

SHIPPING DIMENSIONS

LEGEND:	
	KILL SWITCH
	DURESS
	ELECTRIC RECEPTACLE
	DOUBLE STACKED
	SS
	SINGLE STACKED
	EMERGENCY LIGHT
	TELEPHONE JACK
	LAN CONNECTION
	SEISMIC SENSOR
	SMOKE DETECTION
	PIR
	BULLET TRAP

LEGEND CONTINUED:	
	THERMOSTAT
	GROUND

UNLESS OTHERWISE NOTED, TOLERANCES ARE:
 FRACTIONS: $\pm 1/16$ ANGLES: $\pm 1^\circ$
 MACHINED SURFACES: 125 MICRO-INCHES
 THESE TOLERANCES DO NOT APPLY TO BASIC DIMS.
 DRAWN TO SCALE UNLESS OTHERWISE NOTED

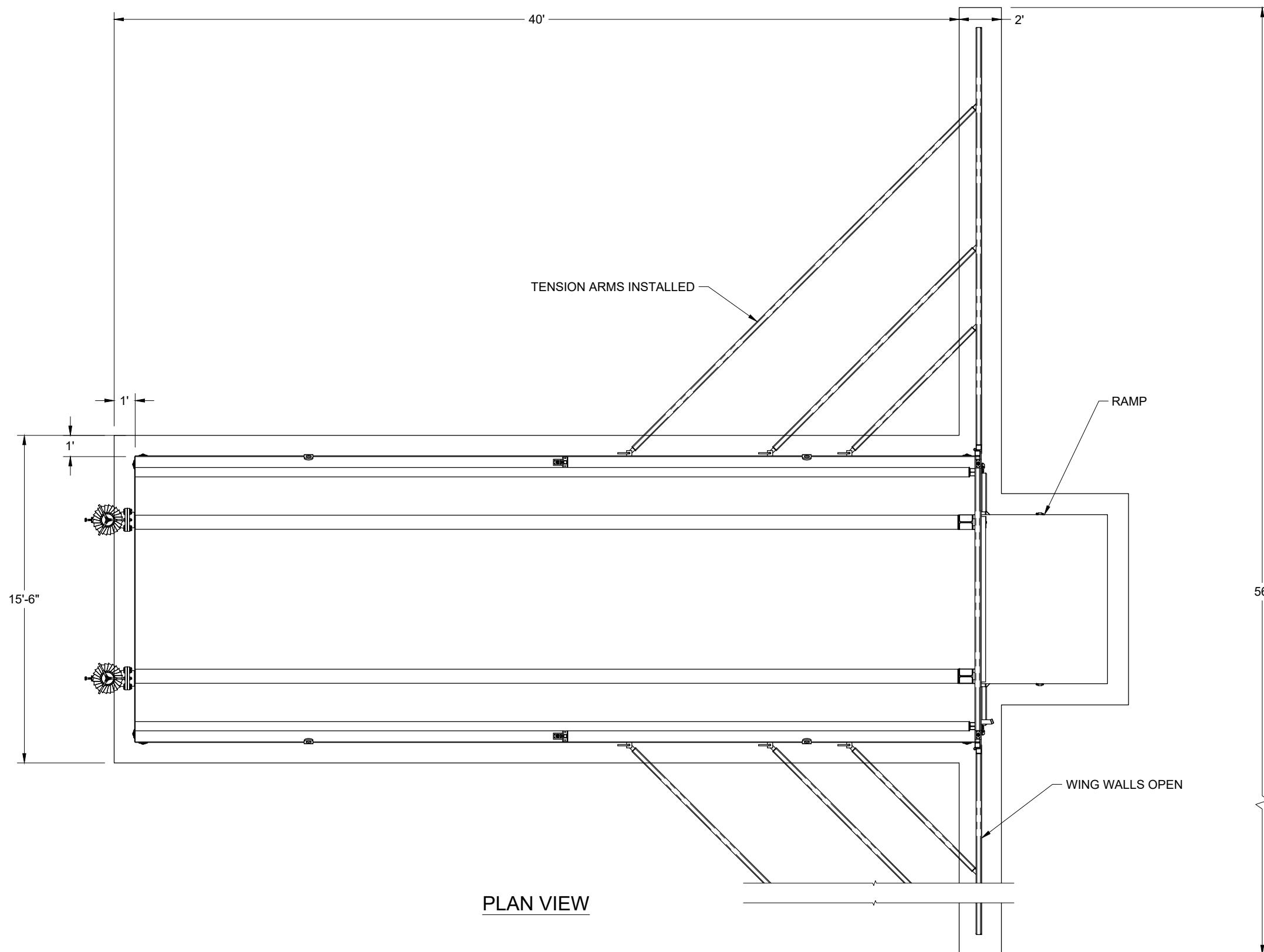
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UNIT LENGTH	UNIT WIDTH	UNIT HEIGHT
40'	13'-6"	9'
UNIT SPEC	-	
UNIT TYPE	ECM	
LOCATION	CUSTOMER	
SERIAL #	QUOTE #	

ARMAG®
 CORPORATION
 Manufacturers of Arms Vaults and Explosive Storage magazines since 1969
 300 ARAMAG AVE. • BARDSTOWN, KY 40004 • PHONE: (800) 443-9994 •
 FAX: (502) 348-4801 • EMAIL: info@aramagcorp.com

DESCRIPTION
 3-BAR EARTHEN COVERED TYPE 2 MAGAZINE
 SHIPPING AND INSTALLATION INFORMATION
 LINING

DRAWN BY CMS	REVISION 03
DATE DRAWN 12/17/2024	
APPROVED BY -	
SHEET SIZE B	APPROX. SHIPPING WT. IN LBS 65,000
SCALE 1:96	DRAWING NO. S1412
SHEET 1 OF 7	



LEGEND:	
	KILL SWITCH
	DURESS
	ELECTRIC RECEPTACLE
DS	DOUBLE STACKED
SS	SINGLE STACKED
	EMERGENCY LIGHT
	TELEPHONE JACK
	LAN CONNECTION
	SEISMIC SENSOR
	SMOKE DETECTION
	PIR
	BULLET TRAP

LEGEND CONTINUED:	
	THERMOSTAT
	GROUND

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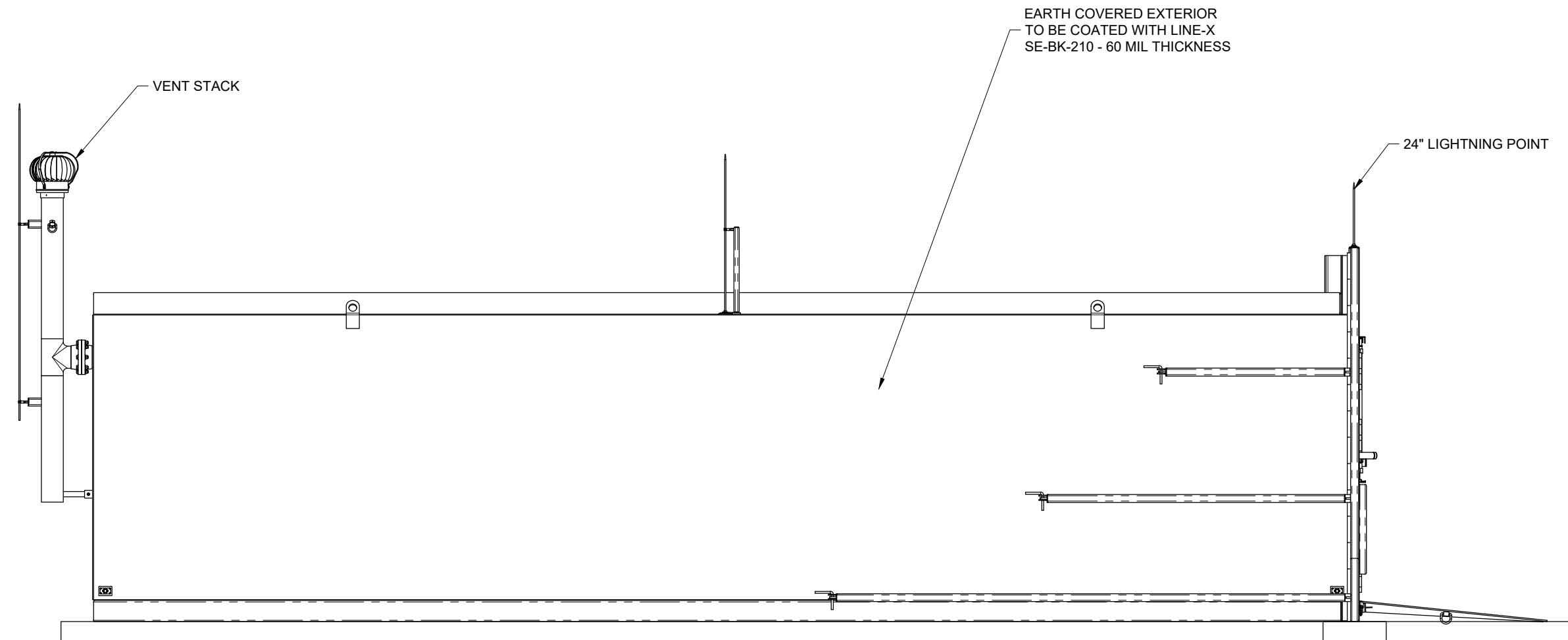
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SHEET SIZE B	APPROX. SHIPPING WT. IN LBS 65,000
SCALE 1:64	DRAWING NO. S1412
SHEET 2 OF 7	



SIDE ELEVATION

LEGEND:	
	KILL SWITCH
	DURESS
	ELECTRIC RECEPTACLE
DS	DOUBLE STACKED
SS	SINGLE STACKED
	EMERGENCY LIGHT
	TELEPHONE JACK
	LAN CONNECTION
	SEISMIC SENSOR
	SMOKE DETECTION
	PIR
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LEGEND CONTINUED:	
	THERMOSTAT
	GROUND

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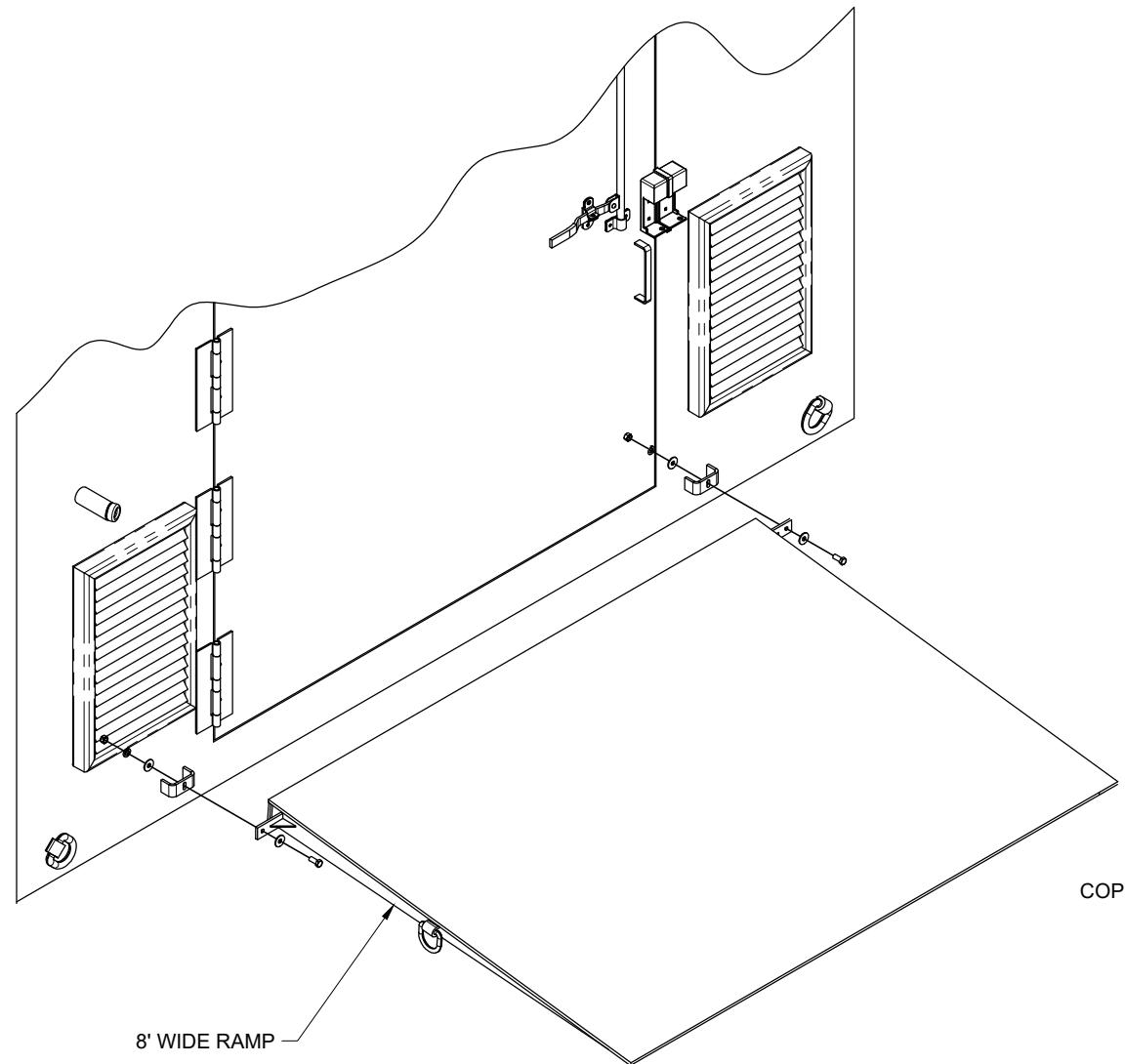
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UNIT TYPE	ECM				
CUSTOMER					
LOCATION					
SERIAL #		QUOTE #			

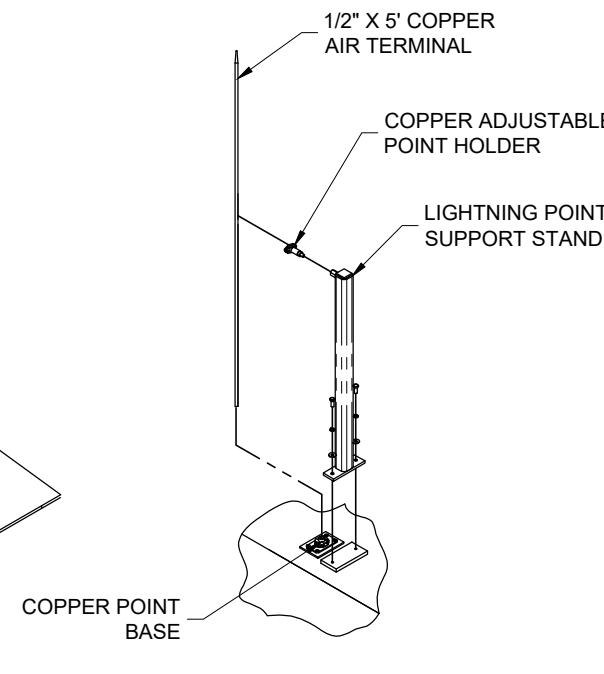


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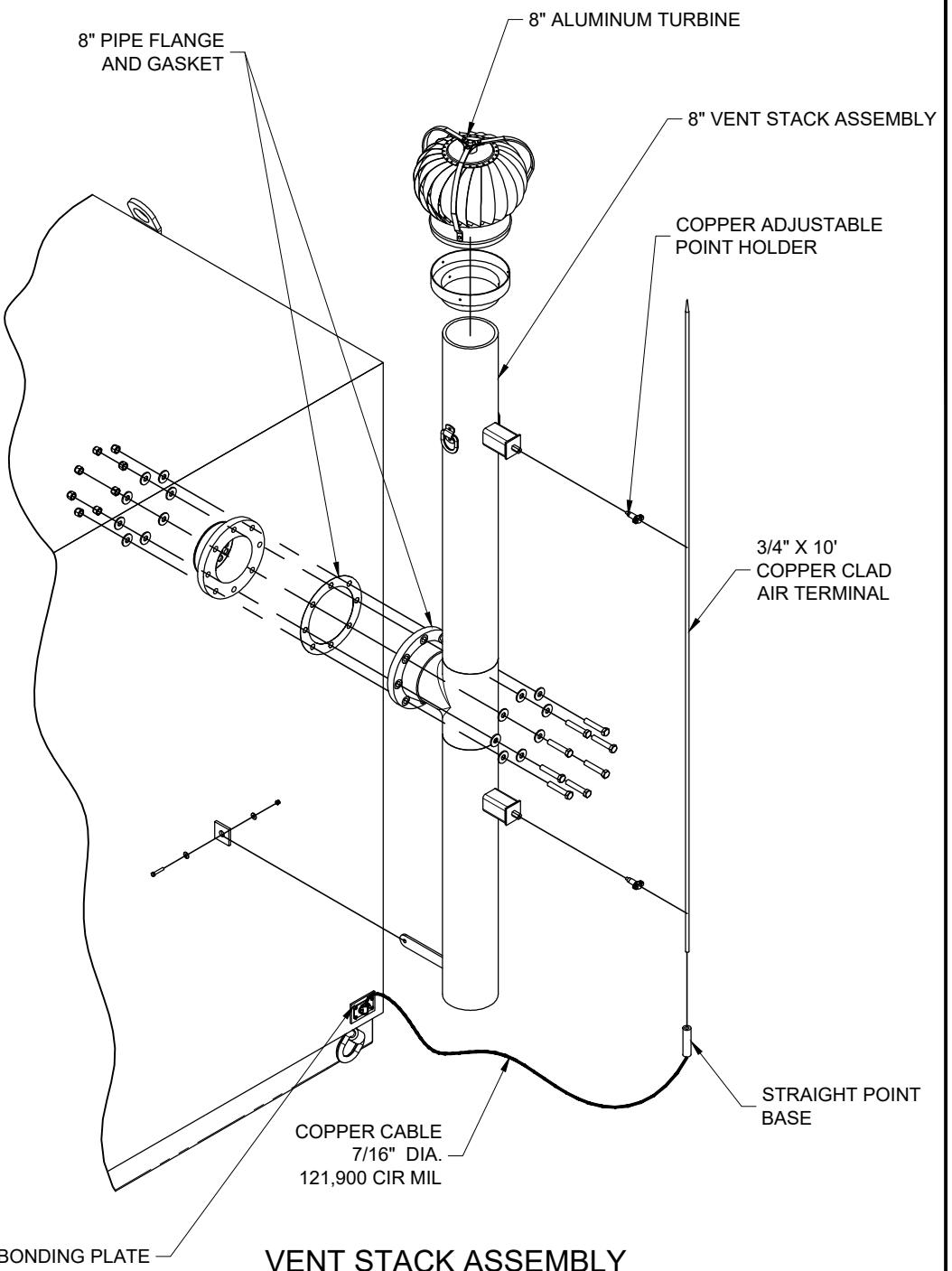
DRAWN BY CMS	REVISION 03
DATE DRAWN 12/17/2024	
APPROVED BY -	
SHEET SIZE B	
APPROX. SHIPPING WT. IN LBS 65,000	
SCALE 1:48	DRAWING NO. S1412
SHEET 3 OF 7	



RAMP ASSEMBLY



LIGHTNING PROTECTION ASSEMBLY



VENT STACK ASSEMBLY

LEGEND:	
	KILL SWITCH
	DRESS
	ELECTRIC RECEPTACLE
	SINGLE STACKED
	EMERGENCY LIGHT
	TELEPHONE JACK
	LAN CONNECTION
	SEISMIC SENSOR
	SMOKE DETECTION
	PIR
	BULLET TRAP

LEGEND CONTINUED:	
	THERMOSTAT GROUND

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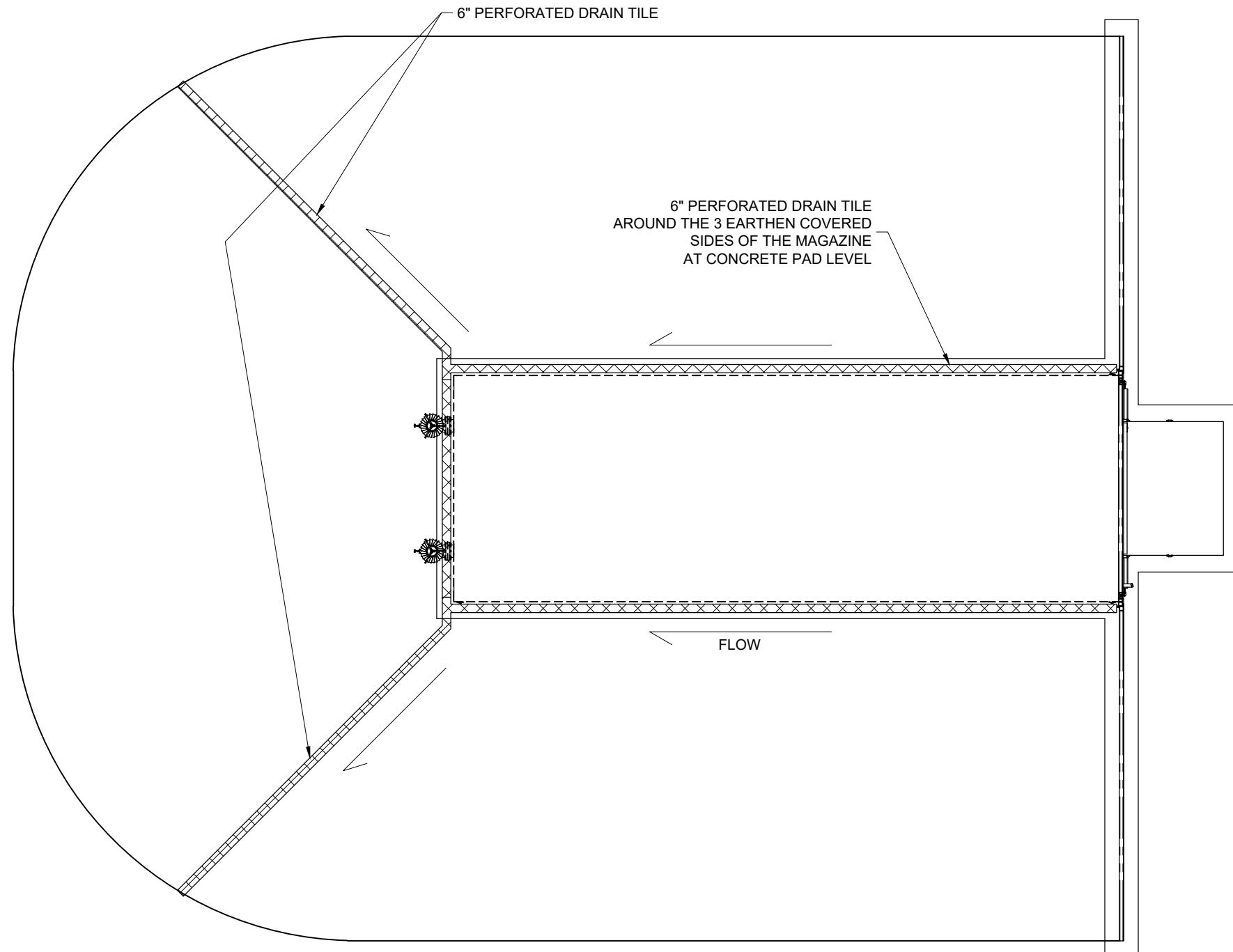
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DATE DRAWN 12/17/2024	
APPROVED BY -	
SHEET SIZE B	
APPROX. SHIPPING WT. IN LBS 65,000	
SCALE 1:32	
SHEET 4 OF 7	
DRAWING NO. S1412	



DRAINAGE PLAN

LEGEND:	
	KILL SWITCH
	DURESS
	ELECTRIC RECEPTACLE
	DOUBLE STACKED
	SINGLE STACKED
	EMERGENCY LIGHT
	TELEPHONE JACK
	LAN CONNECTION
	SEISMIC SENSOR
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	PIR
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LEGEND CONTINUED:	
	THERMOSTAT GROUND

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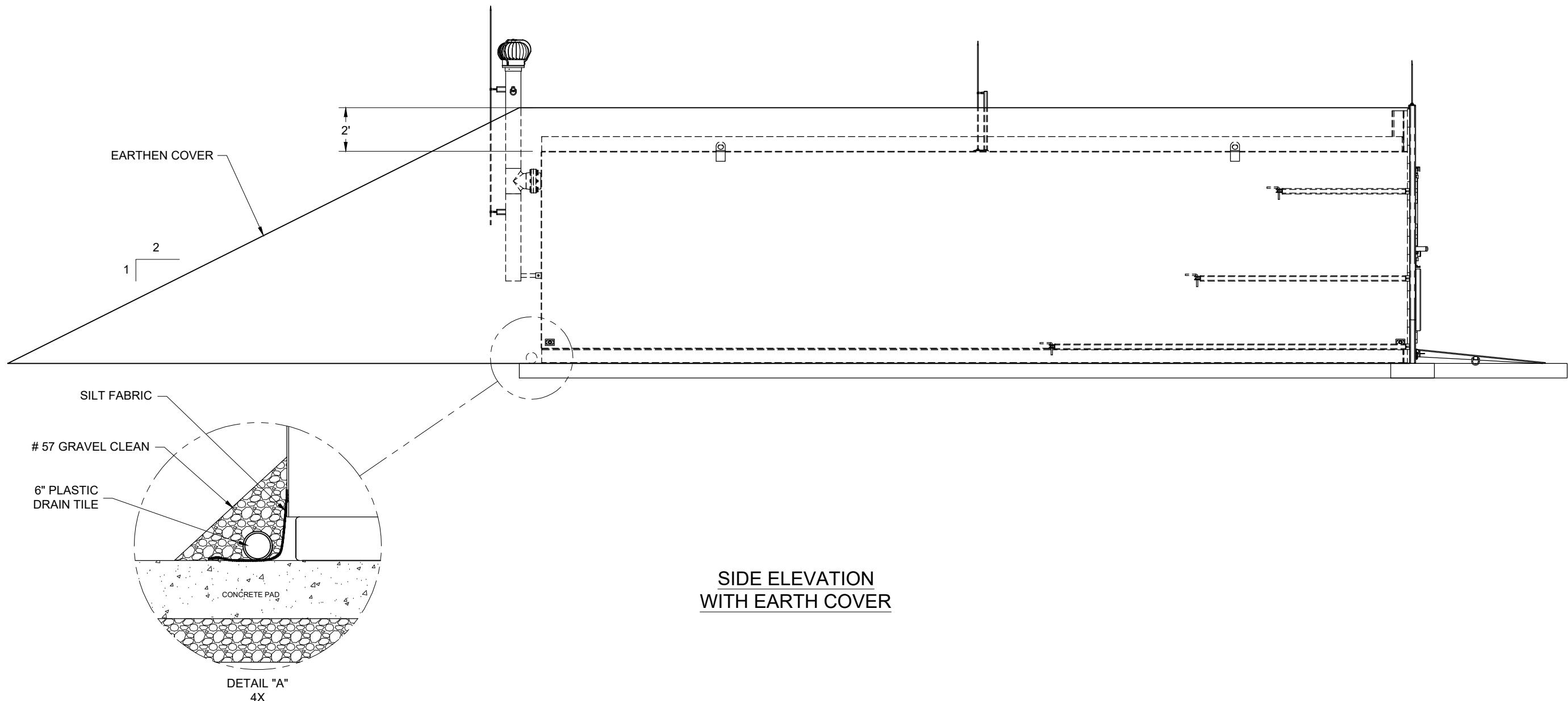
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ECM		
CUSTOMER		
LOCATION		
SERIAL #		
QUOTE #		



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SHEET SIZE B	APPROX. SHIPPING WT. IN LBS 65,000
SCALE 1:96	DRAWING NO. S1412
SHEET 5 OF 7	



LEGEND:	
	KILL SWITCH
	DURESS
	ELECTRIC RECEPTACLE
	DOUBLE STACKED
	SS
	SINGLE STACKED
	EMERGENCY LIGHT
	TELEPHONE JACK
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LEGEND CONTINUED:	
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	GROUND

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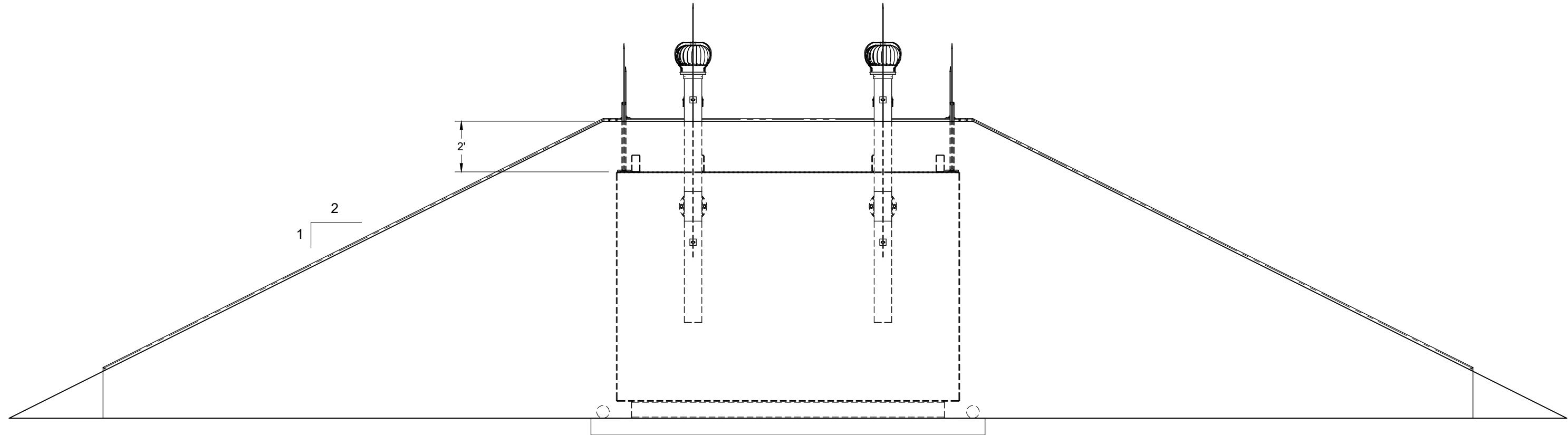
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DATE DRAWN 12/17/2024	
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SHEET SIZE B	APPROX. SHIPPING WT. IN LBS 65,000
SCALE 1:60	DRAWING NO. S1412
SHEET 6 OF 7	



REAR ELEVATION
WITH EARTH COVER

LEGEND:	
	KILL SWITCH
	DURESS
	ELECTRIC RECEPTACLE
DS	DOUBLE STACKED
SS	SINGLE STACKED
	EMERGENCY LIGHT
	TELEPHONE JACK
	LAN CONNECTION
	SEISMIC SENSOR
	SMOKE DETECTION
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LEGEND CONTINUED:	
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	GROUND

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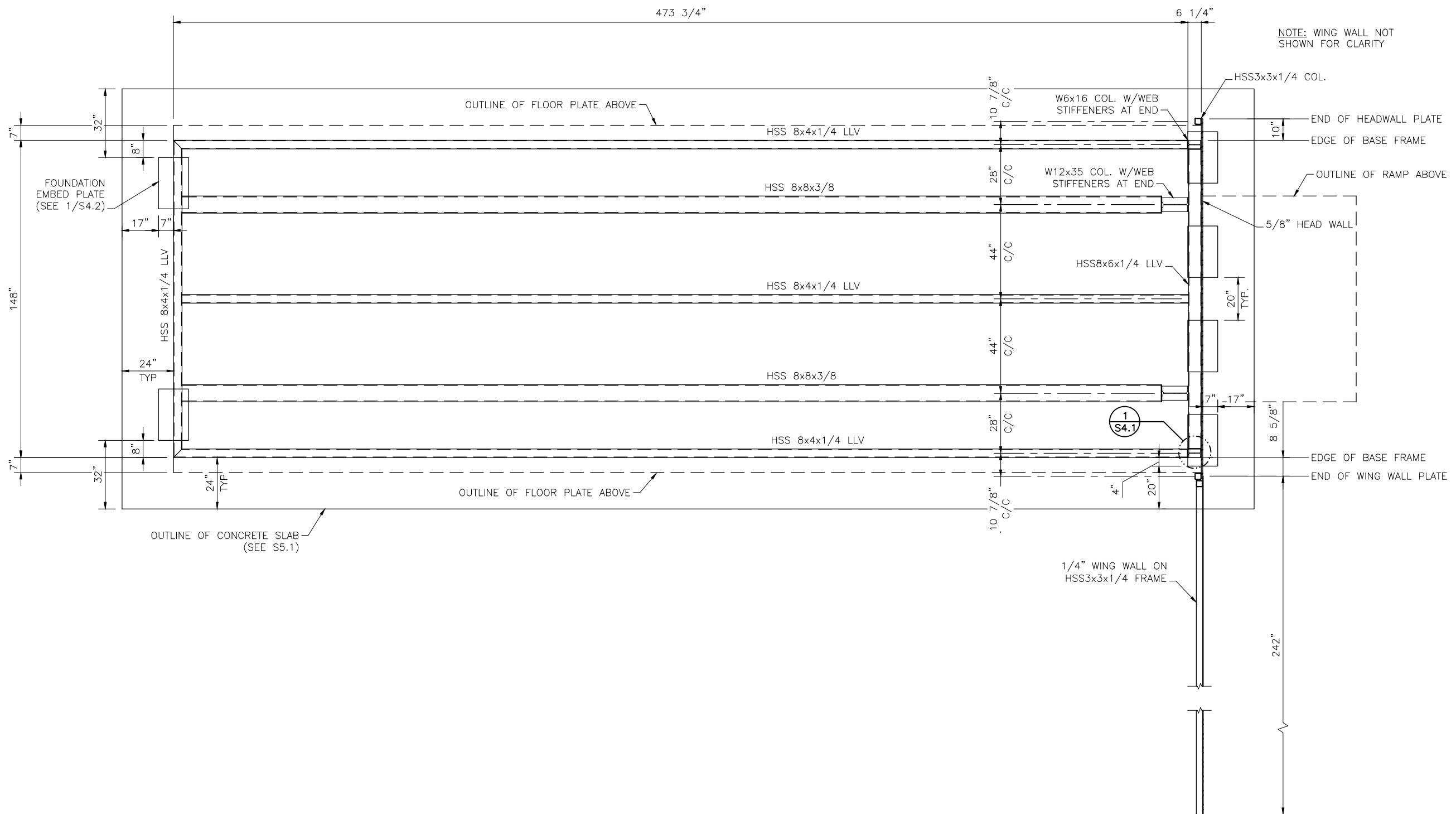
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LOCATION	CUSTOMER	
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SCALE 1:48	DRAWING NO. S1412
SHEET 7 OF 7	



1 FOUNDATION PLAN
S1.1 SCALE=1:50

NOTES:

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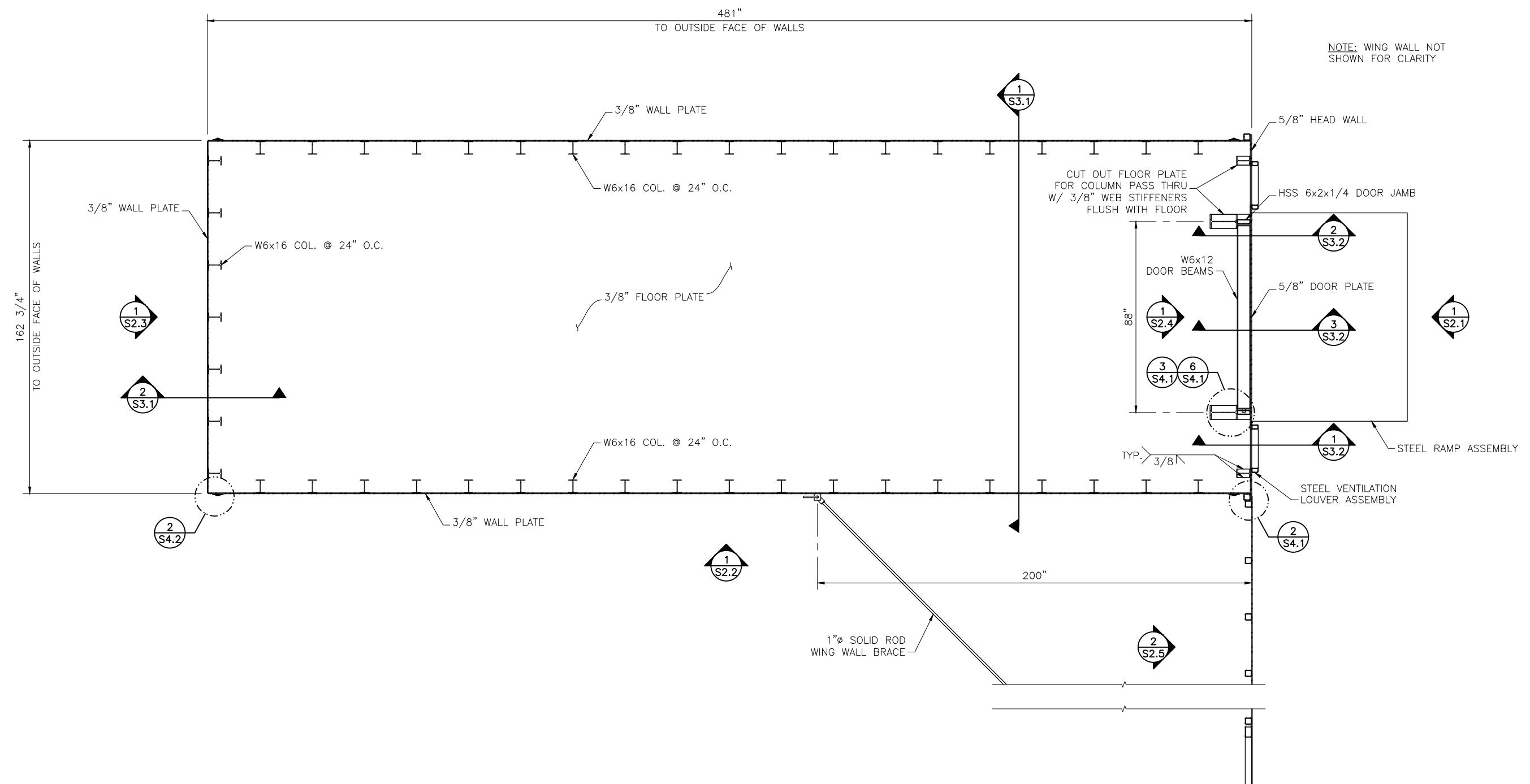
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DESCRIPTION
40' X 13'-6" X 9' 3-BAR EARTHEN COVERED TYPE 2
MAGAZINE
FABRICATION DETAILS

DRAWN BY PDM	REVISION 16
DATE DRAWN 12/17/2024	
APPROVED BY -	
SHEET SIZE B	APPROX. SHIPPING WT. IN LBS -
SCALE 1:50	DRAWING NO. S1413
MATERIAL SHEET S1.1	



1
S1.2 FLOOR PLAN
SCALE=1:50

NOTES:

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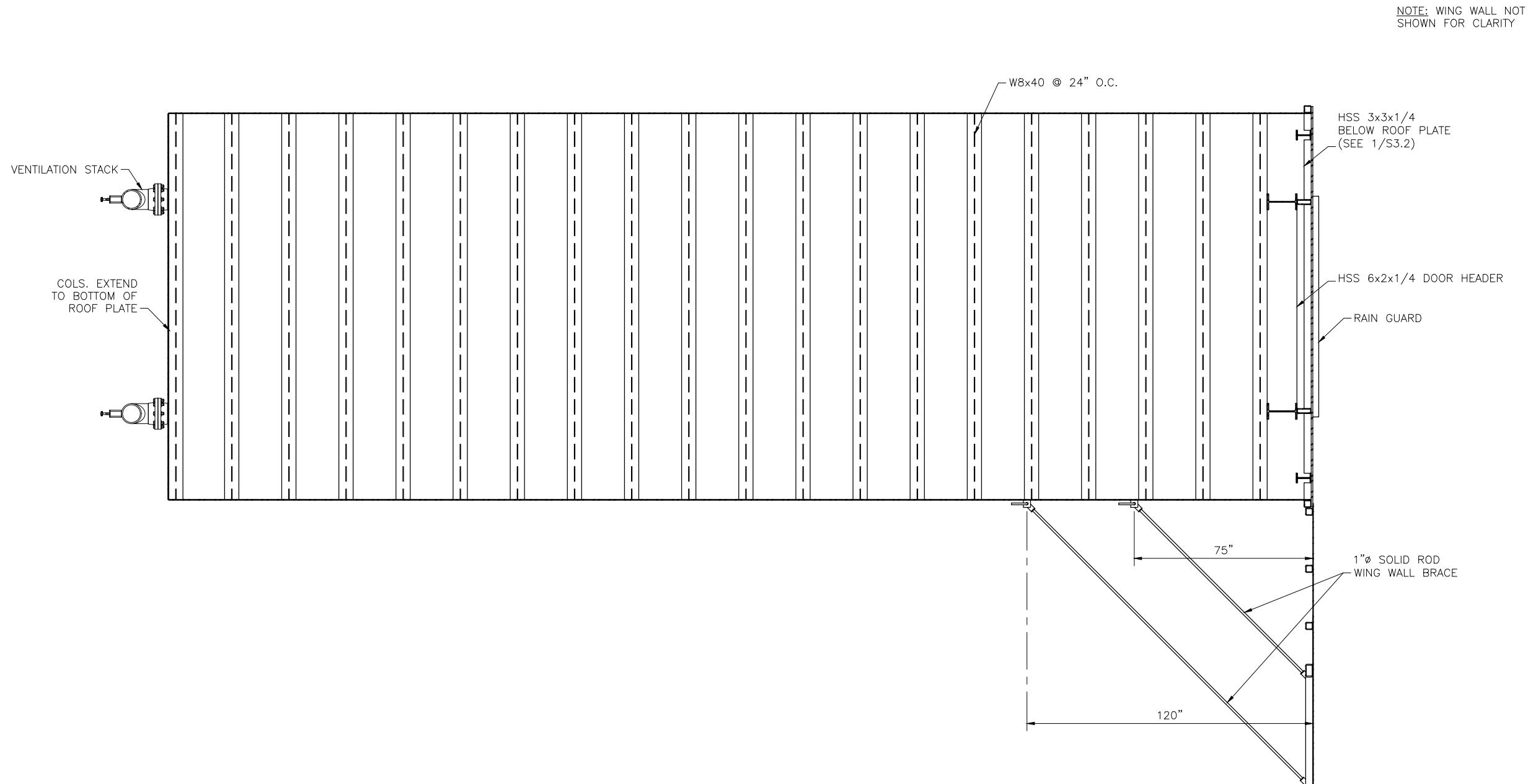
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MATERIAL

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DATE DRAWN 12/17/2024	
APPROVED BY -	
SHEET SIZE B	APPROX. SHIPPING WT. IN LBS -
SCALE 1:50	DRAWING NO. S1413
SHEET S1.2	



1
S1.3 FRAMING PLAN

SCALE=1:50

NOTES:

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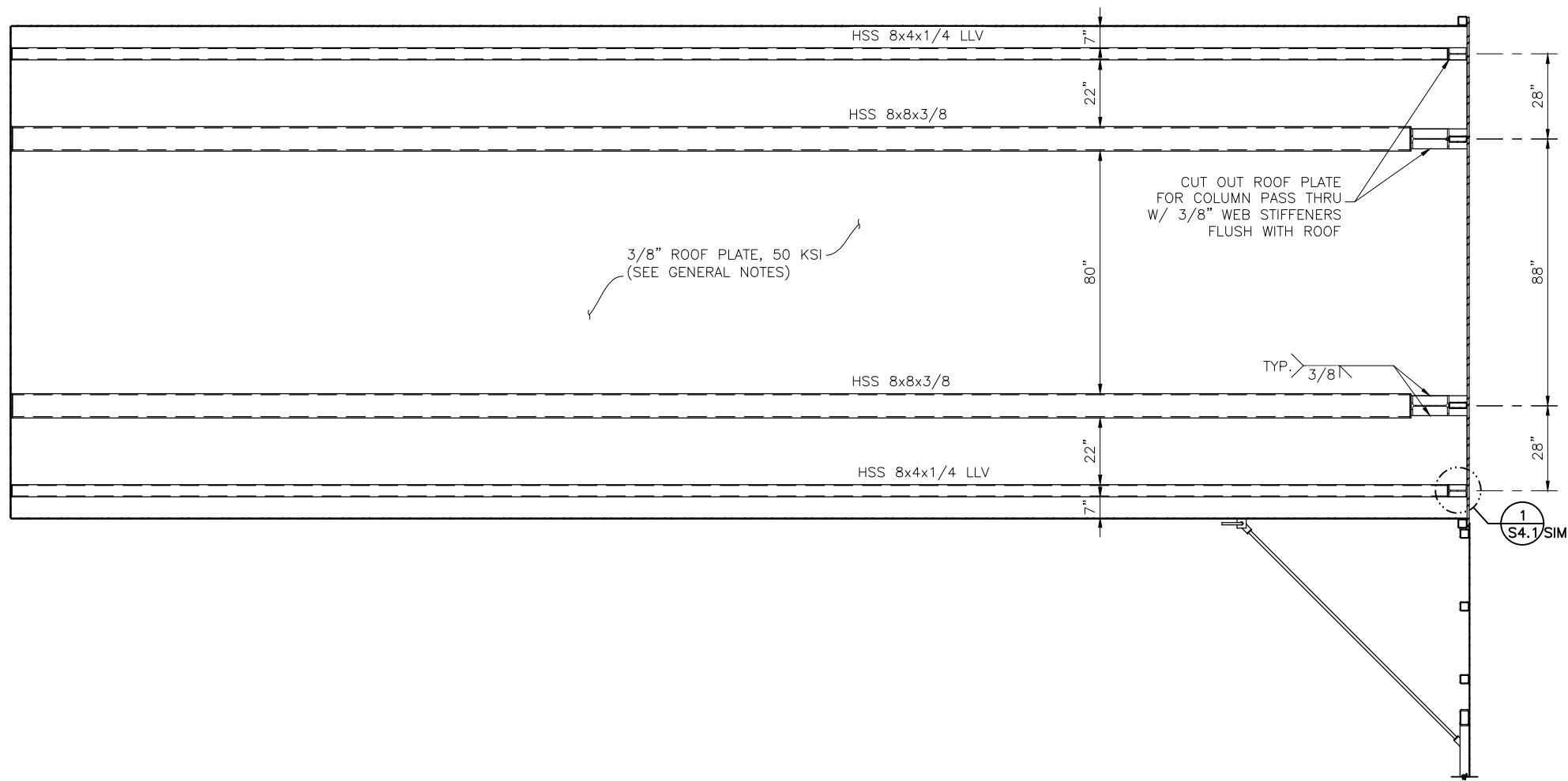
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MATERIAL

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SHEET SIZE B	APPROX. SHIPPING WT. IN LBS -
SCALE 1:50	DRAWING NO. S1413
SHEET S1.3	

NOTE: WING WALL NOT SHOWN FOR CLARITY



1
S1.4 ROOF PLAN
SCALE=1:50

NOTES:

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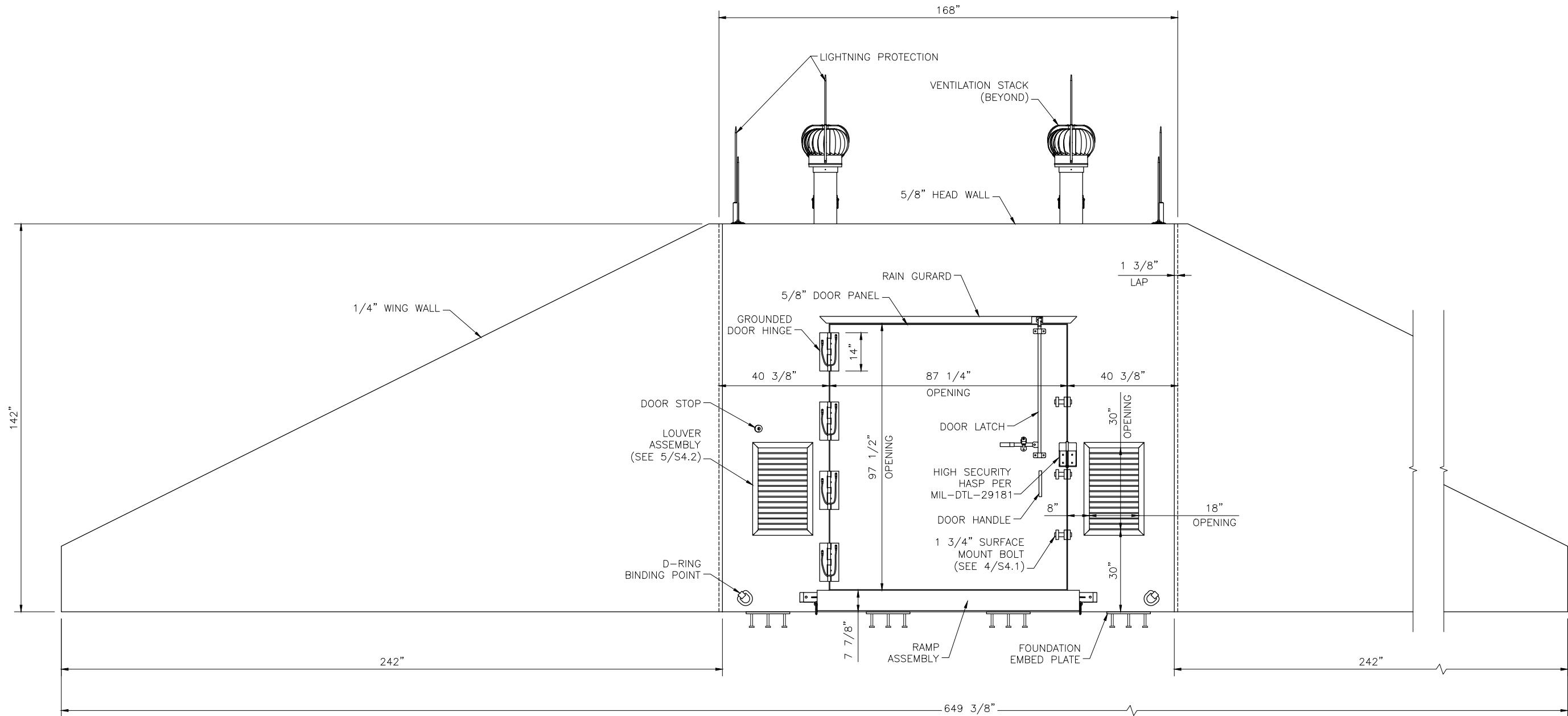
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FABRICATION DETAILS

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APPROVED BY -
SHEET SIZE B
SCALE 1:50
MATERIAL
SHEET S1.4

REVISION 16
DRAWING NO. S1413



FRONT ELEVATION
S2.1 SCALE=1:40

NOTES

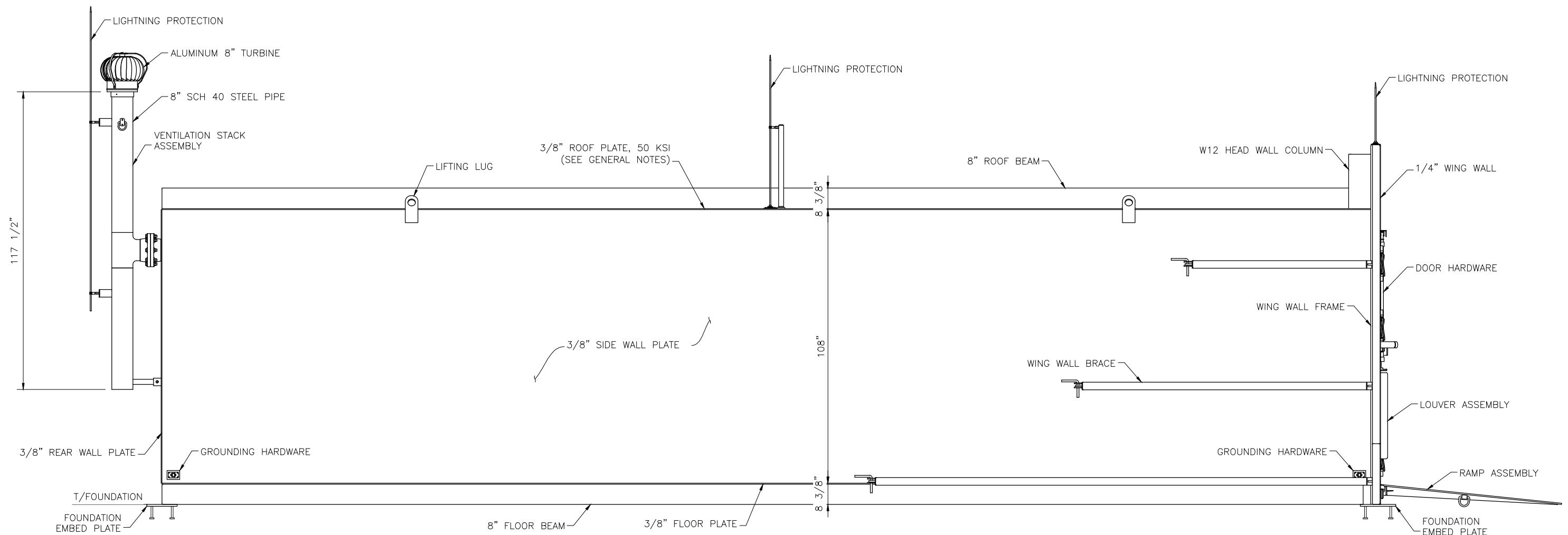
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The logo for ARMAG Corporation. It features the word "ARMAG" in a large, bold, black, sans-serif font. The letters are thick and have a slight slant. A registered trademark symbol (®) is located in the top right corner of the 'G'. Below "ARMAG" is the word "CORPORATION" in a smaller, all-caps, black, sans-serif font.

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	DATE DRAWN 12/17/2024	
	APPROVED BY -	APPROX. SHIPPING WT. IN LBS -
	SHEET SIZE B	
	SCALE 1:40	DRAWING NO. S1413
MATERIAL -	SHEET S21	



1 SIDE ELEVATION

S2.2 SCALE=1:40

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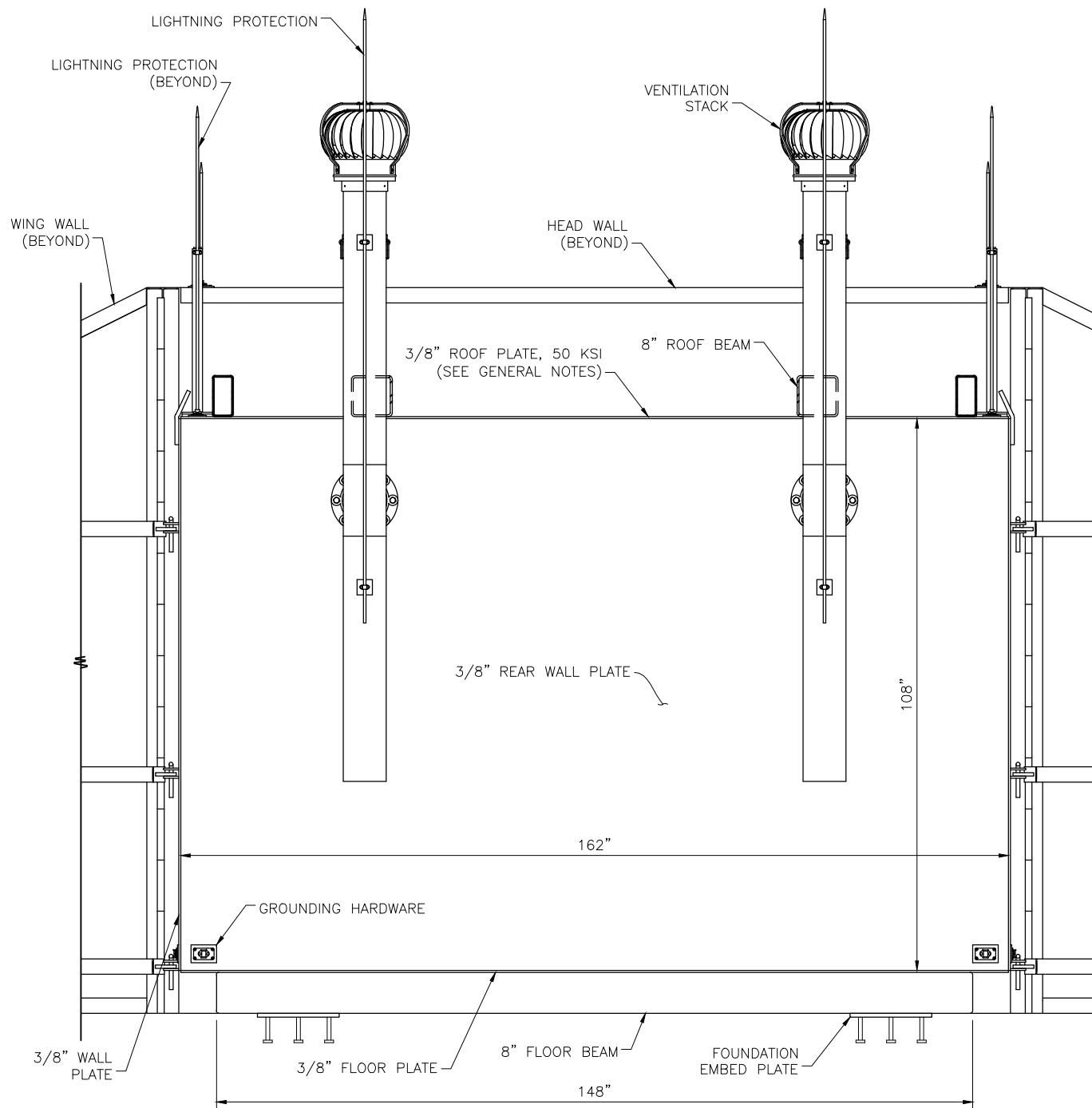
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MATERIAL SHEET S2.2	



1 REAR ELEVATION

S2.3 SCALE=1:30

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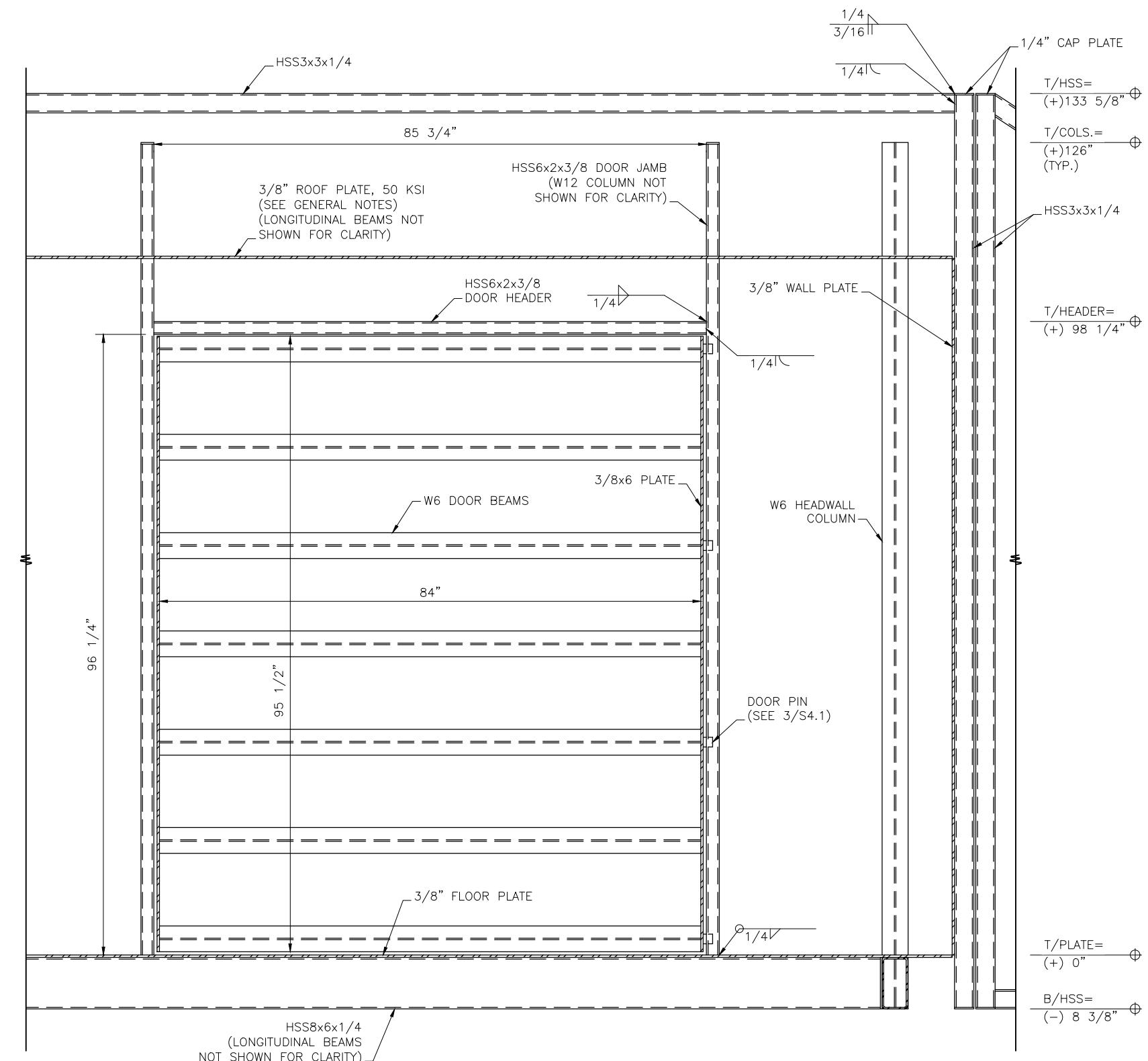
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SHEET SIZE B	
SCALE 1:30	DRAWING NO. S1413
MATERIAL S2.3	



1
FRONT INTERIOR ELEVATION
S2.4 SCALE=1:20

NOTES:

UNLESS OTHERWISE NOTED, TOLERANCES ARE:
FRACTIONS: $\pm 1/16$, ANGLES: $\pm 1^\circ$
MACHINED SURFACES: 125 MICRO-INCHES
THESE TOLERANCES DO NOT APPLY TO BASIC DIMS.
DRAWN TO SCALE UNLESS OTHERWISE NOTED

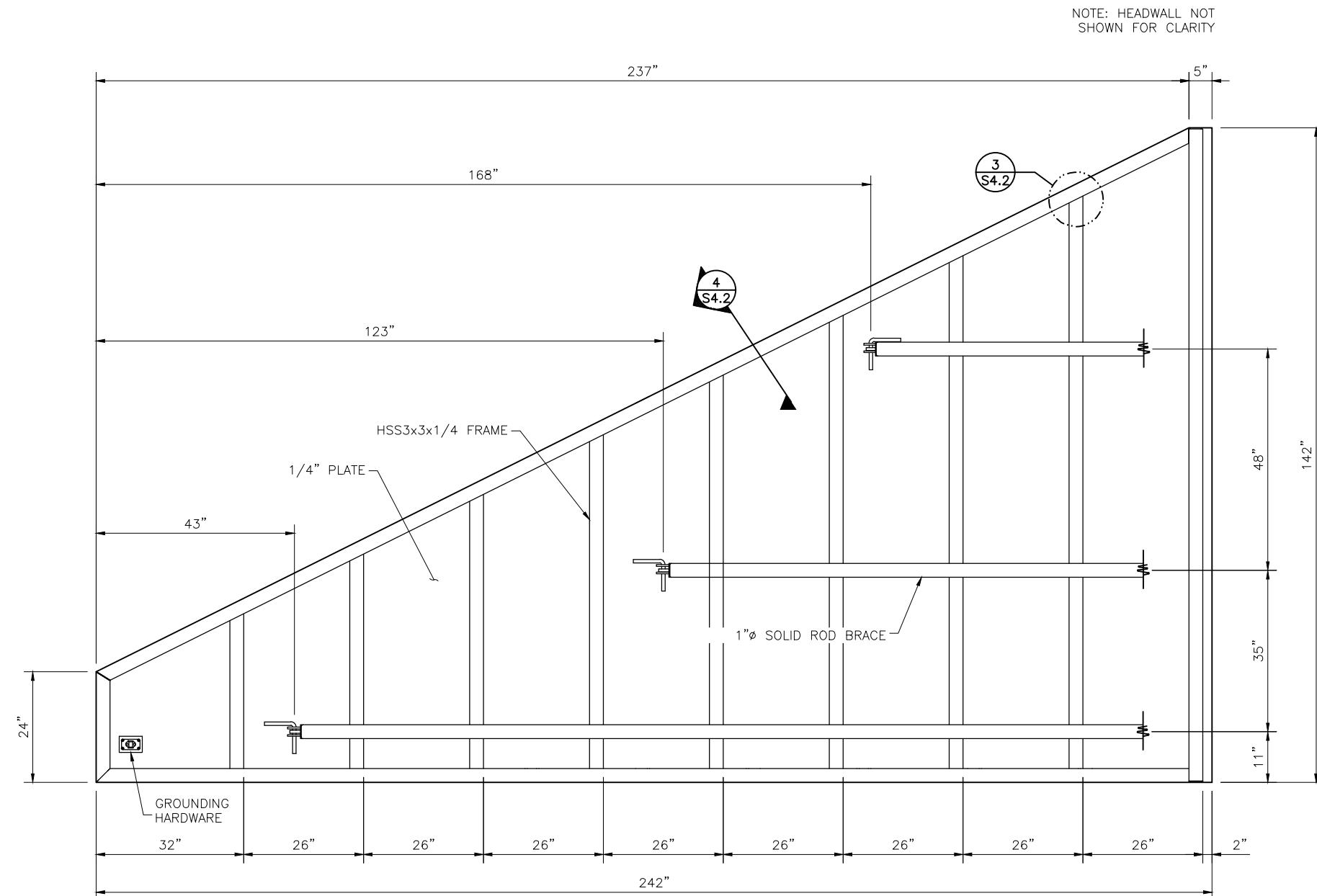
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DESCRIPTION
40' X 13'-6" X 9' 3-BAR EARTHEN COVERED TYPE 2
MAGAZINE
FABRICATION DETAILS

DRAWN BY PDM	REVISION 16
DATE DRAWN 12/17/2024	
APPROVED BY -	APPROX. SHIPPING WT. IN LBS
SHEET SIZE B	-
SCALE 1:20	DRAWING NO. S1413
MATERIAL SHEET S2.4	



1
S2.5 WING WALL ELEVATION
SCALE=1:30

NOTES:

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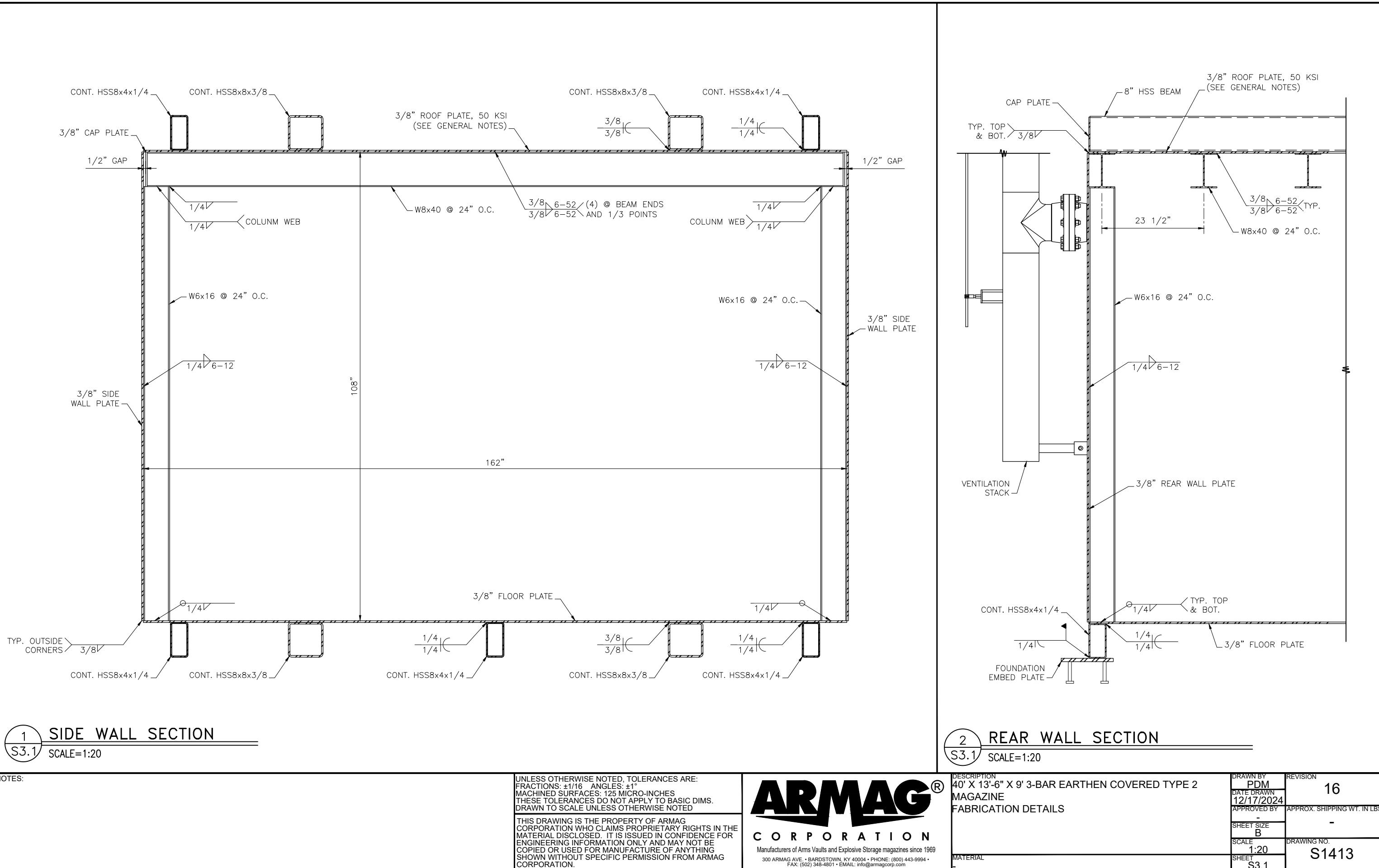
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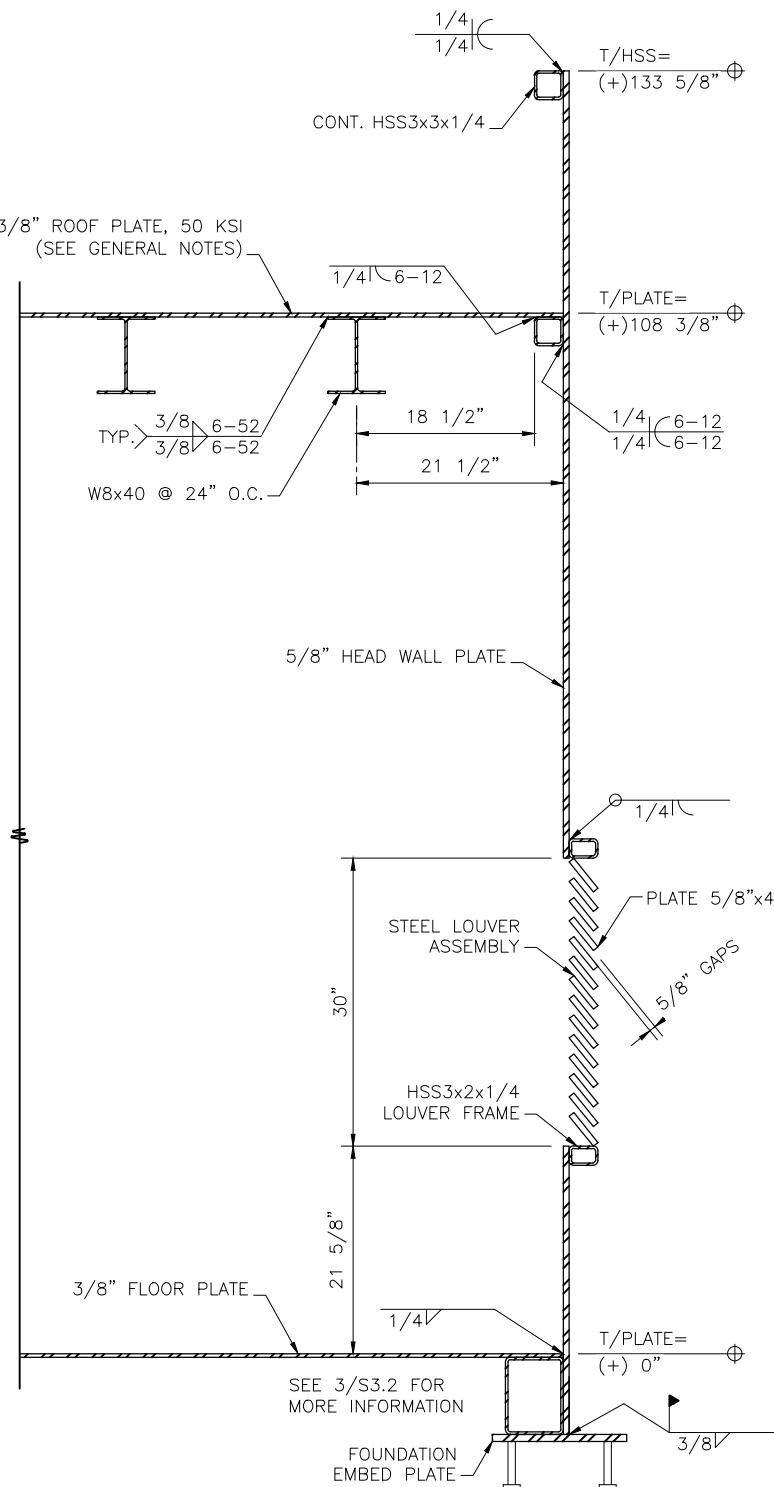
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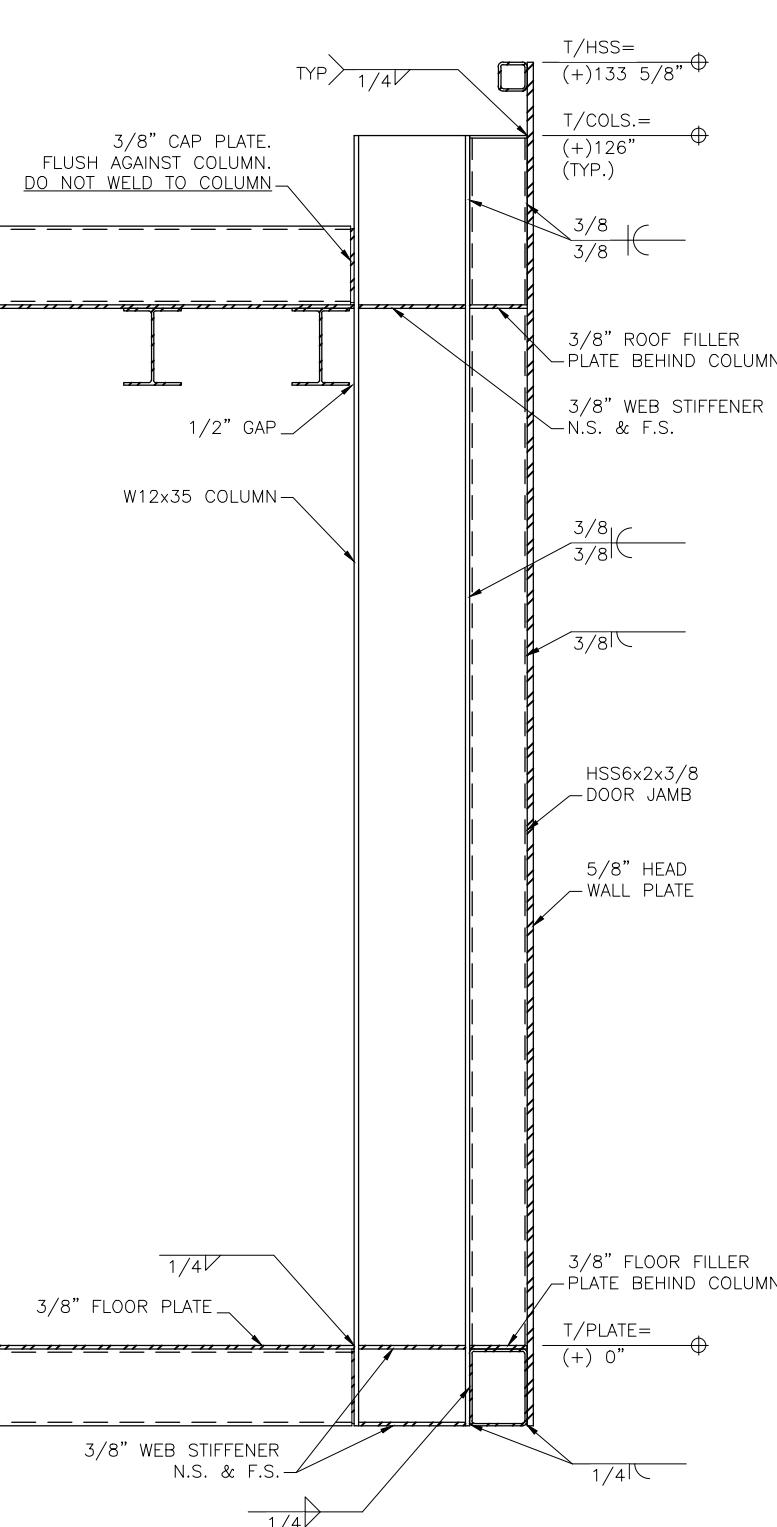
MATERIAL

DRAWN BY PDM	REVISION 16
DATE DRAWN 12/17/2024	
APPROVED BY -	APPROX. SHIPPING WT. IN LBS -
SHEET SIZE B	
SCALE 1:30	DRAWING NO. S1413
SHEET S2.5	

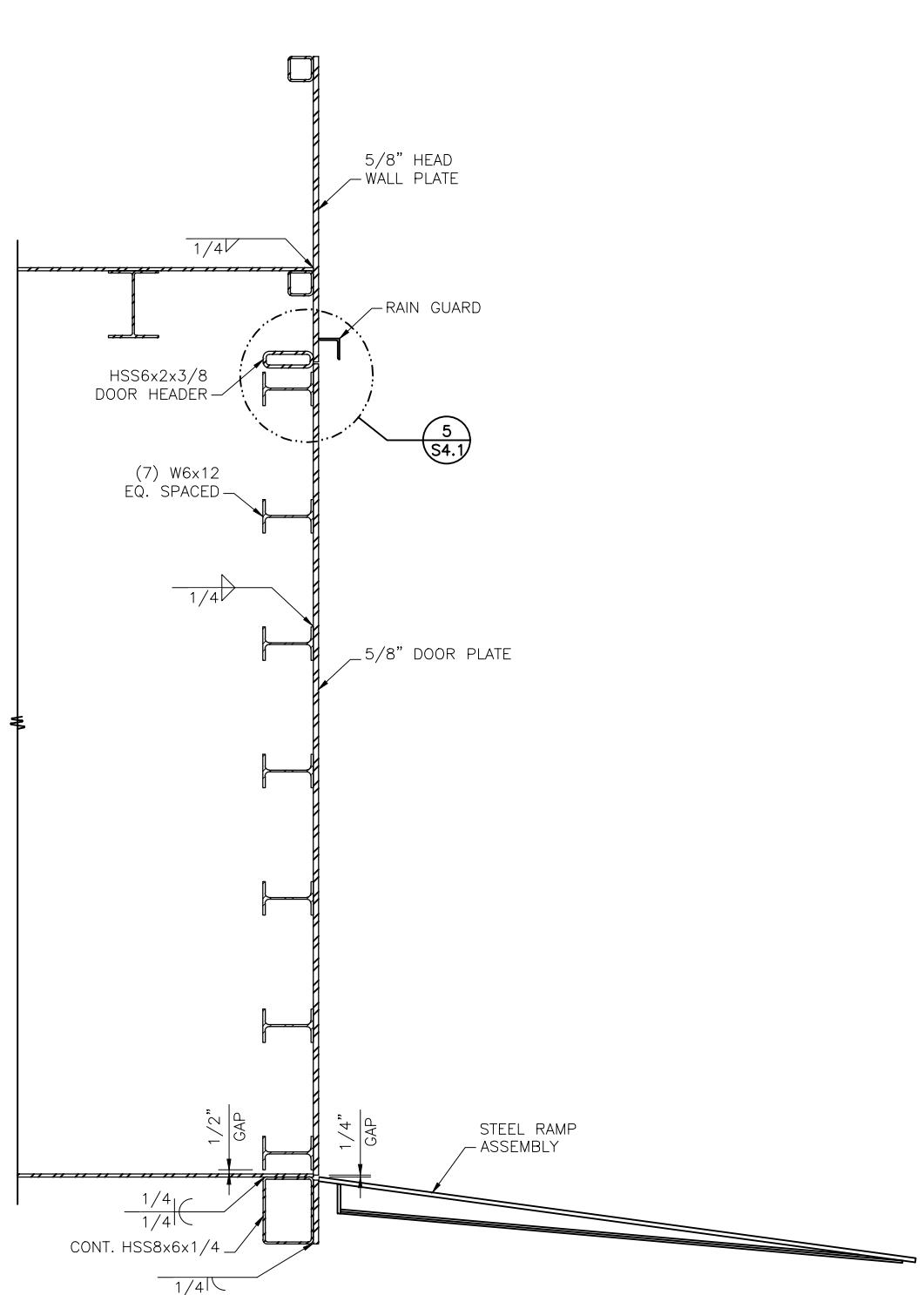




1 FRONT WALL SECTION
S3.2 SCALE=1:20



2 FRONT WALL SECTION @ COLUMN
S3.2 SCALE=1:20



3 FRONT WALL SECTION @ DOOR
S3.2 SCALE=1:20

NOTES:

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DRAWN TO SCALE UNLESS OTHERWISE NOTED

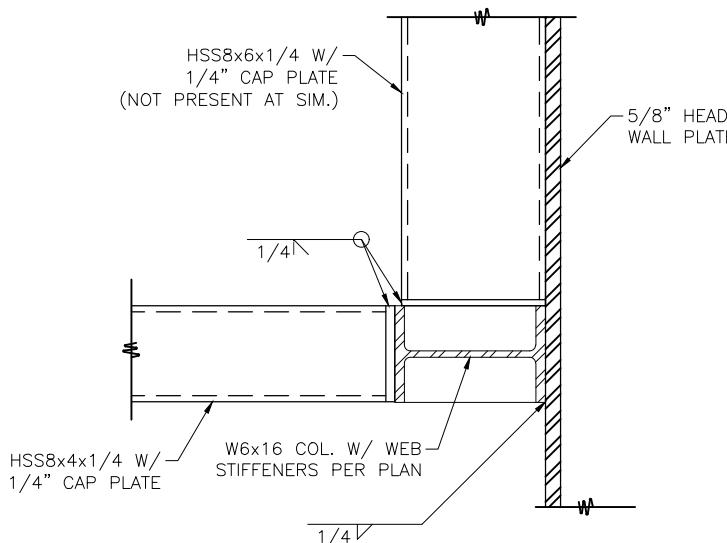
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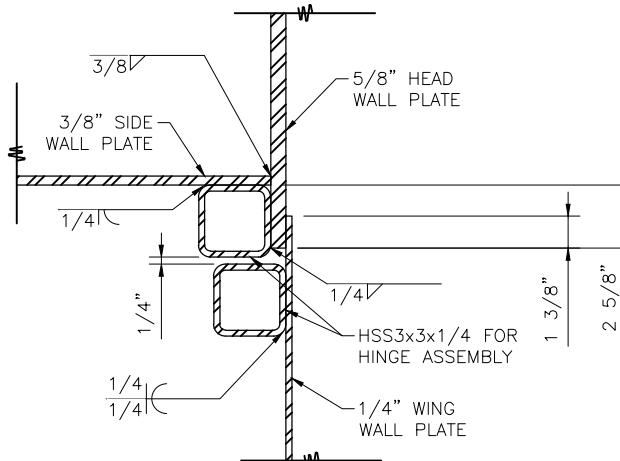
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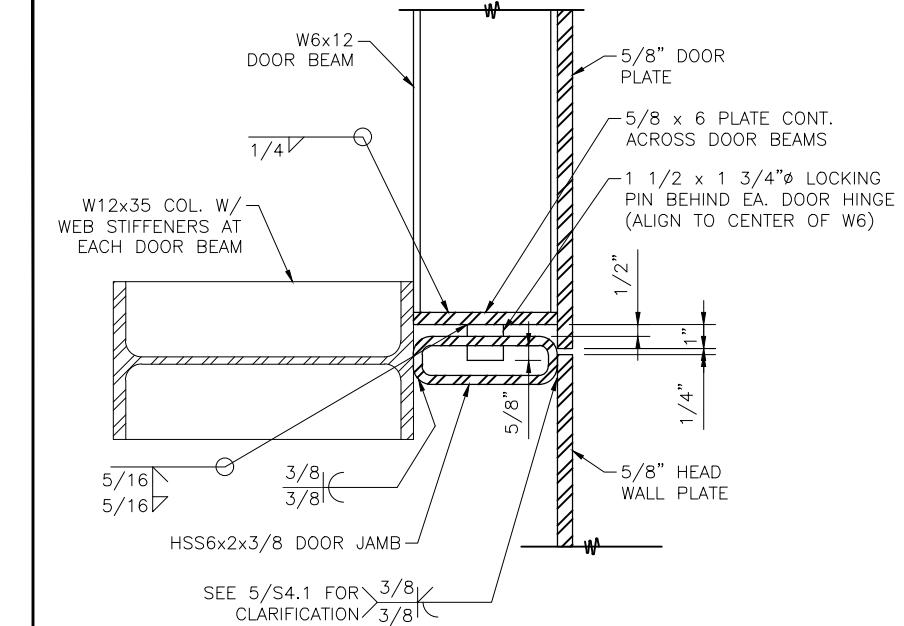
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DATE DRAWN 12/17/2024	
APPROVED BY -	
SHEET SIZE B	APPROX. SHIPPING WT. IN LBS
SCALE 1:20	
MATERIAL S3.2	DRAWING NO. S1413



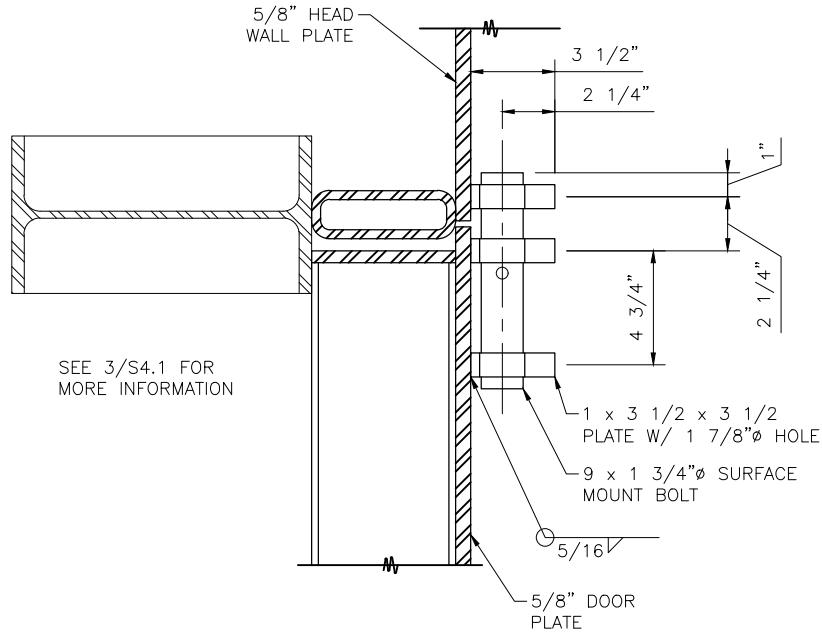
1 COLUMN DETAIL
S4.1 SCALE=1:8



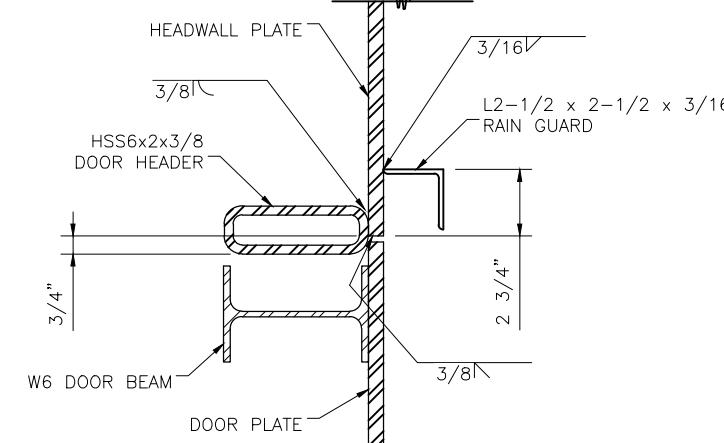
2 HINGE DETAIL
S4.1 SCALE=1:8



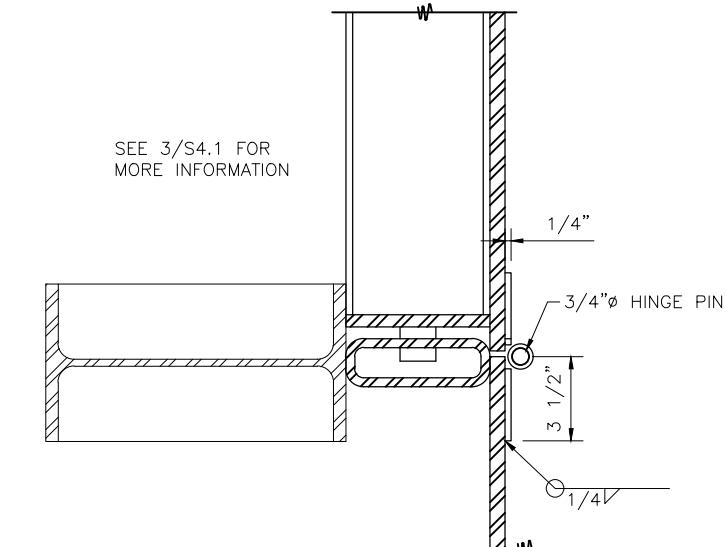
3 DOOR DETAIL
S4.1 SCALE=1:8



4 DOOR DETAIL
S4.1 SCALE=1:8



5 RAIN GUARD DETAIL
S4.1 SCALE=1:8



6 DOOR HINGE DETAIL
S4.1 SCALE=1:8

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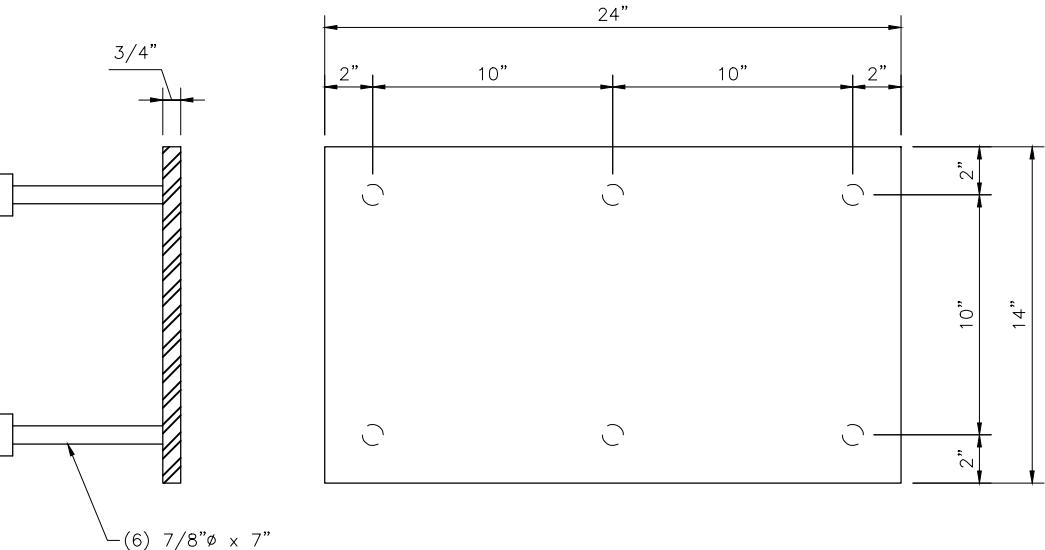
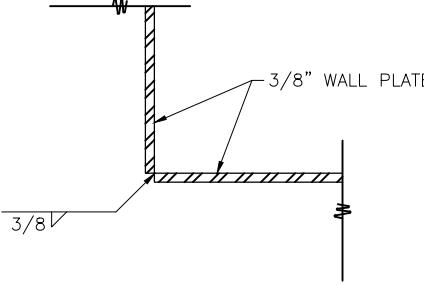
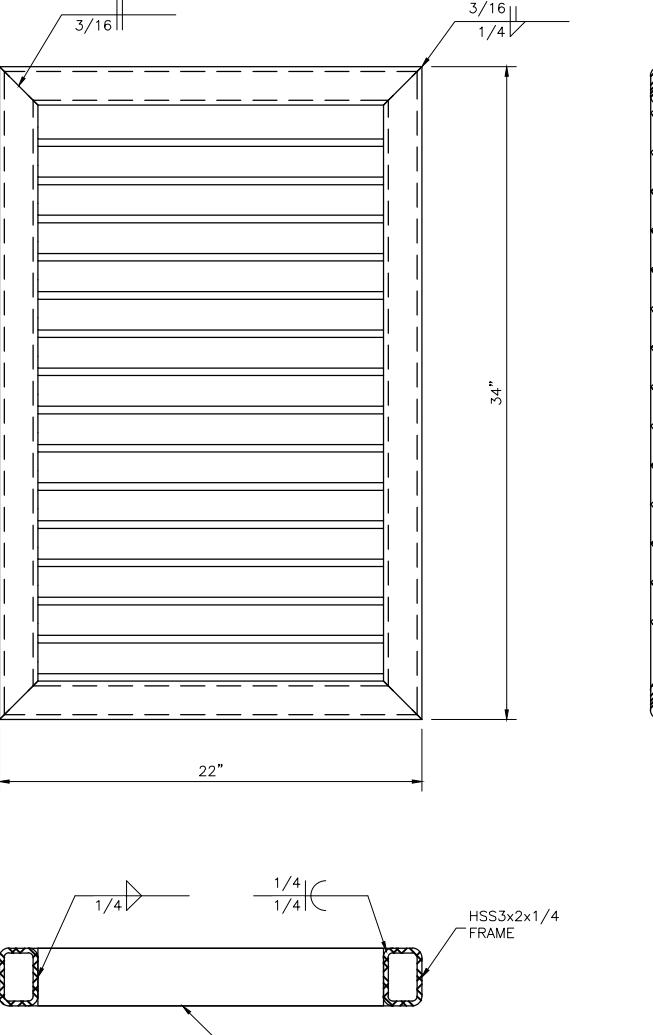
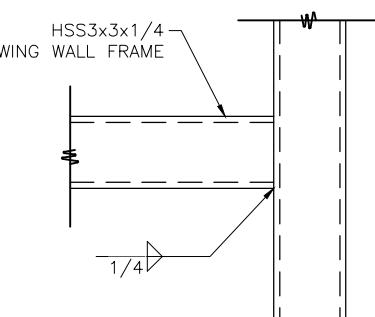
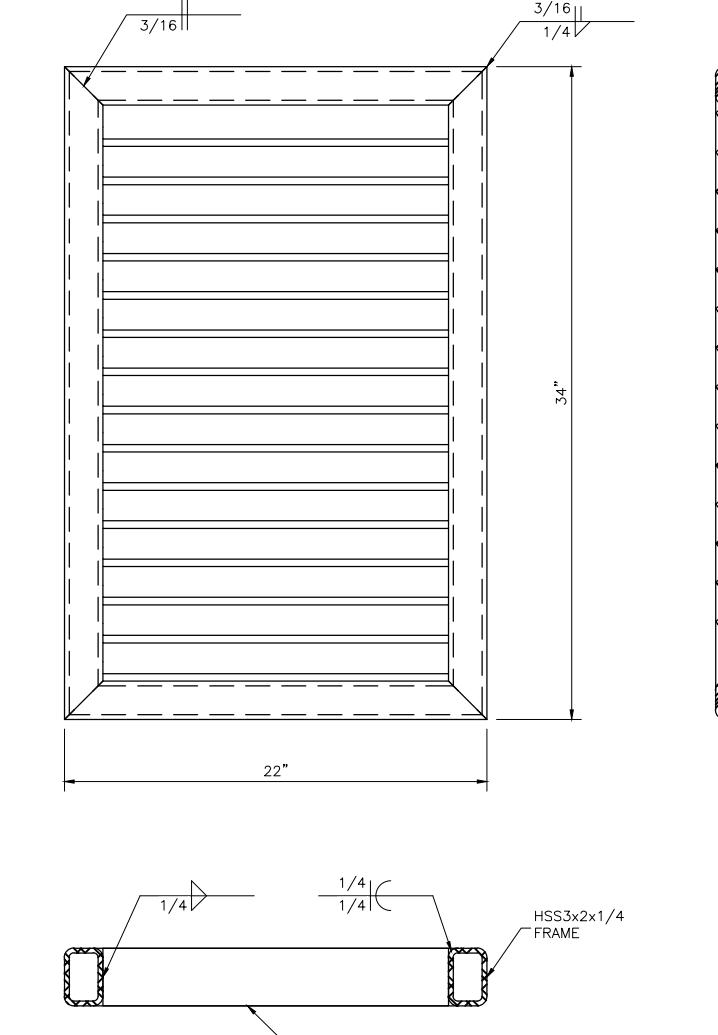
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DRAWN BY PDM	REVISION 16
DATE DRAWN 12/17/2024	
APPROVED BY -	
SHEET SIZE B	APPROX. SHIPPING WT. IN LBS
SCALE 1:8	DRAWING NO. S1413
MATERIAL S4.1	

 <p>1 EMBED PLATE DETAIL S4.2 SCALE=1:8</p>	 <p>2 TYP OUTSIDE CORNER DETAIL S4.2 SCALE=1:8</p>	 <p>3 TYP HSS CONNECTION S4.2 SCALE=1:8</p>		
 <p>4 TYP HSS CONNECTION S4.2 SCALE=1:8</p>	 <p>5 LOUVER DETAIL S4.2 SCALE=1:10</p>	<p>NOTES: UNLESS OTHERWISE NOTED, TOLERANCES ARE: FRACTIONS: $\pm 1/16$ ANGLES: $\pm 1^\circ$ MACHINED SURFACES: 125 MICRO-INCHES THESE TOLERANCES DO NOT APPLY TO BASIC DIMS. DRAWN TO SCALE UNLESS OTHERWISE NOTED</p> <p>THIS DRAWING IS THE PROPERTY OF ARMAG CORPORATION WHO CLAIMS PROPRIETARY RIGHTS IN THE MATERIAL DISCLOSED. IT IS ISSUED IN CONFIDENCE FOR ENGINEERING INFORMATION ONLY AND MAY NOT BE COPIED OR USED FOR MANUFACTURE OF ANYTHING SHOWN WITHOUT SPECIFIC PERMISSION FROM ARMAG CORPORATION.</p> <p>ARMAG[®] CORPORATION Manufacturers of Arms Vaults and Explosive Storage magazines since 1969 300 ARMAG AVE. • BARDSTOWN, KY 40004 • PHONE: (800) 443-9994 • FAX: (502) 348-4801 • EMAIL: info@armagcorp.com</p> <p>DESCRIPTION 40' X 13'-6" X 9' 3-BAR EARTHEN COVERED TYPE 2 MAGAZINE FABRICATION DETAILS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; vertical-align: top;"> DRAWN BY PDM DATE DRAWN 12/17/2024 APPROVED BY - SHEET SIZE B SCALE 1:8 MATERIAL S4.2 </td> <td style="width: 15%; vertical-align: top;"> REVISION 16 APPROX. SHIPPING WT. IN LBS - DRAWING NO. S1413 </td> </tr> </table>	DRAWN BY PDM DATE DRAWN 12/17/2024 APPROVED BY - SHEET SIZE B SCALE 1:8 MATERIAL S4.2	REVISION 16 APPROX. SHIPPING WT. IN LBS - DRAWING NO. S1413
DRAWN BY PDM DATE DRAWN 12/17/2024 APPROVED BY - SHEET SIZE B SCALE 1:8 MATERIAL S4.2	REVISION 16 APPROX. SHIPPING WT. IN LBS - DRAWING NO. S1413			

GENERAL

- A. THE FOLLOWING NOTES APPLY TO ALL PARTS OF THIS DRAWING SET.
- B. ALL DESIGN AND CONSTRUCTION IS BASED ON AND IN ACCORDANCE WITH THE REPORT BY THE SCHREIFER GROUP "DESIGN METHODOLOGY FOR THE ARMAC EARTH-COVERED MAGAZINE" DOCUMENT NO. TSG2024-012, DATED 29 AUGUST 2024 (REFERRED TO AS "THE REPORT").
- C. NO PROVISIONS HAVE BEEN MADE IN THE DESIGN FOR THE SUPPORT OF ANY CONCENTRATED OR DISTRIBUTED LOADS NOT OUTLINED IN "THE REPORT".
- D. THE FABRICATOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE DRAWINGS.

WELDING

- A. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1.1 AND STANDARD D1.3, LATEST EDITIONS.
- B. ELECTRODES TO BE E70XX OR ER70SX COMPLYING WITH AWS.
- C. THE WELDER SHALL BE FULLY CERTIFIED TO THE REQUIREMENTS OF AWS QC3.
- D. ANY CONNECTION NOT INDICATED ON THE DRAWING SHALL BE WELDED AND DESIGNED BY THE FABRICATOR.

STRUCTURAL STEEL

- A. CONFORM TO AISC MANUAL OF STEEL CONSTRUCTION, LATEST EDITION
- B. MATERIALS:
 - ASTM A992, FY=50 KSI FOR I-SHAPES
 - ASTM A36, FY=36 KSI FOR PLATES, BARS, AND ANGLES
 - ASTM A572, GRADE 50, FY=50 KSI FOR ROOF PLATE
 - ASTM A500, GRADE B, FY=46 KSI FOR STRUCTURAL TUBING

SHALLOW FOUNDATION

- A. DUE TO WIDELY VARYING AND UNKNOWN SITE CONDITIONS, NO FOUNDATION ELEMENTS HAVE BEEN DESIGNED.
- B. THE SITE SHALL BE PREPARED IN ACCORDANCE WITH INSTRUCTIONS OF A QUALIFIED ENGINEER.
- C. THE FOUNDATION SHALL BE DESIGNED TO SUPPORT THE LOADS OUTLINED IN "THE REPORT" BY A QUALIFIED ENGINEER IN ACCORDANCE WITH, AS A MINIMUM, THE REQUIREMENTS OF ACI 318 AND ACI 301, LATEST EDITIONS.

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SCALE 1:1	DRAWING NO. S1413
MATERIAL SHEET S5.1	