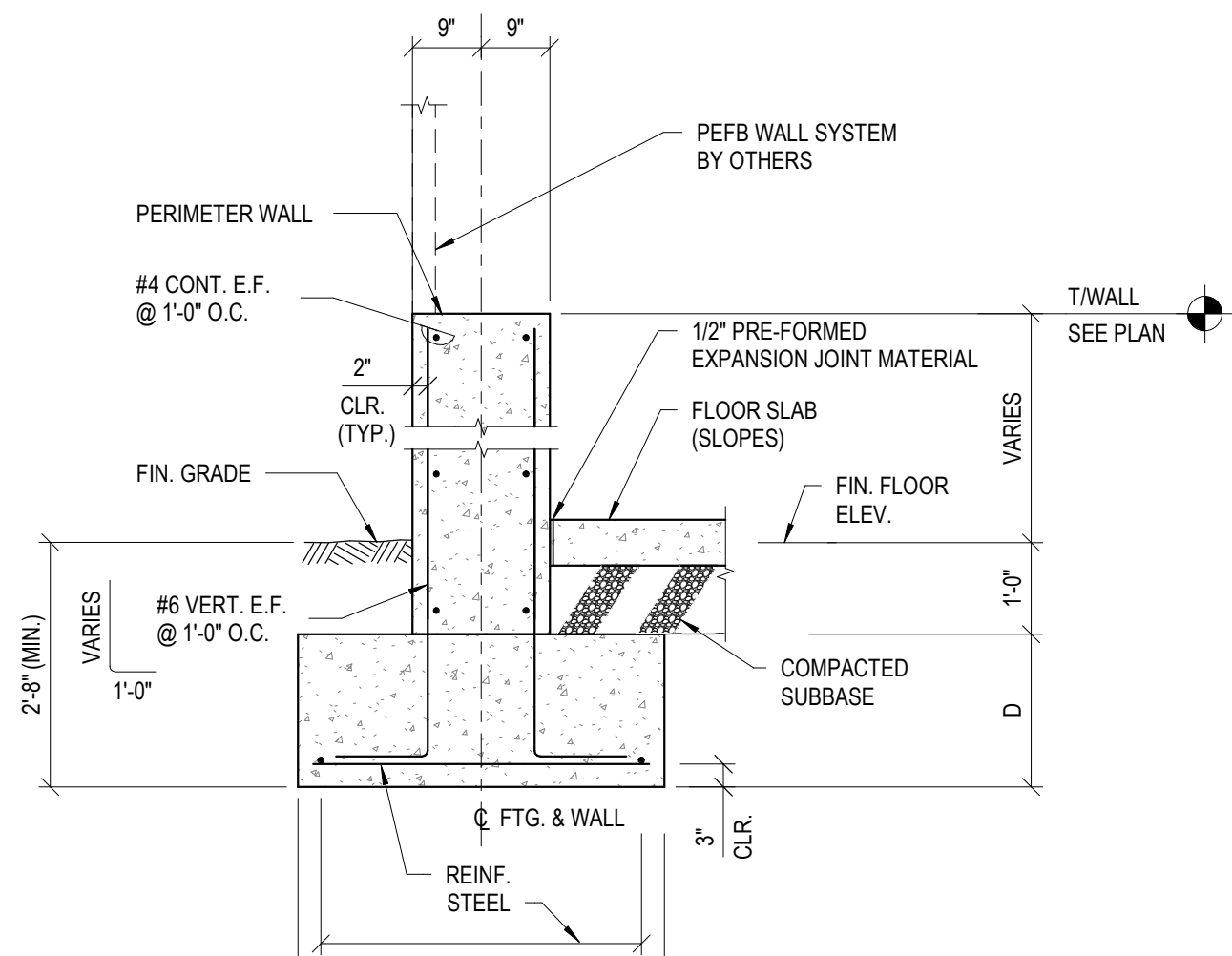


F3 COLUMN FOOTING SECTION  
SCALE: NOT TO SCALE

- NOTES:
- SEE FOOTING SCHEDULE FOR L, W, D AND REINFORCING STEEL.
  - INTERFACE BETWEEN FOUNDATION AND PEFB SHALL BE VERIFIED BY PEFB DESIGN ENGINEER PRIOR TO THE RELEASE OF STRUCTURAL SHOP DRAWINGS AND FABRICATION.
  - CONTINUOUS WALL REINFORCING NOT SHOWN FOR CLARITY.

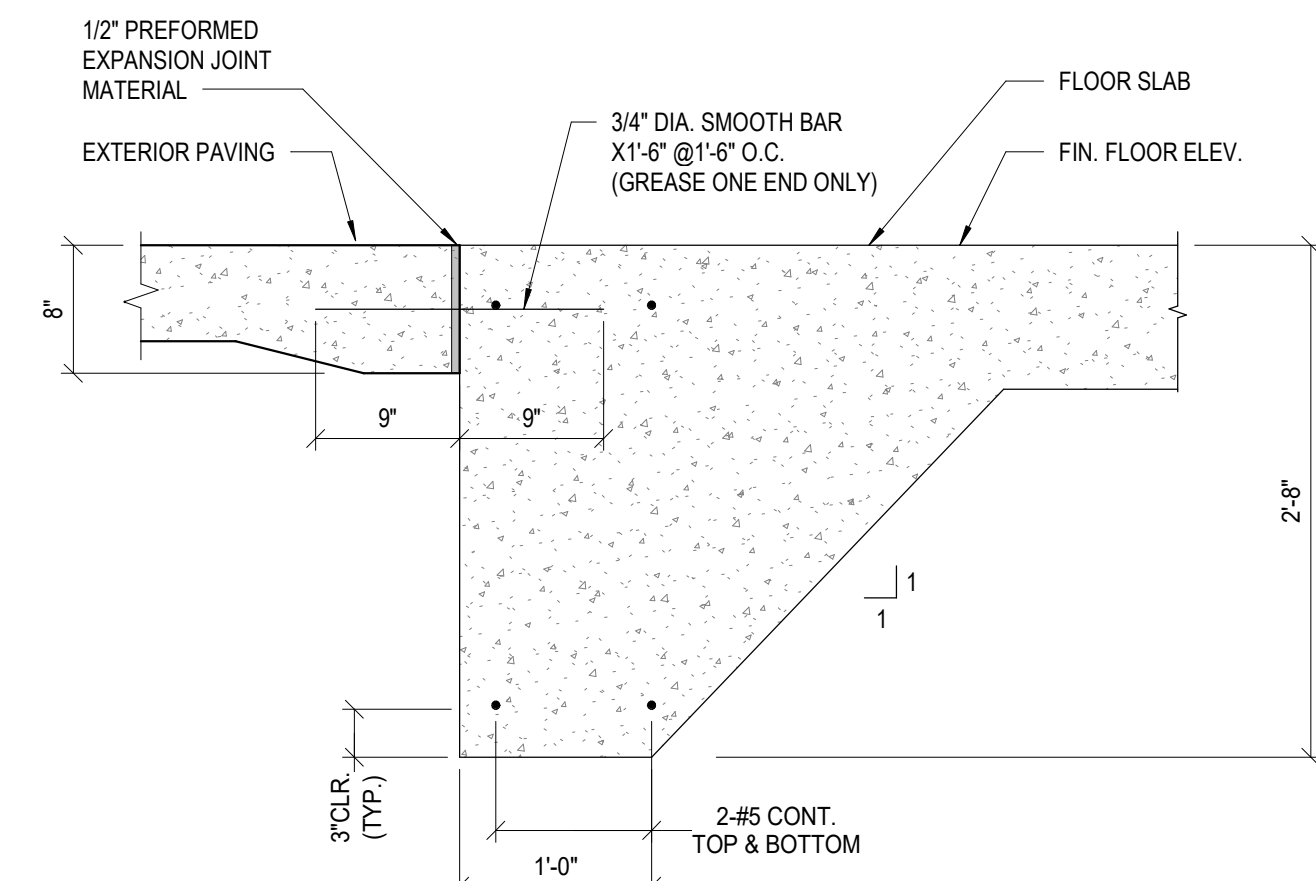


B DETAIL  
SCALE: NOT TO SCALE

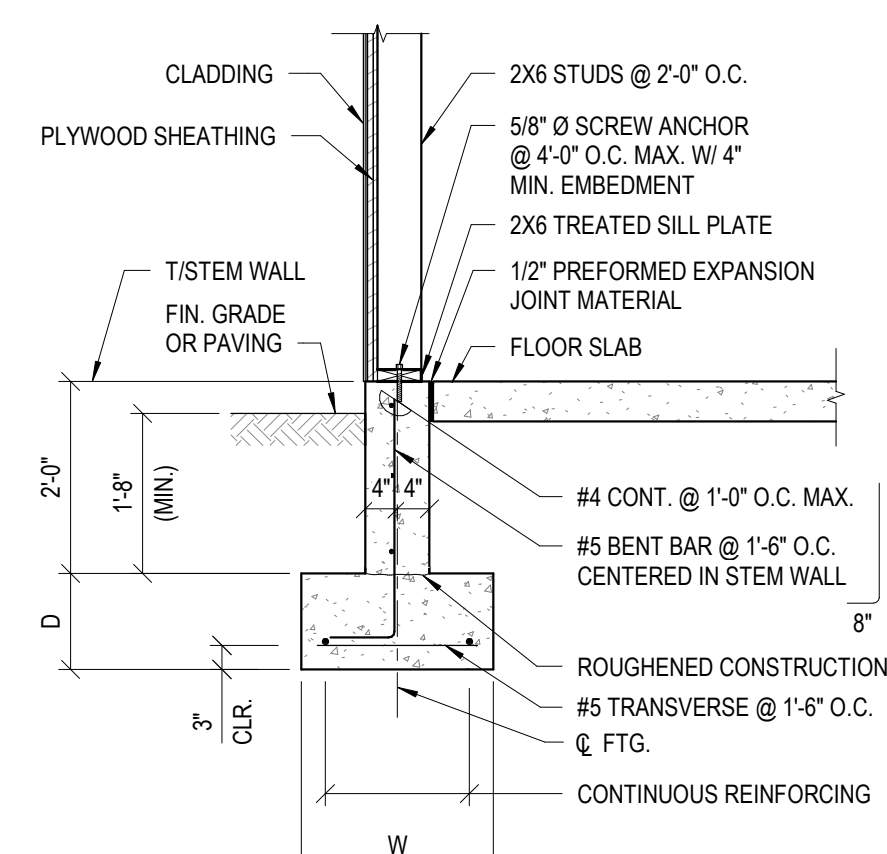


F4 PERIMETER WALL SECTION  
SCALE: NOT TO SCALE

- NOTES:
- SEE FOOTING SCHEDULE FOR L, W, D AND REINFORCING STEEL.
  - INTERFACE BETWEEN FOUNDATION AND PEFB SHALL BE VERIFIED BY PEFB DESIGN ENGINEER PRIOR TO THE RELEASE OF STRUCTURAL SHOP DRAWINGS AND FABRICATION.

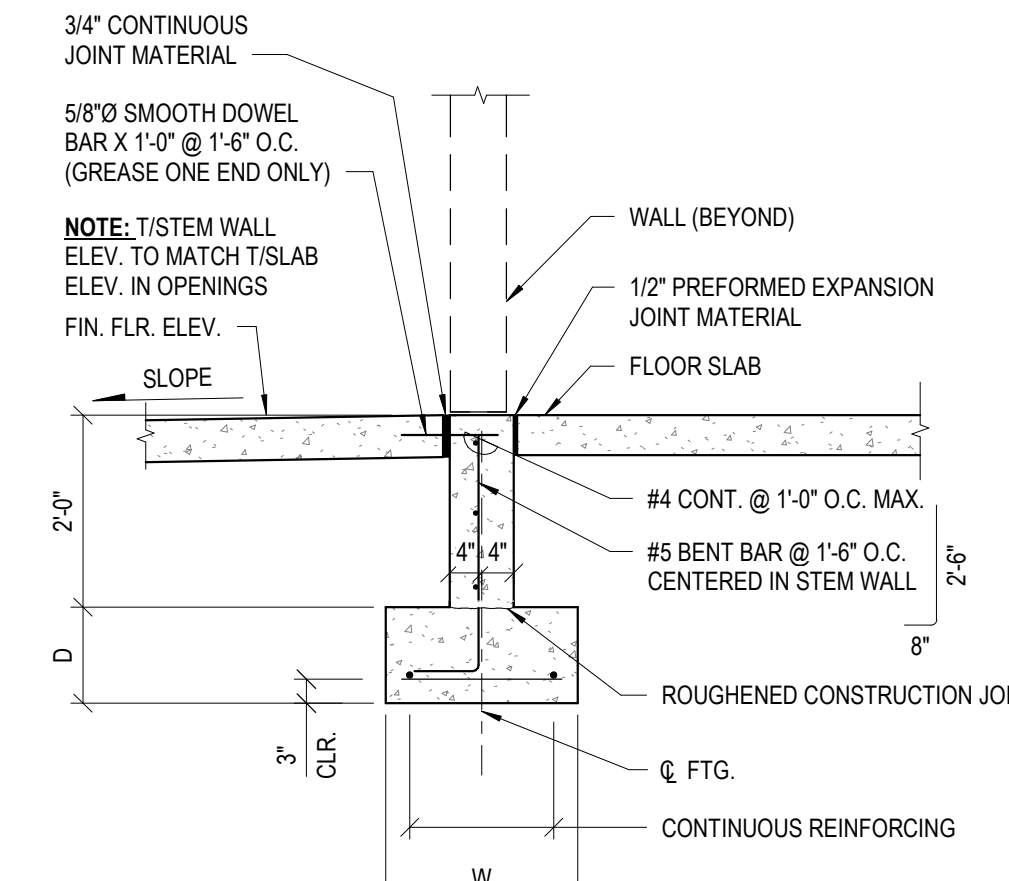


F5 PERIMETER SLAB SECTION  
SCALE: NOT TO SCALE



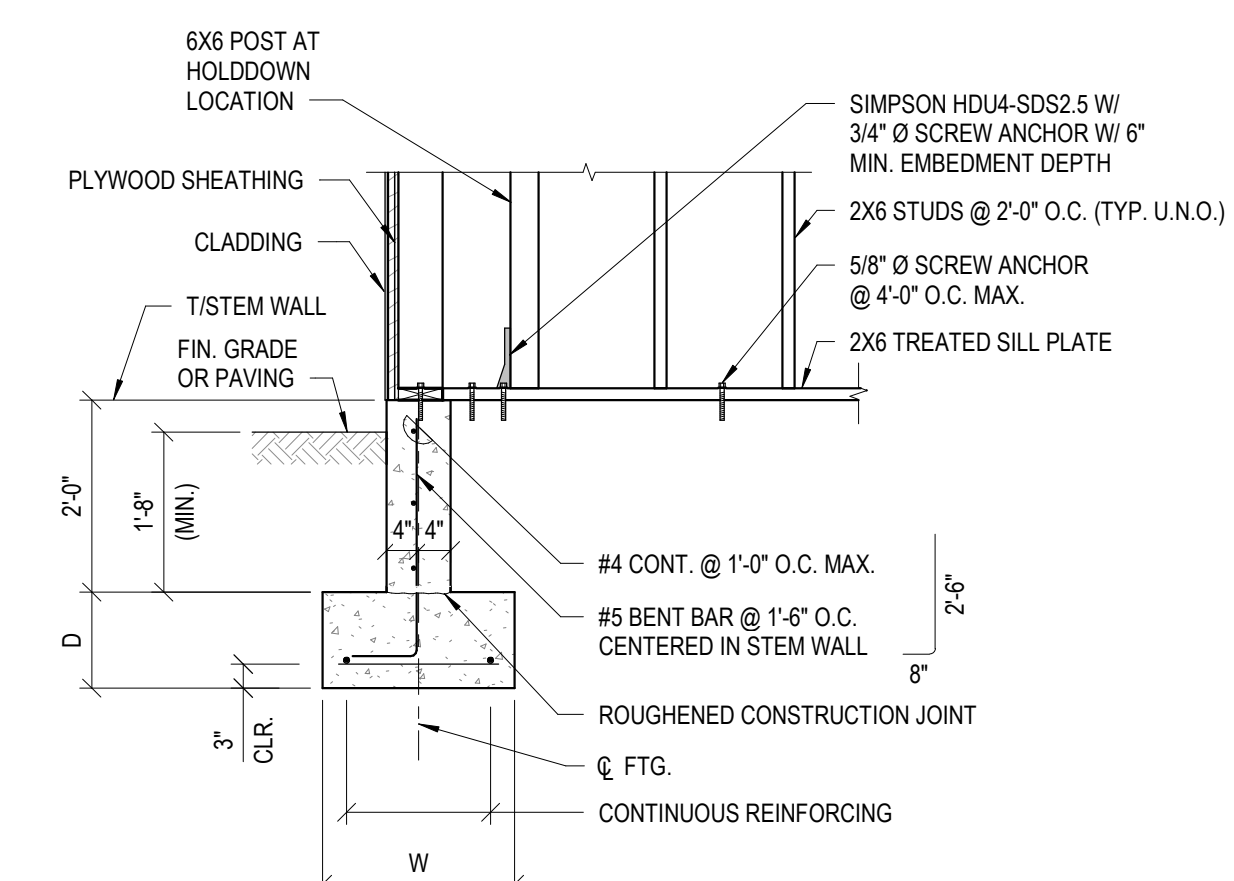
F10 WALL FOOTING SECTION  
SCALE: NOT TO SCALE

- NOTE:
- SEE FOOTING SCHEDULE FOR W, D AND REINFORCING STEEL.



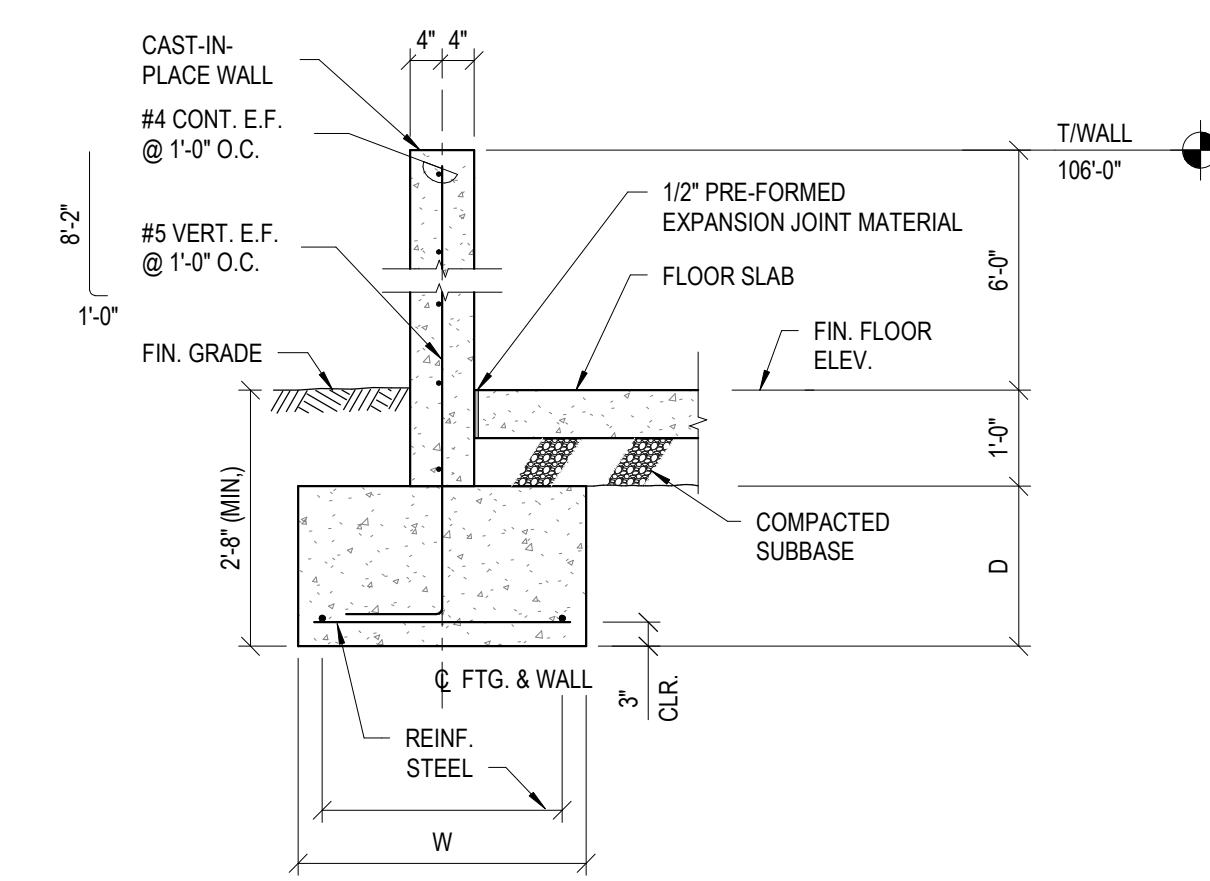
F11 WALL OPENING FOOTING SECTION  
SCALE: NOT TO SCALE

- NOTE:
- SEE FOOTING SCHEDULE FOR W, D AND REINFORCING STEEL.



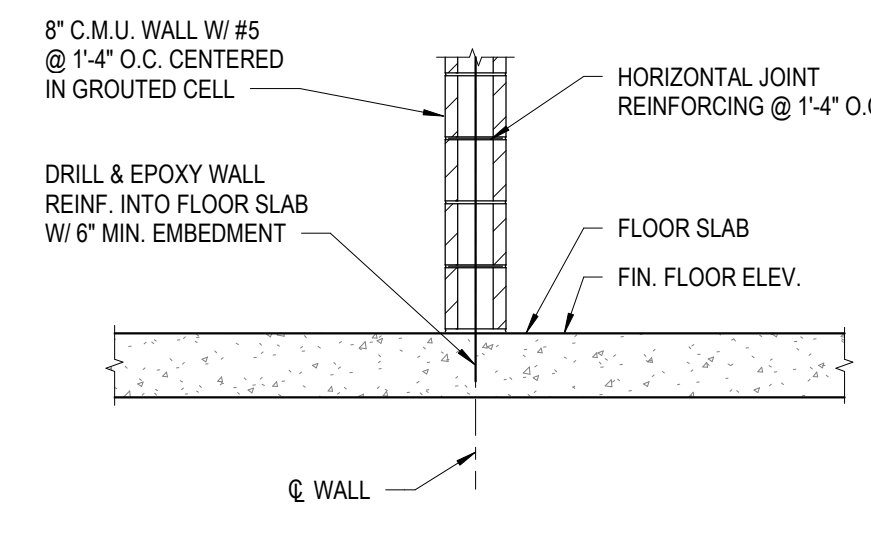
F12 HOLDOWN SECTION  
SCALE: NOT TO SCALE

- NOTE:
- SEE FOOTING SCHEDULE FOR W, D AND REINFORCING STEEL.



F20 STORAGE BAY WALL SECTION  
SCALE: NOT TO SCALE

- NOTE:
- SEE FOOTING SCHEDULE FOR L, W, D AND REINFORCING STEEL.



F30 C.M.U. WALL SECTION  
SCALE: NOT TO SCALE



CONSULTANT:  
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NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9 ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
BEAVERCREEK, OHIO 43004  
220 DUTTON AVENUE, SUITE 200

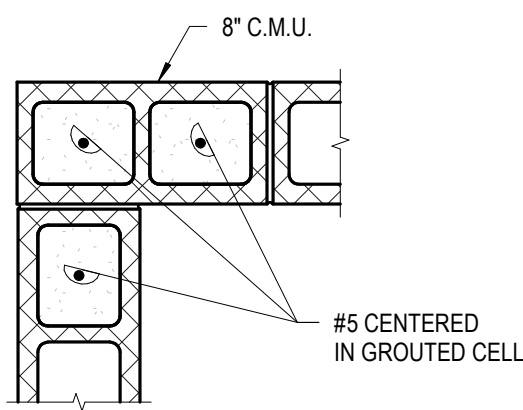
ISSUANCES/REVISIONS		
OWNER REVIEW		09/26/2023
BID DOCUMENTS		10/05/2023

LIB PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
0122075A.00	BJF	JEF

SHEET TITLE:

**FOUNDATION**  
**DETAILS**

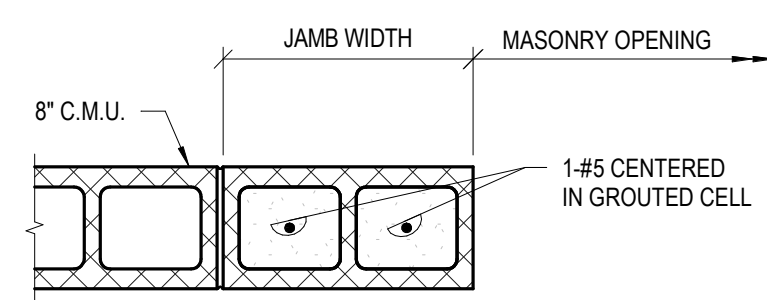
SHEET NUMBER:  
**S210**



**NOTE:**  
AT BOND BEAMS ADD CORNER BARS TO MAKE HORIZONTAL REINFORCING CONTINUOUS

**C.M.U. CORNER DETAIL**

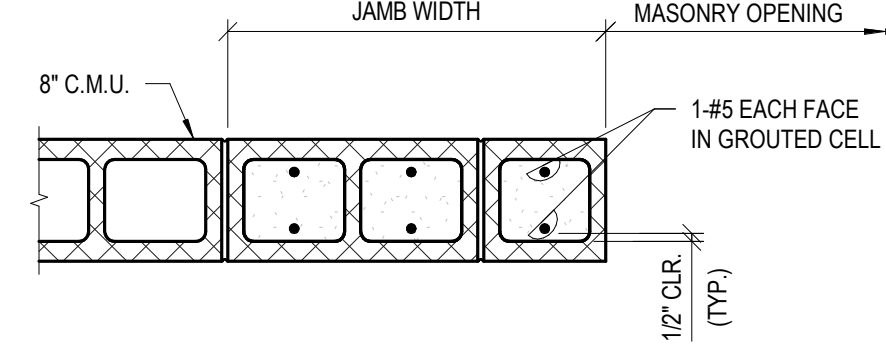
SCALE: NOT TO SCALE



**TYPICAL C.M.U. JAMB REINFORCING DETAIL**

SCALE: NOT TO SCALE

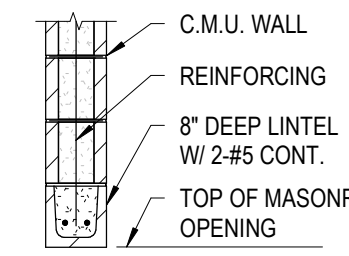
FOR OPENINGS LESS THAN 8'-0" WIDE



**TYPICAL STEEL LINTEL JAMB REINFORCING DETAIL**

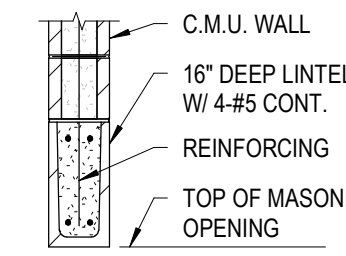
SCALE: NOT TO SCALE

FOR MASONRY OPENINGS GREATER THAN 8'-0" WIDE



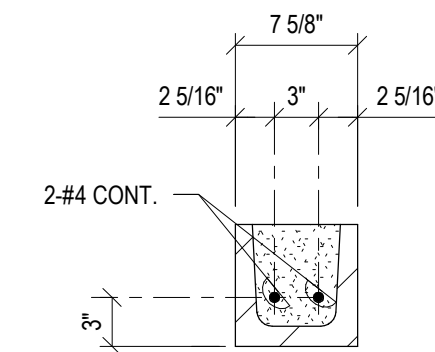
**C.M.U. LINTEL**

FOR MASONRY OPENINGS UP TO 4'-0" IN WIDTH

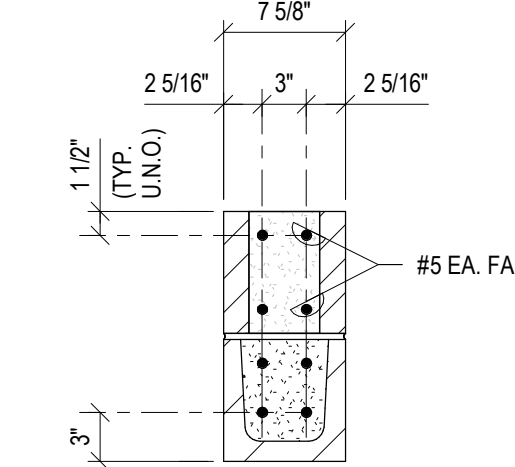


**C.M.U. LINTEL**

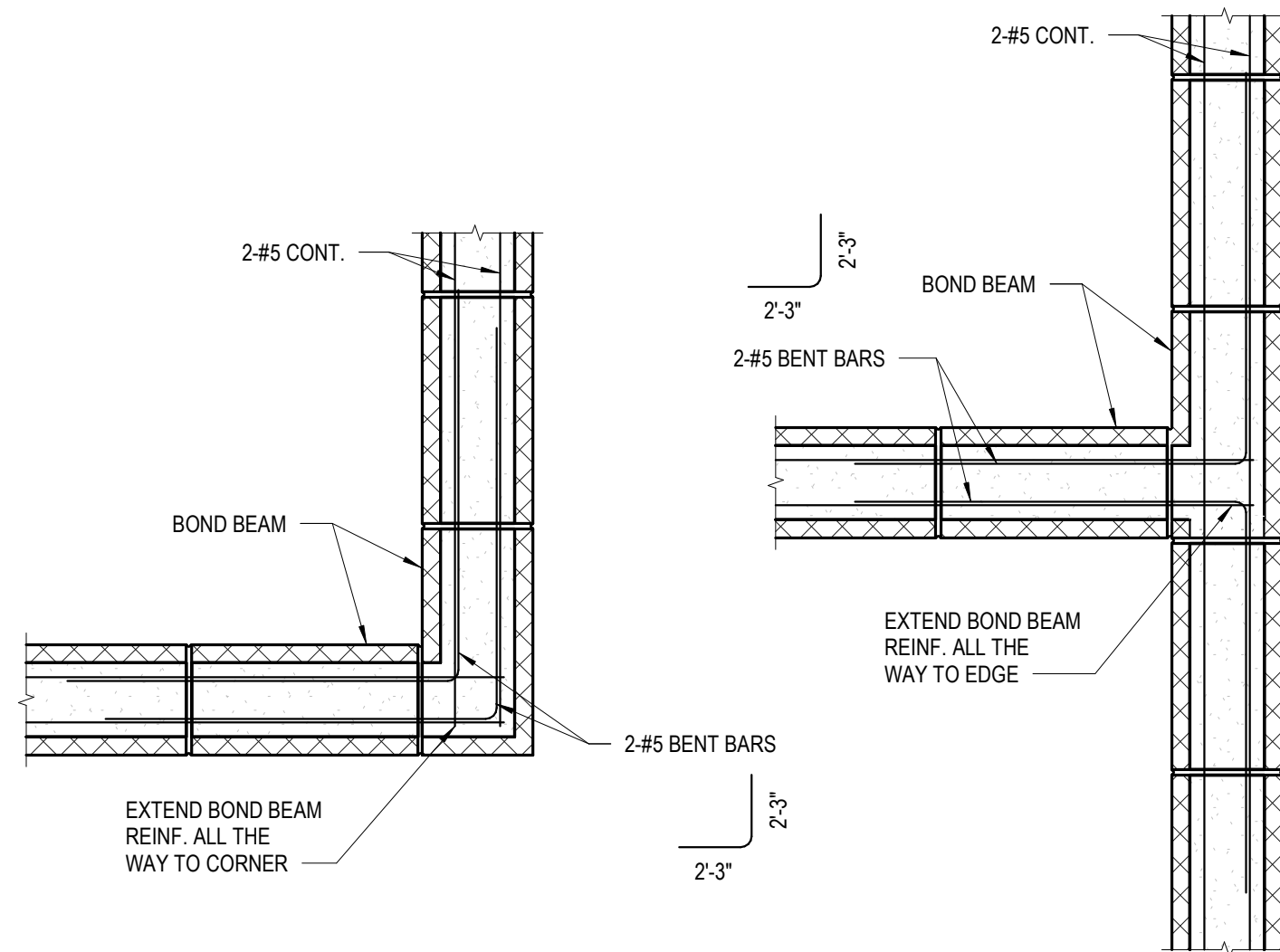
FOR MASONRY OPENINGS UP TO 8'-0" IN WIDTH



**8" DEEP BOND BEAM**

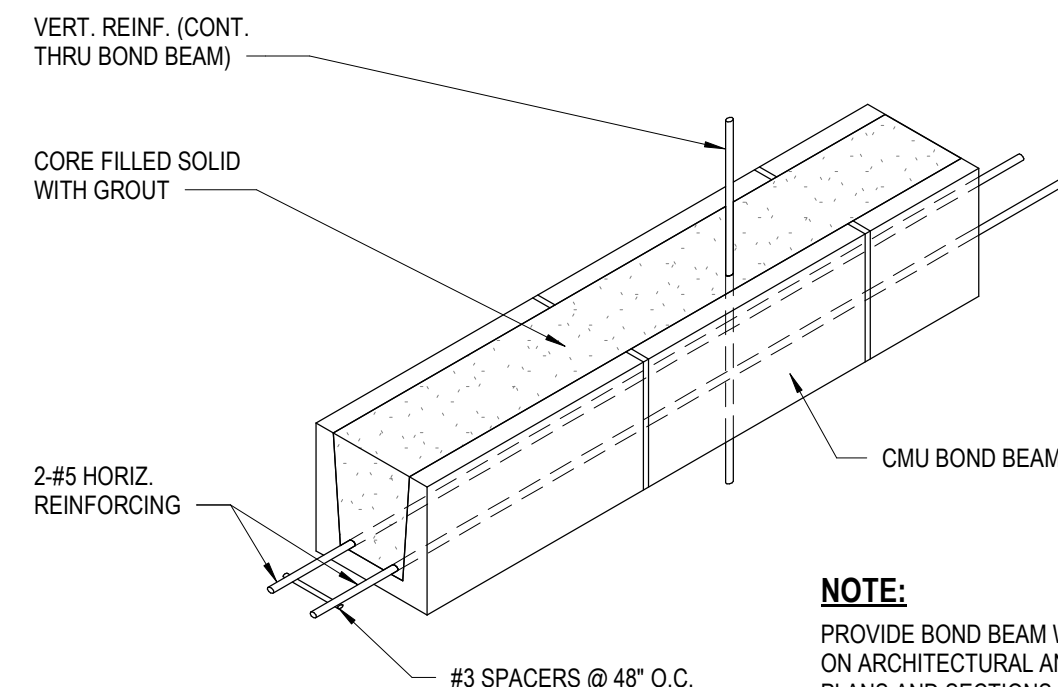
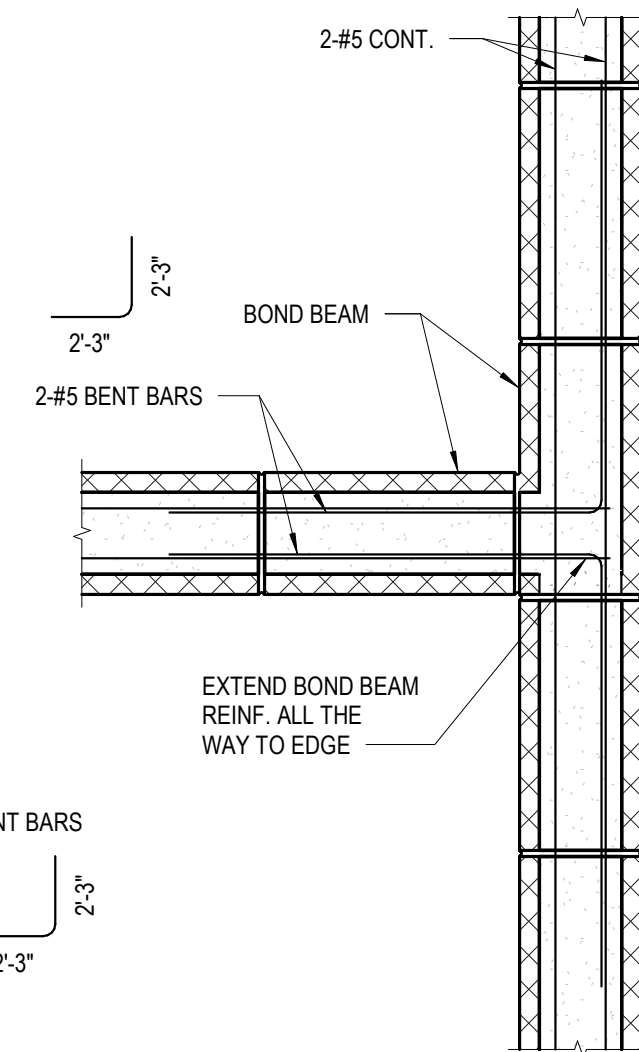


**16" DEEP BOND BEAM**



**TYP. BOND BEAM CORNER REINFORCING**

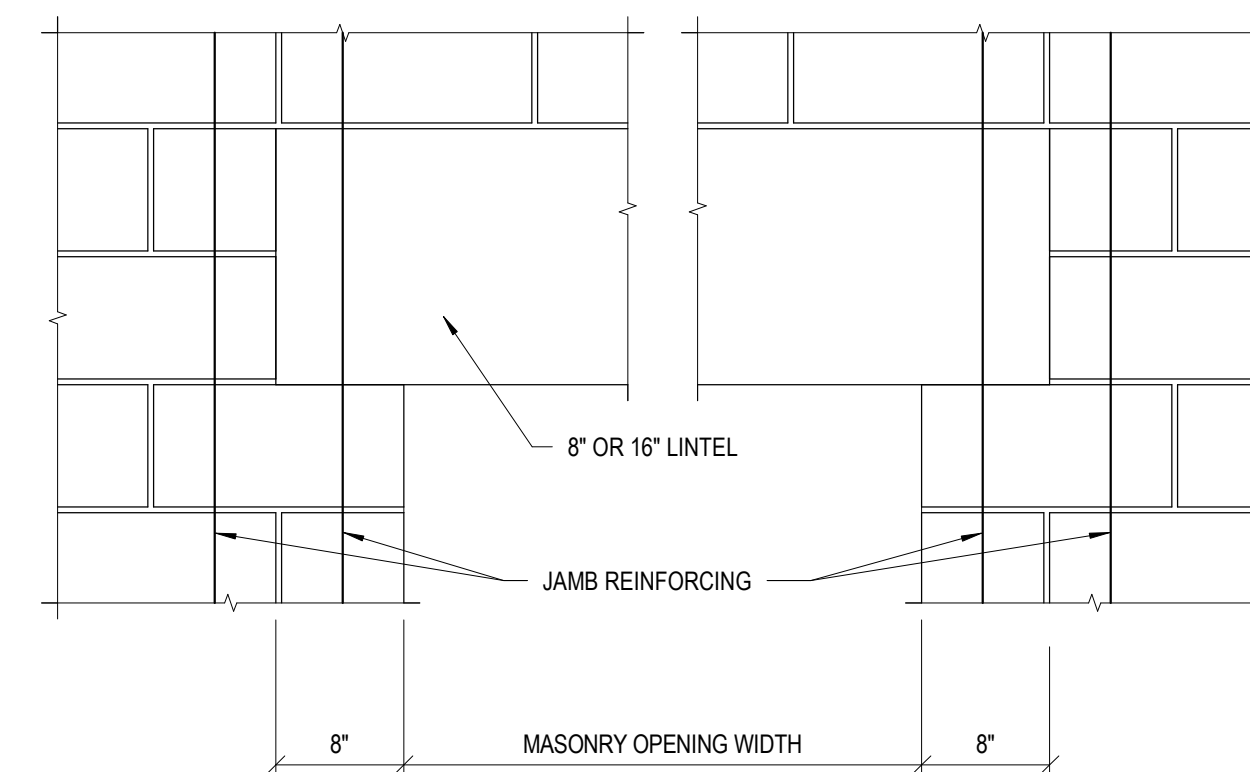
SCALE: NOT TO SCALE



**TYPICAL BOND BEAM DETAIL**

SCALE: NOT TO SCALE

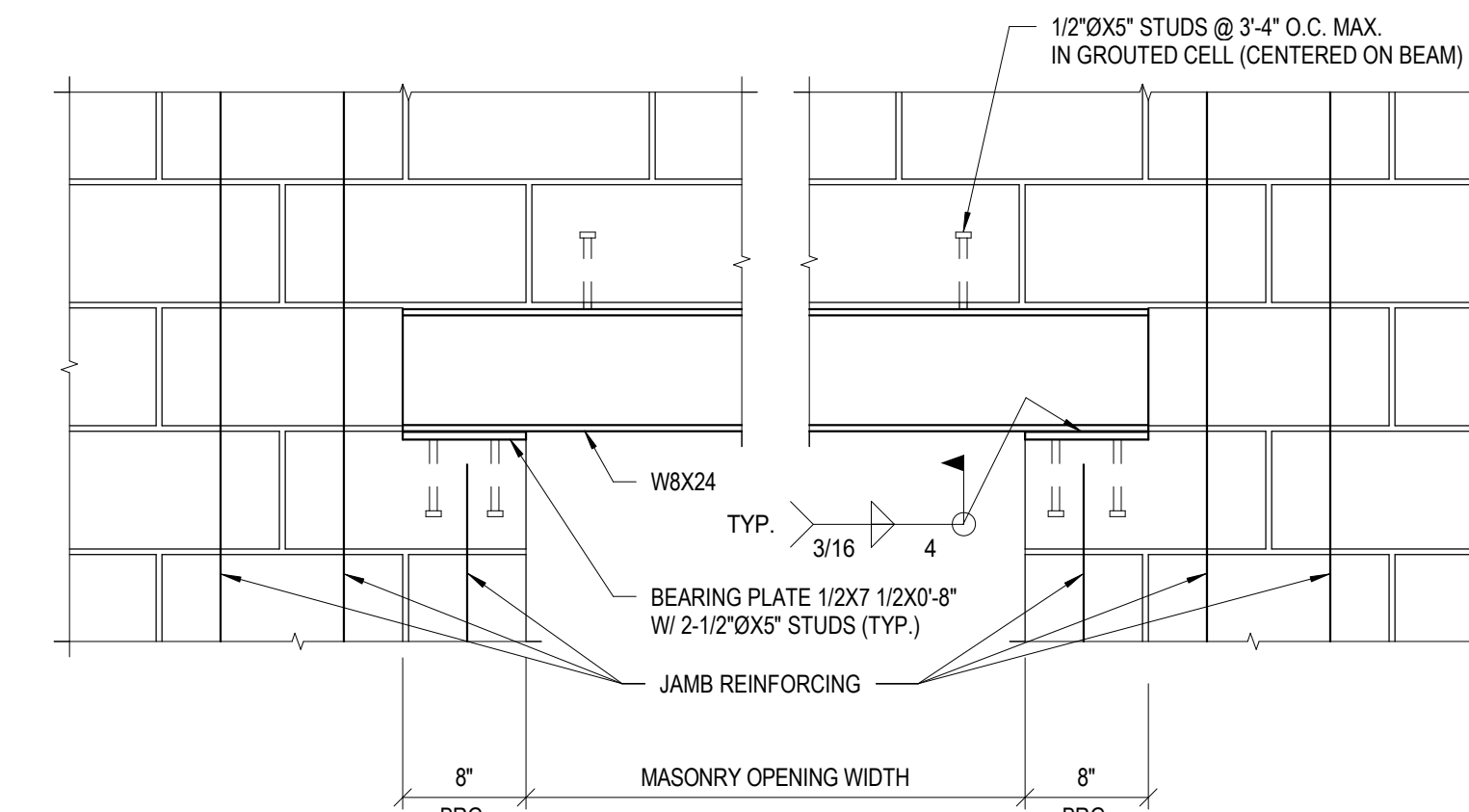
**NOTE:**  
PROVIDE BOND BEAM WHERE SHOWN ON ARCHITECTURAL AND STRUCTURAL PLANS AND SECTIONS.



**C.M.U. LINTEL DETAIL**

SCALE: NOT TO SCALE

(TYP. @ ALL C.M.U. WALL OPENINGS 8'-0" WIDE OR LESS)



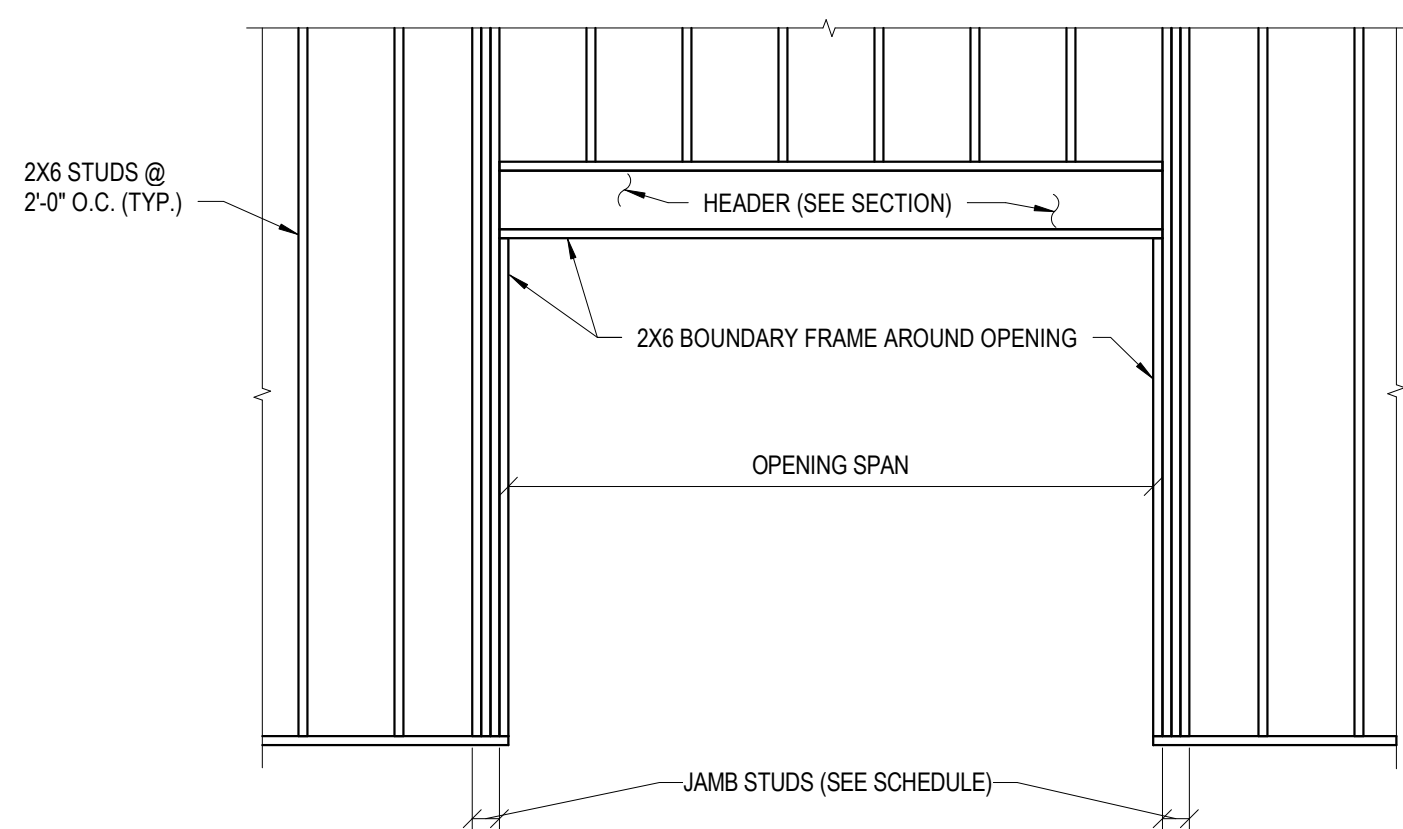
**STEEL LINTEL DETAIL**

SCALE: NOT TO SCALE

(ALTERNATE FOR C.M.U. WALL OPENINGS UP TO 12'-0" WIDE)

**NOTE:**  
LINTELS SHALL BE PROVIDED FOR ALL OPENINGS AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS IN ADDITION, LINTELS ARE REQUIRED FOR ANY MECHANICAL, ELECTRICAL, OR PLUMBING OPENING IN A MASONRY WALL WITH A WIDTH EQUAL TO OR GREATER THAN 1'-0".

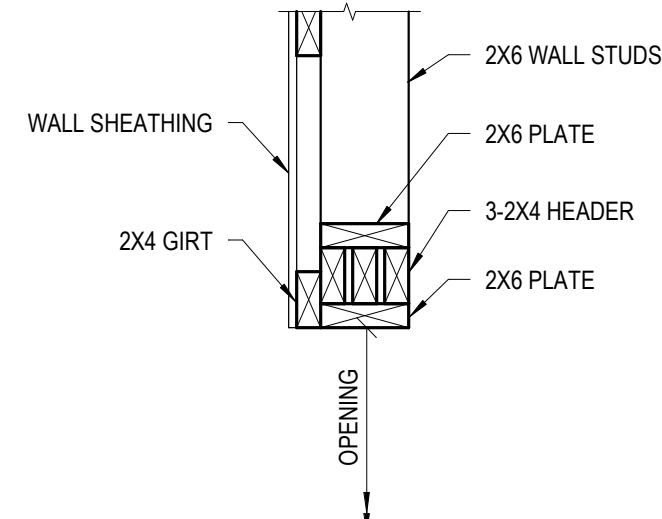
**NOTE:**  
LINTELS SHALL BE PROVIDED FOR ALL OPENINGS AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS IN ADDITION, LINTELS ARE REQUIRED FOR ANY MECHANICAL, ELECTRICAL, OR PLUMBING OPENING IN A MASONRY WALL WITH A WIDTH EQUAL TO OR GREATER THAN 1'-0".



**TYPICAL STUD FRAMING AT OPENINGS**

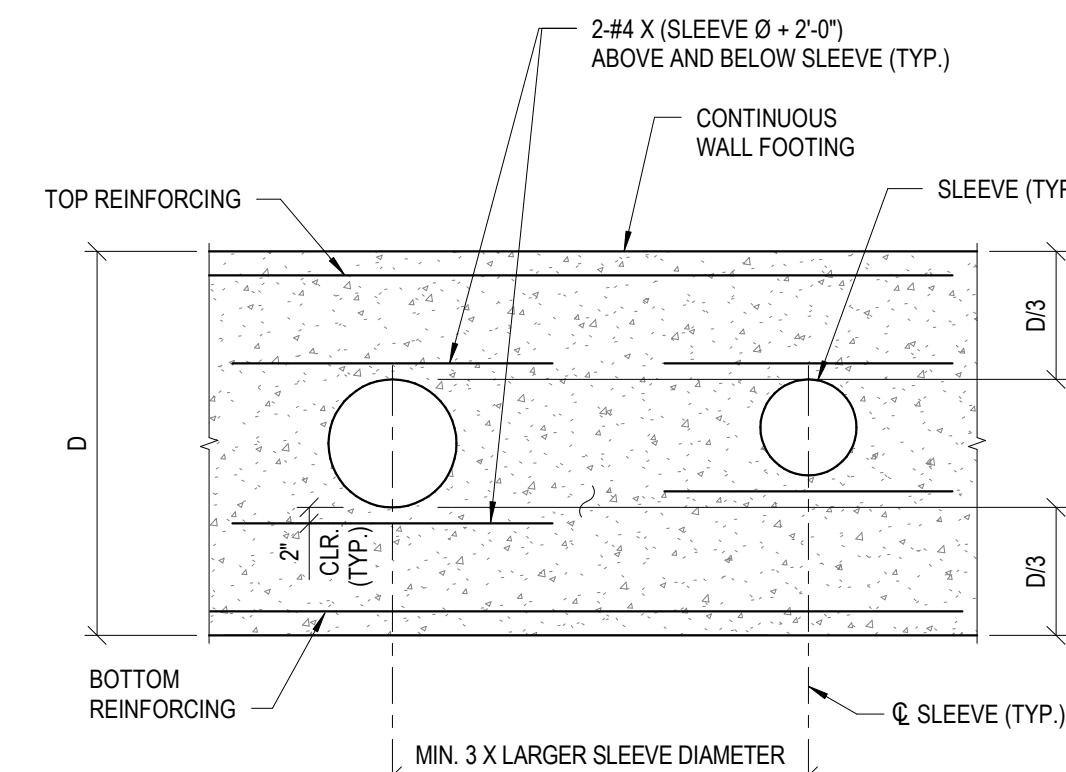
SCALE: NOT TO SCALE

JAMB SCHEDULE	
SPAN	JAMB
UP TO 4'-0"	2-2X6
4'-1" TO 10'-0"	3-2X6



**TYPICAL HEADER SECTION**

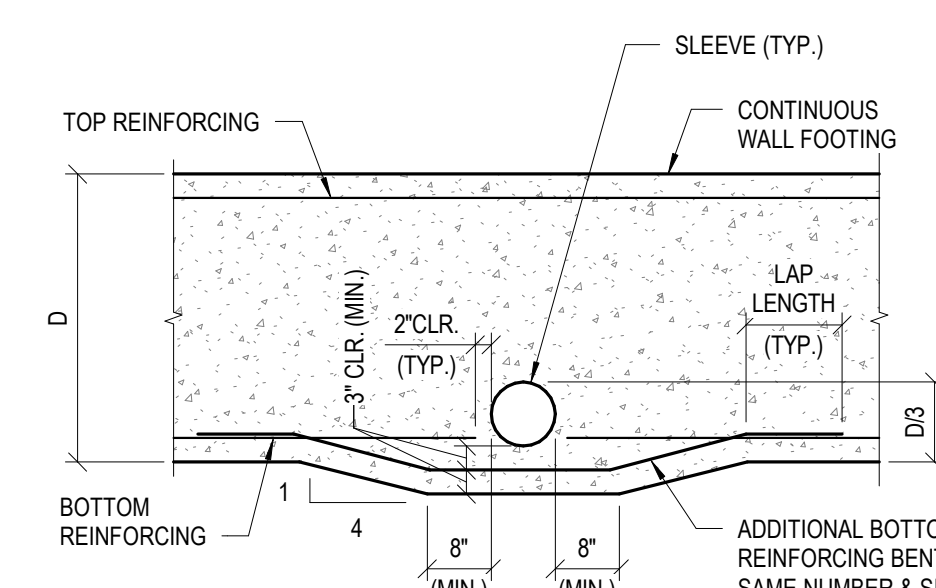
SCALE: NOT TO SCALE



**PENETRATION THROUGH MIDDLE THIRD OF WALL FOOTING**

SCALE: NOT TO SCALE

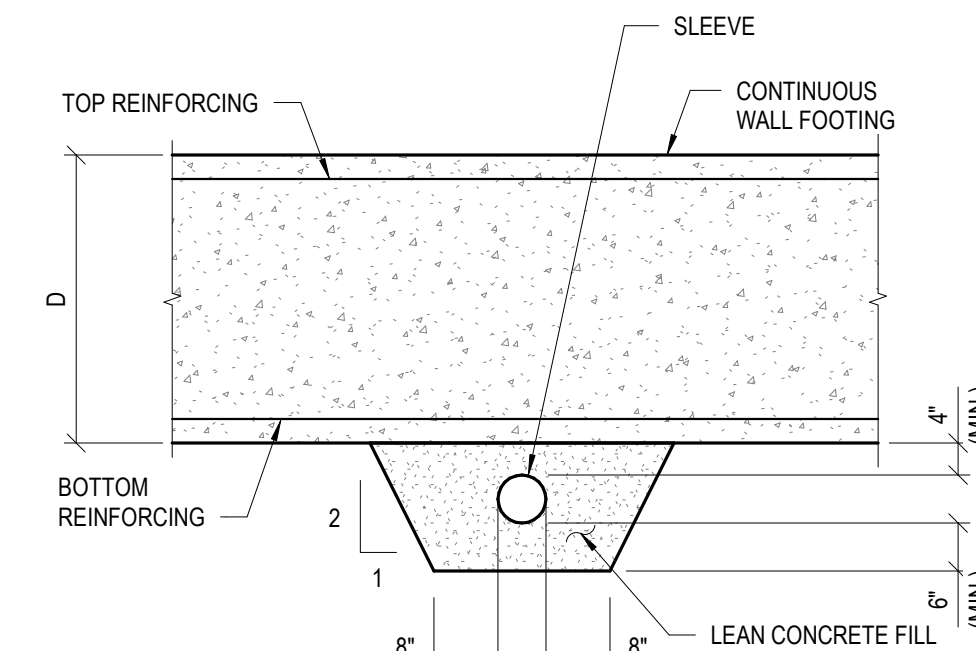
**NOTES:**  
1. PIPE/CONDUIT TO CLEAR SLEEVE BY A MINIMUM OF 1/2" ALL THE WAY AROUND.  
2. SLEEVE PENETRATION IS NOT ALLOWED IN TOP 1/3 OF FOOTING.  
3. WHERE TOP OF SLEEVE IS 2'-0" OR GREATER BELOW BOTTOM OF FOOTING FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR HOW TO FILL TRENCH.  
4. CONTRACTOR SHALL COORDINATE ALL PIPE/CONDUIT SLEEVE LOCATIONS BEFORE BEGINNING CONSTRUCTION.  
5. WHEN PIPE/CONDUIT IS BELOW WALL FOOTING PLACE LEAN CONCRETE FILL AROUND SLEEVES BEFORE POURING WALL FOOTINGS.



**PENETRATION THROUGH BOTTOM THIRD OF WALL FOOTING**

SCALE: NOT TO SCALE

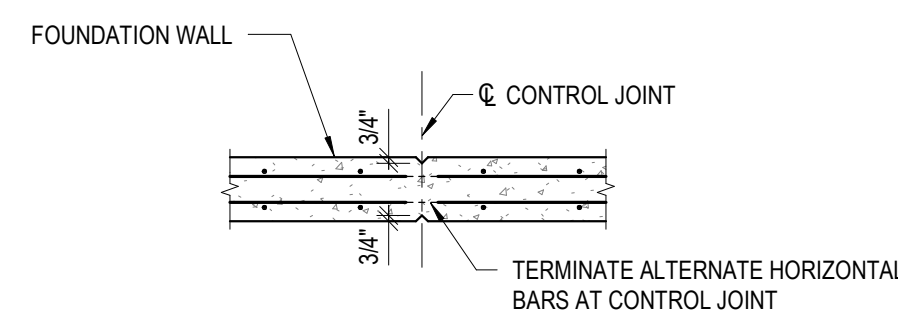
**NOTES:**  
1. PIPE/CONDUIT TO CLEAR SLEEVE BY A MINIMUM OF 1/2" ALL THE WAY AROUND.  
2. SLEEVE PENETRATION IS NOT ALLOWED IN TOP 1/3 OF FOOTING.  
3. WHERE TOP OF SLEEVE IS 2'-0" OR GREATER BELOW BOTTOM OF FOOTING FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR HOW TO FILL TRENCH.  
4. CONTRACTOR SHALL COORDINATE ALL PIPE/CONDUIT SLEEVE LOCATIONS BEFORE BEGINNING CONSTRUCTION.  
5. WHEN PIPE/CONDUIT IS BELOW WALL FOOTING PLACE LEAN CONCRETE FILL AROUND SLEEVES BEFORE POURING WALL FOOTINGS.



**SLEEVE BELOW WALL FOOTING**

SCALE: NOT TO SCALE

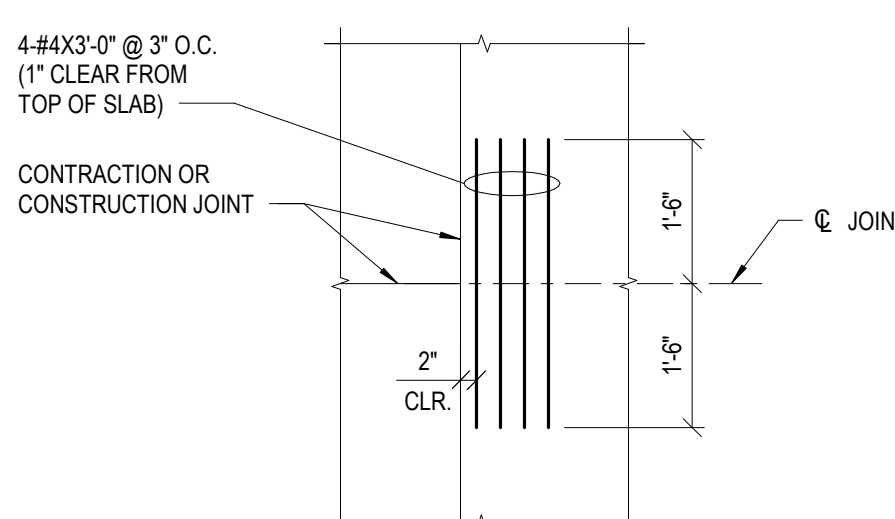
**NOTES:**  
1. PIPE/CONDUIT TO CLEAR SLEEVE BY A MINIMUM OF 1/2" ALL THE WAY AROUND.  
2. SLEEVE PENETRATION IS NOT ALLOWED IN TOP 1/3 OF FOOTING.  
3. WHERE TOP OF SLEEVE IS 2'-0" OR GREATER BELOW BOTTOM OF FOOTING FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR HOW TO FILL TRENCH.  
4. CONTRACTOR SHALL COORDINATE ALL PIPE/CONDUIT SLEEVE LOCATIONS BEFORE BEGINNING CONSTRUCTION.  
5. WHEN PIPE/CONDUIT IS BELOW WALL FOOTING PLACE LEAN CONCRETE FILL AROUND SLEEVES BEFORE POURING WALL FOOTINGS.



**FOUNDATION WALL CONSTRUCTION/CONTRACTION JOINT**

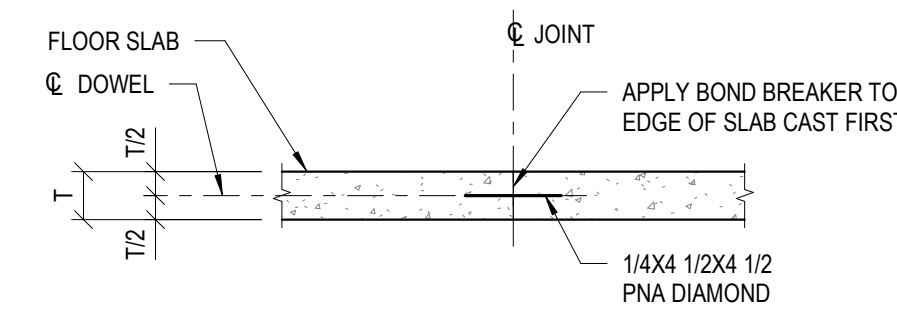
SCALE: NOT TO SCALE

**NOTE:**  
LOCATE CONTROL JOINTS @ 30'-0" MAX.



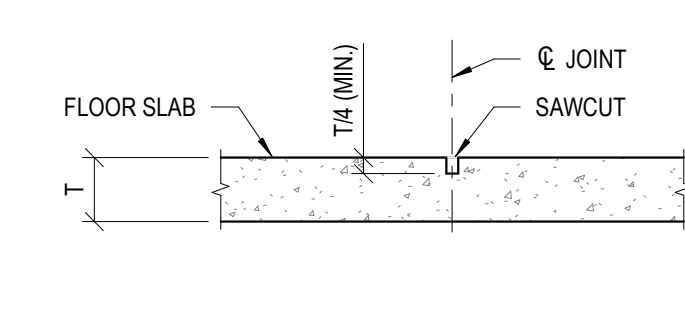
**TYPICAL DEAD END CONTROL JOINT REINFORCING**

SCALE: NOT TO SCALE



**CONSTRUCTION JOINT**

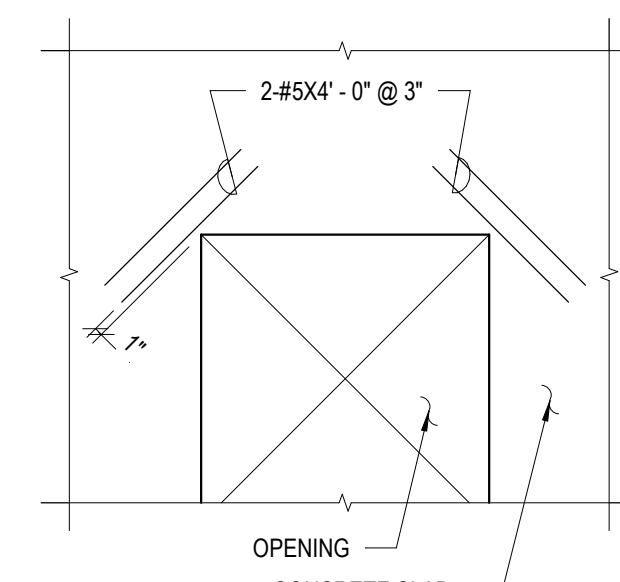
SCALE: NOT TO SCALE



**CONTRACTION JOINT**

SCALE: NOT TO SCALE

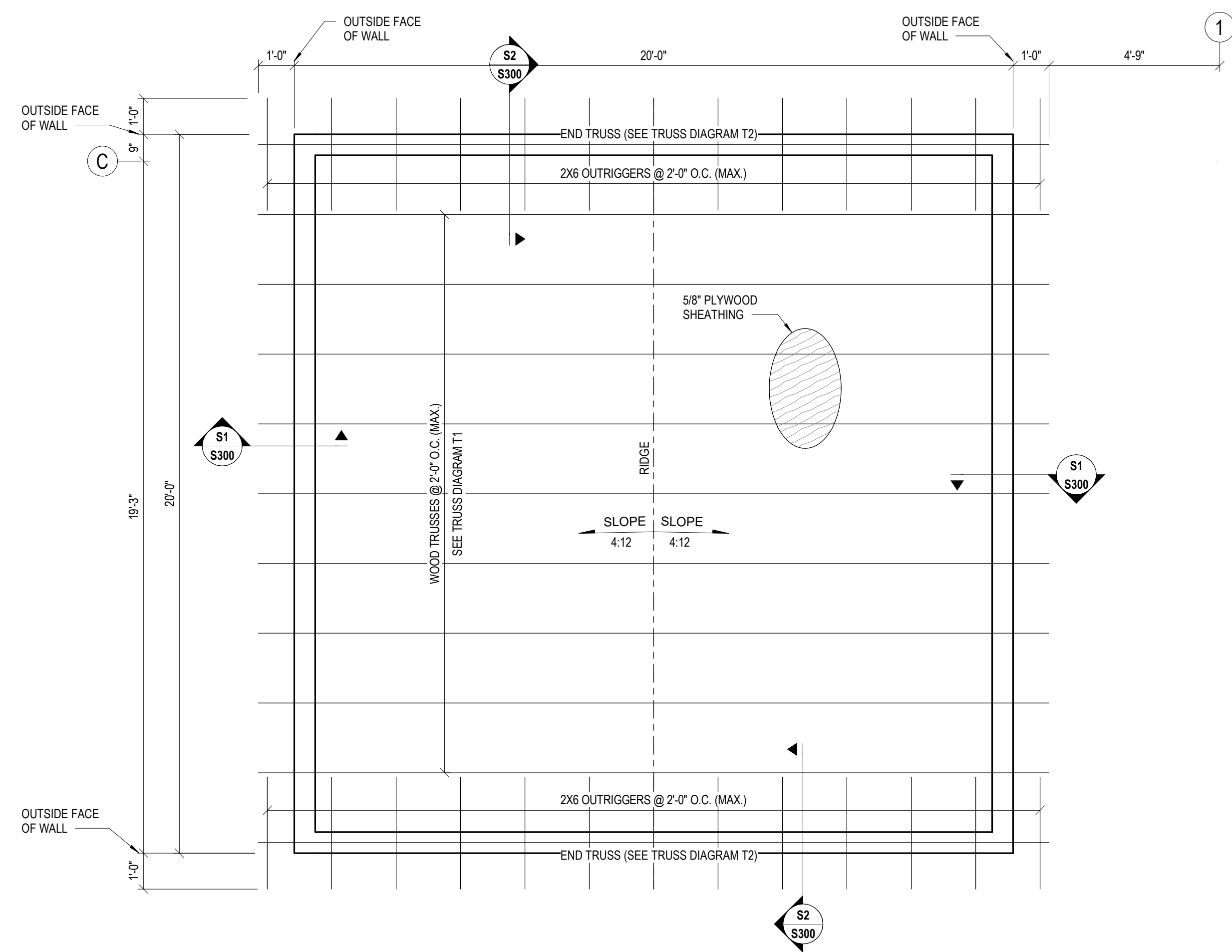
**NOTE:**  
DEPTH OF SAWCUT MAY BE REDUCED TO 1 1/4" (± 1/4") IF EARLY-ENTRY SAW IS USED.



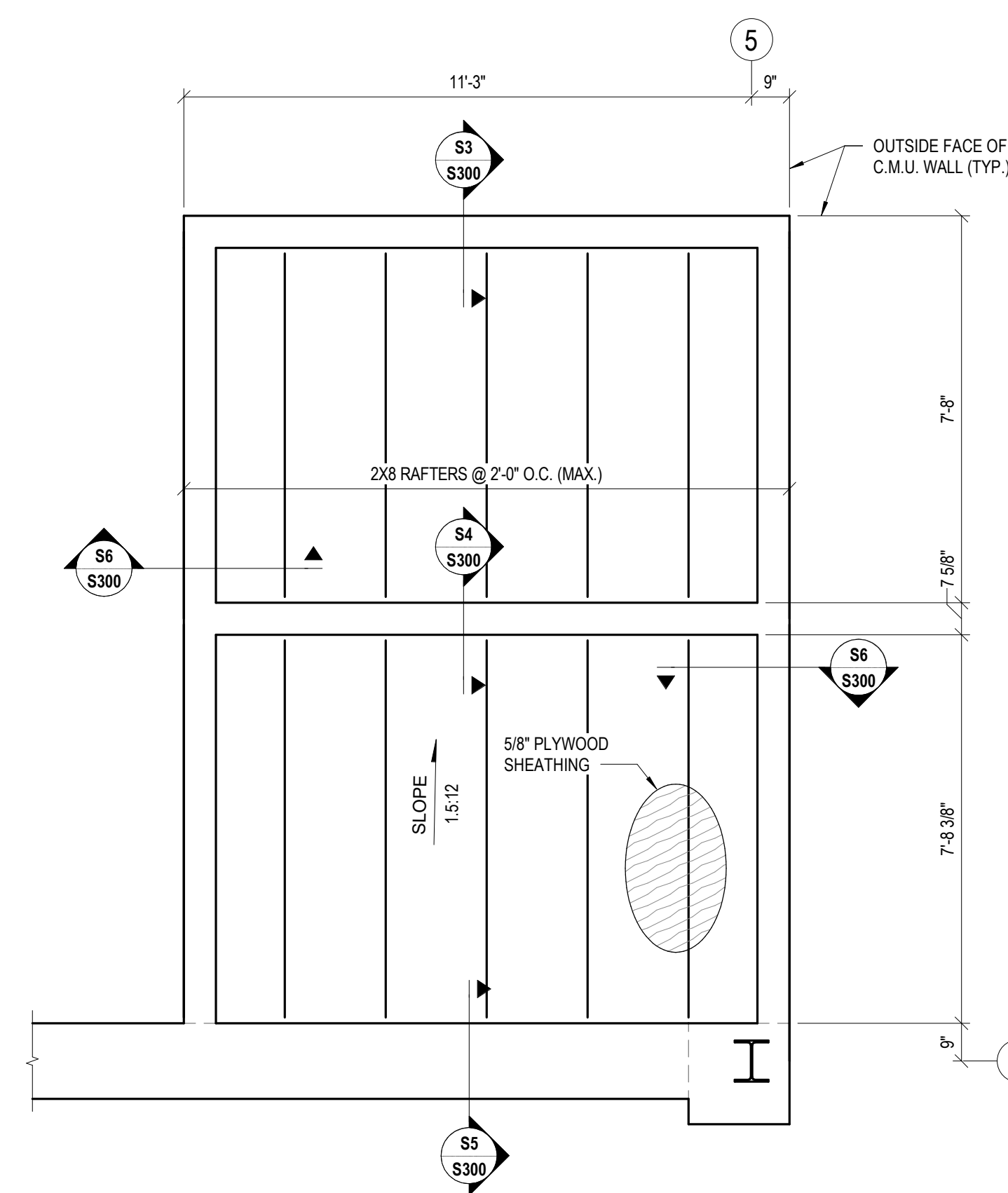
**CRACK CONTROL REINFORCING**

SCALE: NOT TO SCALE

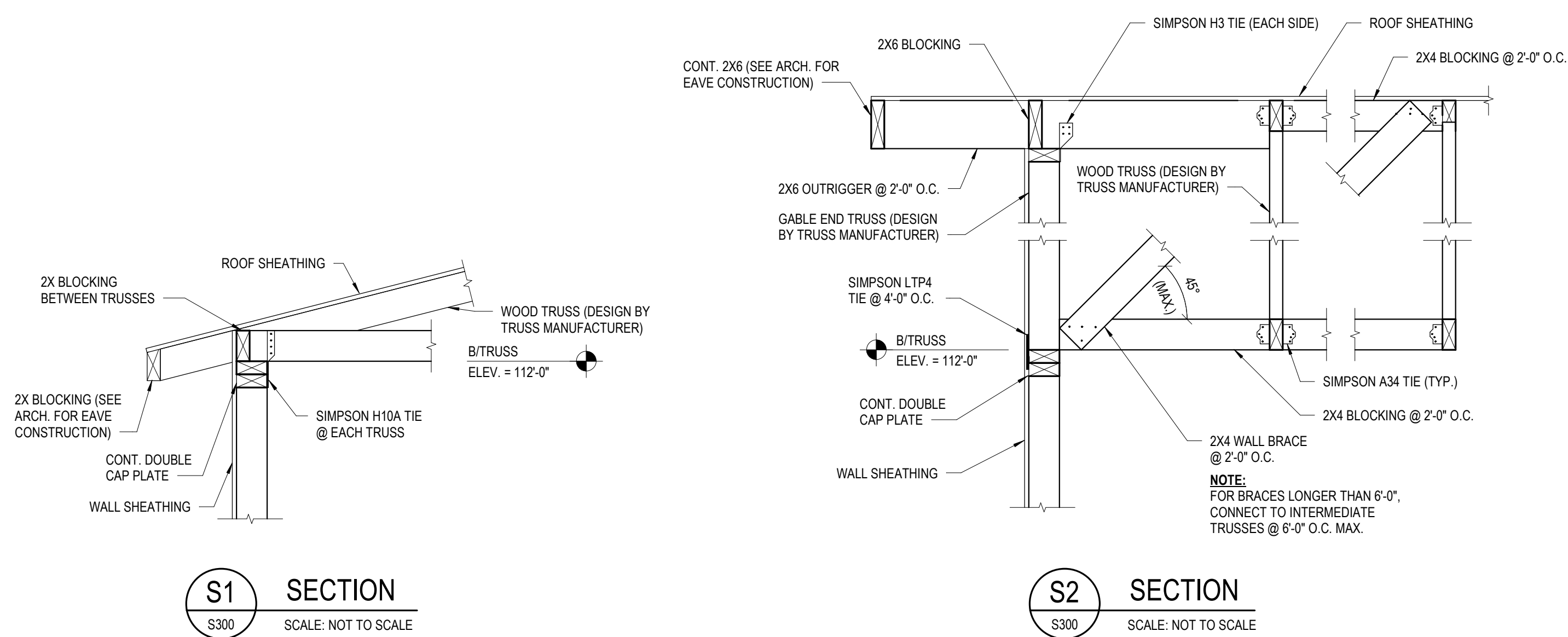
**NOTE:**  
TYPICAL AT ALL REENTRANT CORNERS FOR SLAB-ON-GRADE & STRUCTURAL SLAB REINFORCING TO BE CENTERED IN SLAB THICKNESS.



**SHED FRAMING PLAN**  
SCALE: 3/8" = 1'-0"  
TRUE NORTH  
PLAN NORTH

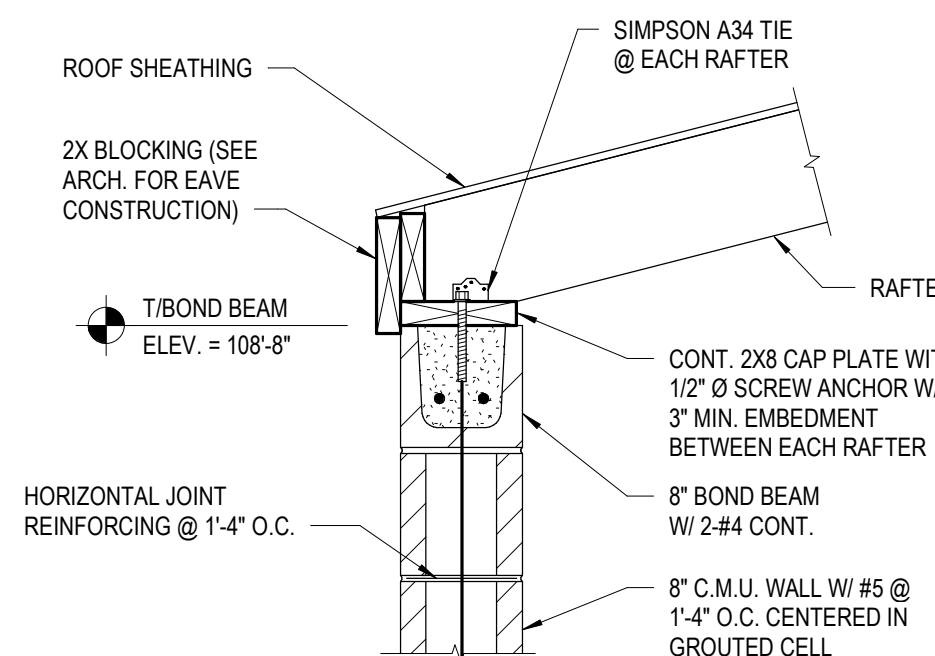


**BRINE BUILDING FRAMING PLAN**  
SCALE: 3/8" = 1'-0"  
TRUE NORTH  
PLAN NORTH

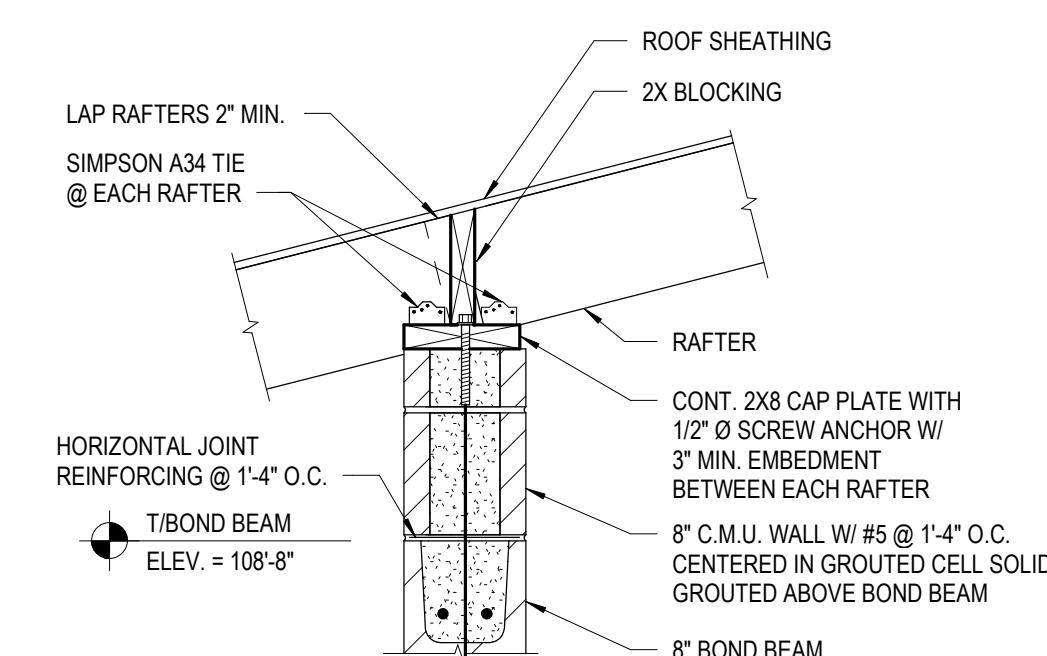


**S1 SECTION**  
S300 SCALE: NOT TO SCALE

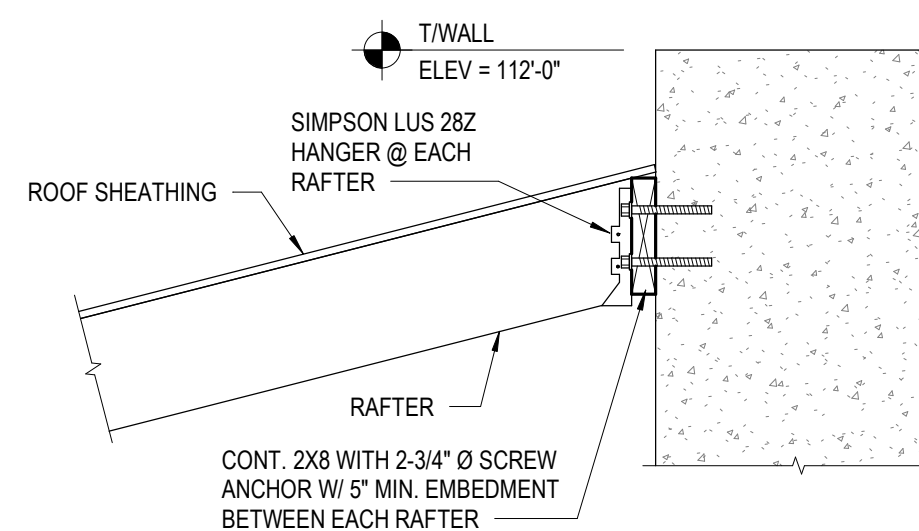
**S2 SECTION**  
S300 SCALE: NOT TO SCALE



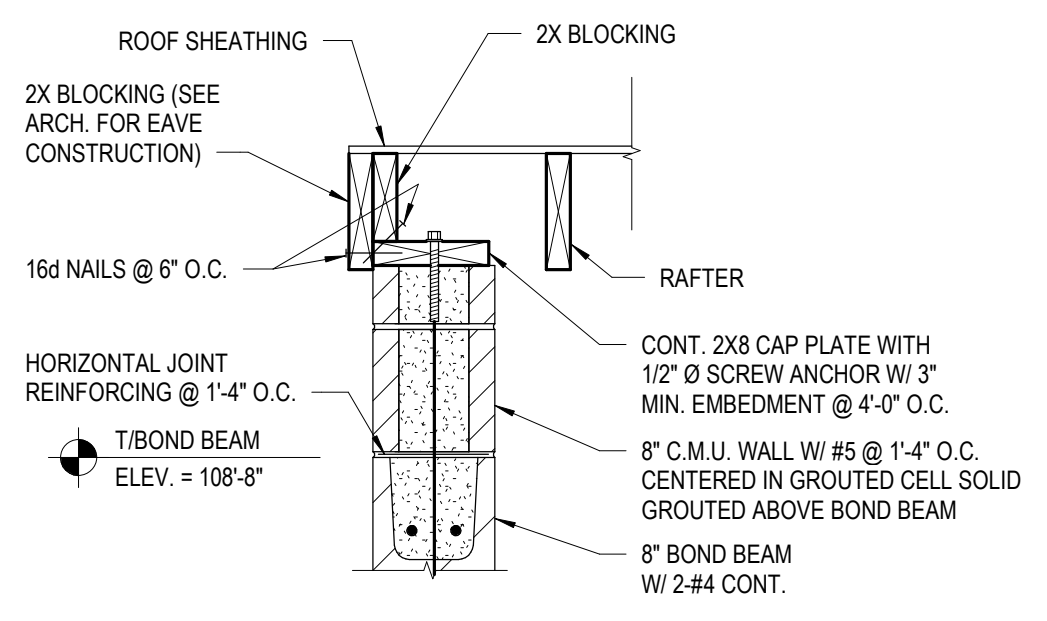
**S3 SECTION**  
S300 SCALE: NOT TO SCALE



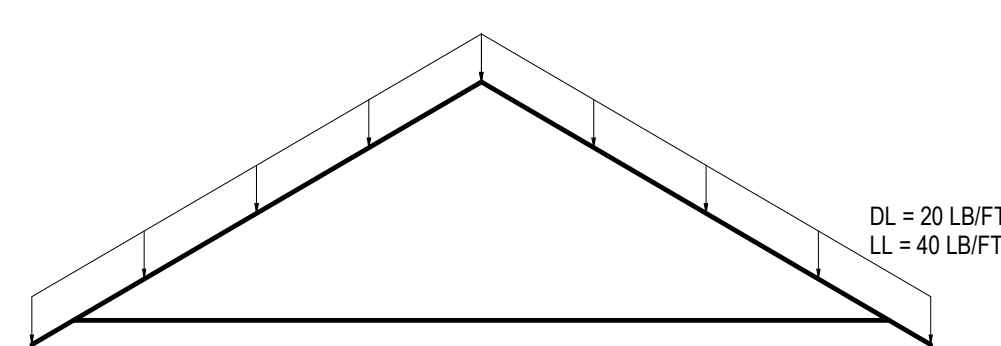
**S4 SECTION**  
S300 SCALE: NOT TO SCALE



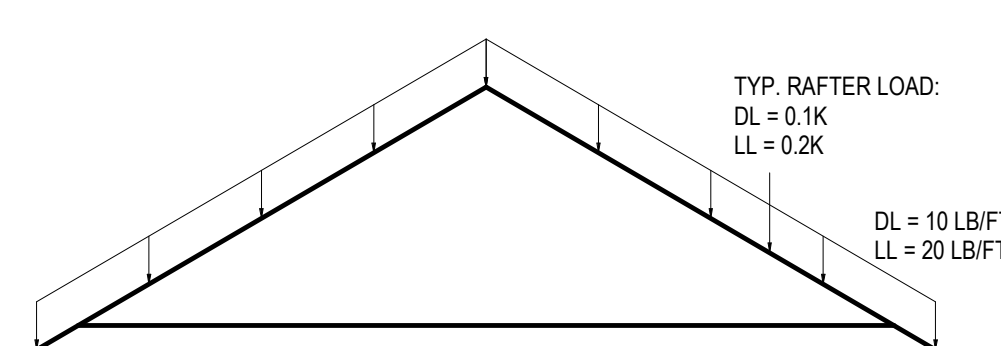
**S5 SECTION**  
S300 SCALE: NOT TO SCALE



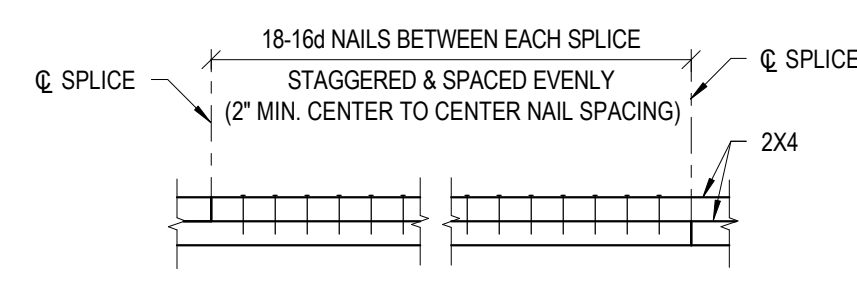
**S6 SECTION**  
S300 SCALE: NOT TO SCALE



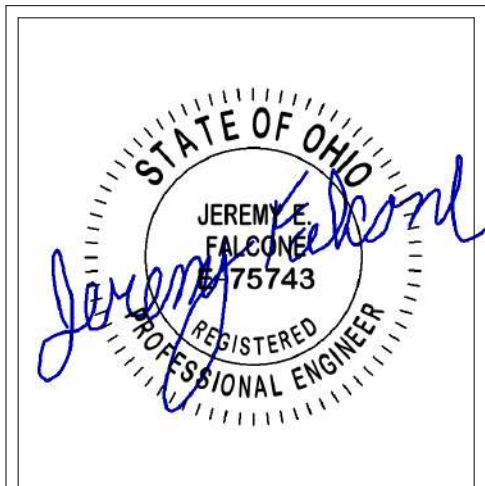
**T1 TRUSS LOADING DIAGRAM**  
S300 SCALE: NOT TO SCALE



**T2 TRUSS LOADING DIAGRAM**  
S300 SCALE: NOT TO SCALE



**CAP PLATE SPLICE DETAIL**  
SCALE: NOT TO SCALE



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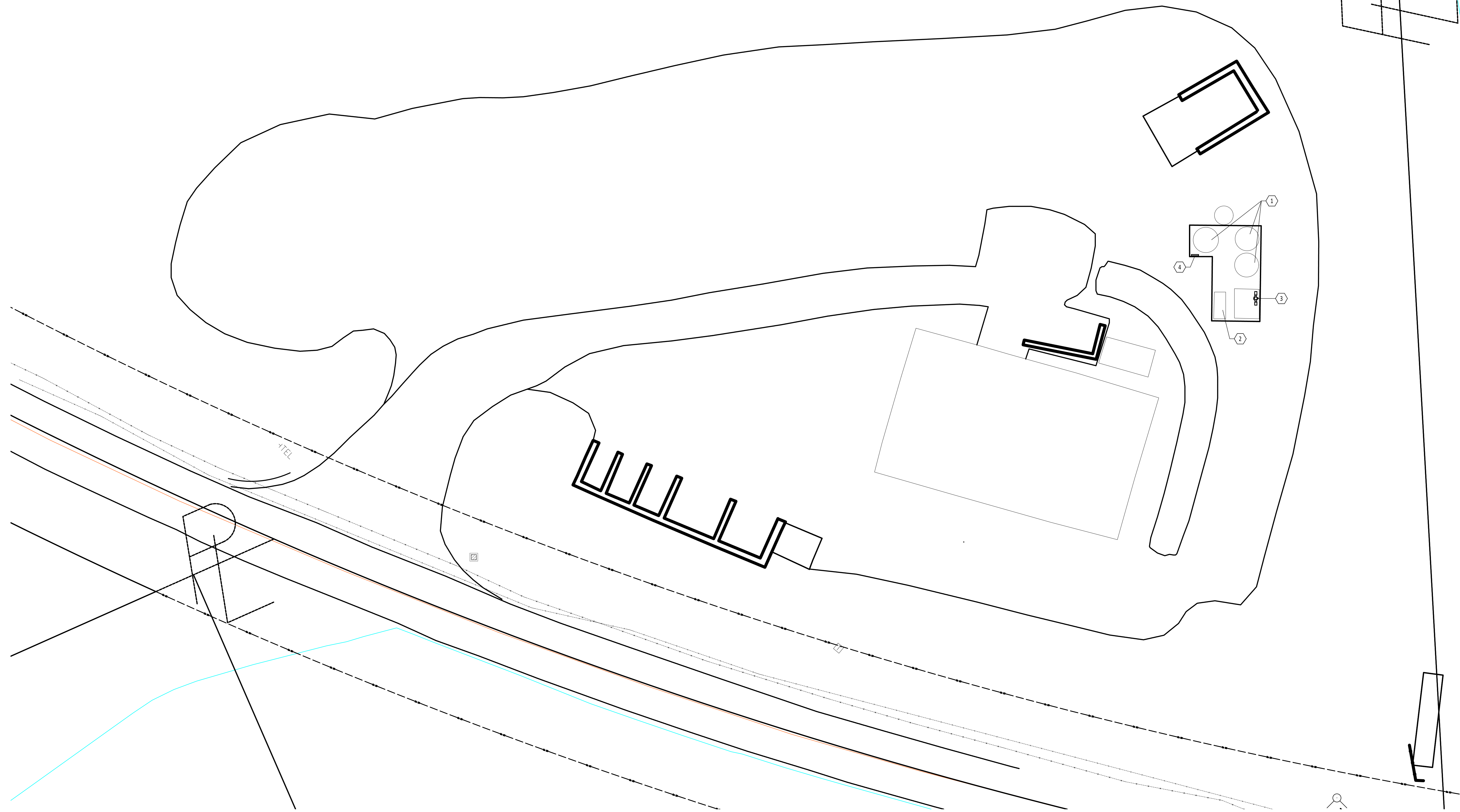
**CITY OF BEAVERCREEK**  
**SALT BARN & 9 ACRE PROPERTY SITE IMPROVEMENTS**  
BEAVERCREEK, OHIO 43004  
220 DUTTON AVENUE, SUITE 200  
BEAVERCREEK, OHIO 43004

ISSUANCES/REVISIONS		
BID DOCUMENTS		10/05/2023

LIB PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
0122075A.00	BJF	JEF

SHEET TITLE:  
**FRAMING PLANS & DETAILS**

SHEET NUMBER:  
**S300**

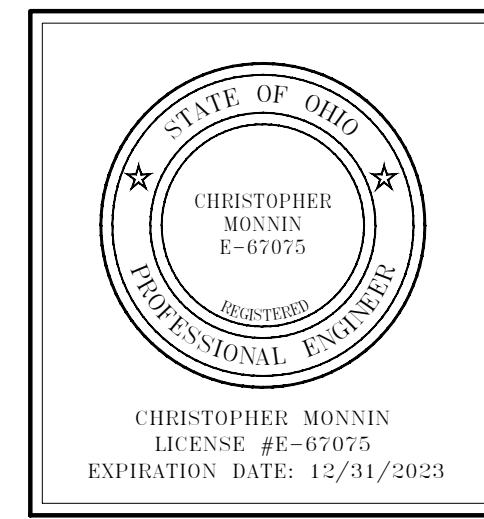


**PLUMBING GENERAL NOTES**

A VERIFY INVERT ELEVATIONS ON UNDERGROUND SANITARY AND STORM PIPING. COORDINATE DEPTHS WITH THE BUILDING CONSTRUCTION AND ALL OTHER TRADES.

B ALL WALL PENETRATIONS SHALL BE SLEEVED WITH PVC PIPE. COORDINATE SIZES AND LOCATIONS ON SITE WITH THE GENERAL CONTRACTOR.

KEYNOTE SCHEDULE	
#	KEYNOTE DESCRIPTION
1	REMOVE BRINE TANKS, HOSES, VALVES, HYDRAULIC PUMPS, ACCESSORIES AND STORE ON SITE. PROTECT TANKS DURING CONSTRUCTION FROM DAMAGE AND ANCHOR DOWN TO PREVENT THEM FROM BLOWING AWAY. ANY DAMAGE TO TANKS, VALVES AND CONNECTIONS SHALL BE REPAIRED AT NO COST TO THE OWNER. COORDINATE WORK WITH THE OWNER AND GENERAL CONTRACTOR.
2	REMOVE BRINE PRODUCTION SYSTEM AND STORE ON SITE. PROTECT FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE TO UNIT SHALL BE REPAIRED OR REPLACE AT NO COST TO THE OWNER. COORDINATE WORK WITH THE GENERAL CONTRACTOR.
3	REMOVE BRINE PUMP FROM BUILDING AND STORE ON SITE. PROTECT PUMP FROM DAMAGE AND WEATHER ON SITE. ANY DAMAGE TO PUMP SHALL BE REPAIRED OR REPLACE AT NO COST TO THE OWNER. COORDINATE WORK WITH THE GENERAL CONTRACTOR.
4	REMOVE TRUCK CONNECTION MANIFOLD AND STORE ON SITE. PROTECT DURING CONSTRUCTION. ANY DAMAGE TO UNIT SHALL BE REPAIRED AT NO COST TO THE OWNER. COORDINATE WORK WITH THE OWNER AND GENERAL CONTRACTOR.



	SHUTOFF VALVE
	CHECK VALVE
	STRAINER
	FLOW METER
	PIPE ELBOW DOWN
	PIPE ELBOW UP
	TEE
	SANITARY LATERAL TEE
	PIPE CAP
	UNION
	VENT STACK
	VENT STACK/FIXTURE UNIT SCHEDULE
	SHOCK ABSORBER
	HOSE BIBB
	WALL HYDRANT
	BACKFLOW PREVENTER WITH SHUTOFF VALVES
	WATER METER
	CLEANOUT
	ROODING HOLE
	FLOOR DRAIN
	SQUARE FLOOR DRAIN
	ROOF DRAIN
	SINGLE LINE BREAK
	FLOW INDICATOR
	CONNECT NEW TO EXISTING
	KEYNOTE TAG
	EQUIPMENT TAG
	EQUIPMENT NOTES

-SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

NEW BUILDING FOR

**CITY OF BEAVERCREEK**

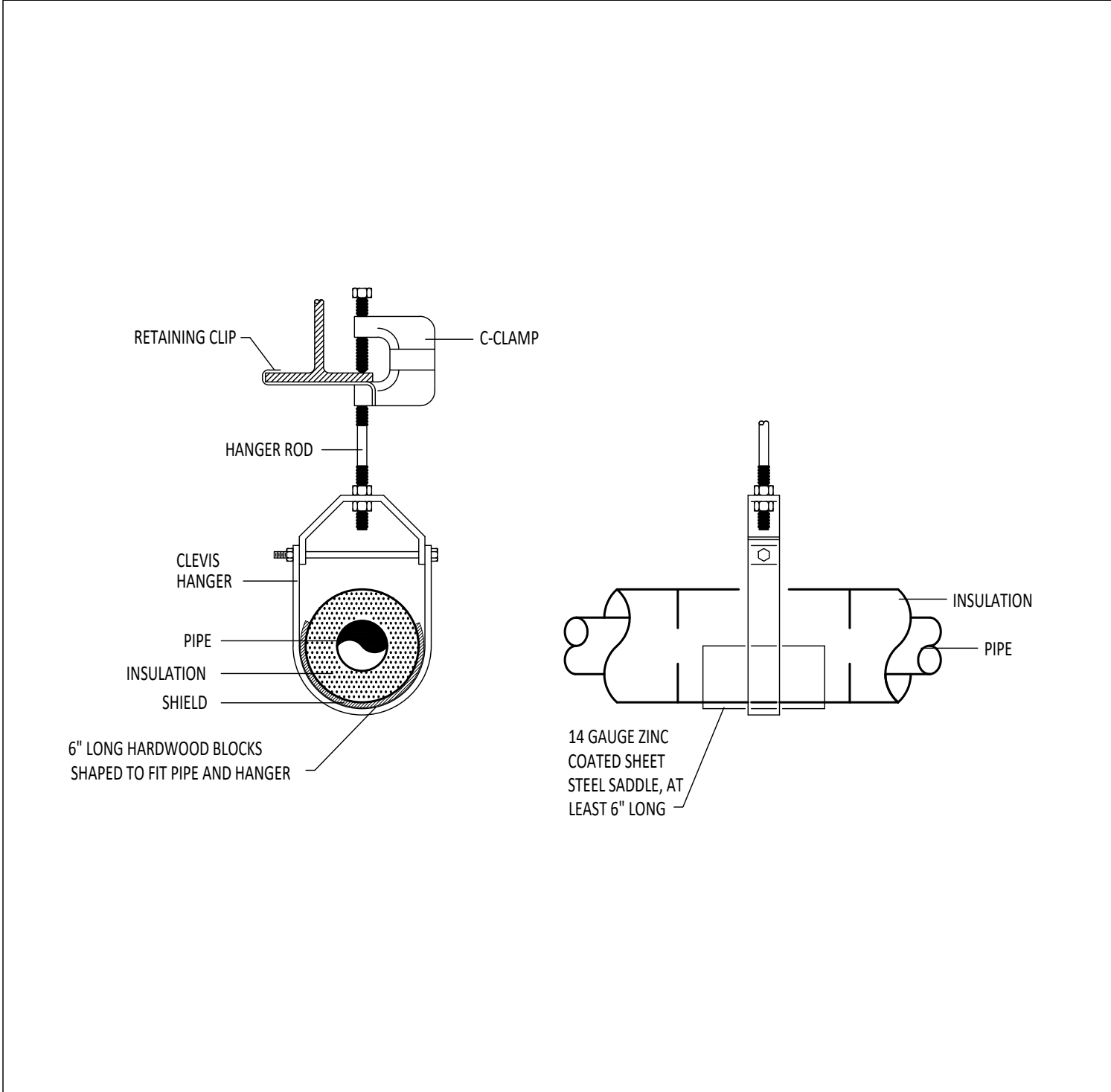
**SALT BARN & 9-ACRE PROPERTY SITE IMPROVEMENTS**

BEAVERCREEK, OHIO 43024

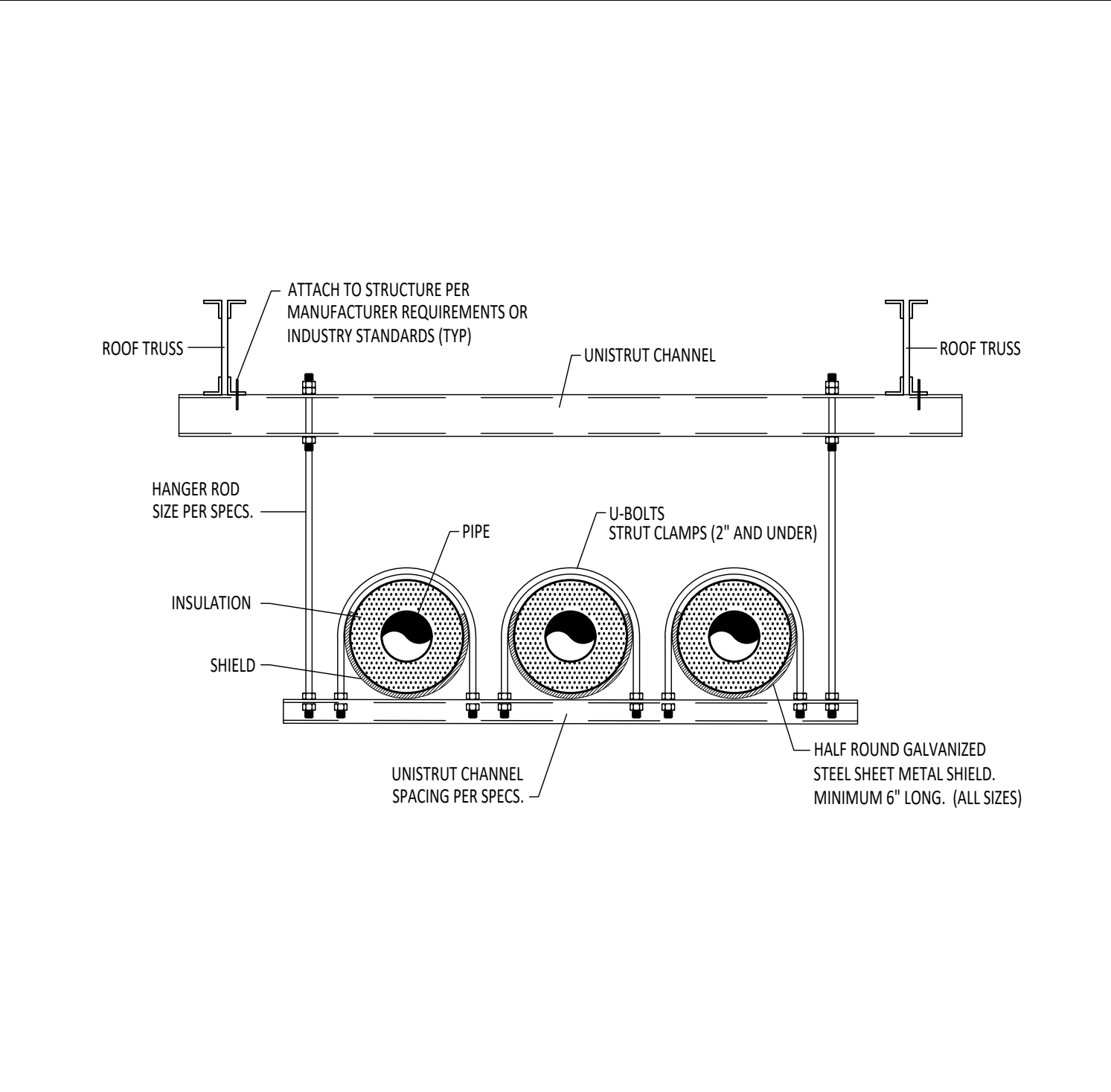
2380 DANTON ROAD

**1** PLUMBING PLAN  
P1.1  
1/8" = 1'-0"

**2** PLUMBING SYMBOLS  
P1.1  
NTS



**3** CLEVIS PIPE HANGER DETAIL - 6" AND SMALLER  
P1.1  
NTS



**4** CABLE SUSPENSION PLUMBING PIPE HANGER DETAIL  
P1.1  
NTS

-SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

	COMPRESSED AIR PIPING
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING - 120°
	DOMESTIC HOT WATER PIPING - 140°
	DOMESTIC HOT WATER RETURN PIPING
	DOMESTIC TEMPERED WATER PIPING
	LIQUID PROPANE PIPING
	NATURAL GAS PIPING
	NON-POTABLE WATER PIPING
	SANITARY PIPING - OVERHEAD
	SANITARY PIPING - BELOW FLOOR
	ACID WASTE PIPING - BELOW FLOOR
	GREASE WASTE PIPING - BELOW FLOOR
	STORM PIPING - BELOW FLOOR
	STORM PIPING - ABOVE FLOOR
	SANITARY VENT PIPING
	ACID WASTE VENT PIPING
	SANITARY VENT PIPING - BELOW FLOOR

**5** PLUMBING PIPING LEGEND  
P1.1  
NTS

ISSUANCES/REVISIONS

NO.	DESCRIPTION	DATE
1	BID DOCUMENTS	10/05/2023

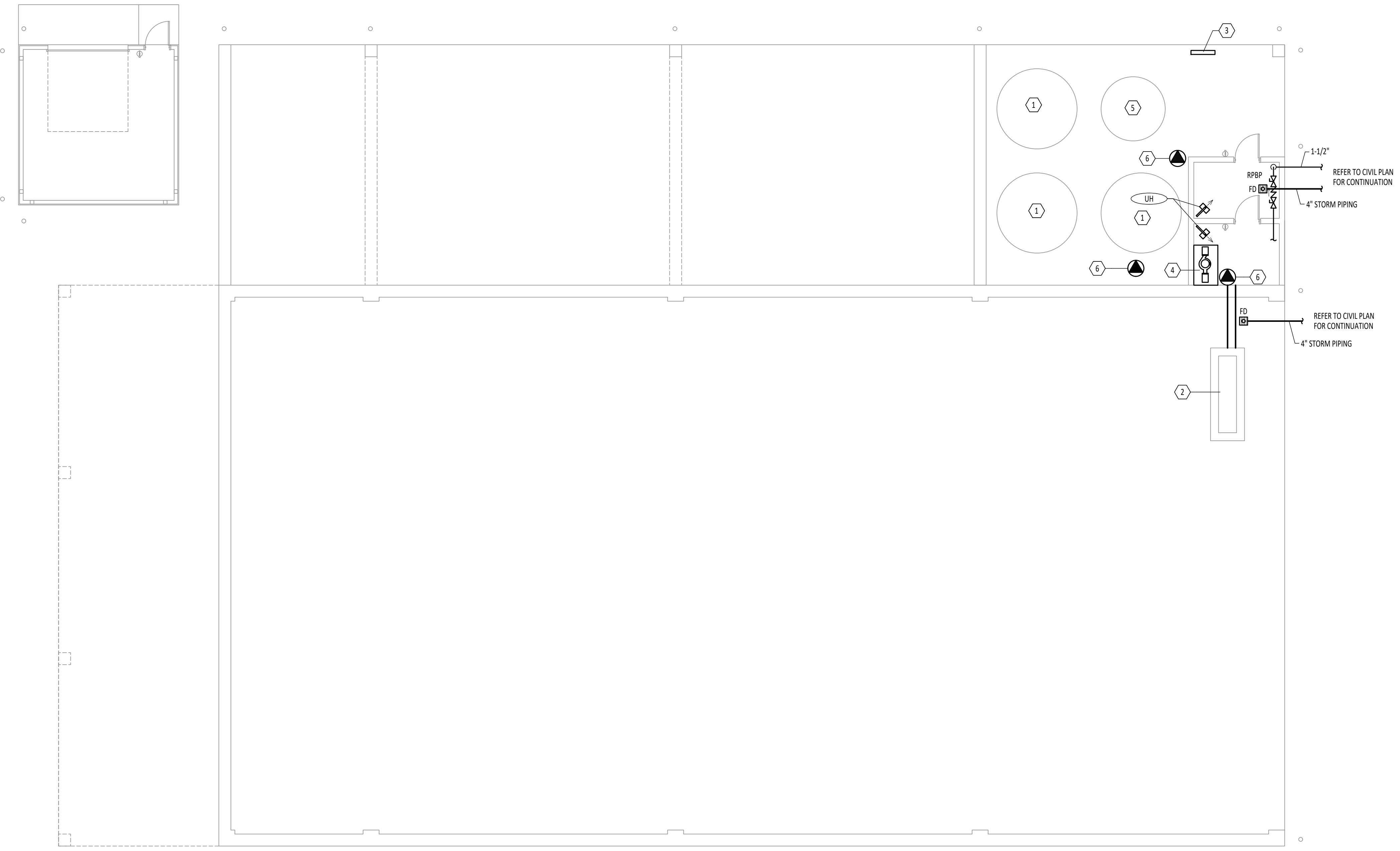
PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
21062.00	LGW	CSM

SHEET TITLE:

**PLUMBING DEMOLITION PLAN**

SHEET NUMBER:

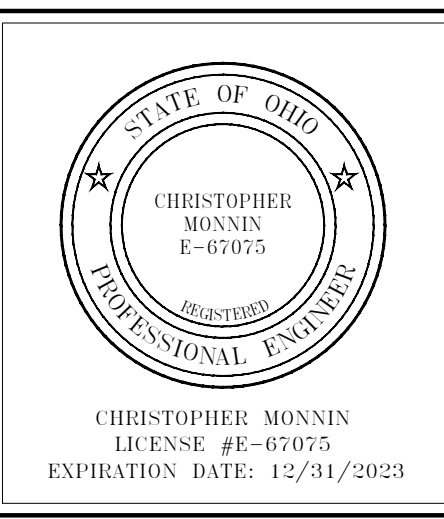
**P1.1**



**PLUMBING GENERAL NOTES**

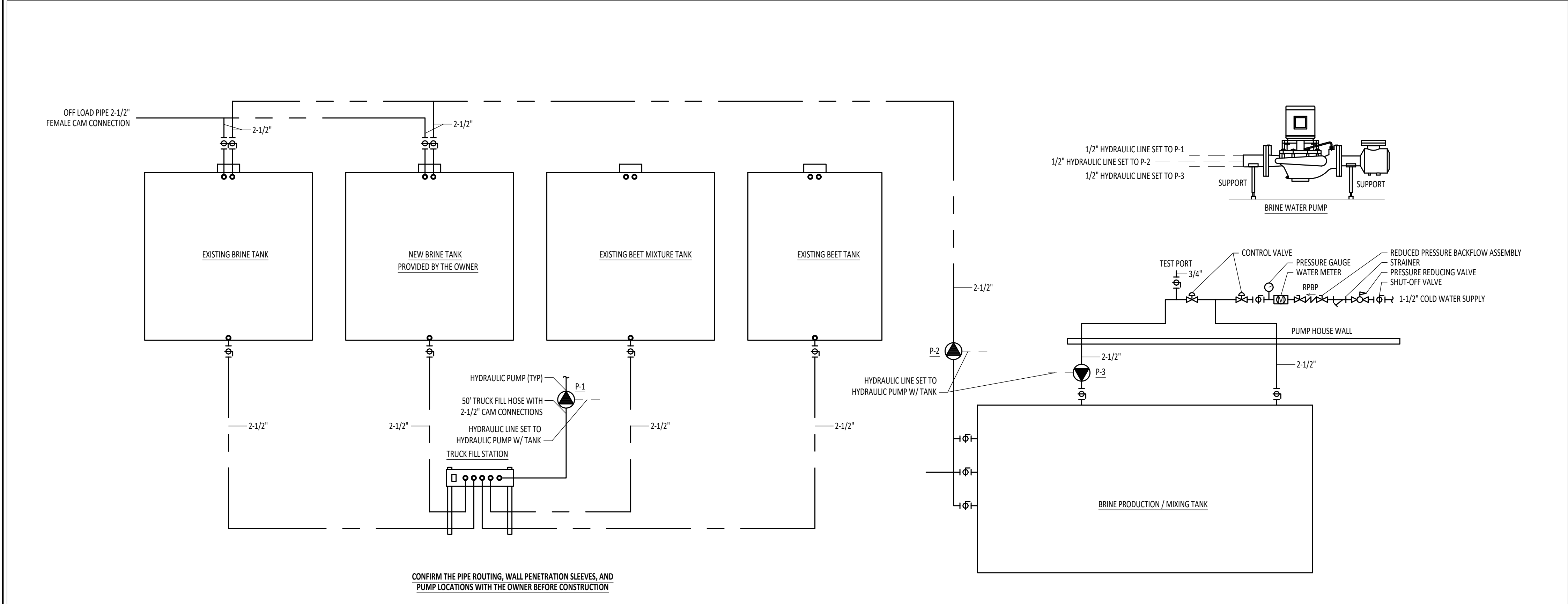
- A VERIFY INVERT ELEVATIONS ON UNDERGROUND SANITARY AND STORM PIPING. COORDINATE DEPTHS WITH THE BUILDING CONSTRUCTION AND ALL OTHER TRADES.
- B ALL WALL PENETRATIONS SHALL BE SLEEVED WITH PVC PIPE. COORDINATE SIZES AND LOCATIONS ON SITE WITH THE GENERAL CONTRACTOR.

KEYNOTE SCHEDULE	
#	KEYNOTE DESCRIPTION
1	REINSTALL ALL BRINE TANKS IN THE LOCATIONS SHOWN. VERIFY EXISTING SIZE, TYPE AND LOCATION ON SITE. COORDINATE LOCATIONS WITH THE OWNER AND GENERAL CONTRACTOR.
2	REINSTALL BRINE PRODUCTION SYSTEM IN THE APPROXIMATE LOCATION SHOWN. VERIFY EXISTING SIZE, TYPE AND LOCATION ON SITE. COORDINATE POWER REQUIREMENTS AND LOCATIONS WITH THE ELECTRICAL CONTRACTOR. COORDINATE UNIT LOCATION WITH THE OWNER AND GENERAL CONTRACTOR.
3	REINSTALL TRUCK FILL STATION ON THE BUILDING IN THE APPROXIMATE LOCATION SHOWN. VERIFY EXISTING SIZE, TYPE AND LOCATION ON SITE. COORDINATE EXACT LOCATION WITH THE OWNER AND GENERAL CONTRACTOR.
4	REINSTALL PUMP ON A 3'-1 1/2" CONCRETE PAD. CONCRETE PAD PROVIDED BY THE PLUMBING CONTRACTOR. PUMP SHALL BE INSTALLED IN THE APPROXIMATE LOCATION SHOWN. COORDINATE EXACT LOCATION WITH THE OWNER, ELECTRICAL AND GENERAL CONTRACTOR.
5	NEW TANK PROVIDED BY THE OWNER. COORDINATE TANK CONNECTIONS WITH THE OWNER.
6	LOCATION OF HYDRAULIC PUMP. PROVIDE NEW HYDRAULIC LINE SETS AND COORDINATE EXACT LOCATION OF PUMP WITH THE OWNER AND GENERAL CONTRACTOR.



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 2380 DANTON-KEBAH ROAD  
 BEAVERCREEK, OHIO 45424

**1** PLUMBING PLAN  
P2.1 1/8" = 1'-0"



PLUMBING EQUIPMENT SCHEDULE - REDUCED PRESSURE BACKFLOW PREVENTER									
MARK	DESCRIPTION	MFG	MODEL	SIZE	COMMENTS				
RBPB	REDUCED PRESSURE BACKFLOW PREVENTER	ZURN / WILKINS	975XL	1-1/2"	ASSE 1013 CERTIFIED, FULL PORT QUARTER TURN SHUTOFF VALVES. PROVIDE AN AIR GAP WITH RELIEF PIPED TO THE NEAREST FLOOR DRAIN.				

PLUMBING FIXTURE SCHEDULE - FLOOR DRAINS											
MARK	DESCRIPTION	MFG	MODEL	MATERIAL DESCRIPTION			CONNECTION			FU	COMMENTS
				BODY	STRAINER	SAN	VENT	WFU			
FD	FLOOR DRAIN	ZURN	Z566-GT	CAST IRON	CAST IRON	3"	1 1/2"	2		12" SQUARE OPEN TOP DRAIN, DURA-COATED CAST IRON BODY, 3" BOTTOM OUTLET, LOOSE SET CAST IRON SECONDARY STRAINER, POLISHED BRONZE TOP GRATE. PROVIDE TRAP SEAL PROTECTION DEVICE PER STATE AND LOCAL CODE REQUIREMENTS.	

ELECTRIC UNIT HEATER SCHEDULE														
MARK	MFG	MODEL	HEATING CAPACITY				ELECTRICAL				MOUNTING	COMMENTS		
			(KW)	(BTUH)	(CFM)	EAT	LAT	FAN HP	FRPM	VOLTAGE			PHASE	FLA
UH	RAYWALL	H1HU05003	5	17100	400	60	300	0.125	1550	240	1	20.8	HORIZONTAL	UNIT MOUNTED DISCONNECT, UNIT MOUNTED THERMOSTAT

**2** BRINE SYSTEM PIPING DIAGRAM  
P2.1 NTS

ISSUANCES/REVISIONS	
BID DOCUMENTS	10/05/2023

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
21062.00	LGW	CSM

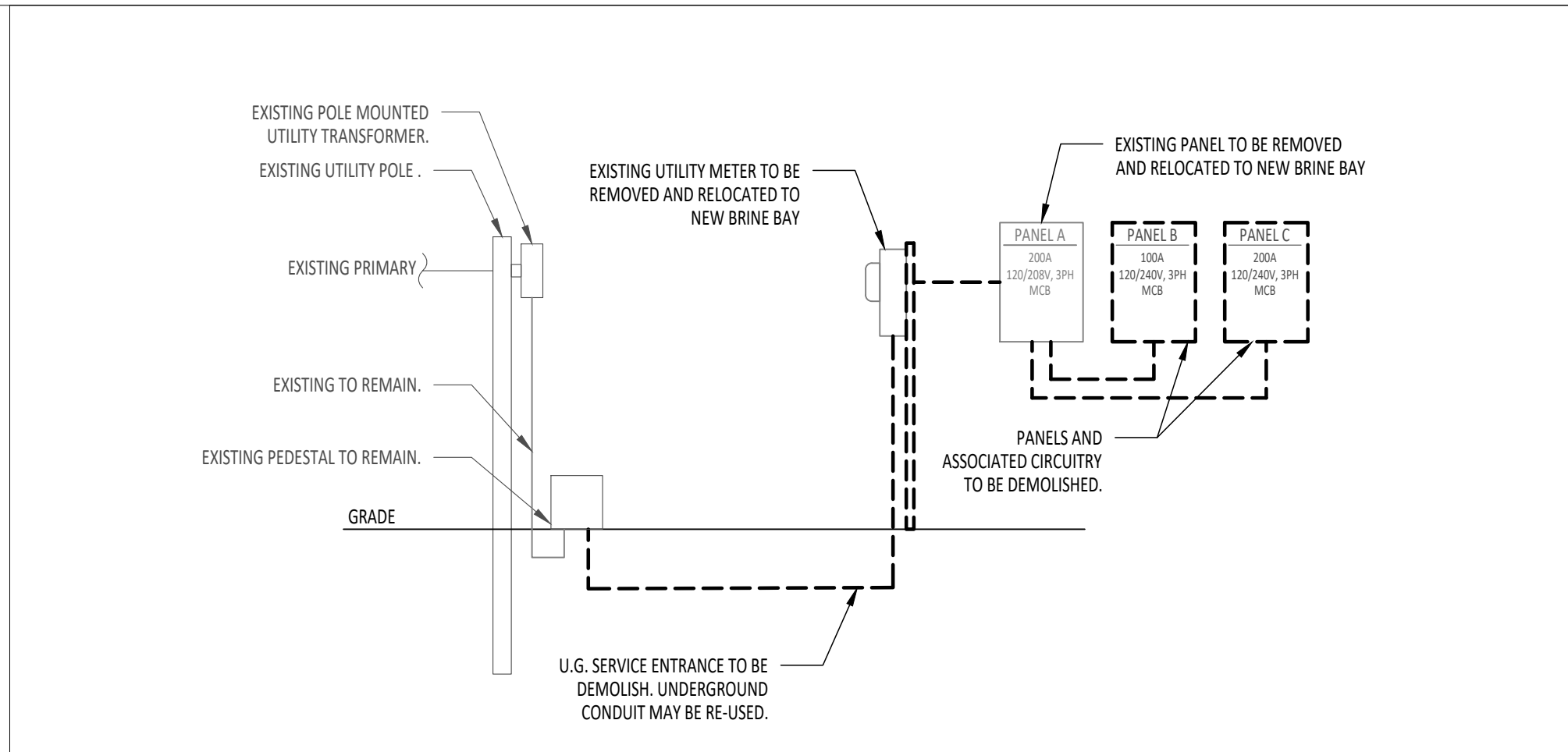
SHEET TITLE:  
**PLUMBING PLAN**

SHEET NUMBER:  
**P2.1**

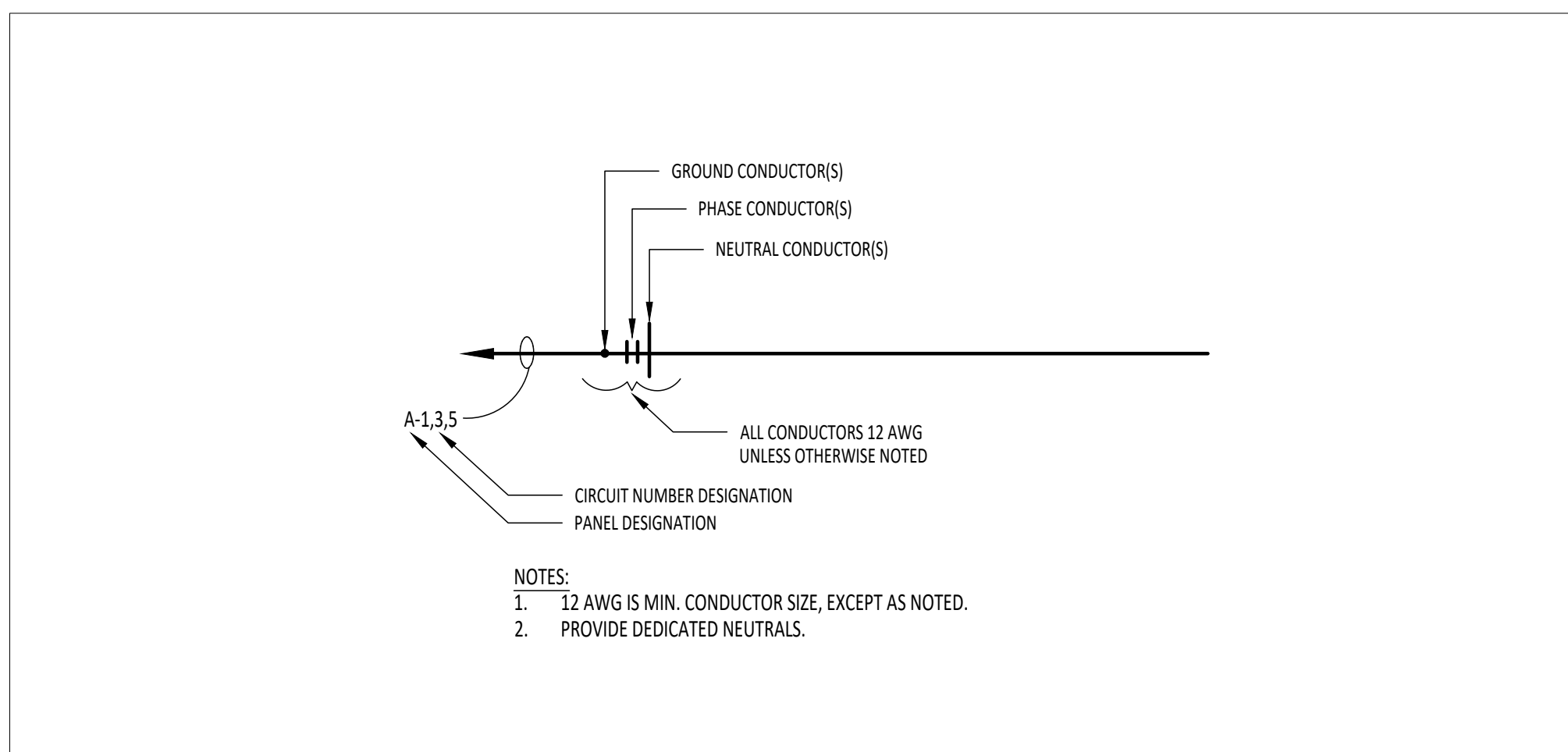
- ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- A** AFF - ABOVE FINISHED FLOOR
- AFG** - ABOVE FINISHED GRADE
- C** CP - COVERPLATE
- E** EC - ELECTRICAL CONTRACTOR
- EX / EXIST** - EXISTING
- G** GC - GENERAL CONTRACTOR
- GF** - PROVIDE DEVICE WITH GF PROTECTION
- H** HORIZ - HORIZONTAL
- HP** - HORSEPOWER
- M** MC - MECHANICAL (HVAC, PLBG, FP, OR TC) CONTRACTOR
- N** NF - NONFUSED
- NL** - NIGHTLIGHT, CIRCUITED AHEAD OF LOCAL SWITCHING
- O** OREQ - OR EQUAL
- S** SM - SURFACE-MOUNTED
- T** TR - TAMPER-RESISTANT
- TP** - TYPICAL
- U** UNO - UNLESS NOTED OTHERWISE
- W** WG - WIREGUARD
- WP** - WEATHERPROOF

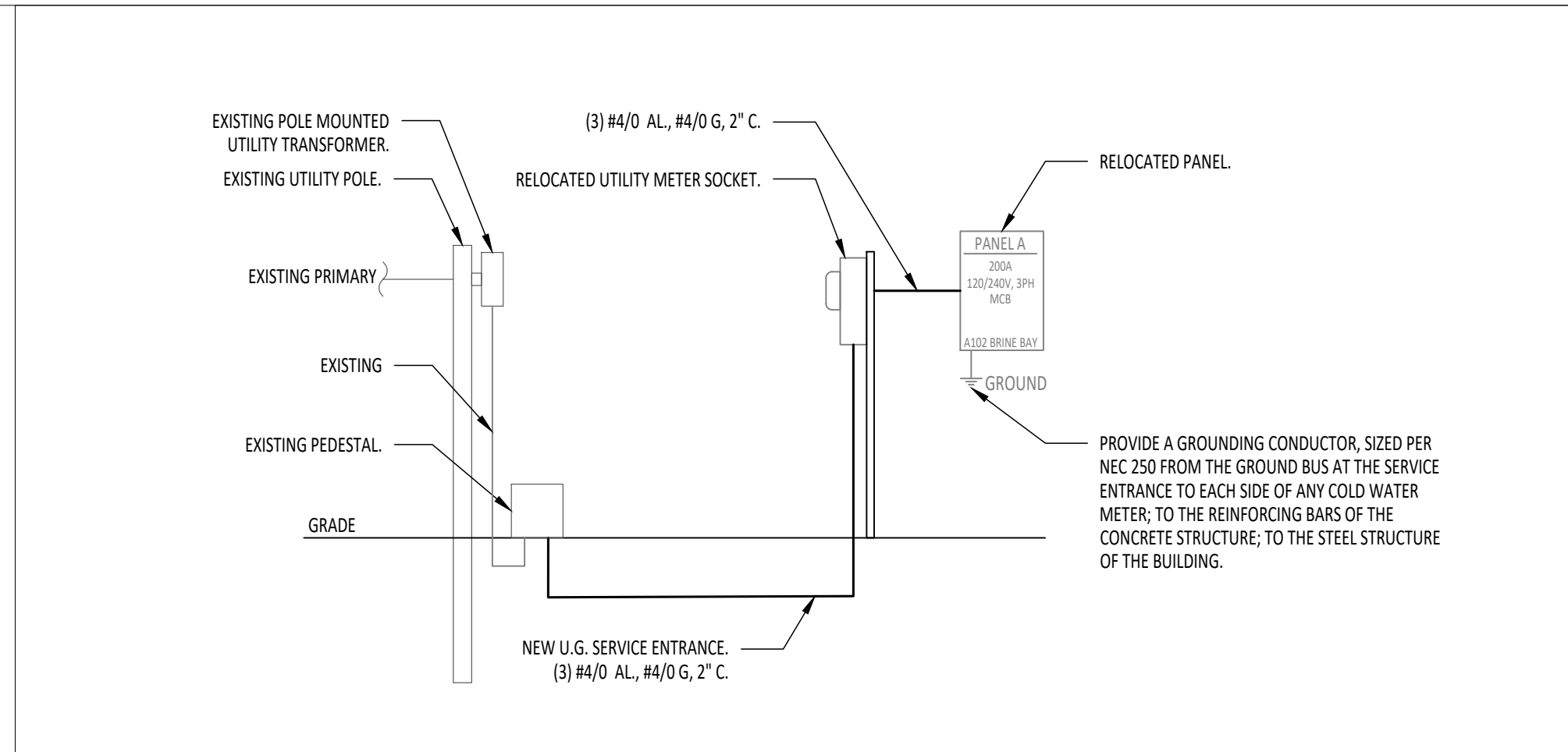
ELECTRICAL LEGEND		SYMBOL	DESCRIPTION	MOUNTING HEIGHT
			4" SURFACE MOUNT STRIP LIGHT, STEEL HOUSING, WHITE FINISH, DIFFUSE ACRYLIC LENS, SUITABLE FOR COLD TEMPERATURES, SET LUMEN OUTPUT TO 4,000 LUMENS, MANUFACTURER: LITHONIA, CATALOG NUMBER: CSS LAB AL03 MVOILT 40K 80CR, EQUALS: METALUX - SVR SERIES   DAY-BRITE - SDS   LP - VS SERIES	SURFACE
			4" WRAPAROUND FIXTURE, LINEAR SIDE PRISMS, PYRAMIDAL BOTTOM PRISMS, CODE GAUGE COLD-ROLLED STEEL END PLATES, MANUFACTURER: LITHONIA, CATALOG NUMBER: SB4 6000LM 80CR 40K MVOILT, EQUALS: METALUX - WSNLED SERIES   DAY-BRITE - OWL SERIES   LP - SVR SERIES	SURFACE
			WET LISTED LED TYPE INDUSTRIAL 8" LIGHT FIXTURE, WHITE FIBERGLASS HOUSING WITH INTEGRAL PERIMETER CHANNEL AND POURED-IN-PLACE CONTINUOUS CELL GASKET, STAINLESS STEEL LATCHES, IMPACTED MODIFIED ACRYLIC PROTECTED LENS, HIGH EFFICIENCY LEDS ON METAL CORE CIRCUIT BOARD, 24000 LUMEN SPREAD DISTRIBUTION, U.L. LISTED ELECTRONIC DRIVER, MANUFACTURER: LITHONIA, CATALOG NUMBER: FEM 199 24000LM MHAFO W0 MVOILT GC10 40K 80CR, EQUALS: METALUX - SVTS SERIES   DAY-BRITE - APV SERIES   LP - WTS SERIES	VARIES
			ALTERNATE: LED TYPE WALL MOUNTED LIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK FINS, BLACK FINISH, SEALED HOUSING FOR WET LISTING, ACRYLIC LENSES, FORWARD THROW DISTRIBUTION, HIGH EFFICIENCY LEDS WITH U.L. LISTED ELECTRONIC DRIVER, MANUFACTURER: LITHONIA, CATALOG NUMBER: D50WZ LED 30C 1000 40K 12M MVOILT DBLD, EQUALS: LUMARK - PRV SERIES   GARCOO - GWM SERIES   LSI - XWM SERIES	13'-0" AFF
			LED TYPE WALL MOUNTED LIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK FINS, BLACK FINISH, SEALED HOUSING FOR WET LISTING, ACRYLIC LENSES, FORWARD THROW DISTRIBUTION, HIGH EFFICIENCY LEDS WITH U.L. LISTED ELECTRONIC DRIVER, MANUFACTURER: LITHONIA, CATALOG NUMBER: D50WZ LED 30C 1000 40K 12M MVOILT DBLD, EQUALS: LUMARK - PRV SERIES   GARCOO - GWM SERIES   LSI - XWM SERIES	22'-0" AFF
			LED TYPE WALL MOUNTED LIGHT FIXTURE, DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK FINS, BLACK FINISH, SEALED HOUSING FOR WET LISTING, ACRYLIC LENSES, FORWARD THROW DISTRIBUTION, HIGH EFFICIENCY LEDS WITH U.L. LISTED ELECTRONIC DRIVER, MANUFACTURER: LITHONIA, CATALOG NUMBER: D50WZ LED 30C 1000 40K 12M MVOILT DBLD, EQUALS: LUMARK - PRV SERIES   GARCOO - GWM SERIES   LSI - XWM SERIES	35'-0" AFF
			BATTERY PACK WITH REMOTE HEADS, MANUFACTURER: LITHONIA, CATALOG NUMBER: ELA 1 SD 0 LB309 M12, EQUALS: SURE-LITE - APEL SERIES   CHLORIDE - VLU SERIES   EMERGI - EF39 SERIES	8'-0" AFF UNO
			BATTERY PACK WITH REMOTE HEADS, THERMOPLASTIC HOUSING, SUITABLE FOR COLD TEMPERATURES, MANUFACTURER: LITHONIA, CATALOG NUMBER: HDL SP2200L VOLT LTP SORT CW, EQUALS: BEGHELLI - VMR SERIES   CHLORIDE - RN SERIES   EMERGI - SV SERIES	20'-0" AFF
			LIGHTING CONTROL PANEL FOR EXTERIOR LIGHTS.	72" AFF TO TOP
			PHOTO SENSOR FOR AUTOMATIC LIGHTING CONTROL, CONNECT TO LOCAL LIGHTING MANAGEMENT SYSTEM FOR DAYLIGHT HARVESTING, UNO	22'-0" AFF
			BRINE SYSTEM CONTROL PANEL	SEE DRAWINGS
			LOCAL SWITCH - 1 POLE - 20A, 120V WITH COVERPLATE	44" AFF
			LOCAL SWITCH - THREE WAY - 20A, 120V WITH COVERPLATE	44" AFF
			LOCAL SWITCH - 1 POLE - 20A, 120V WITH METAL WEATHER PROOF COVERPLATE	44" AFF
			DUPLEX GFCI WEATHER PROOF RECEPTACLE - 20A-120V-NEMA 5-20R WITH COVERPLATE.	44" AFF UNO
			DUPLEX GFCI RECEPTACLE - 20A-120V-NEMA 5-20R WITH COVERPLATE.	44" AFF UNO
			ELECTRIC PANEL, REFER TO PANEL SCHEDULES AND ONE LINE DIAGRAM	78" AFF TO TOP
			MOTOR CONNECTION.	VARIES
			PUSHBUTTON STATION, REFER TO DRAWINGS.	44" AFF UNO
			CONDUIT CONCEALED IN CEILING, WALL, OR FLOOR OF NEW CONSTRUCTION, CONCEALED WHEREVER POSSIBLE IN AREAS OF OPEN STRUCTURE OR EXISTING CONSTRUCTION.	
			HOMERUN TO PANEL OR LOCATION NOTED.	
			INDICATES CONCEALED CONDUIT UNDERGROUND/UNDERFLOOR - 3/4" MINIMUM.	
			INDICATES LOCAL SWITCHING OR CONTROL FUNCTION.	
			TICK MARKS INDICATING CONDUCTORS, REFER TO DETAIL 3 ON SHEET E1.1.	
			UTILITY POLE	
			ELECTRICAL UTILITY METER.	
			INDICATES NOTE - SEE TABULATION ON SAME SHEET.	
			CIRCUIT CONTINUATION, REFER TO THE 'F' DRAWINGS FOR MORE INFORMATION.	



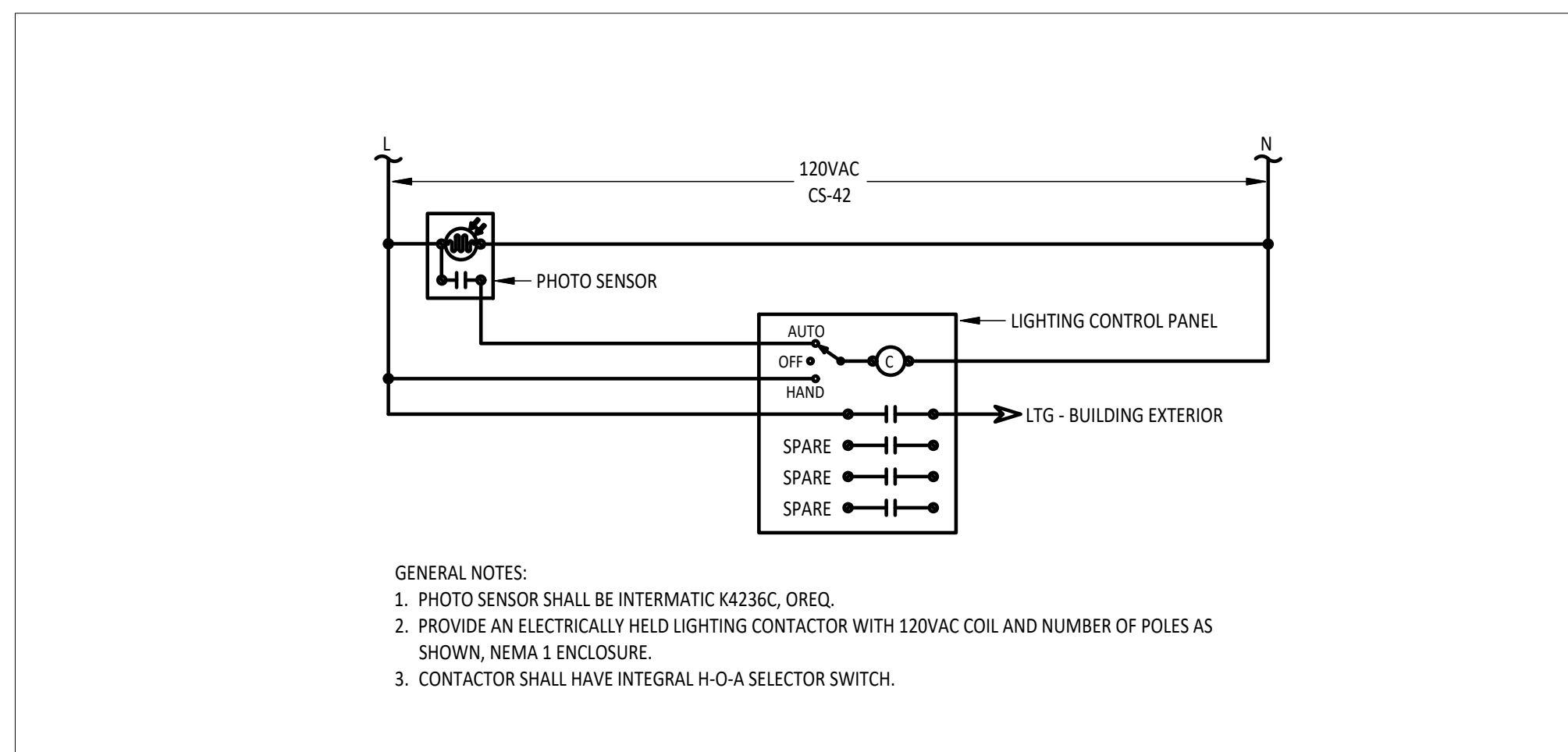
**1 ONE-LINE DIAGRAM - DEMOLITION**  
E1.1 NTS



**3 KEY TO ELECTRIC CIRCUIT WIRING**  
E1.1 NTS



**2 ONE LINE DIAGRAM**  
E1.1 NTS



**4 EXTERIOR LIGHTING DIAGRAM**  
E1.1 NTS

PANEL A		MOUNTING: SURFACE FED FROM: UTILITY ENCLOSURE: TYPE 1 LOCATION: A102 BRINE BAY		AIC RATING: EXISTING VOLTAGE: 208Y/120V/3PH 4W MAINS RATING: 225 A MAINS TYPE: MCB MCB RATING: 200 A			
PANEL NOTES: RELOCATED EXISTING PANEL. PANEL TYPE: EATON PRL1A							
#	CIRCUIT DESCRIPTION	P	F	C	#		
1	UH	2	15 A	1	2498 / 900		
2	HYDRO PUMP	3	70 A	7	2714 / 900		
	LIGHTING	1	20 A	11	2714 / 720		
	LIGHTING	1	20 A	13	1027 / 1056		
	SPARE	1	20 A	15	/		
	SPARE	1	20 A	17	/		
	SPARE	1	20 A	19	/		
	SPARE	1	20 A	21	/		
	SPARE	1	20 A	23	/		
	SPARE	1	20 A	25	/		
	SPARE	1	20 A	27	/		
	SPARE	1	20 A	29	/		
VA SUBTOTALS:			1093 VA		8426 VA		
AMP SUBTOTALS:			78 A		70 A		
LOAD TYPE	CONNECTED VA	DEMAND FACTOR	DEMAND VA	DEMAND AMPS	SUBTOTAL	PHASE	CIRCUIT NOTES
L LIGHTING	4214 VA	100.00%	4214 VA	12 A	9393 VA	A	(1) PROVIDE NEW CIRCUIT BREAKER
R RECEPTACLES	2220 VA	100.00%	2220 VA	6 A	8426 VA	B	AWG CU 1 - #10 AWG CU GND, 1" C
C COOLING	0 VA	0.00%	0 VA	0 A	8397 VA	C	
Q MISC EQUIPMENT	1656 VA	100.00%	1656 VA	5 A			
K KITCHEN	0 VA	0.00%	0 VA	0 A	20718 VA	CONNECTED	
H HVAC EQUIPMENT	9984 VA	100.00%	9984 VA	28 A	28252 VA	DEMAND	
M LARGEST MOTOR	8142 VA	125.00%	10178 VA	28 A	73 A	CONNECTED	
P PANEL FEEDER	0 VA	100.00%	0 VA	0 A	78 A	DEMAND	

SHEET INDEX	
DRAWING NUMBER	DRAWING TITLE
E1.1	GENERAL NOTES, LEGEND, ABBREVIATIONS, DETAILS, PANEL SCHEDULE, & ONE-LINE DIAGRAM
ED1.1	ELECTRICAL DEMOLITION PLANS
E2.1	ELECTRICAL SITE PLAN
E3.1	ELECTRICAL PLANS

- ELECTRICAL GENERAL NOTES**
- A ALL GENERAL WALL MOUNT WIRING DEVICES TO BE GREY IN COLOR. COVERPLATES TO BE STAINLESS STEEL, UNLON, UNBREAKABLE TYPE. CEILING MOUNTED DEVICES SHALL BE WHITE IN COLOR WITH WHITE COVERPLATES.
  - B ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX OR DEVICE, UNLESS NOTED OTHERWISE.
  - C ALL CONDUIT TO BE CONCEALED.
  - D TICK MARKS ON LIGHTING PLAN CIRCUITING INDICATE A CHANGE IN SWITCHING.
  - E ALL WORK SHALL CONFORM TO 2017 N.E.C. NATIONAL, STATE AND LOCAL CODES WHICH APPLY.
  - F ALL MATERIAL AND EQUIPMENT SHALL CONFORM TO U.L. AND NEMA STANDARDS WHICH APPLY.
  - G THIS CONTRACTOR SHALL PAY ALL FEES AND OBTAIN ALL PERMITS REQUIRED FOR THE EXECUTION OF THEIR WORK.
  - H THIS CONTRACTOR SHALL GUARANTEE THEIR ENTIRE ELECTRICAL INSTALLATION AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR.
  - I MINIMUM WIRE SIZE SHALL BE 12 AWG UNLESS NOTED OTHERWISE.
  - J CONDUCTORS SHALL BE TYPE THHN/THWN STRANDED COPPER, UNLESS NOTED OTHERWISE. CONDUCTORS 6 AWG AND LARGER MAY BE COPPER OR ALUMINUM. SEE SPECIFICATIONS.
  - K EXPOSED EXTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL OR INTERMEDIATE GRADE METAL CONDUIT. INTERIOR CONDUIT MAY BE ELECTRICAL METALLIC TUBING. CONDUIT BURIED BELOW GRADE SHALL BE SCHEDULE 40 PVC WITH APPROPRIATE SIZE GREEN GROUND WIRE, UNLESS NOTED OTHERWISE.
  - L IT IS STRONGLY RECOMMENDED THAT ALL BIDDERS VISIT AND EXAMINE THE SITE. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS UNDER WHICH WORK MUST BE PERFORMED AND CHECK ALL PRESENT ELEVATIONS. THE CONTRACTOR SHALL REPORT ANY MAJOR DISCREPANCIES TO THE ARCHITECT. FAILURE TO DO SO SHALL BE DEEMED AS ACCEPTANCE OF EXISTING CONDITIONS.

STATE OF OHIO  
**CHRISTOPHER MOXNIN**  
 E-67075  
 PROFESSIONAL ENGINEER  
 CHRISTOPHER MOXNIN  
 LICENSE #E-67075  
 EXPIRATION DATE: 12/31/2023

**GARMANN MILLER**  
 COLUMBIA, OHIO | INDIANAPOLIS, INDIANA  
 cre@arm.com  
 MINISTER, OHIO | COLUMBIA, OHIO | INDIANAPOLIS, INDIANA  
 cre@arm.com

NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 BEAVERCREEK, OHIO 43084  
 21602-00-00-CITY OF BEAVERCREEK NINE ACRES SITE IMPROVEMENTS

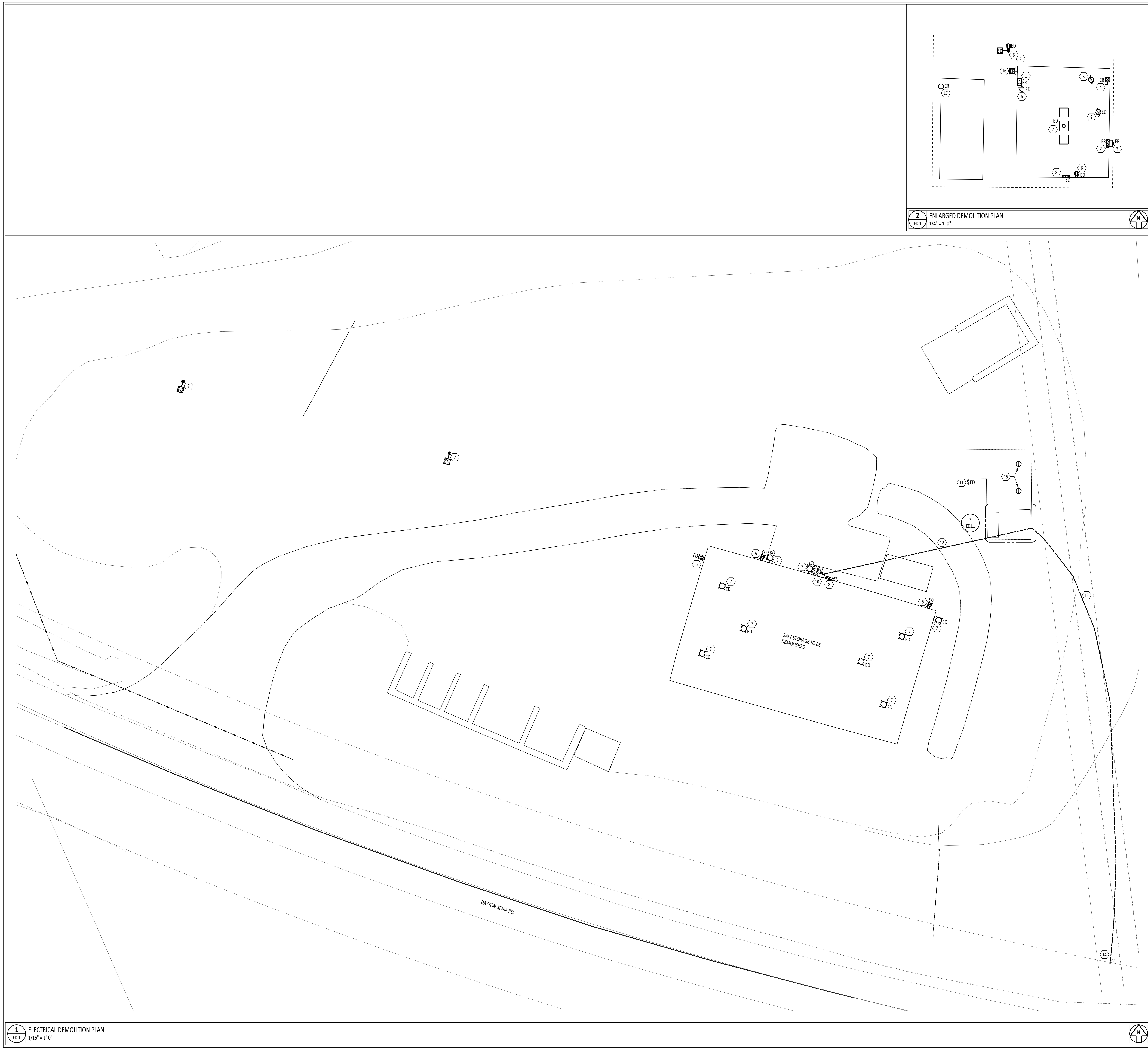
ISSUANCES/REVISIONS	
BD DOCUMENTS	10/05/2023

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21062.00	DNW	SH

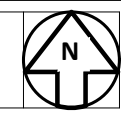
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**GENERAL NOTES, LEGEND, ABBREVIATIONS, DETAILS, PANEL SCHEDULE, & ONE-LINE DIAGRAM**

SHEET NUMBER:  
**E1.1**





2 ENLARGED DEMOLITION PLAN  
ED.1 1/4\" = 1'-0"

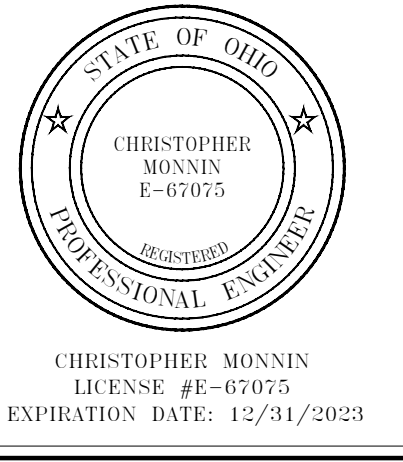


KEYNOTE SCHEDULE

#	KEYNOTE DESCRIPTION
1	REMOVE BRINE SYSTEM CONTROL PANEL AND ASSOCIATED EQUIPMENT FROM BUILDING AND STORE ON SITE. PROTECT CONTROL PANEL AND ASSOCIATED EQUIPMENT FROM DAMAGE AND WEATHER ON SITE. ANY DAMAGE TO CONTROL PANEL AND ASSOCIATED EQUIPMENT SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. COORDINATE WORK WITH THE GENERAL CONTRACTOR. REFER TO E3.1 FOR ADDITIONAL INFORMATION.
2	REMOVE PANEL FROM BUILDING AND STORE ON SITE. PROTECT PANEL FROM DAMAGE AND WEATHER ON SITE. ANY DAMAGE TO PANEL SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. COORDINATE WORK WITH THE GENERAL CONTRACTOR. REFER TO E3.1 FOR ADDITIONAL INFORMATION.
3	REMOVE METER AND SOCKET AND STORE ON SITE. PROTECT METER AND SOCKET FROM DAMAGE AND WEATHER ON SITE. ANY DAMAGE TO METER AND SOCKET SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. COORDINATE WORK WITH THE GENERAL CONTRACTOR. REFER TO E3.1 FOR ADDITIONAL INFORMATION.
4	REMOVE STARTER AND STORE ON SITE. PROTECT STARTER FROM DAMAGE AND WEATHER ON SITE. ANY DAMAGE TO STARTER SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. COORDINATE WORK WITH THE GENERAL CONTRACTOR. REFER TO E3.1 FOR ADDITIONAL INFORMATION.
5	DISCONNECT BRINE PUMP. PUMP REMOVED BY M.C. COORDINATE WORK WITH THE MECHANICAL CONTRACTOR. REFER TO E3.1 FOR ADDITIONAL INFORMATION.
6	RECEPTACLE AND ASSOCIATED CIRCUITRY TO BE DEMOLISHED.
7	LUMINAIRE AND ASSOCIATED CIRCUITRY TO BE DEMOLISHED.
8	PANEL TO BE DEMOLISHED.
9	UNIT HEATER TO BE DEMOLISHED.
10	METER TO BE DEMOLISHED.
11	WEATHER PROOF SWITCH TO BE DEMOLISHED.
12	EXISTING UNDERGROUND FEED TO BE DEMOLISHED.
13	EXISTING CONDUIT MAY BE RE-USED. COORDINATE WORK WITH AES.
14	EXISTING UTILITY POLE/PEDESTAL LOCATION.
15	DISCONNECT EXISTING TANK LEVEL SENSOR AND REMOVE CONDUIT AND WIRE BACK TO CONTROL PANEL.
16	REMOVE WARNING LIGHT FROM THE SIDE OF THE BUILDING AND STORE ON SITE. PROTECT WARNING LIGHT FROM DAMAGE AND WEATHER ON SITE. ANY DAMAGE TO WARNING LIGHT SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. COORDINATE WORK WITH THE GENERAL CONTRACTOR. REFER TO E3.1 FOR ADDITIONAL INFORMATION.
17	JUNCTION BOX ON THE SIDE OF THE HOPPER TO REMAIN. PROTECT JUNCTION BOX FROM DAMAGE AND WEATHER ON SITE. ANY DAMAGE TO JUNCTION BOX SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. COORDINATE WORK WITH THE GENERAL CONTRACTOR. REFER TO E3.1 FOR ADDITIONAL INFORMATION.

GENERAL ELECTRICAL DEMOLITION NOTES

- A. FIELD VERIFY ALL DIMENSIONS & CONDITIONS PRIOR TO START OF CONSTRUCTION. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCY OR SITUATION DISCOVERED THAT DOES NOT CONFORM TO CONSTRUCTION DOCUMENTS.
- B. ALL WORK PERFORMED IS SUBJECT TO APPROVAL BY THE ARCHITECT AND OWNER. WORK FOUND TO BE UNSATISFACTORY SHALL BE REMOVED AND PROPERLY REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
- C. ALL ITEMS AND MATERIAL NOTED AS "REMOVE" SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR OFF SITE. COORDINATE REMOVAL OF ITEMS WITH OWNER. OWNER HAS THE OPTION TO CLAIM ANY REMOVED ITEMS.
- D. TEMPORARILY SUPPORT ALL EQUIPMENT, CONDUIT, ETC. AS REQUIRED UNTIL FINAL SUPPORTS ARE IN PLACE.
- E. CLOSELY COORDINATE ALL WORK WITH THE OWNER AND WITH ALL OTHER CONTRACTORS HIRED BY THE OWNER. CLARIFY IN ADVANCE ANY QUESTIONS AS TO SCOPE OF WORK AND AREAS OF RESPONSIBILITY.
- F. CONDUITS, BOXES, AND CIRCUIT BREAKERS MAY BE REUSED WHERE POSSIBLE, IF NOT, MODIFY AS NEEDED FOR NEW WORK.
- G. DIV. 26 SHALL REFER TO ARCHITECTURAL, MECHANICAL, AND PLUMBING DEMOLITION PLANS FOR ELECTRICAL DISCONNECTION OR REMOVAL OF ANY ELECTRICAL EQUIPMENT.
- H. DIV. 26 SHALL PULL ALL WIRE AND CAP CONDUIT TO ALL CIRCUITS DISCONNECTED AND NOT REUSED.
- I. ALL ABANDONED WIRING ABOVE CEILING SHALL BE REMOVED PER THE REQUIREMENTS OF THE NEC.
- J. ALL ELECTRICAL EQUIPMENT SHOWN ON THIS SHEET SHALL BE REMOVED UNLESS OTHERWISE NOTED.



NEW BUILDING FOR

# CITY OF BEAVERCREEK

## SALT BARN & 9-ACRE PROPERTY SITE IMPROVEMENTS

2160 DANTON AVENUE ROAD  
BEAVERCREEK, OHIO 45424

ISSUANCES/REVISIONS	
BD DOCUMENTS	10/05/2023

PROJECT NUMBER: <b>21062.00</b>	DRAWN BY: DNW	CHECKED BY: SH
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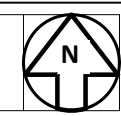
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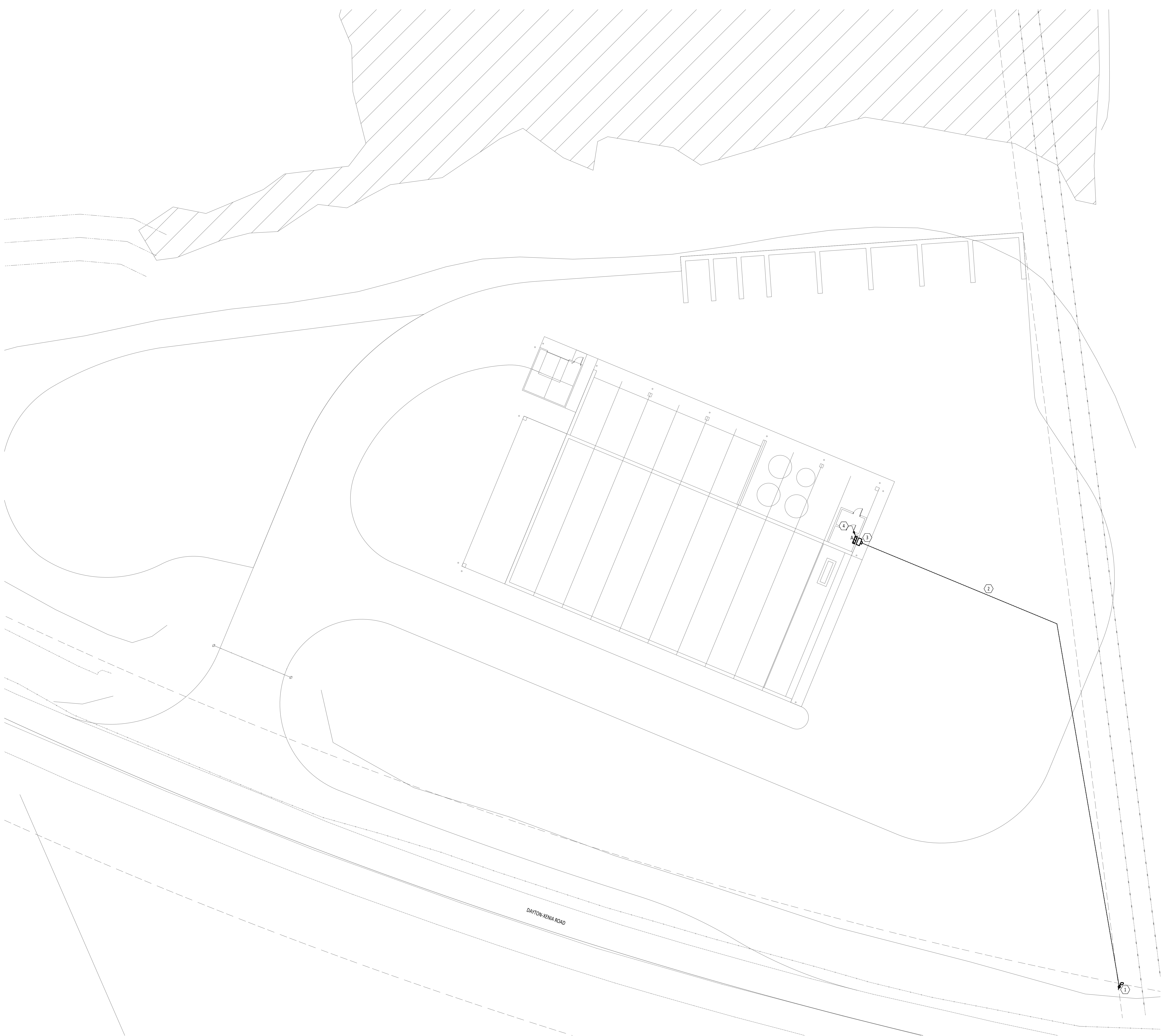
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**ED1.1**

UNDERGROUND UTILITIES

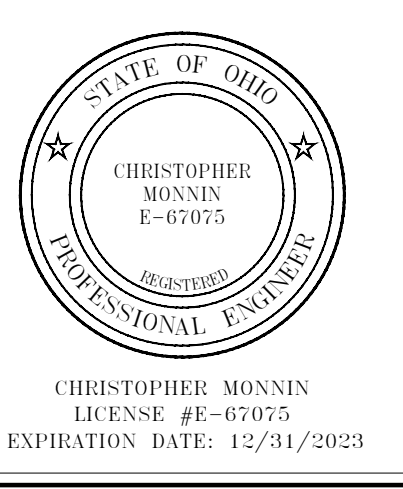


1 ELECTRICAL DEMOLITION PLAN  
ED.1 1/16\" = 1'-0"





#	KEYNOTE DESCRIPTION
1	EXISTING UTILITY POLE/PEDESTAL
2	NEW ELECTRICAL UNDERGROUND SERVICE. REFER TO ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZE.
3	RELOCATED UTILITY METER AND SOCKET.
4	RELOCATED PANEL 'A'



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
 2160 DAYTON-YENVA ROAD  
 BEAVERCREEK, OHIO 43084

ISSUANCES/REVISIONS	
BD DOCUMENTS	10/05/2023

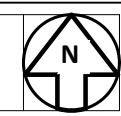
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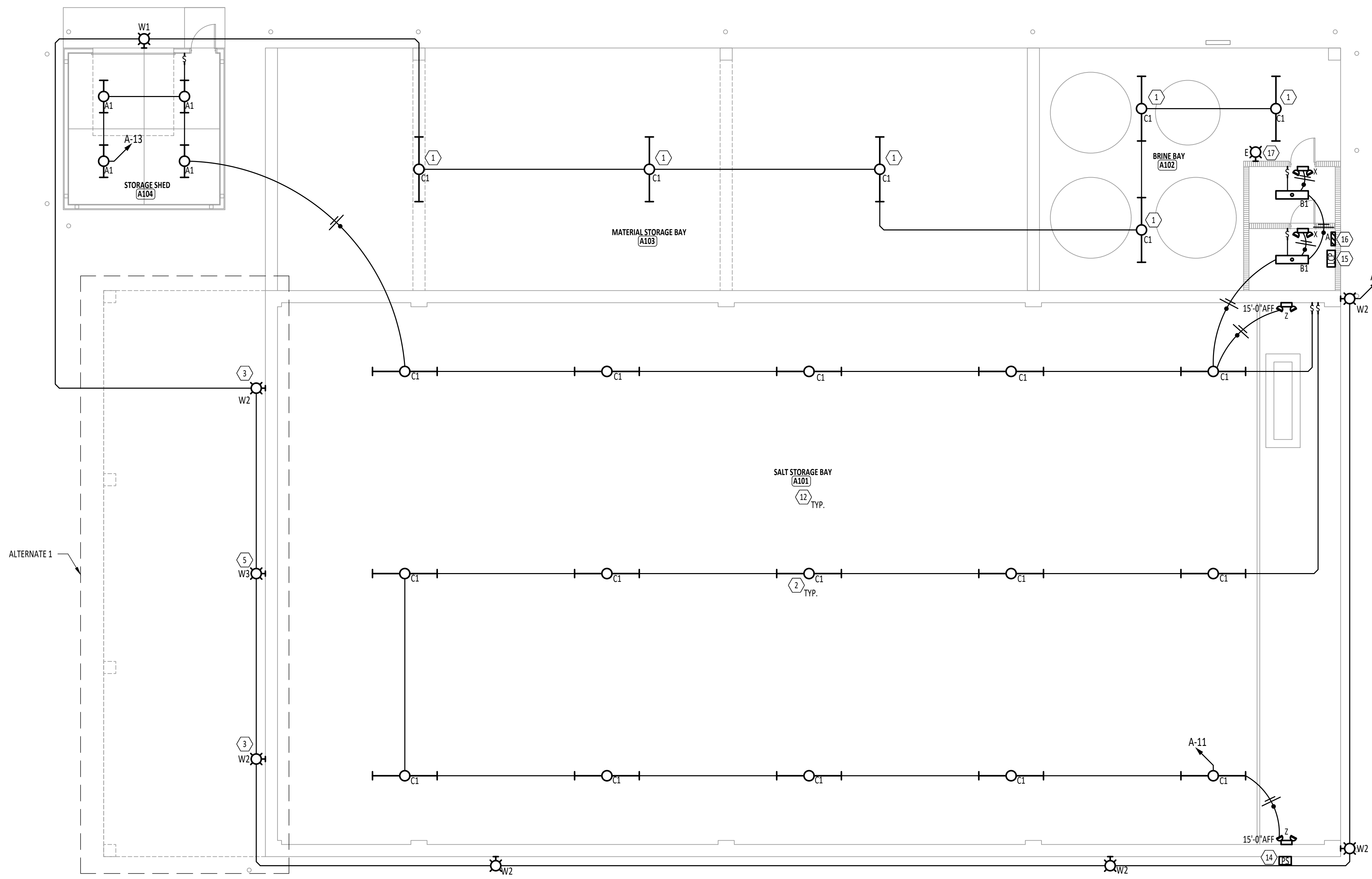
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**ELECTRICAL SITE PLAN**

SHEET NUMBER:  
**E2.1**

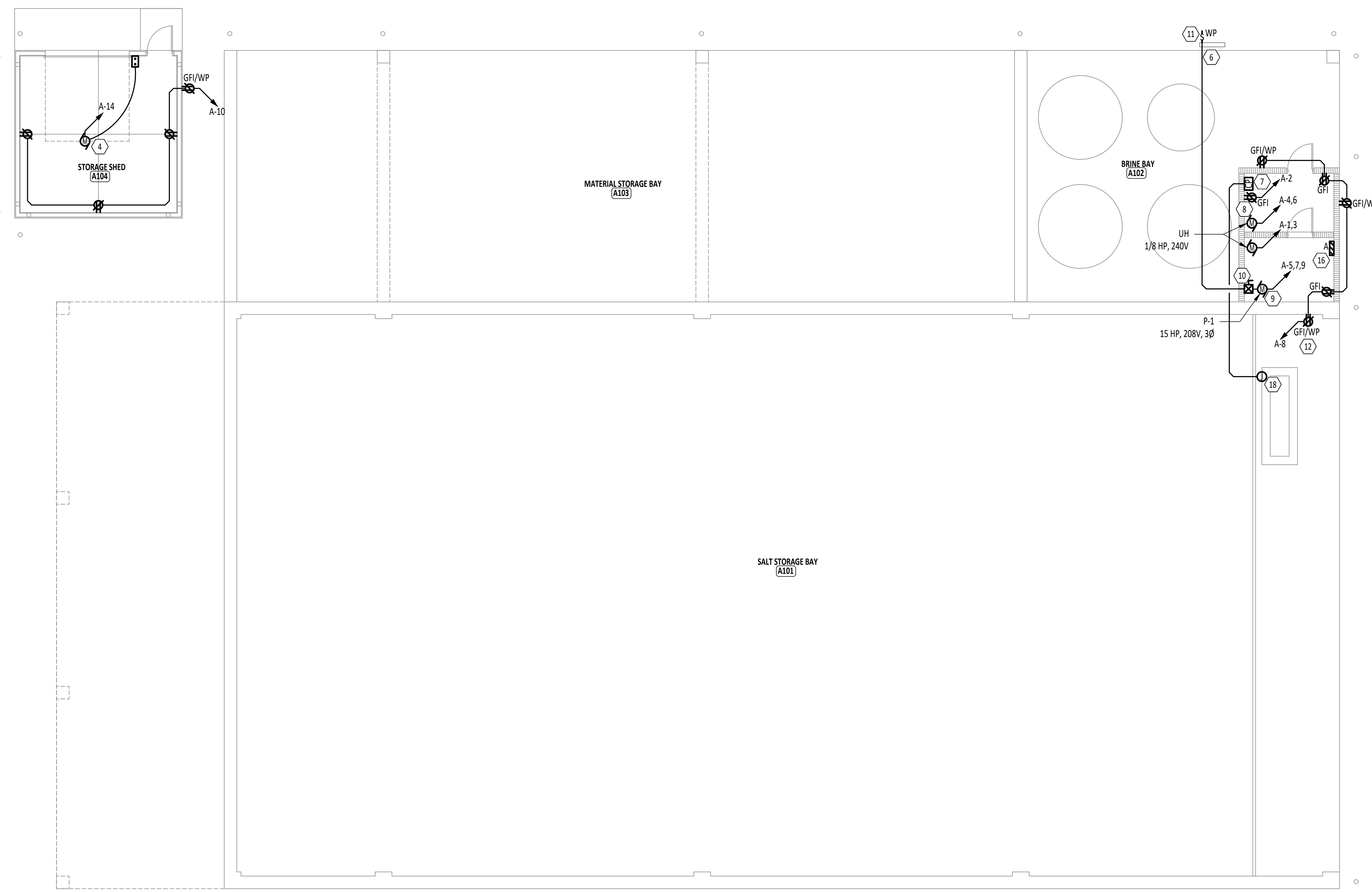
**UNDERGROUND UTILITIES**

2 WORKING DAYS  
 BEFORE YOU DIG  
 CALL TOLL FREE **800-362-2764**  
OHIO UTILITIES PROTECTION SERVICE  
 NON-MEMBERS  
 MUST BE CALLED DIRECTLY





**1** LIGHTING PLAN  
E3.1 1/8" = 1'-0"



**2** POWER PLAN  
E3.1 1/8" = 1'-0"

ROOM INDEX	
ROOM NUMBER	ROOM NAME
A101	SALT STORAGE BAY
A102	BRINE BAY
A103	MATERIAL STORAGE BAY
A104	STORAGE SHED (ALTERNATE 1)

KEYNOTE SCHEDULE	
#	KEYNOTE DESCRIPTION
1	FIXTURE TO BE SURFACE MOUNTED UNDER CANOPY STRUCTURE.
2	FIXTURES TO BE SURFACE MOUNTED UNDER THE STRUCTURE.
3	FIXTURE INCLUDED UNDER ALTERNATE 1.
4	PROVIDE NECESSARY POWER CONNECTIONS TO MOTORIZED DOOR OPERATOR. PROVIDE POWER AND CONTROL RACEWAY AND ROUGH-IN AS REQUIRED. COORDINATE WORK WITH G.C. AND OVERHEAD DOOR INSTALLER.
5	FIXTURE INCLUDED UNDER BASE BID.
6	RELOCATED TRUCK CONNECTION MANIFOLD BY M.C.
7	RELOCATED BRINE SYSTEM CONTROL PANEL AND ASSOCIATED EQUIPMENT. COORDINATE LOCATION, MOUNTING HEIGHT, AND CONTROLLER SET UP WITH PENGWYN.
8	RECEPACLE TO POWER BRINE SYSTEM CONTROL PANEL.
9	RELOCATED BRINE PUMP.
10	RELOCATED STARTER.
11	WEATHER PROOF SWITCH TO TURN ON/OFF TANK HOSES AT SWITCH STATION. CONFIRM WIRING WITH OWNER.
12	CONDUIT INSIDE THE SALT BARN SHALL BE SCHEDULE 80 PVC.
13	LIGHTING CONTROLLED BY PHOTO SENSOR. REFER TO DETAIL 4/E1.1.
14	PHOTO SENSOR FOR EXTERIOR LIGHTING.
15	LIGHTING CONTROL PANEL. REFER TO DETAIL 4/E1.1.
16	RELOCATED PANEL A.
17	RELOCATED WARNING LIGHT. COORDINATE LOCATION AND WIRING WITH THE OWNER.
18	RELOCATED JUNCTION BOX WITH HOPPER. COORDINATE LOCATION AND WIRING WITH THE OWNER.



NEW BUILDING FOR  
**CITY OF BEAVERCREEK**  
**SALT BARN & 9-ACRE PROPERTY SITE**  
**IMPROVEMENTS**  
2160 DANTON AERIAL ROAD  
BEAVERCREEK, OHIO 43084

ISSUANCES/REVISIONS	
BD DOCUMENTS	10/05/2023

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
21062.00	DNW	SH

SHEET TITLE:

**ELECTRICAL PLANS**

SHEET NUMBER:

**E3.1**