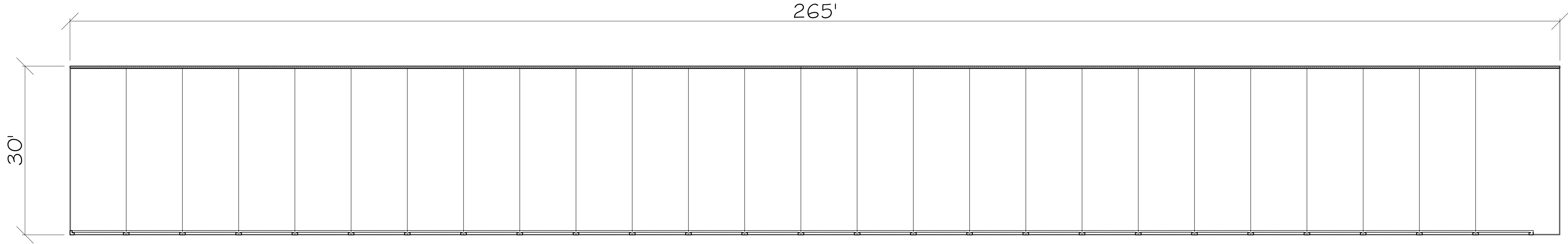
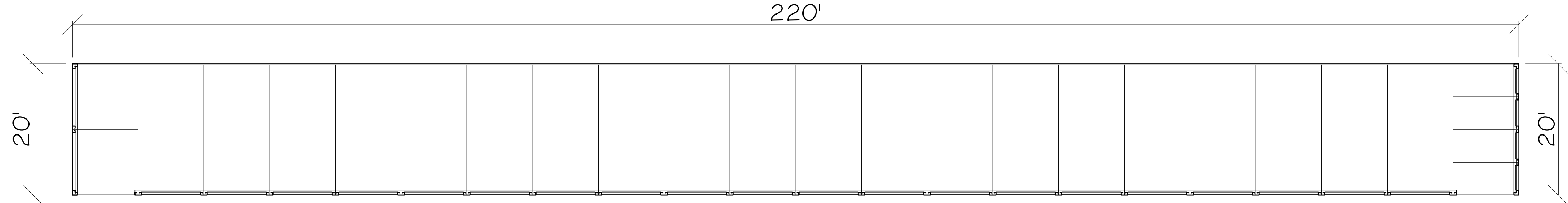


STRUCTURE 1
5,300 SQFT.



STRUCTURE 2
7,950 SQFT.




STRUCTURE 3
4,400 SQFT.

- NOTES:
1. WITHOUT EXCEPTION, ALL RAINUP, SHEETLEDGE AND BLOCKEDGE SHALL BE 1-1/2" DOWN FROM THE T/FINISHED FLOOR ELEVATION.
 2. WITHOUT EXCEPTION, ALL DOOR THRESHOLD SHALL BE 3/4" DOWN FROM THE T/FINISHED FLOOR ELEVATION.
 3. G.C. SHALL VERIFY WIDTH OF RAINUP, SHEETLEDGE, BLOCKEDGE AND DOOR THRESHOLD WITH CONTRACT DOCUMENTS PRIOR TO FORMING SLAB EDGE.
 4. IN THE ABSENCE OF RAINUP, SHEETLEDGE, BLOCKEDGE OR DOOR THRESHOLD BEING SPECIFIED ON THE PLANS, THE G.C. SHALL VERIFY IN WRITING WITH THE STEEL CONTRACTOR THE INTENT PRIOR TO FORMING SLAB EDGE.
 5. RAINUP, SHEETLEDGE, BLOCKEDGE AND DOOR THRESHOLD ARE VITAL TO THE PROPER FIT OF THE STEEL CONSTRUCTION.
 6. G.C. SHALL FIELD VERIFY THE RAINUP, SHEETLEDGE, AND BLOCKEDGE HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH CONTRACT DOCUMENTS BEFORE STEEL CONSTRUCTION BEGINS.

FINISH SCHEDULE	
ROLL - UP DOORS	
ROOF - STORAGE	
ROOF - OFFICE/ APT.	
PERIMETER PANEL	
TRIM	
DOWNSPOUTS	
PIERS & HEADERS	
* COLOR SELECTIONS MUST BE ON FILE PRIOR TO RELEASING FOR FABRICATION	

SCALE: 3/32" = 1'

MARKUPS / REVISIONS				
NO.	BY	ISSUE	DATE	
1	FOR	PERMIT COMMENTS	1/4/2024	
2	PH	CUSTOMER COMMENTS	1/4/2025	
3	PH	CHANGE ORDER	2/25/2025	



EAST COAST OFFICE: 1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34707 PHONE: (800) 980-0220

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STORAMERICA - MCCORDSVILLE
MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER

ROBERT M. BEATTIE, PE
PROFESSIONAL ENGINEER
REGISTERED IN THE STATE OF INDIANA
LICENSE NO. 12345
EXPIRATION DATE: 12/31/2025
TELEPHONE: 317-555-1234
FAX: 317-555-5678
E-MAIL: RBEATTIE@MAKORABCO.COM

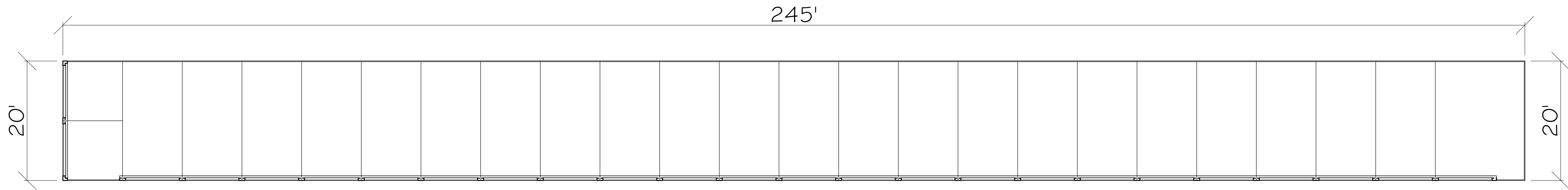
MAKORABCO, INC.
1041 CROWN PARK CIRCLE
WINTER GARDEN, FL 34707
PHONE: (800) 980-0220
FAX: (800) 980-0221
E-MAIL: INFO@MAKORABCO.COM

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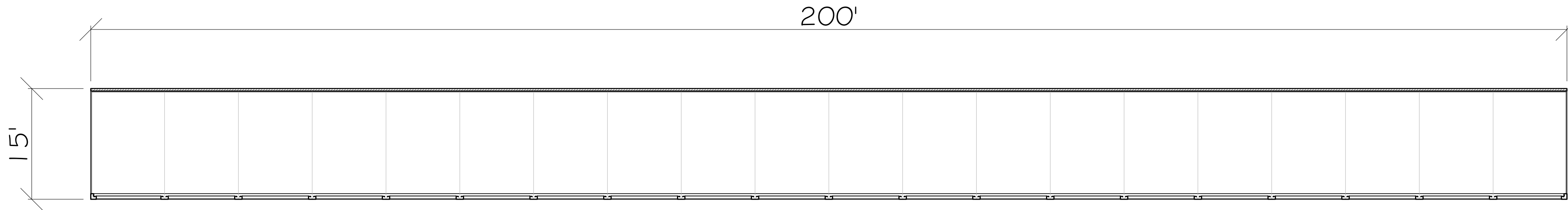
STRC. 1,2 & 3
BUILDING LAYOUTS

DATE 09-21-23
DRAWN BY FOR 5
CHECKED BY XXX
JOB NO. E-2726
SCALE AS NOTED
SHEET

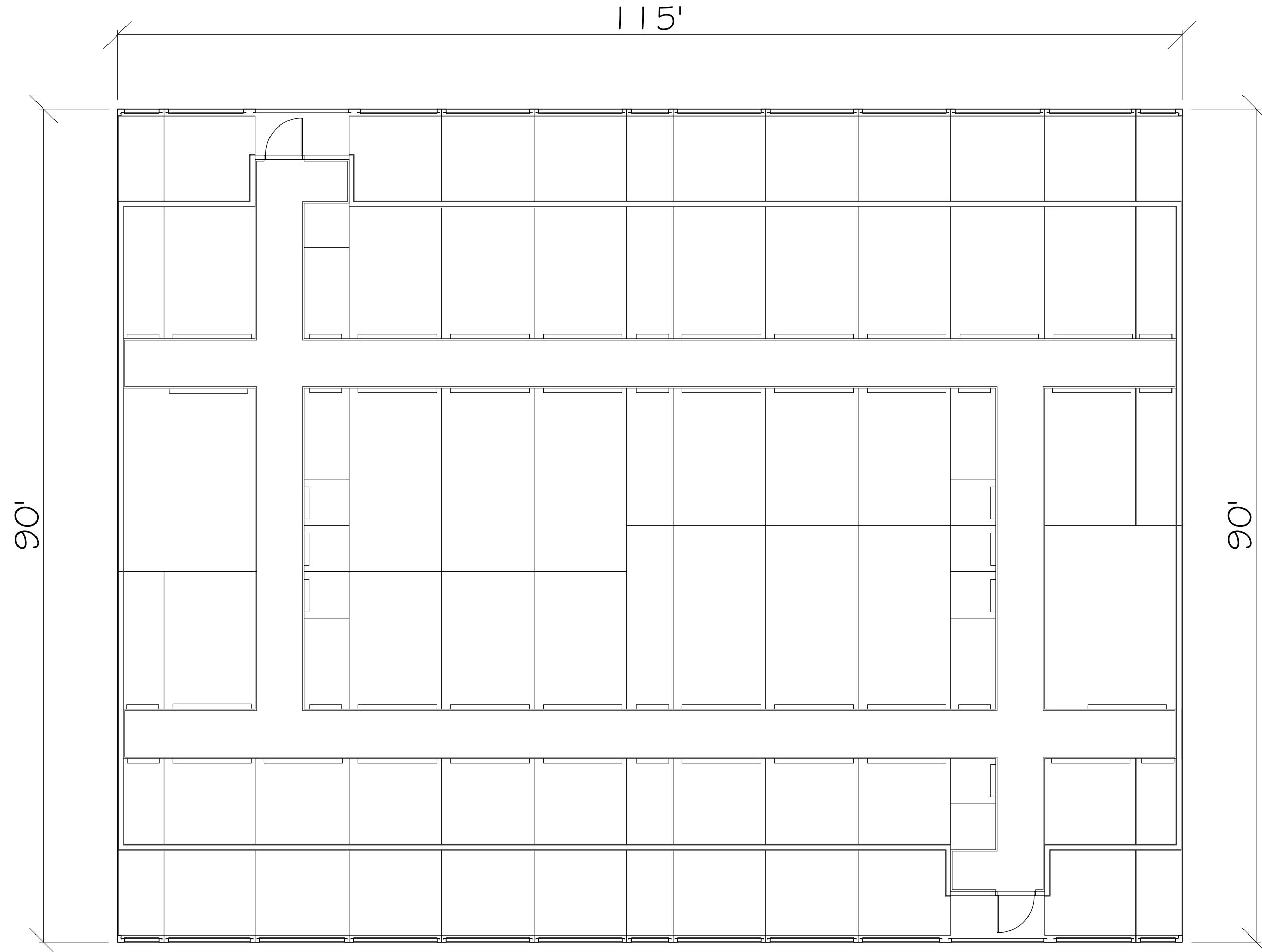
C-0.2



STRUCTURE 4
4,900 SQFT.



STRUCTURE 5
3,000 SQFT.



STRUCTURE 6
10,350 SQFT.

- NOTES:
- WITHOUT EXCEPTION, ALL RAINUP, SHEETLEDGE AND BLOCKEDGE SHALL BE 1-1/2" DOWN FROM THE FINISHED FLOOR ELEVATION.
 - WITHOUT EXCEPTION, ALL DOOR THRESHOLD SHALL BE 3/4" DOWN FROM THE FINISHED FLOOR ELEVATION. G.C. SHALL VERIFY WIDTH OF RAINUP, SHEETLEDGE, BLOCKEDGE AND DOOR THRESHOLD WITH CONTRACT DOCUMENTS PRIOR TO FORMING SLAB EDGE.
 - IN THE ABSENCE OF RAINUP, SHEETLEDGE, BLOCKEDGE OR DOOR THRESHOLD BEING SPECIFIED ON THE PLANS, THE G.C. SHALL VERIFY IN WRITING WITH THE STEEL CONTRACTOR THE INTENT PRIOR TO FORMING SLAB EDGE.
 - RAINUP, SHEETLEDGE, BLOCKEDGE AND DOOR THRESHOLD ARE VITAL TO THE PROPER FIT OF THE STEEL CONSTRUCTION.
 - G.C. SHALL FIELD VERIFY THE RAINUP, SHEETLEDGE, AND BLOCKEDGE HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH CONTRACT DOCUMENTS BEFORE STEEL CONSTRUCTION BEGINS.

FINISH SCHEDULE	
ROLL - UP DOORS	
ROOF - STORAGE	
ROOF - OFFICE/ APT.	
PERIMETER PANEL	
TRIM	
DOWNSPOUTS	
PIERS & HEADERS	
* COLOR SELECTIONS MUST BE ON FILE PRIOR TO RELEASING FOR FABRICATION	

SCALE: 3/32" = 1'

MARKUPS / REVISIONS				
NO.	BY	ISSUE	DATE	
1	FOR	PERMIT COMMENTS	1/4/2024	
2	PH	CUSTOMER COMMENTS	1/4/2025	
3	PH	CHANGE ORDER	2/25/2025	



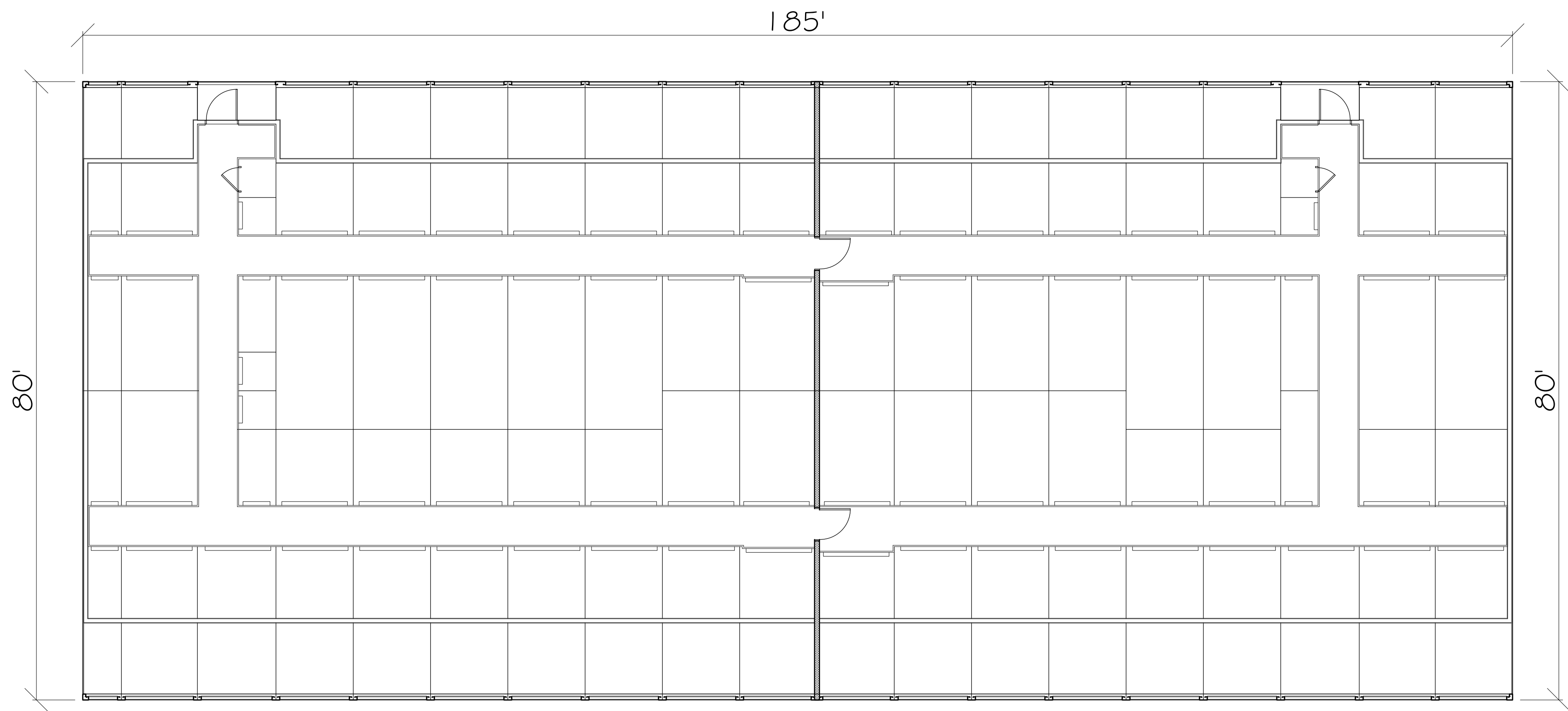
STORAMERICA - MCCORDSVILLE
MCCORDSVILLE, IN 46055


ENGINEER STAMP

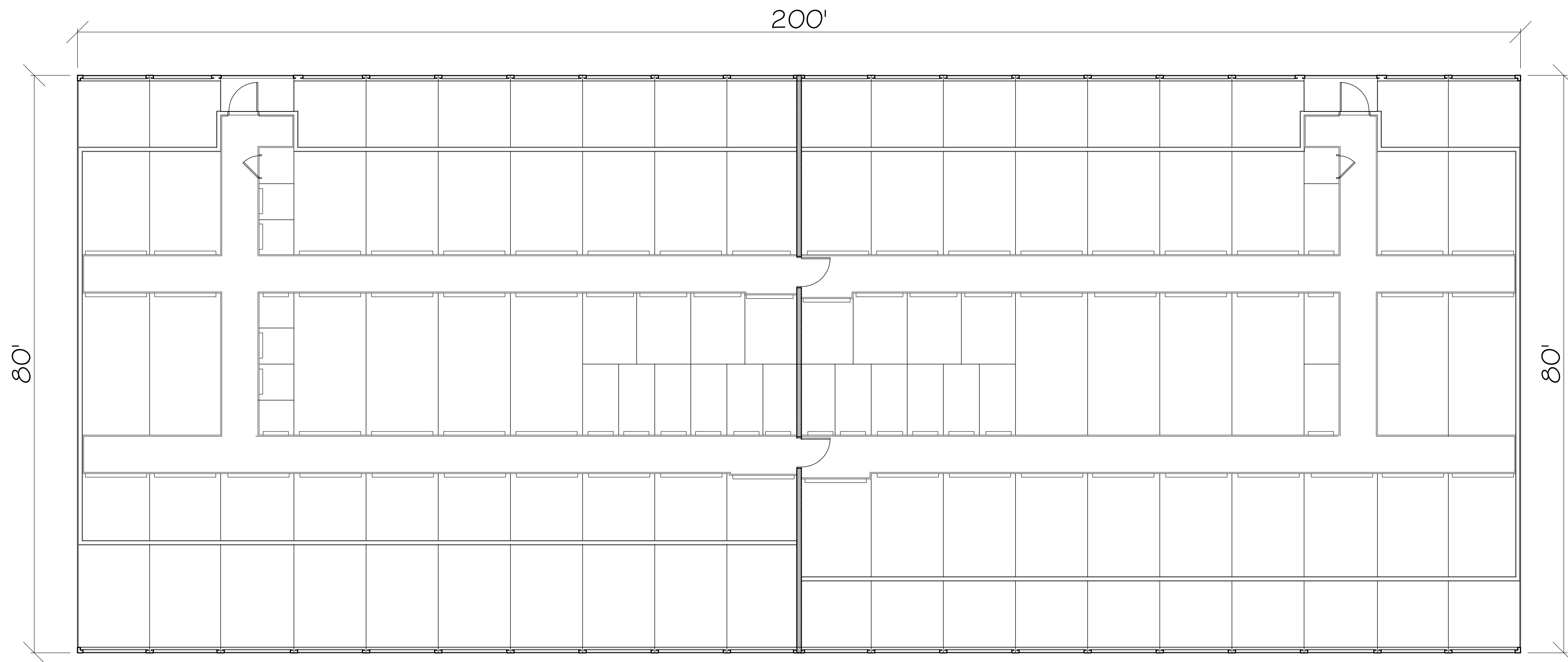
ENGINEER	
ROBERT M. BEATTIE, PE	MAKORABCO, INC. 1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34707 REGISTERED PROFESSIONAL ENGINEER - CIVIL EXPIRATION DATE: 12/31/2026 TELEPHONE: (800) 980-0220 FAX: (800) 980-0220 E-MAIL: RBEATTIE@MAKORABCO.COM


SHEET TITLE	
STRC. 4,5 & 6 BUILDING LAYOUTS	
DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

C-0.3



 **STRUCTURE 7**
14,800 SQFT.
NORTH



 **STRUCTURE 9**
16,000 SQFT.
NORTH

GC SHALL COORDINATE ALL T/CMU WALL HEIGHTS WITH RABCO ENTERPRISES, LLC PRIOR TO CONSTRUCTION TO ENSURE PROPER FIT OF THE METAL BUILDING COMPONENTS. FAILURE TO GET WRITTEN APPROVAL PRIOR TO ERECTING THE CMU WALLS MAY RESULT IN NEEDED MODIFICATIONS TO EITHER THE CMU WALL AND/OR THE METAL BUILDING COMPONENTS AT THE G.C.'S EXPENSE.

- NOTES:
1. WITHOUT EXCEPTION, ALL RAINUP, SHEETLEDGE AND BLOCKEDGE SHALL BE 1-1/2" DOWN FROM THE T/FINISHED FLOOR ELEVATION.
 2. WITHOUT EXCEPTION, ALL DOOR THRESHOLD SHALL BE 3/4" DOWN FROM THE T/FINISHED FLOOR ELEVATION.
 3. G.C. SHALL VERIFY WIDTH OF RAINUP, SHEETLEDGE AND DOOR THRESHOLD WITH CONTRACT DOCUMENTS PRIOR TO FORMING SLAB EDGE.
 4. IN THE ABSENCE OF RAINUP, SHEETLEDGE, BLOCKEDGE OR DOOR THRESHOLD BEING SPECIFIED ON THE PLANS, THE G.C. SHALL VERIFY IN WRITING WITH THE STEEL CONTRACTOR THE INTENT PRIOR TO FORMING SLAB EDGE.
 5. RAINUP, SHEETLEDGE, BLOCKEDGE AND DOOR THRESHOLD ARE VITAL TO THE PROPER FIT OF THE STEEL CONSTRUCTION.
 6. G.C. SHALL FIELD VERIFY THE RAINUP, SHEETLEDGE, AND BLOCKEDGE HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH CONTRACT DOCUMENTS BEFORE STEEL CONSTRUCTION BEGINS.

FINISH SCHEDULE	
ROLL - UP DOORS	
ROOF - STORAGE	
ROOF - OFFICE/ APT.	
PERIMETER PANEL	
TRIM	
DOWNSPOUTS	
PIERS & HEADERS	
* COLOR SELECTIONS MUST BE ON FILE PRIOR TO RELEASING FOR FABRICATION	

SCALE: 3/32" = 1'

MARKUPS / REVISIONS				
NO.	BY	ISSUE	DATE	
1	FOR	PERMIT COMMENTS	1/4/2024	
2	HH	CUSTOMER COMMENTS	1/4/2025	
3	HH	CHANGE ORDER	2/25/2025	



MAKORABCO
EAST COAST OFFICE: 1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34707 PHONE: (800) 980-0220

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STORAMERICA - MCCORDSVILLE
MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER

ROBERT M. BEATTIE, PE

ROBERT M. BEATTIE, PE
1000 WEST 10TH AVENUE, SUITE 200
DENVER, CO 80202
TEL: 303.733.1111
FAX: 303.733.1112
WWW.RMBeattie.com

REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
NO. 042-000000-0000-0000
EXPIRATION DATE 12/31/2025
THIS ENGINEER HAS BEEN DULY LICENSED BY THE STATE OF ILLINOIS
AND IS NOT PROVIDING SERVICES IN ANY OTHER STATE WITHOUT THE NECESSARY PERMITS.

SHEET TITLE	
STRC. 7 & 9 BUILDING LAYOUTS	
DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

C-0.4

MAKORABCO

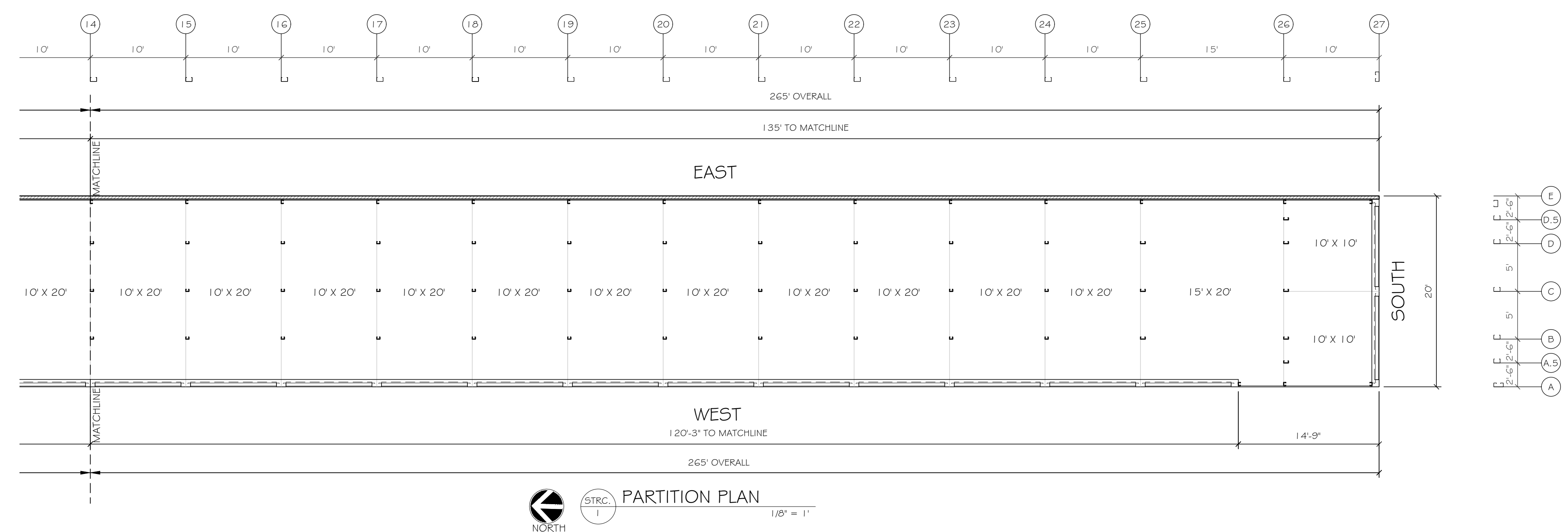
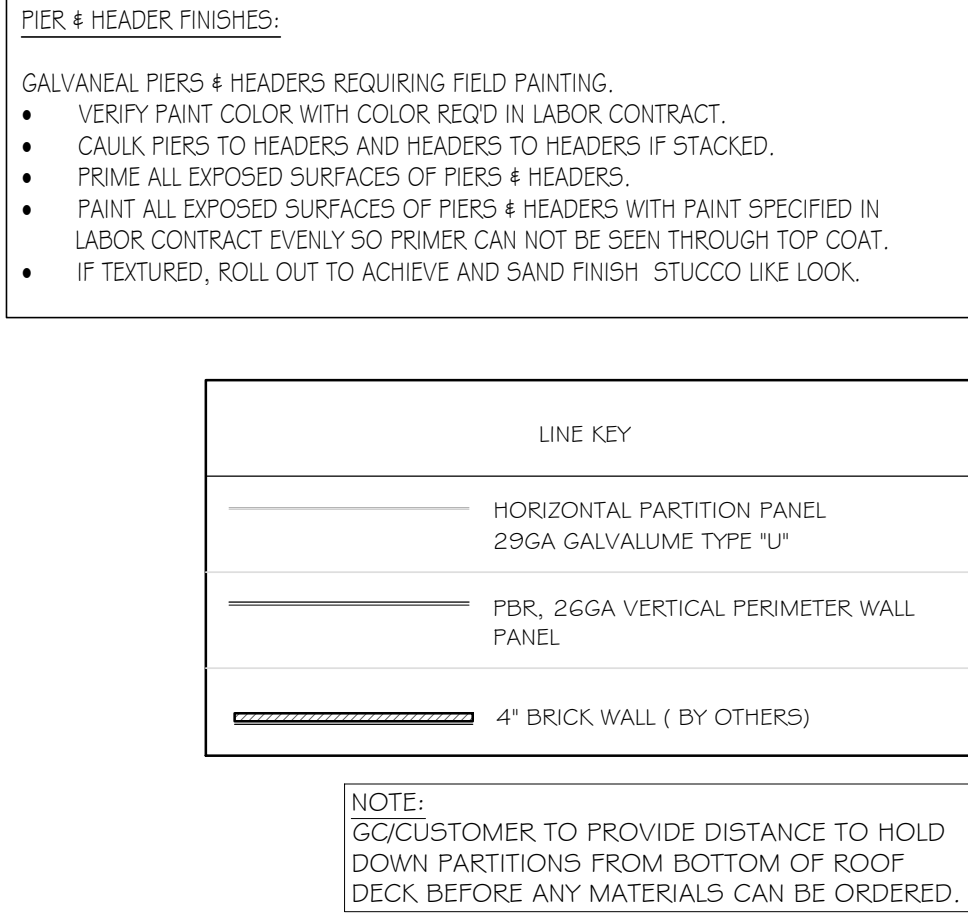
EAST COAST OFFICE: 1041 CROWN PARK CIRCLE WINTER GARDEN FL 34707 PHONE: (800) 908-0220

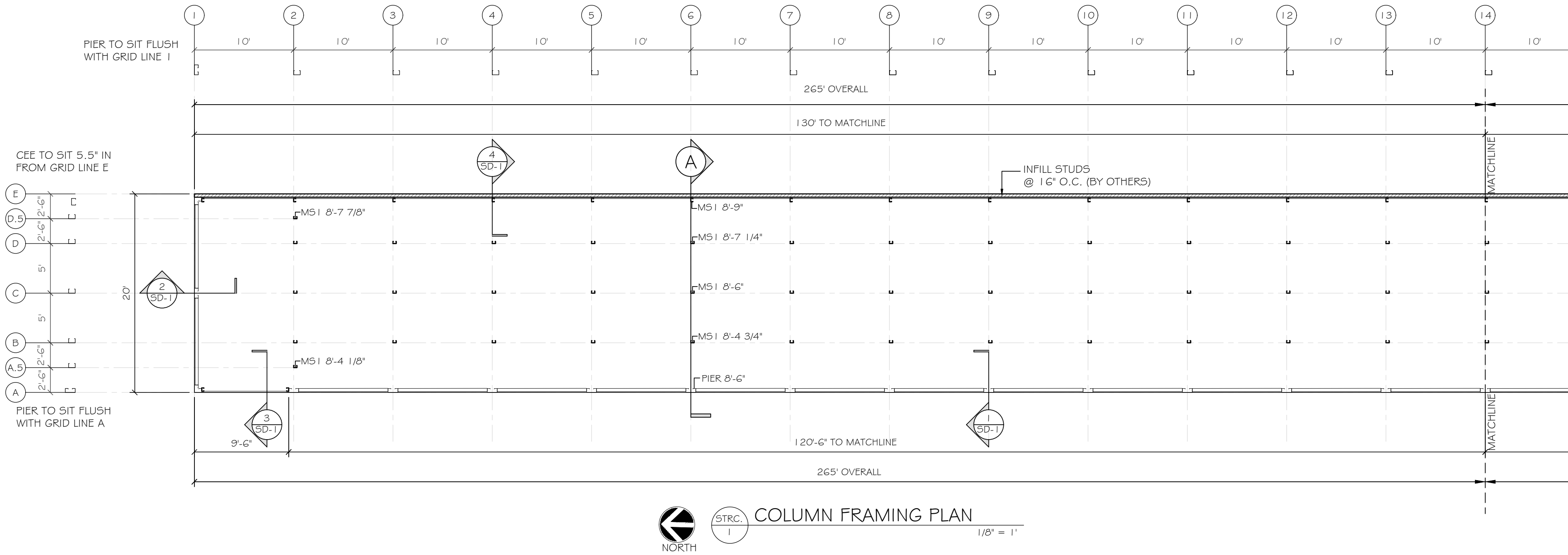
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ENGINEER STAMP

SHEET TITLE

DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	





TYPICAL COLUMNS 4 BEAMS UNLESS NOTED OTHERWISE			
COLUMN : MS1	=	4C16 - 4'X2 1/2" X 1 GGA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : MS2	=	6C16 - 6'X2 1/2" X 1 GGA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : MS3	=	6C14 - 6'X2 1/2" X 1 4GA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : MS4	=	6C12 - 6'X2 1/2" X 1 2GA CEE PRIME PAINTED (RED OXIDE)	
PURLIN : P1	=	4216 - 4'X2 1/2" X 1 GGA ZEE PRIME PAINTED (RED OXIDE)	
PURLIN : P2	=	6216 - 6'X2 1/2" X 1 GGA ZEE PRIME PAINTED (RED OXIDE)	
PURLIN : P3	=	6212 - 6'X2 1/2" X 1 2GA ZEE PRIME PAINTED (RED OXIDE)	

LINE KEY	
	CORNER PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 26GA VERTICAL PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	PBR, 26GA VERTICAL PERIMETER WALL PANEL
	4" BRICK WALL (BY OTHERS)
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE 'U'
	CROSS BEAMS NEED MORE THAN 5' BAY
	HALL WAY SYSTEM
	COLUMNS
	ZEE BEAMS
	THREE HOUR RATED CMU WALL UL # U904
	24ga. ROOF STRAPPING

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE	
SINGLE STORY BUILDINGS	
BASE CLIP INSTALLATION 1/2"X3" DeWALT SCREW BOLT+ (OR EQUAL) 1 3/4" EFFECTIVE EMBEDMENT	
BASE TRACK INSTALLATION 1/2"X3" DeWALT SCREW BOLT+ (OR EQUAL) SPACING 3' O.C. (1 3/4" EFFECTIVE EMBEDMENT)	
PIER INSTALLATION 1/2"X3" DeWALT SCREW BOLT+ (OR EQUAL) @ EA. PIER (1 3/4" EFFECTIVE EMBEDMENT)	

ANCHOR SCHEDULE			FASTENERS AND ANCHORS ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS											
BRAND: DEWALT (OR EQUAL)														
ANCHOR TYPE	ANCHOR NAME	ICC-ES #	ANCHOR DIA (IN)	MIN BASE MATERIAL THICKNESS (IN)	(MIN. OR NOM.) / MAX. OR REF. EMBEDMENT (IN.)	MIN ANCHOR SPACING (IN)	MIN EDGE / END DISTANCE (IN)	ALLOWABLE BASE MATERIAL						
								CONC.	LW CONC.	CONC. OVER STEEL DECK	G ² CMU	HOLLOW CMU W/ SCREEN TUBES	SOLID BRICK	STEEL
EPOXY	AC 100+ GOLD	ESR-2582 [CONC]	1/2" dia.	4" [CONC]	2-3/4"(MIN) / 6" MAX	2-1/2"	2-1/2"	X	X			X	X	
		3/4" dia.	5-3/4" [CONC]	3-1/2"(MIN) / 9" MAX	3-3/4"	3-3/4"								
		ESR-3200 [CMU]	1/2" dia.	8" GF CMU	4" (MIN)	(1) PER CELL	4"							
			3/4" dia.	8" GF CMU	6" (MIN)	(1) PER CELL	4"							
MECHANICAL	POWER STUD +S01	ESR-2818 [CONC]	1/2" dia.	4" [CONC]	2-1/2"(NOM) / 2" (EFF)	4-1/2"	6"	X	X	X				
		3/4" dia.	4" [CONC]	4"(NOM) / 2" (EFF)	6"	6"								
		ESR-2966 [CONC]	3/8" dia.	8" GF CMU	2-1/2"(MIN)	(1) PER CELL	4"							
		1/2" dia.	8" GF CMU	4-3/4"(MIN)	(1) PER CELL	12"								
		ESR-2902 [CONC]	1/2" dia.	4-1/2" [CONC]	2-1/2"(NOM) / 2" (EFF)	6"	8"							
		3/4" dia.	7" [CONC]	4-1/2"(NOM) / 3-3/4" (EFF)	6"	12"								
				3/8" dia.	24" [CONC OVER STL DECK]	2-3/8"(NOM) / 2" (EFF)	1-1/2"	4"	X	X	X			
				1/2" dia.	24" [CONC OVER STL DECK]	2-1/2"(NOM) / 2" (EFF)	8"	4"						
	SCREW-BOLT+	ESR-3889 [CONC]	1/4" dia.	8" GF [CONC]	2-1/2" (MIN.)	4"	2"							
		1/2" dia.	8" GF [CONC]	3-1/4" (MIN.)	6"	3"								
		1/2" dia.	3" [CONC]	1-5/8"(NOM) / 1.2" (EFF)	1-1/2"	1-1/2"								
		3/4" dia.	3" [CONC]	2"(NOM) / 1-1/3" (EFF)	2"	1-1/2"								
		3/8" dia.	3" [CONC]	2-1/2"(NOM) / 1-3/4" (EFF)	2-3/4"	1-3/4"								
		1/2" dia.	3-3/4" [CONC]	4-1/4"(NOM) / 3.08" (EFF)	3"	1-3/4"								
		1/4" dia.	24" [CONC OVER STL DECK]	1-5/8"(NOM) / 1.2" (EFF)	1-1/2"	1-1/2"								
3/8" dia.		24" [CONC OVER STL DECK]	2"(NOM) / 1.33" (EFF)	2"	2"									
			1/2" dia.	24" [CONC OVER STL DECK]	2-1/2"(NOM) / 1-3/4" (EFF)	2-1/2"	2-1/2"							
			ESR-4042 [CMU]	1/2" dia.	8" GF CMU	4-1/4"(MIN)	(1) PER CELL	4"						
			3/4" dia.	8" GF CMU	6-1/4"(MIN)	(1) PER CELL	4"							
DIRECT FASTEN	CSI SPIRAL DRIVE PINS	ESR-2024	0157. dia	3/16" (STEEL)	FASTENER POINT MUST PENETRATE STEEL MEMBER	1-1/2"	1/2"	X	X	X	X	X	X	X
		0157. dia	2-1/4" [CONC]	3/4"(MIN)	4"	3-1/2"								
		0157. dia	3" [CONC]	1"(MIN)	4"	3-1/2"								
		0157. dia	3-3/4" [CONC]	1-1/4"(MIN)	4"	3-1/2"								
		0157. dia	8" GF CMU	1"(MIN)	4"	3-3/4"								
		0157. dia	8" HOLLOW CMU	1"(MIN)	8"	3-3/4"								

MARKUPS / REVISIONS				
NO.	BY	ISSUE	DATE	
1	FOR	PERMIT COMMENTS	1/4/2024	
2	HH	CUSTOMER COMMENTS	1/4/2025	
3	HH	CHANGE ORDER	2/25/2025	

MAKORABCO

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STORAMERICA - MCCORDSVILLE
MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER

ROBERT M. BEATTIE, PE

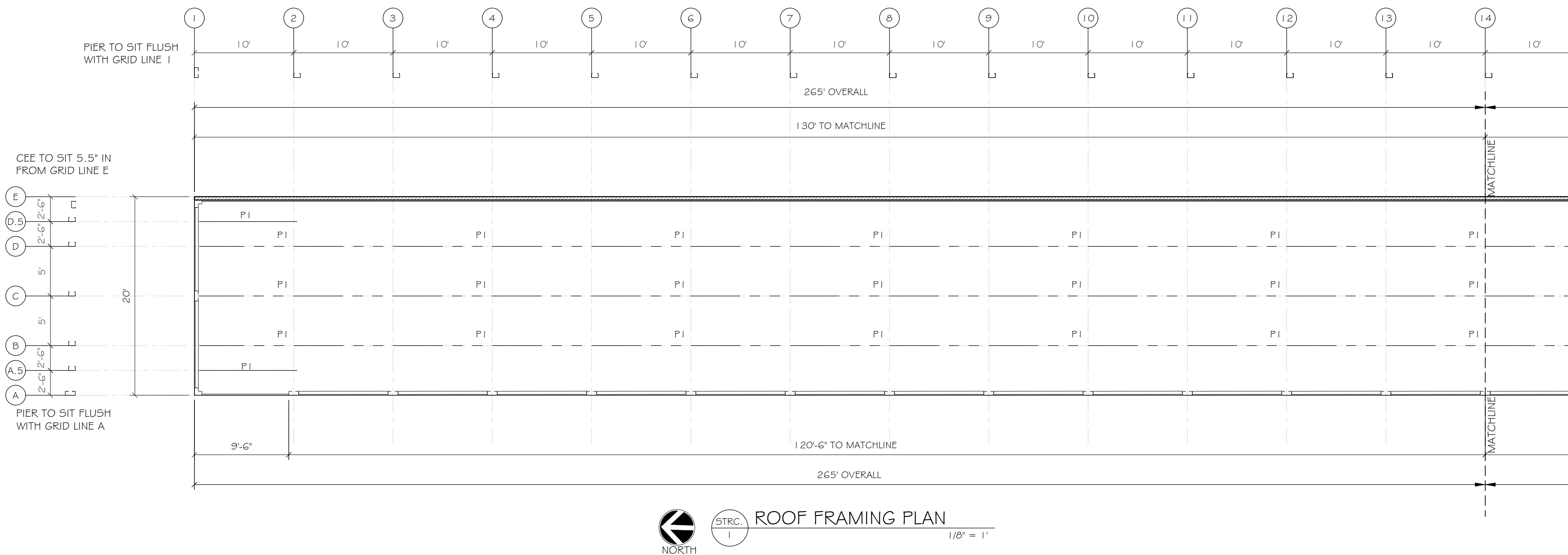
ROBERT M. BEATTIE, PE
1000 WEST 10TH AVENUE, SUITE 200
DENVER, CO 80202
TELEPHONE: 303.733.8777 FAX: 303.733.8778
WWW.ROBERTMBEATTIE.COM

ROBERT M. BEATTIE, PE

ROBERT M. BEATTIE, PE
1000 WEST 10TH AVENUE, SUITE 200
DENVER, CO 80202
TELEPHONE: 303.733.8777 FAX: 303.733.8778
WWW.ROBERTMBEATTIE.COM

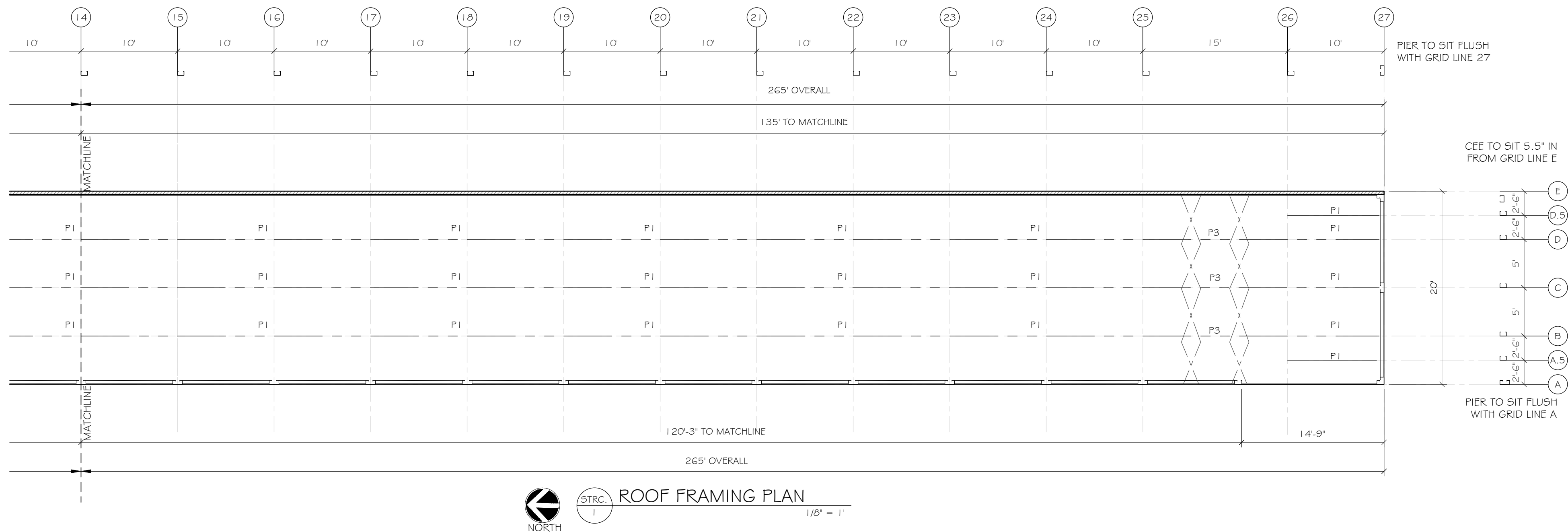
SHEET TITLE	
STRC. 1	
ROOF FRAMING PLANS	
DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

S-1.2



TYPICAL COLUMNS 4 BEAMS UNLESS NOTED OTHERWISE	
COLUMN : M51 = 4C16 - 4'X2 1/2" X 1 GGA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : M52 = 6C16 - 6'X2 1/2" X 1 GGA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : M53 = 6C14 - 6'X2 1/2" X 1 4GA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : M54 = 6C12 - 6'X2 1/2" X 1 2GA CEE PRIME PAINTED (RED OXIDE)	
PURLIN : P1 = 4Z16 - 4'X2 1/2" X 1 GGA ZEE PRIME PAINTED (RED OXIDE)	
PURLIN : P2 = 6Z16 - 6'X2 1/2" X 1 GGA ZEE PRIME PAINTED (RED OXIDE)	
PURLIN : P3 = 6Z12 - 6'X2 1/2" X 1 2GA ZEE PRIME PAINTED (RED OXIDE)	

LINE KEY	
	CORNER PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 26GA VERTICAL PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	PBR, 26GA VERTICAL PERIMETER WALL PANEL
	4" BRICK WALL (BY OTHERS)
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	CROSS BEAMS NEED MORE THAN 5' BAY
	HALL WAY SYSTEM
	COLUMNS
	ZEE BEAMS
	THREE HOUR RATED CMU WALL UL # U904
	24ga. ROOF STRAPPING



[illegible]

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STORAMERICA - MCCORDSVILLE
MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER

ROBERT M. BEATTIE, PE

ROBERT M. BEATTIE, PE
2075 39TH OAK COURT, ONEDOO, FL 32766
PHONE LINE: 407-786-3400 • FAX LINE: 407-597-4010
E-MAIL: RMB@RMCOS.COM • RMB@RMCOS.COM
WWW.RMCOS.COM • E-MAIL: RMCOS@RMCOS.COM
PERSONAL: 407-544-7856 • E-MAIL: RMBATTIE@RMCOS.COM
FAMILY: 407-544-7856 • E-MAIL: FAMILY@RMCOS.COM
BUSINESS: 407-544-7856 • E-MAIL: BUSINESS@RMCOS.COM
TECHNICAL: 407-544-7856 • E-MAIL: TECHNICAL@RMCOS.COM
ROBERT M. BEATTIE, PE: PE # 001243

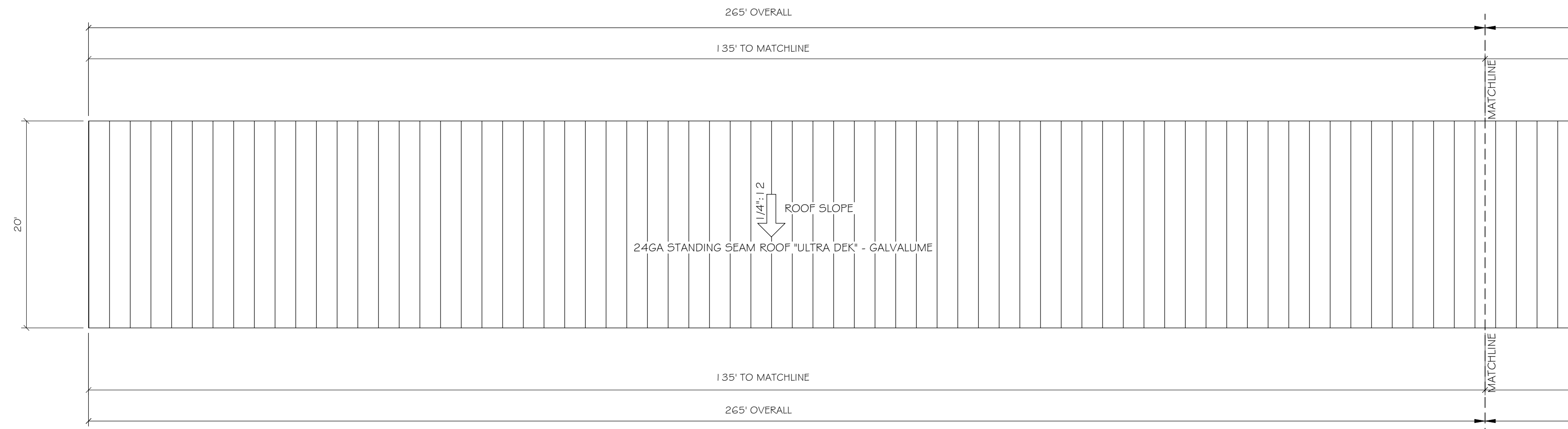
SHEET TITLE

STRC. 1

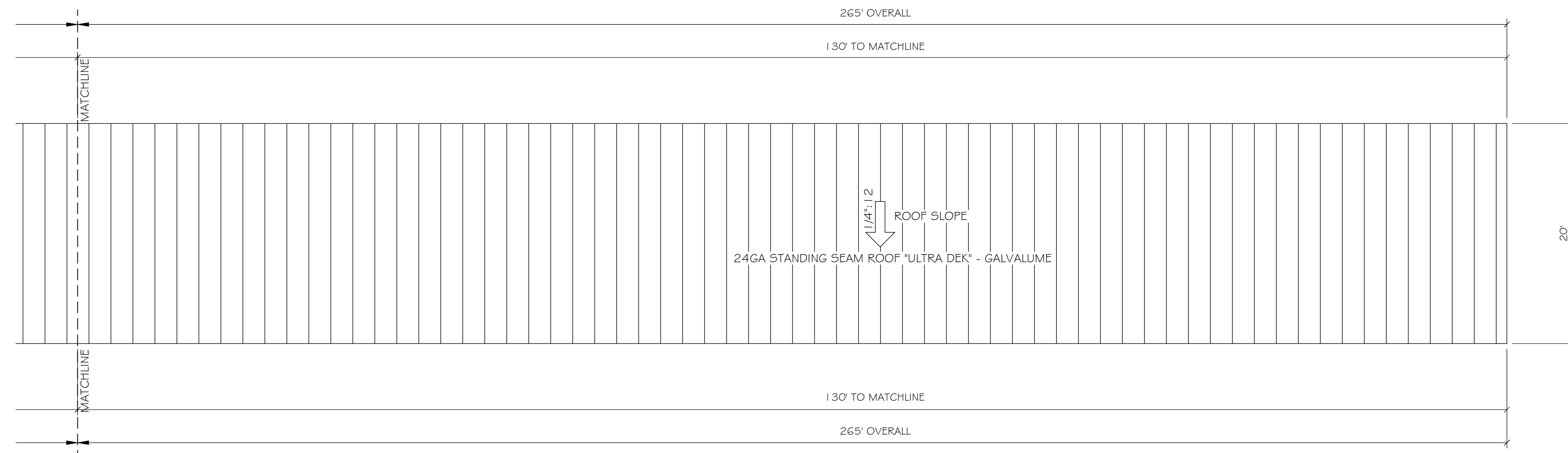
ROOF PLANS

DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

S-1.3



STRUCTURE 1
ROOF PLAN
SCALE: 1/8" = 1'



STRUCTURE 1
ROOF PLAN
SCALE: 1/8" = 1'

MAKORABCO
EAST COAST OFFICE: 1041 CROWN PARK CIRCLE WHITE RIDGE, FL 34707 PHONE: (800) 369-0220




ENGINEER STAMP

SHEET TITLE

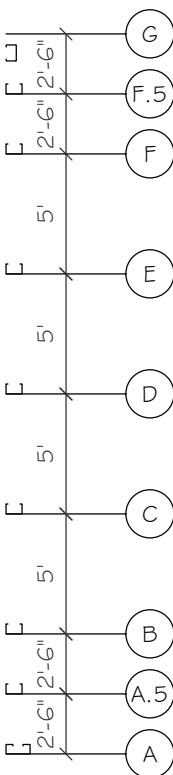
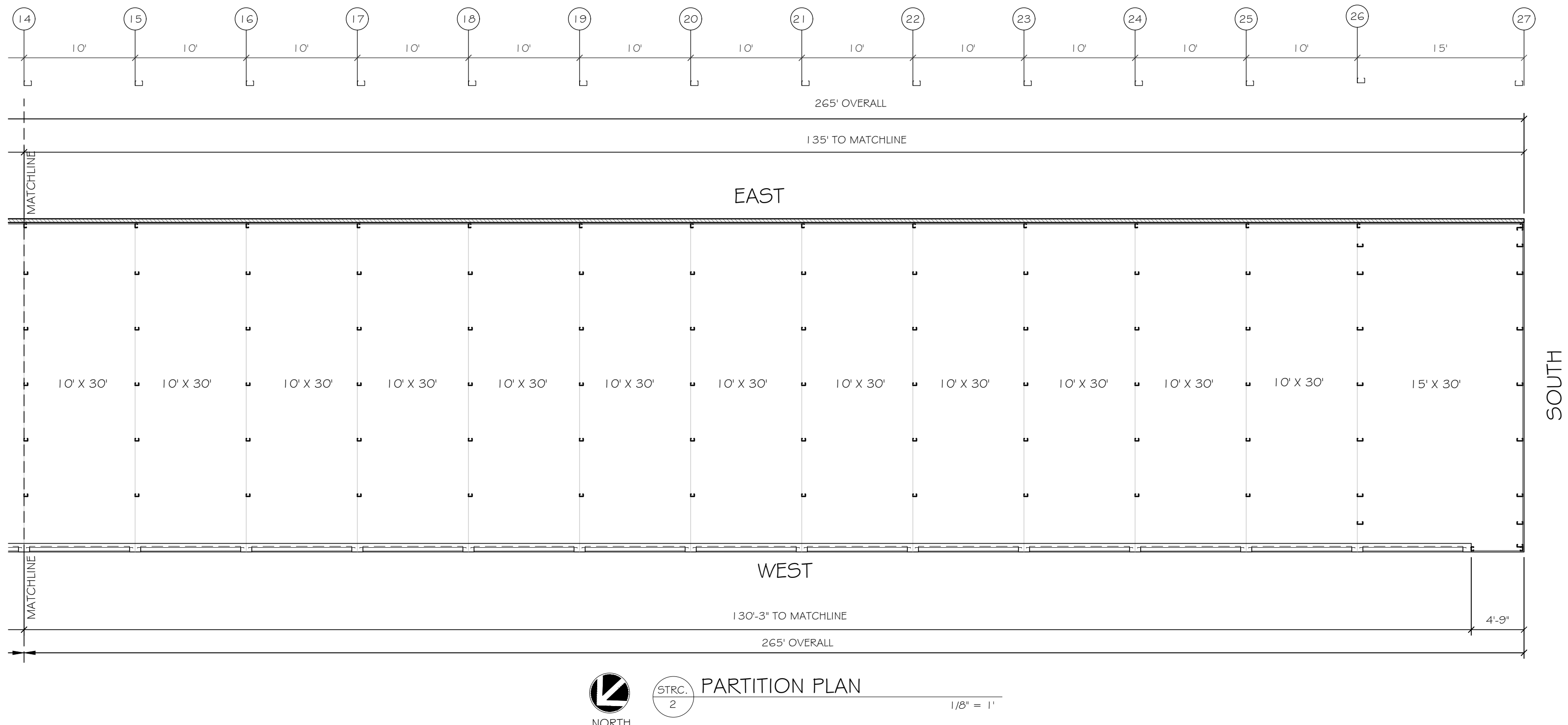
DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

PIER & HEADER FINISHES:

- GALVANEAL PIERs & HEADERS REQUIRING FIELD PAINTING.
- VERIFY PAINT COLOR WITH COLOR REQ'D IN LABOR CONTRACT.
- CAULK PIERs TO HEADERS AND HEADERS TO HEADERS IF STACKED.
- PRIME ALL EXPOSED SURFACES OF PIERs & HEADERS.
- PAINT ALL EXPOSED SURFACES OF PIERs & HEADERS WITH PAINT SPECIFIED IN LABOR CONTRACT EVENLY SO PRIMER CAN NOT BE SEEN THROUGH TOP COAT.
- IF TEXTURED, ROLL OUT TO ACHIEVE AND SAND FINISH- STUCCO LIKE LOOK.

LINE KEY	
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	PBR, 26GA VERTICAL PERIMETER WALL PANEL
	4" BRICK WALL (BY OTHERS)

NOTE:
GG/CUSTOMER TO PROVIDE DISTANCE TO HOLD
DOWN PARTITIONS FROM BOTTOM OF ROOF
DECK BEFORE ANY MATERIALS CAN BE ORDERED.



 **MAKORABCO**

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ENGINEER STAMP

ENGINEER

ROBERT M. BEATTIE, PE

SHEET TITLE

DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

S-2.1



ANCHOR SCHEDULE			FASTENERS AND ANCHORS ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS																		
BRAND: DeWALT (OR EQUAL)																					
ANCHOR TYPE	ANCHOR NAME	ICC-ES #	ANCHOR DIA (IN)	MIN BASE MATERIAL THICKNESS (IN)	(MIN. OR NOM.) / MAX. OR REF. EMBEDMENT (IN.)	MIN ANCHOR SPACING (IN)	MIN EDGE / END DISTANCE (IN)	ALLOWABLE BASE MATERIAL													
								CONC.	LW CONC.	CONC. OVER STEEL DECK	GF CMU	HOLLOW CMU W/ SCREEN TUBES	SOLID BRICK	STEEL							
EPOXY	AC108 GOLD	ESR-2582 [CONC]	1/2" dia.	4" [CONC]	2-3/4"(MIN) / 6" MAX	2-1/2"	2-1/2"	X	X		X		X								
			3/4" dia.	5-3/4" [CONC]	3-1/2"(MIN) / 9" MAX	3-3/4"	3-3/4"														
		ESR-3200 [CMU]	1/2" dia.	8" GF CMU	4" (MIN)	(1) PER CELL	4"								X	X	X				
			3/4" dia.	8" GF CMU	6" (MIN)	(1) PER CELL	4"														
MECHANICAL	POWER STUD #501 [CONC]	ESR-2818 [CONC]	1/2" dia.	4" [CONC]	2-1/2"(NOM) / 2" (EFF)	4-1/2"	6"	X	X	X											
			3/4" dia.	6" [CONC]	4"(NOM) / 2" (EFF)	6"	6"														
		ESR-2966 [CONC]	3/8" dia.	8" GF CMU	2-1/2"(NOM)	(1) PER CELL	4"								X	X					
			1/2" dia.	8" GF CMU	4-3/4"(MIN)	(1) PER CELL	12"														
	POWER STUD #502 [CONC]	ESR-2502 [CONC]	1/2" dia.	4-1/2" [CONC]	2-1/2"(NOM) / 2" (EFF)	6"	8"	X	X	X											
			3/4" dia.	7" [CONC]	4-1/2"(NOM) / 3-3/4" (EFF)	6"	12"														
			3/8" dia.	2 1/2" [CONC OVER STL DECK]	2-3/8"(NOM) / 2" (EFF)	1-1/2"	4"														
			1/2" dia.	2 1/2" [CONC OVER STL DECK]	2-1/2"(NOM) / 2" (EFF)	8"	4"														
		SCREW-BOLT+	ESR-3689 [CONC]	1/4" dia.	8" GF [CONC]	2-1/2" (MIN.)	4"	2"	X	X	X	X		X							
				1/2" dia.	8" GF [CONC]	3-1/4" (MIN.)	6"	3"													
				1/2" dia.	3" [CONC]	1-5/8"(NOM) / 1.2" (EFF)	1-1/2"	1-1/2"													
				3/4" dia.	3" [CONC]	2"(NOM) / 1-1/3" (EFF)	2"	1-1/2"													
				3/8" dia.	3" [CONC]	2-1/2"(NOM) / 1-3/4" (EFF)	2-3/4"	1-3/4"													
				1/2" dia.	3-3/4" [CONC]	4-1/4"(NOM) / 3.08" (EFF)	3"	1-3/4"													
ESR-4042 [CMU]	1/4" dia.	2 1/2" [CONC OVER STL DECK]	1-5/8"(NOM) / 1.2" (EFF)	1-1/2"	1-1/2"																
	3/8" dia.	2 1/2" [CONC OVER STL DECK]	2"(NOM) / 1.33" (EFF)	2"	2"																
	1/2" dia.	2 1/2" [CONC OVER STL DECK]	2-1/2"(NOM) / 1-3/4" (EFF)	2-1/2"	2-1/2"																
	1/2" dia.	8" GF CMU	4-1/4"(MIN)	(1) PER CELL	4"																
DIRECT FASTEN	CSI SPIRAL DRIVE PINS	ESR-2024 [CMU]	3/4" dia.	8" GF CMU	6-1/4"(MIN)	(1) PER CELL	4"	X	X	X	X	X	X	X							
			0.57" dia.	3/16" (STEEL)	FASTENER POINT MUST PENETRATE STEEL MEMBER	1-1/2"	1/2"														
			0.57" dia.	2-1/4" [CONC]	3/4"(MIN)	4"	3-1/2"														
			0.57" dia.	3" [CONC]	1"(MIN)	4"	3-1/2"														
			0.57" dia.	3-3/4" [CONC]	1-1/4"(MIN)	4"	3-1/2"														
			0.57" dia.	8" GF CMU	1"(MIN)	4"	3-3/4"														
			0.57" dia.	8" HOLLOW CMU	1"(MIN)	8"	3-3/4"														
			0.57" dia.	8" GF CMU	1"(MIN)	4"	3-3/4"														



$$1/8'' = 1'$$

MARKUPS / REVISIONS				
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1	FOR	PERMIT COMMENTS	1/4/2024	
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3	HH	CHANGE ORDER	2/25/2025	

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MCCORDSVILLE, IN 46055

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SHEET TITLE

STRC. 2
ROOF FRAMING PLANS

DATE

09-21-23

DRAWN BY

FOR 5

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JOB NO.

E-2726

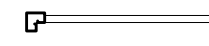








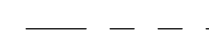


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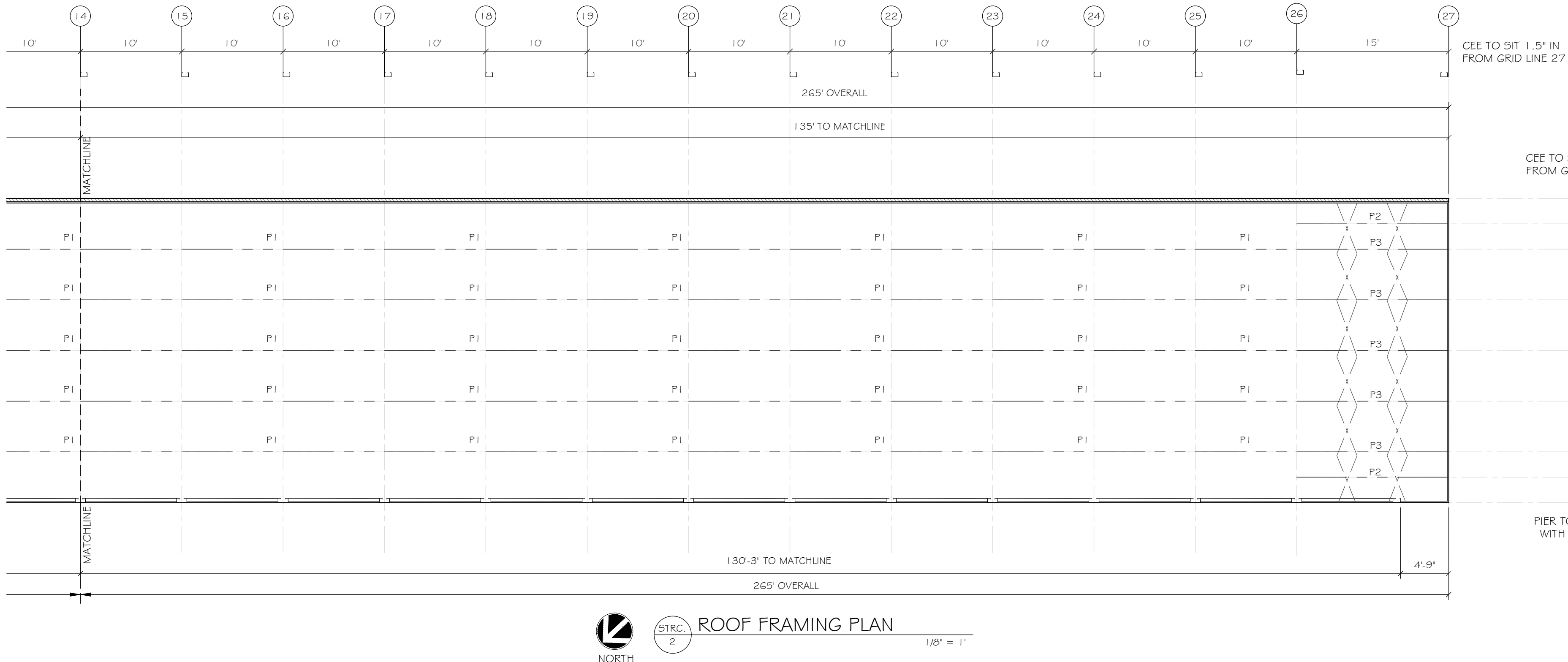
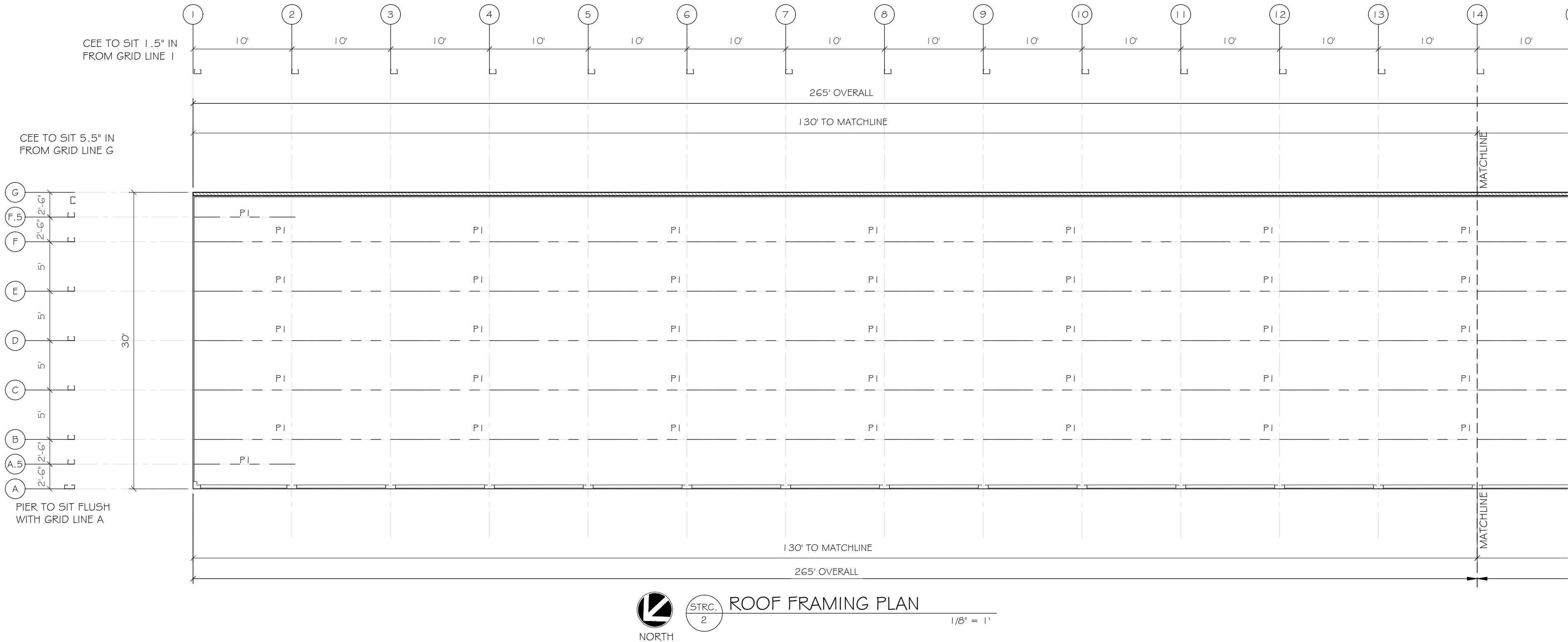
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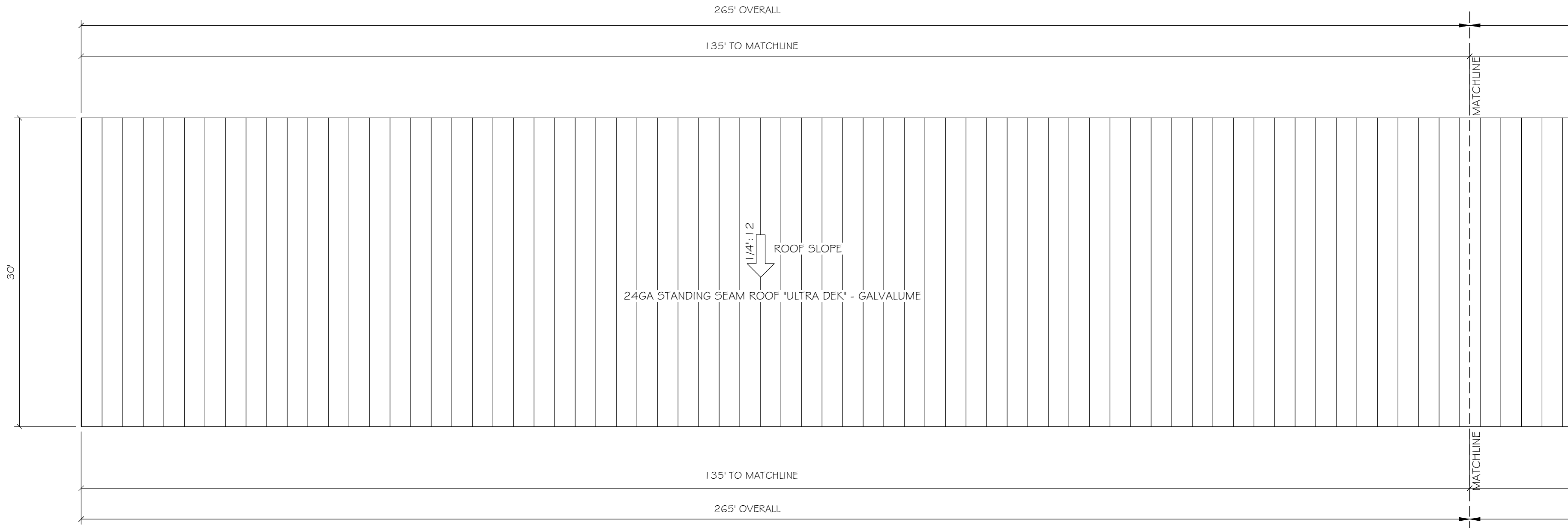
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S-2.2

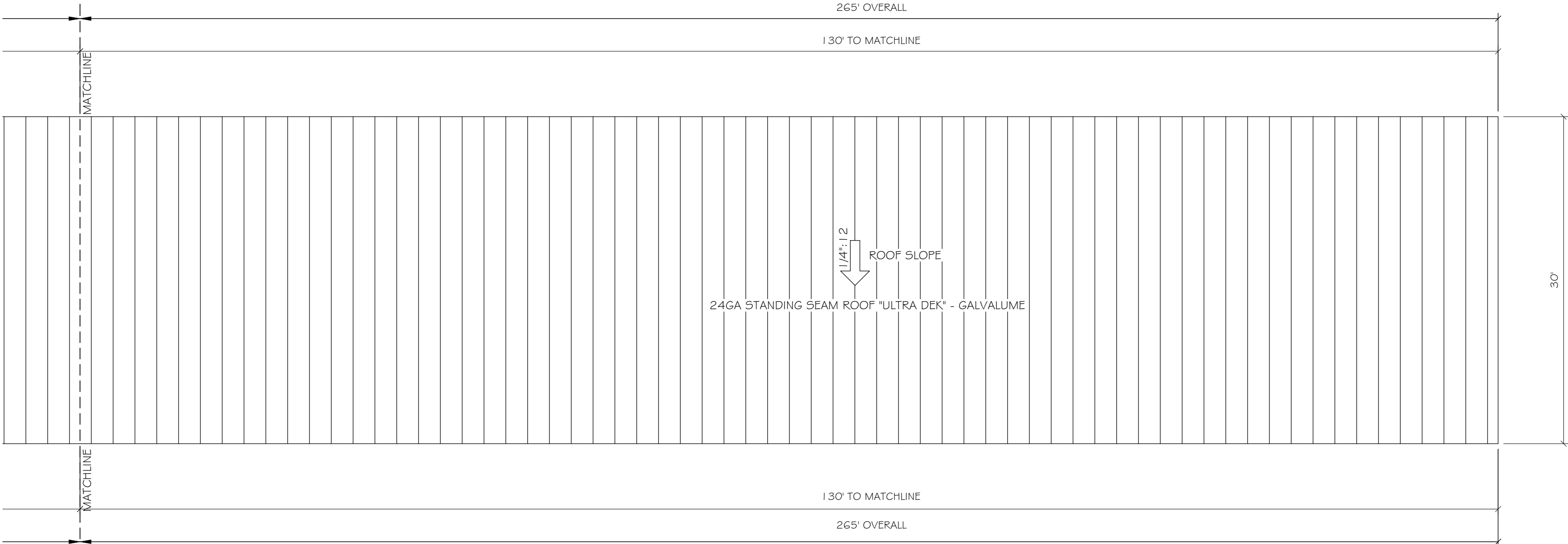
TYPICAL COLUMNS 4 BEAMS UNLESS NOTED OTHERWISE	
COLUMN : M51 = 4C16 - 4'X2 1/2" X 1 GGA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : M52 = 6C16 - 6'X2 1/2" X 1 GGA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : M53 = 6C14 - 6'X2 1/2" X 1 4GA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : M54 = 6C12 - 6'X2 1/2" X 1 2GA CEE PRIME PAINTED (RED OXIDE)	
PURLIN : P1 = 4Z16 - 4'X2 1/2" X 1 GGA ZEE PRIME PAINTED (RED OXIDE)	
PURLIN : P2 = 6Z16 - 6'X2 1/2" X 1 GGA ZEE PRIME PAINTED (RED OXIDE)	
PURLIN : P3 = 6Z12 - 6'X2 1/2" X 1 2GA ZEE PRIME PAINTED (RED OXIDE)	

LINE KEY	
	CORNER PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 26GA VERTICAL PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	PBR, 26GA VERTICAL PERIMETER WALL PANEL
	4" BRICK WALL (BY OTHERS)
	HORIZONTAL PARTITION PANEL 29GA GALVOLUME TYPE "U"
	CROSS BEAMS NEED MORE THAN 5' BAY
	HALL WAY SYSTEM
	COLUMNS
	ZEE BEAMS
	THREE HOUR RATED CMU WALL UL # U904
	24ga. ROOF STRAPPING






STRUCTURE 2
ROOF PLAN
SCALE: 1/8" = 1'



STRUCTURE 2
ROOF PLAN
SCALE: 1/8" = 1'

MARKUPS / REVISIONS				
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ENGINEER STAMP

ENGINEER

ROBERT M. BEATTIE, PE

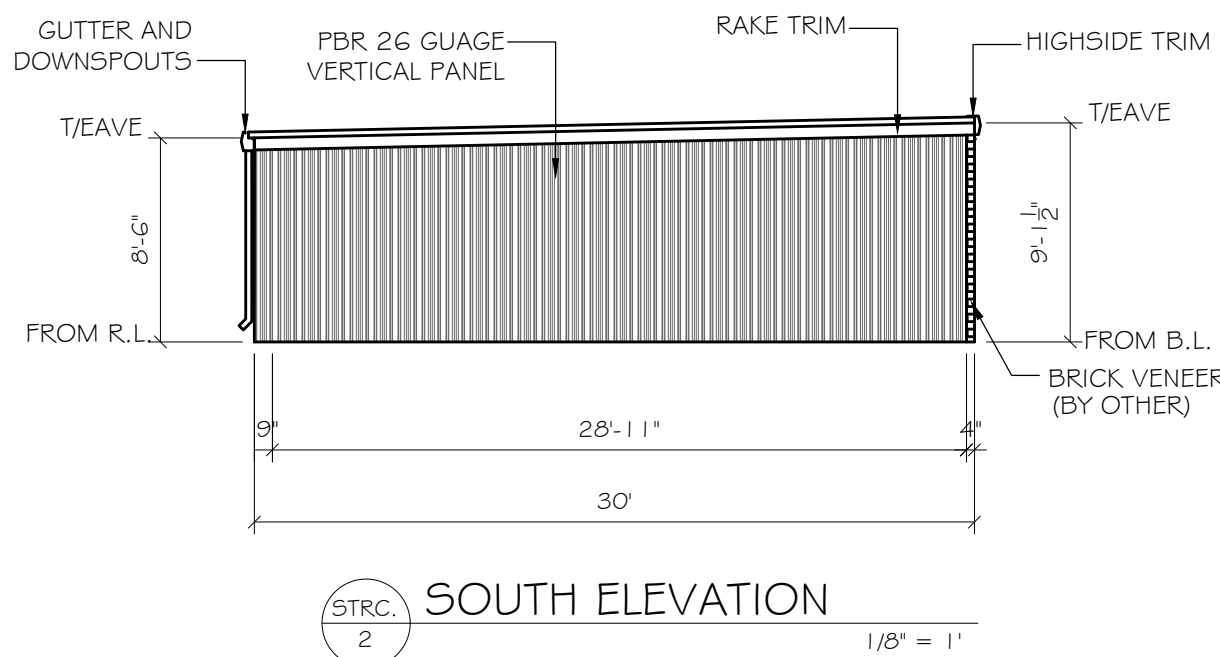
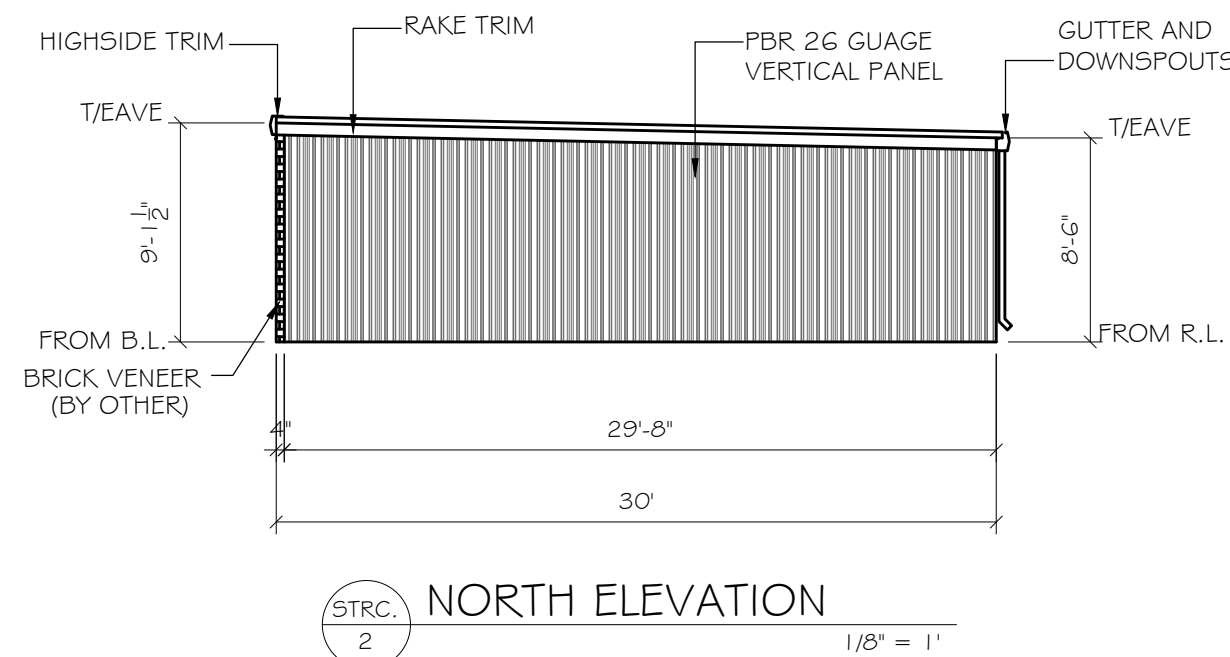
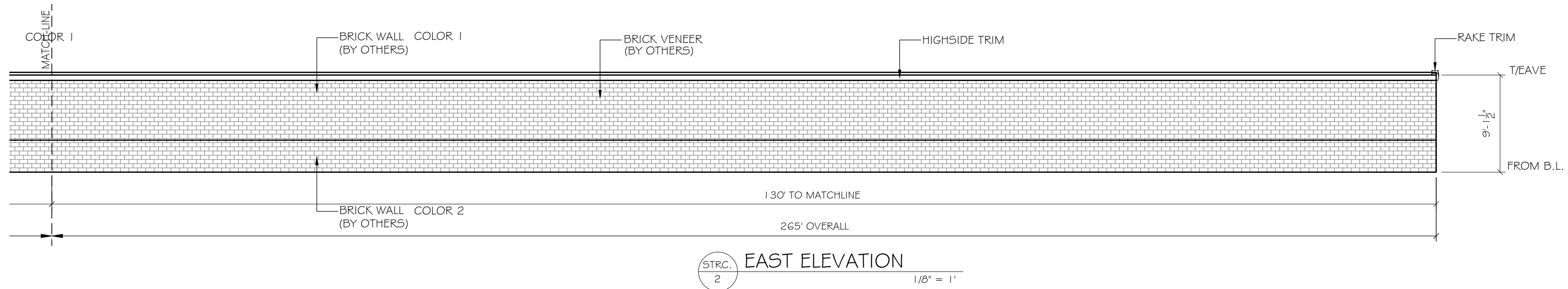
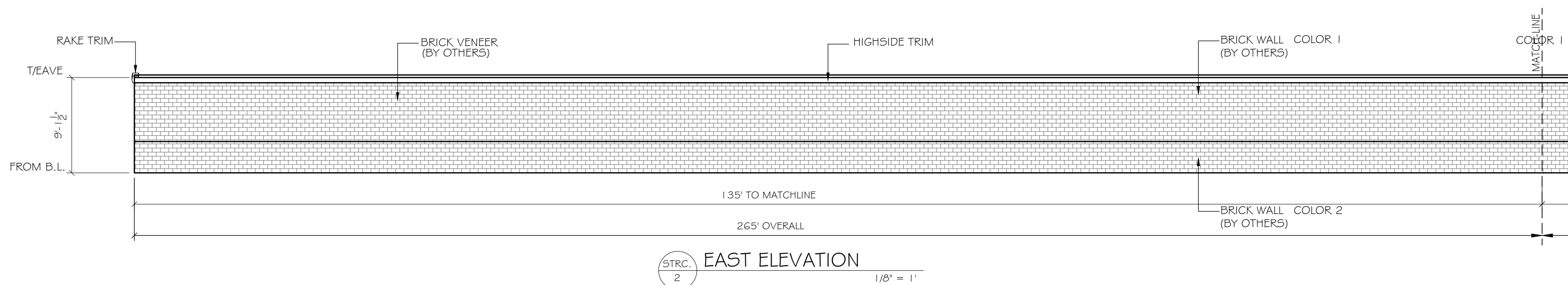
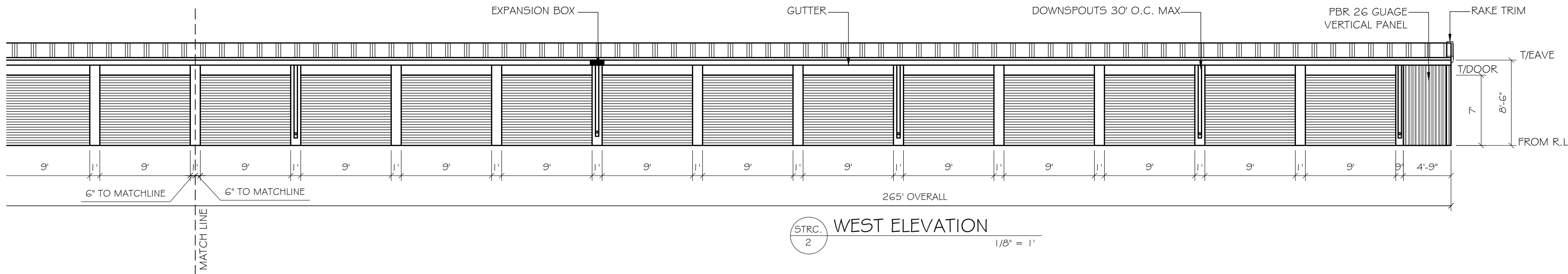
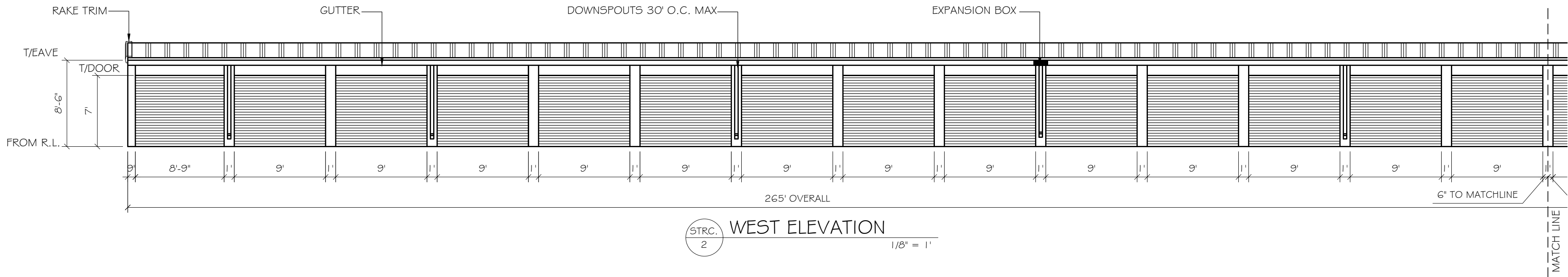
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WWW.MAKORABCO.COM

SHEET TITLE
STRC. 2
ROOF PLANS

DATE 09-21-23
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SCALE AS NOTED
SHEET



NOTES:
ALL MAN DOORS, ROLL-UP DOORS, SLIDING GLASS DOORS, WINDOWS AND TRANSOMS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION TO ENSURE PROPER FIT. G.C./SUBCONTRACTOR SHALL NOT FABRICATE FROM THE CONSTRUCTION DOCUMENTS. SHOULD THE G.C./ SUBCONTRACTOR CHOOSE TO FABRICATE THE PREVIOUSLY REFERENCED ITEMS FROM THE CONTRACT/PROPOSAL DOCUMENTS AND NOT FROM THE FIELD THEY DO SO AT THEIR OWN RISK AND ANY AND ALL MODIFICATIONS REQUIRED AS A RESULT SHALL BE AT THEIR OWN EXPENSE.

NOTE:
GC SHALL COORDINATE ALL T/CMU WALL HEIGHTS WITH RABCO ENTERPRISES, LLC PRIOR TO CONSTRUCTION TO ENSURE PROPER FIT OF THE METAL BUILDING COMPONENTS. FAILURE TO GET WRITTEN APPROVAL PRIOR TO ERCTING THE CMU WALLS MAY RESULT IN NEEDED MODIFICATIONS TO EITHER THE CMU WALL AND/OR THE METAL BUILDING COMPONENTS AT THE G.C.'S EXPENSE.

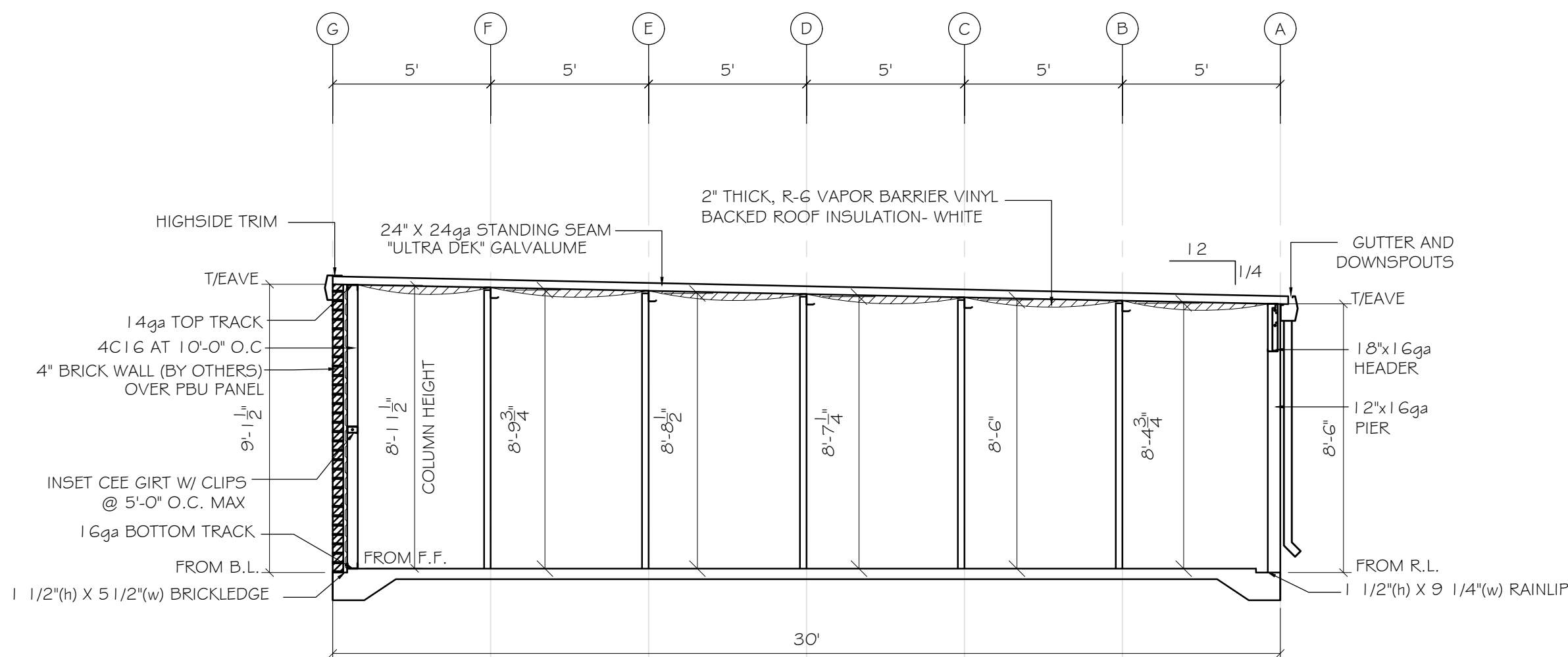
TYPICAL PIER AND HEADER UNLESS INDICATED OTHERWISE

PIER TEX COTE - 12" X 16ga
CORNER PIER - 9" X 9" X 16ga
SIDE WALL HEADER - 18" X 16ga

24ga STANDING SEAM ROOF
"ULTRA DEK" - GALVALUME

DOWNSPOUTS 30' O.C. MAX.
GUTTER EXP. BOX 90' O.C. MAX.

- NOTES:
- UNLESS NOTED OTHERWISE ON THE PLANS, THE FOLLOWING OUTLINES STANDARD PARTITION HEIGHTS USED FOR DESIGN PURPOSES.
 - NON-CLIMATE CONTROLLED SINGLE STORY BUILDINGS HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 8" OF THE BOTTOM OF THE ROOF DECK.
 - CLIMATE CONTROLLED SINGLE STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE ROOF DECK.
 - CLIMATE CONTROLLED MULTI-STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE FLOOR/ROOF DECK.
 - SHOULD THE PARTITION PANELS NEED TO BE HELD DOWN FURTHER THAN 18" FROM THE BOTTOM OF THE FLOOR/ROOF DECK, THE REQUEST SHALL BE SUBMITTED IN WRITING AND A FORMAL WRITTEN RESPONSE PROVIDED PRIOR TO FABRICATION AND/OR INSTALLATION.



NOTE:
VERTICAL COLUMN DIMENSION IS ACTUAL LENGTH OF CEE FROM F.F. (U.N.O.)

MARKUPS / REVISIONS				
NO.	BY	ISSUE	DATE	
1	FOR	PERMIT COMMENTS	1/4/2024	
2	PH	CUSTOMER COMMENTS	1/4/2025	
3	PH	CHANGE ORDER	2/25/2025	



STORAMERICA - MCCORDSVILLE
MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER

ROBERT M. BEATTIE, PE
1000 WEST 10TH AVENUE, SUITE 200, CHICAGO, IL 60606
TELEPHONE: 312.467.4000 FAX: 312.467.4001
E-MAIL: RMB@RMBENGINEERING.COM
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS, LICENSE NO. 001-000000000
EXPIRATION DATE: 12/31/2025
I HEREBY CERTIFY THAT THE DESIGN AND CALCULATIONS ON THIS DRAWING WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF ILLINOIS.

SHEET TITLE

STRC. 2
ELEVATIONS & SECTION

DATE 09-21-23
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S-2.4

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ENGINEER

SHEET TITLE

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CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

S-3.0

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ROBERT M. BEATTIE, PE

STRC. 3
COLUMN FRAMING PLAN

DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

Structural floor plan showing a grid of columns and beams. The plan includes dimensions for column spacing (10' and 9'-6") and beam spacing (20' and 22'-0"). The plan also shows a central vertical column labeled 'C' and a horizontal beam labeled '6 SD-1'. The plan is bounded by grid lines 1 through 23 horizontally and A through E vertically.

Key dimensions and notes:

- Column spacing: 10' (between grid lines 1-23), 9'-6" (between grid lines A-B and D-E).
- Beam spacing: 20' (between grid lines A-B and D-E), 22'-0" (between grid lines 1-23).
- Structural notes:
 - MS 1 8'-7 7/8"
 - MS 1 10'-3 1/8"
 - MS 1 10'-1 1/4"
 - MS 1 10'-0"
 - MS 1 9'-10 3/4"
 - PIER 10'-0"
- Central column: C
- Horizontal beam: 6 SD-1
- Grid lines: 1 through 23 (horizontal), A through E (vertical).

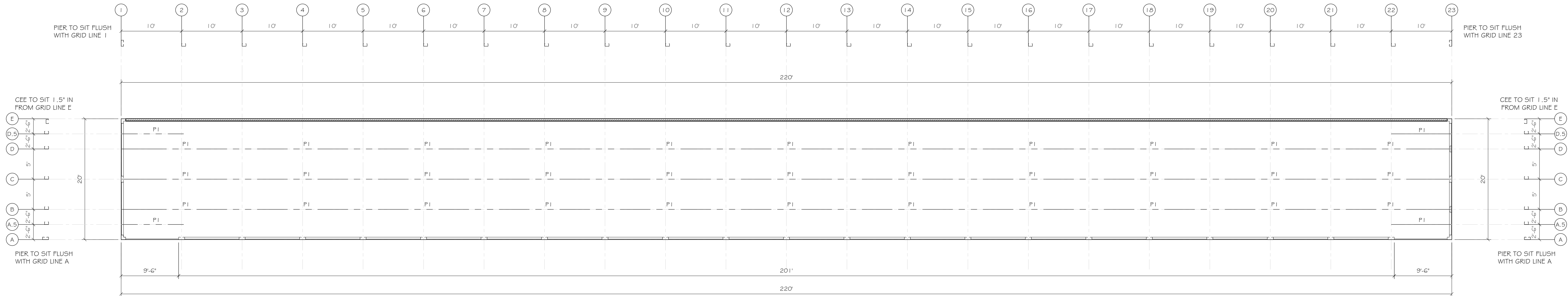


$$1/8'' = 1'$$

TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE
COLUMN : M51 = 4C16 - 4X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : M52 = 6C16 - 6X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : M53 = 6C16 - 6X2 1/2" X 14GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : M54 = 6C12 - 6X2 1/2" X 12GA CEE PRIME PAINTED (RED OXIDE)
FURLIN : P1 = 42 I6 - 4X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
FURLIN : P2 = 62 I6 - 6X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
FURLIN : P3 = 62 I6 - 6X2 1/2" X 12GA ZEE PRIME PAINTED (RED OXIDE)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
SINGLE STORY BUILDINGS
<u>BASE CLIP INSTALLATION</u> 1/2"x3" DeWALT SCREW BOLT+ (OR EQUAL) 3/4" EFFECTIVE EMBEDMENT
<u>BASE TRACK INSTALLATION</u> 1/2"x3" DeWALT SCREW BOLT+ (OR EQUAL) SPACING 3' O.C. (3/4" EFFECTIVE EMBEDMENT)
<u>PIER INSTALLATION</u> 1/2"x3" DeWALT SCREW BOLT+ (OR EQUAL) @ EA. PIER 3/4" EFFECTIVE EMBEDMENT

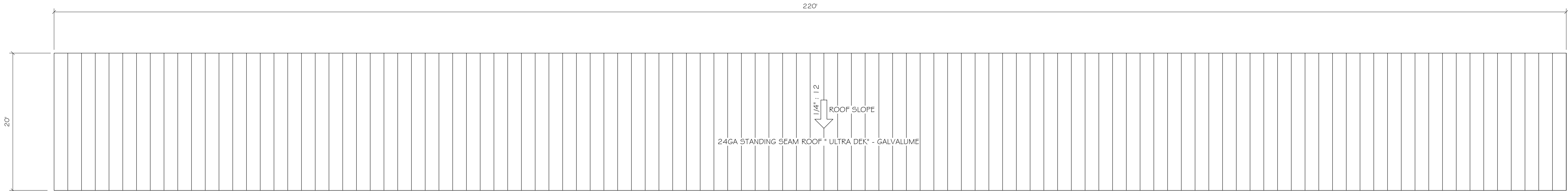
ANCHOR SCHEDULE			FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS												
BRAND: DeWALT (OR EQUAL)															
ANCHOR TYPE	ANCHOR NAME	ICC-ES #	ANCHOR DIA. (IN)	MIN BASE MATERIAL THICKNESS (IN)	(MIN. OR NOM.) / MAX. OR REF.) EMBEDMENT (IN.)	MIN ANCHOR SPACING (IN)	MIN EDGE / END DISTANCE (IN)	ALLOWABLE BASE MATERIAL							
								CONC.	LW CONC.	CONC. OVER STEEL DECK	GF CMU	HOLLOW CMU W/ SCREEN TUBES	SOLID BRICK	STEEL	
EPOXY	AC100+GOLD	ESR-2582 [CONC]	1/2" dia.	4" [CONC]	2-3/4"(MIN) / 6" MAX	2-1/2"	2-1/2"	X	X			X	X		
			3/4" dia.	5-3/4" [CONC]	3-1/4"(MIN) / 9" MAX	3-3/4"	3-3/4"								
		ESR-3200 [CMU]	1/2" dia.	8" GF CMU	4" (MIN)	(1) PER CELL	4"	X	X	X					
			3/4" dia.	8" GF CMU	6" (MIN)	(1) PER CELL	4"								
MECHANICAL	POWER STUD +501	ESR-2816 [CONC]	1/2" dia.	4" [CONC]	2-1/2"(NOM) / 2" (EFF)	4-1/2"	6"	X	X	X					
			3/4" dia.	6" [CONC]	4"(NOM) / 2" (EFF)	6"	6"								
		ESR-2966 [CONC]	3/8" dia.	8" GF CMU	2-1/2"(MIN)	(1) PER CELL	4"	X	X	X					
			1/2" dia.	8" GF CMU	4-3/4"(MIN)	(1) PER CELL	12"								
		POWER STUD +562	ESR-2502 [CONC]	1/2" dia.	4-1/2" [CONC]	2-1/2"(NOM) / 2" (EFF)	6"	8"	X	X	X				
				3/4" dia.	7" [CONC]	4-1/2"(NOM) / 3-3/4" (EFF)	6"	12"							
			3/8" dia.	24" [CONC OVER STL DECK]	2-3/8"(NOM) / 2" (EFF)	1-1/2"	4"	X	X	X					
			1/2" dia.	24" [CONC OVER STL DECK]	2-1/2"(NOM) / 2" (EFF)	8"	4"								
	SCREW-DRILL+T	ESR-3889 [CONC]	1/4" dia.	8" GF [CONC]	2-1/2" (MIN.)	4"	2"	X	X	X	X				
			1/2" dia.	8" GF [CONC]	3-1/4" (MIN.)	6"	3"								
			1/2" dia.	3" [CONC]	1-5/8"(NOM) / 1.2" (EFF)	1-1/2"	1-1/2"								
			3/4" dia.	3" [CONC]	2"(NOM) / 1-1/3" (EFF)	2"	1-1/2"								
			3/8" dia.	3" [CONC]	2-1/2"(NOM) / 1-3/4" (EFF)	2-3/4"	1-3/4"								
			1/2" dia.	3-3/4" [CONC]	4-1/4"(NOM) / 3.08" (EFF)	3"	1-3/4"								
			1/4" dia.	24" [CONC OVER STL DECK]	1-5/8"(NOM) / 1.2" (EFF)	1-1/2"	1-1/2"								
			3/8" dia.	24" [CONC OVER STL DECK]	2"(NOM) / 1.33" (EFF)	2"	2"								
1/2" dia.		24" [CONC OVER STL DECK]	2-1/2"(NOM) / 1-3/4" (EFF)	2-1/2"	2-1/2"										
		ESR-4042 [CMU]	1/2" dia.	8" GF CMU	4-1/4"(MIN)	(1) PER CELL	4"	X	X	X	X				
	3/4" dia.		8" GF CMU	6-1/4"(MIN)	(1) PER CELL	4"									
DIRECT FASTEN	CSI SPIRAL DRIVE PINS	ESR-2024	0.157" dia.	3/16" (STEEL)	FASTENER POINT MUST PENETRATE STEEL MEMBER	1-1/2"	1/2"	X	X	X	X	X	X	X	
			0.157" dia.	2-1/4" [CONC]	3/4"(MIN)	4"	3-1/2"								
			0.157" dia.	3" [CONC]	1"(MIN)	4"	3-1/2"								
			0.157" dia.	3-3/4" [CONC]	1-1/4"(MIN)	4"	3-1/2"								
			0.157" dia.	8" GF CMU	1"(MIN)	4"	3-3/4"								
			0.157" dia.	8" HOLLOW CMU	1"(MIN)	8"	3-3/4"								



STRC. 3 ROOF FRAMING PLAN
1/8" = 1'

TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE
COLUMN : MS1 = 4C16 - 4'X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS2 = 6C16 - 6'X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS3 = 6C14 - 6'X2 1/2" X 14GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS4 = 6C12 - 6'X2 1/2" X 12GA CEE PRIME PAINTED (RED OXIDE)
PURLIN : P1 = 4Z16 - 4'X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P2 = 6Z16 - 6'X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P3 = 6Z12 - 6'X2 1/2" X 12GA ZEE PRIME PAINTED (RED OXIDE)


LINE KEY
CORNER PIER, HEADER, PIER
6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 26GA VERTICAL PANEL EXTERIOR
6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
PBR, 26GA VERTICAL PERIMETER WALL PANEL
4" BRICK WALL (BY OTHERS)
HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
CROSS BEAMS NEED MORE THAN 5' BAY
HALL WAY SYSTEM
COLUMNS
ZEE BEAMS
THREE HOUR RATED CMU WALL UL # U904
24ga, ROOF STRAPPING



24GA STANDING SEAM ROOF " ULTRA DEK" - GALVALUME

STRUCTURE 3
ROOF PLAN
SCALE: 1/8" = 1'

MARKUPS / REVISIONS				
NO.	BY	ISSUE	DATE	
1	FOR	PERMIT COMMENTS	1/4/2024	
2	HH	CUSTOMER COMMENTS	1/4/2025	
3	HH	CHANGE ORDER	2/25/2025	



EAST COAST OFFICE: 1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34707 PHONE: (800) 980-0220

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STORAMERICA - MCCORDSVILLE
MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER

ROBERT M. BEATTIE, PE
NORTH WEST CORNER, CHICAGO, IL 60606
MAKORABCO, INC. 1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34707
TELEPHONE: (800) 980-0220 FAX: (800) 980-0221
E-MAIL: RBEATTIE@MAKORABCO.COM

ROBERT M. BEATTIE, PE
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TELEPHONE: (800) 980-0220 FAX: (800) 980-0221
E-MAIL: RBEATTIE@MAKORABCO.COM

SHEET TITLE	
STRC. 3 ROOF FRAMING PLAN & ROOF PLAN	
DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

MAKORABCO
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ENGINEER STAMP

SHEET TITLE

S-3.3



NOTE:
GC SHALL COORDINATE ALL T/CMU WALL HEIGHTS WITH RABCO ENTERPRISES, LLC PRIOR TO CONSTRUCTION TO ENSURE PROPER FIT OF THE METAL BUILDING COMPONENTS. FAILURE TO GET WRITTEN APPROVAL PRIOR TO ERECTING THE CMU WALLS MAY RESULT IN NEEDED MODIFICATIONS TO EITHER THE CMU WALL AND/OR THE METAL BUILDING COMPONENTS AT THE G.C.'S EXPENSE.

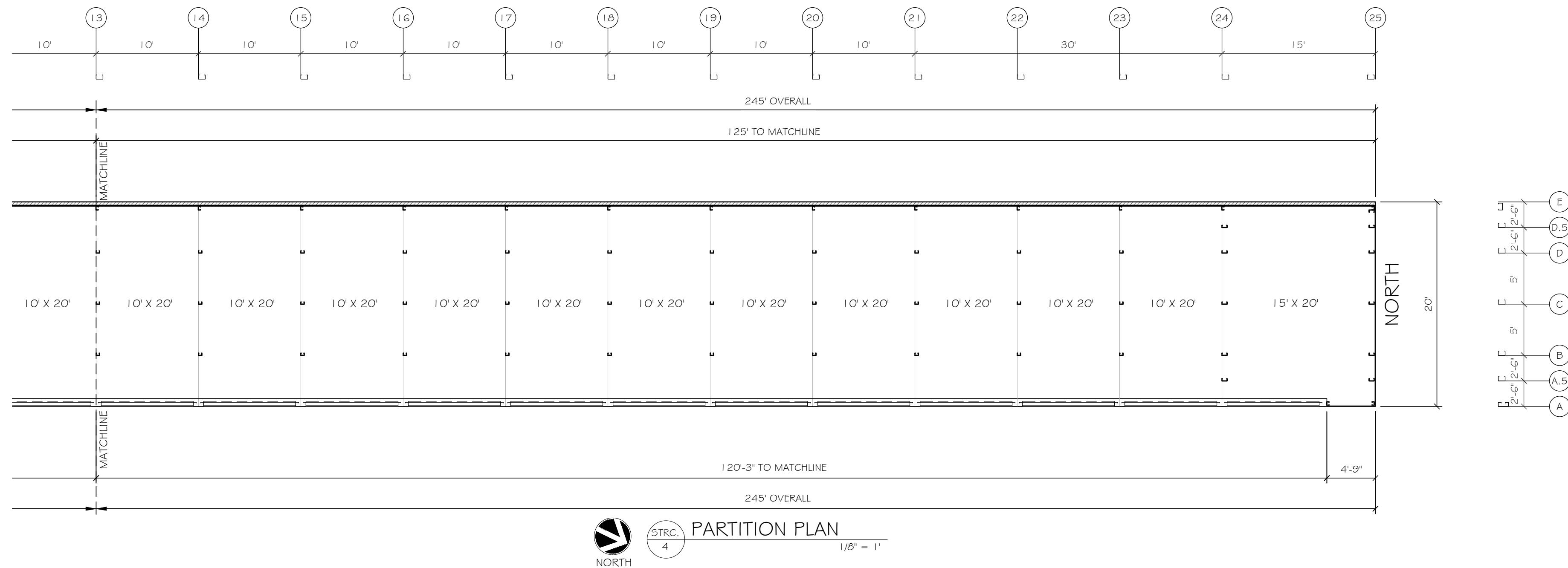
24ga STANDING SEAM ROOF "ULTRA DEK" - GALVALUME
<p>DOWNSPOUTS 30' O.C. MAX. GUTTER EXP. BOX 90' O.C. MAX.</p>



NOTE:
VERTICAL COLUMN DIMENSION IS ACTUAL
LENGTH OF CEE FROM F.F. (U.N.O.)

- NOTES:
1. UNLESS NOTED OTHERWISE ON THE PLANS, THE FOLLOWING OUTLINES STANDARD PARTITION HEIGHTS USED FOR DESIGN PURPOSES,
 2. NON-CLIMATE CONTROLLED SINGLE STORY BUILDINGS HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 8" OF THE BOTTOM OF THE ROOF DECK.
 3. CLIMATE CONTROLLED SINGLE STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE ROOF DECK.
 4. CLIMATE CONTROLLED MULTI-STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE FLOOR/ROOF DECK.
 5. SHOULD THE PARTITION PANELS NEED TO BE HELD DOWN FURTHER THAN 18" FROM THE BOTTOM OF THE FLOOR/ROOF DECK, THE REQUEST SHALL BE SUBMITTED IN WRITING AND A FORMAL WRITTEN RESPONSE PROVIDED PRIOR TO FABRICATION AND/OR INSTALLATION.

S-4.0



 **MAKORABCO**

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1. *Journal of Management Studies*, 1990, 27, 1.

1. *Journal of Management Studies*, 1996, 33, 1, 1-14.

1. *Journal of the American Medical Association*, 2000; 283: 2689-2693.

1. *Journal of the American Medical Association*, 2000; 283: 2689-2693.

1. *Journal of Management Studies*, 1991, 28, 10, 1191-1200.

1. *Journal of Management Studies*, 1991, 28, 10, 1191-1200.

1. *Journal of Management Studies*, 1996, 33, 1, 1-14.

1. *Journal of the American Medical Association*, 2000; 284: 2689-2695.

1. *Journal of the American Medical Association*, 2000; 283: 2689-2693.

1. *Journal of Management Studies*, 1990, 27, 1.

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SHEET TITLE

Case 1

STRC. 4

CONCLUSIONS

COLUMN FRAMING PLAN

DATE 09-21-23

DATE 05-27-23
DRAWN BY FOR 5

CHECKED BY XXX

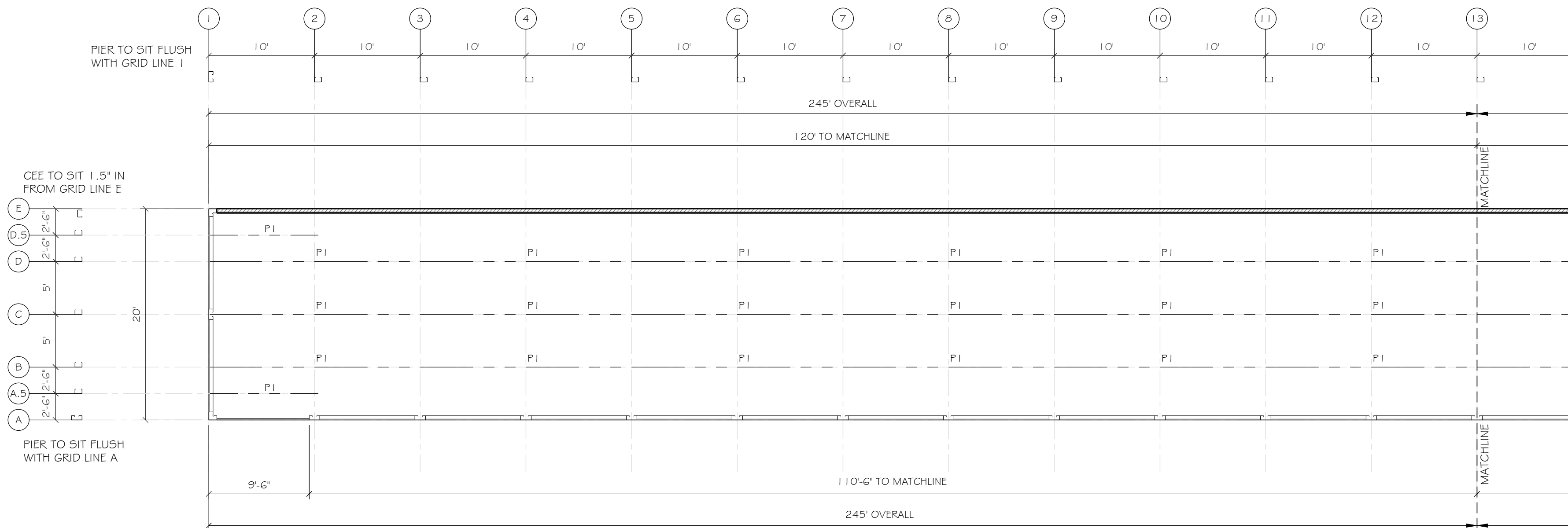
JOB NO. E-2726

SCALE	AS NOTED
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SHEET

S-4 1

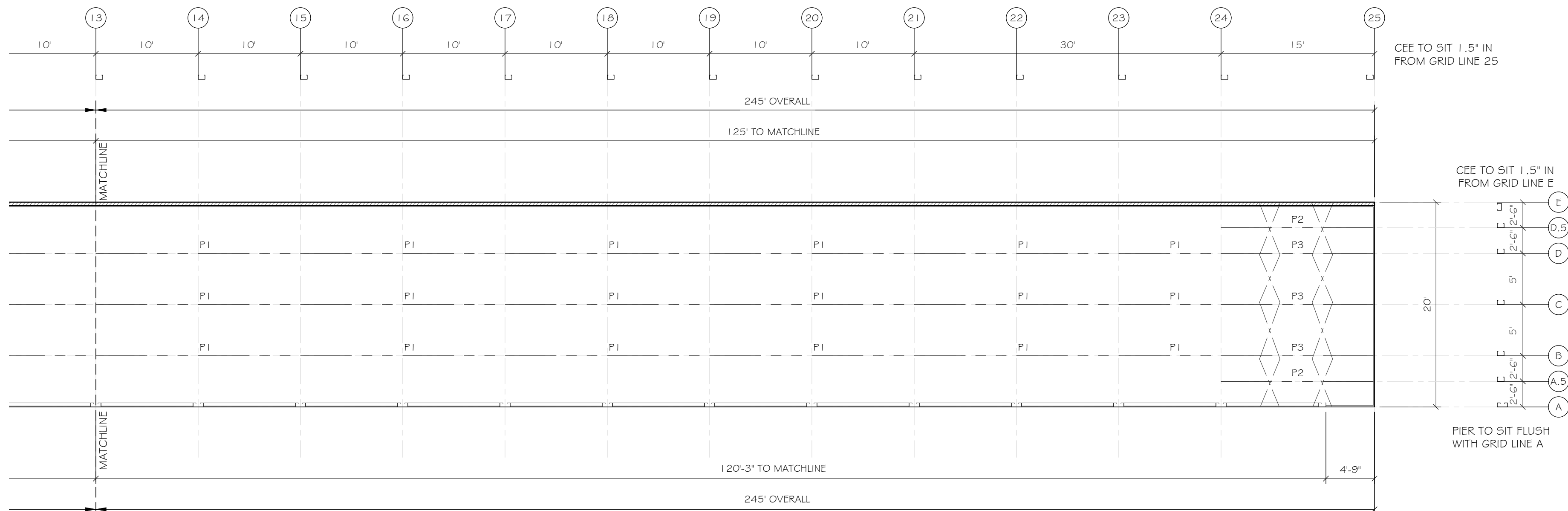
Conclusion



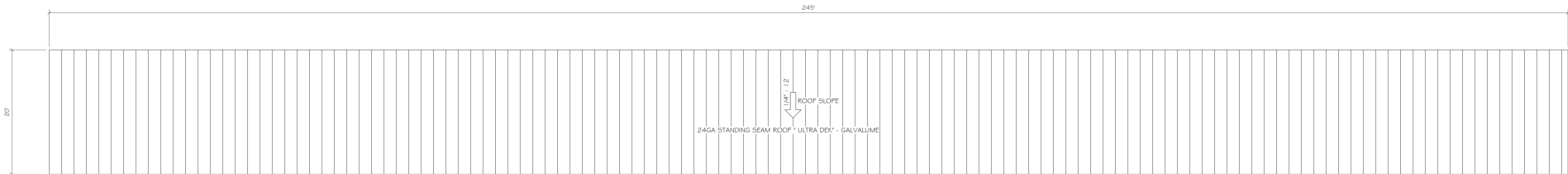
STRC. 4
ROOF FRAMING PLAN
1/8" = 1'

TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE	
COLUMN : MS1 = 4C16 - 4'X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : MS2 = 6C16 - 6'X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : MS3 = 6C14 - 6'X2 1/2" X 14GA CEE PRIME PAINTED (RED OXIDE)	
COLUMN : MS4 = 6C12 - 6'X2 1/2" X 12GA CEE PRIME PAINTED (RED OXIDE)	
PURLIN : P1 = 4Z16 - 4'X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)	
PURLIN : P2 = 6Z16 - 6'X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)	
PURLIN : P3 = 6Z12 - 6'X2 1/2" X 12GA ZEE PRIME PAINTED (RED OXIDE)	

LINE KEY	
	CORNER PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 26GA VERTICAL PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	PBR, 26GA VERTICAL PERIMETER WALL PANEL
	4" BRICK WALL (BY OTHERS)
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	CROSS BEAMS NEED MORE THAN 5' BAY
	HALL WAY SYSTEM
	COLUMNS
	ZEE BEAMS
	THREE HOUR RATED CMU WALL UL # U904
	24ga. ROOF STRAPPING



STRC. 4
ROOF FRAMING PLAN
1/8" = 1'



STRUCTURE 4
ROOF PLAN
SCALE: 1/8" = 1'

MARKUPS / REVISIONS				
NO.	BY	ISSUE	DATE	
1	FOR	PERMIT COMMENTS	1/4/2024	
2	HH	CUSTOMER COMMENTS	1/4/2025	
3	HH	CHANGE ORDER	2/25/2025	

MAKORABCO
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STORAMERICA - MCCORDSVILLE
MCCORDSVILLE, IN 46055

ENGINEER STAMP

ROBERT M. BEATTIE, PE
REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA, LICENSE NO. 12543 EXPIRATION DATE: 12/31/2025 TELEPHONE: 317-427-7771 FAX: 317-427-7772 E-MAIL: RBEATTIE@STORAMERICA.COM

ENGINEER

ROBERT M. BEATTIE, PE
REGISTERED PROFESSIONAL ENGINEER STATE OF INDIANA, LICENSE NO. 12543 EXPIRATION DATE: 12/31/2025 TELEPHONE: 317-427-7771 FAX: 317-427-7772 E-MAIL: RBEATTIE@STORAMERICA.COM

SHEET TITLE

STRC. 4
ROOF FRAMING PLAN &
ROOF PLAN

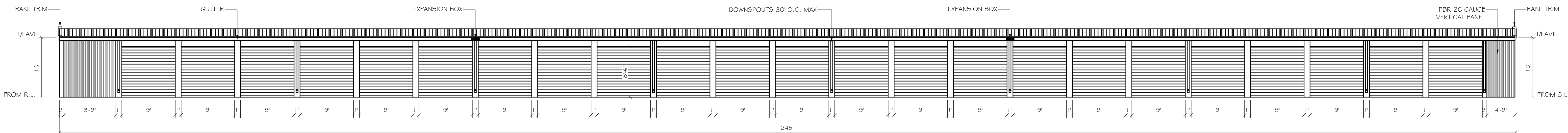
DATE	09-21-23
DRAWN BY	FOR 5
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JOB NO.	E-2726
SCALE	AS NOTED
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MAKORABCO
EAST COAST OFFICE: 1041 CROWN PARK CIRCLE WHITE RIDGE, FL 34707 PHONE: (800) 369-0220

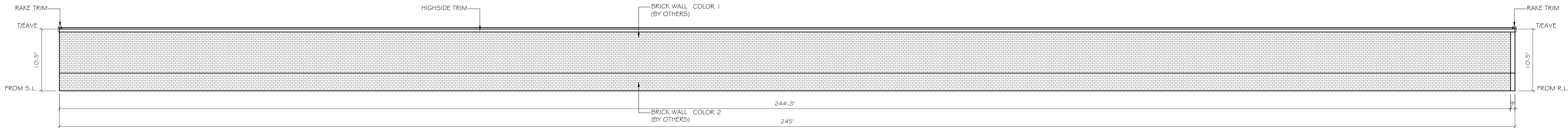
ENGINEER STAMP

ENGINEER	<p>ROBERT M. BEATTIE, PE</p> <p>3275 SOUT OAK COURT, ONYGO, FL 32765 2511 1st, 607-395-3691 FAX 407-395-1616 2511 1st, 407-395-3691 FAX 407-395-1616</p>
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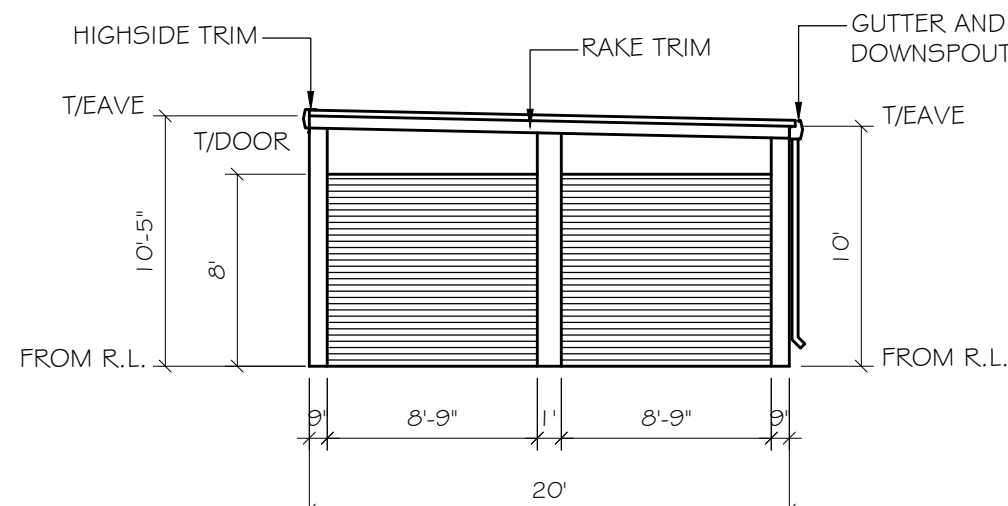
SHEET TITLE	
STRC. 4	
ELEVATIONS & SECTION	
DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	



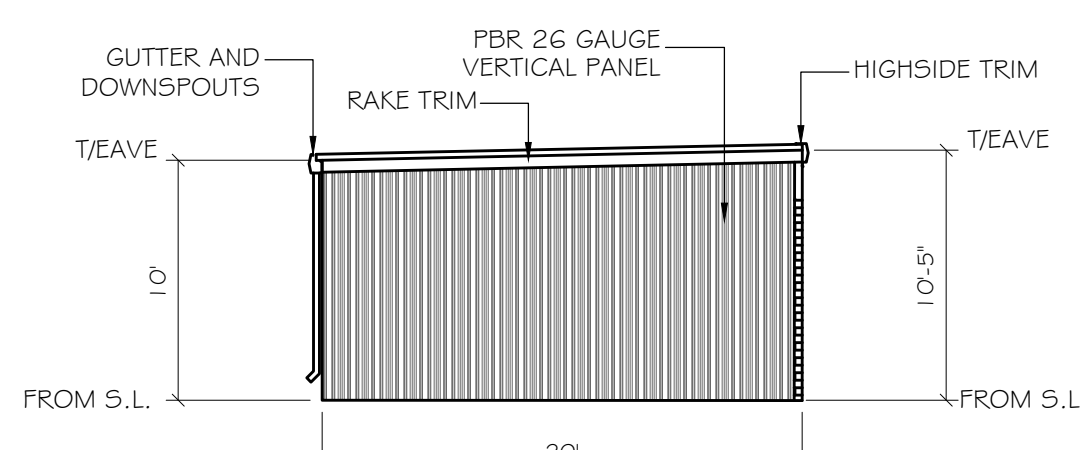
STRC. EAST ELEVATION
4 1/8" = 1'



STRC. WEST ELEVATION
4 1/8" = 1'



STRC. SOUTH ELEVATION
4 1/8" = 1'



STRC. NORTH ELEVATION $1/8" = 1'$

NOTES:
ALL MAN DOORS, ROLL-UP DOORS, SLIDING GLASS DOORS, WINDOWS AND TRANSOMS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION TO ENSURE PROPER FIT. G.C./SUBCONTRACTOR SHALL NOT FABRICATE FROM THE CONSTRUCTION DOCUMENTS. SHOULD THE G.C./SUBCONTRACTOR CHOOSE TO FABRICATE THE PREVIOUSLY REFERENCED ITEMS FROM THE CONTRACT/PROPOSAL DOCUMENTS AND NOT FROM THE FIELD THEY DO SO AT THEIR OWN RISK AND ANY AND ALL MODIFICATIONS REQUIRED AS A RESULT SHALL BE AT THEIR OWN EXPENSE.

NOTE:
GC SHALL COORDINATE ALL T/CMU WALL HEIGHTS WITH RABCO ENTERPRISES, LLC PRIOR TO CONSTRUCTION TO ENSURE PROPER FIT OF THE METAL BUILDING COMPONENTS. FAILURE TO GET WRITTEN APPROVAL PRIOR TO ERECTING THE CMU WALLS MAY RESULT IN NEEDED MODIFICATIONS TO EITHER THE CMU WALL AND/OR THE METAL BUILDING COMPONENTS AT THE G.C.'S EXPENSE.

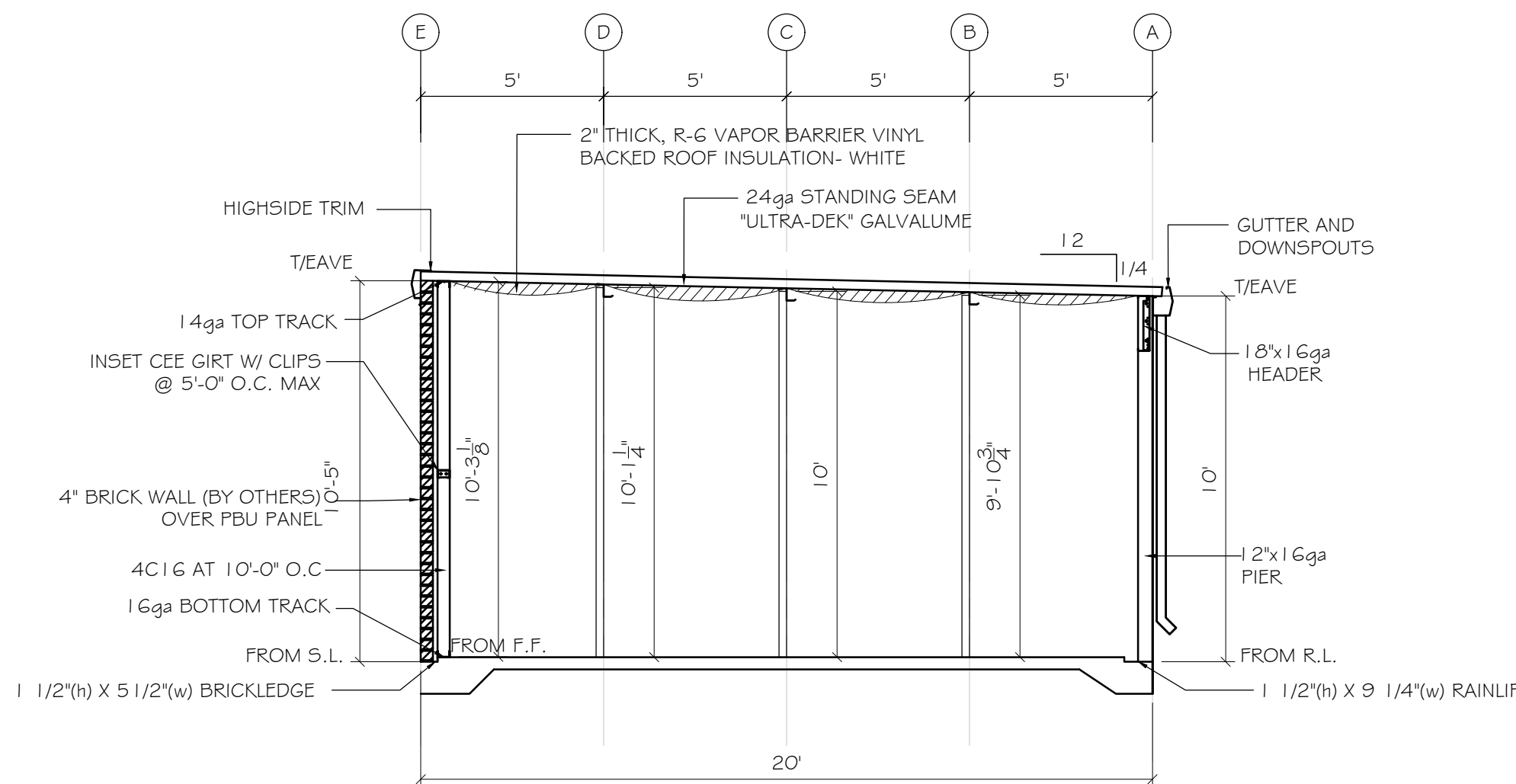
TYPICAL PIER AND HEADER UNLESS INDICATED OTHERWISE

PIER TEX COTE	- 12" X 16ga
CORNER PIER	- 9" X 9" X 16ga
SIDE WALL HEADER	- 18" X 16ga

24ga STANDING SEAM ROOF

DOWNSPOUTS 30' O.C. MAX.
GUTTER EXP. BOX 90' O.C. MAX.

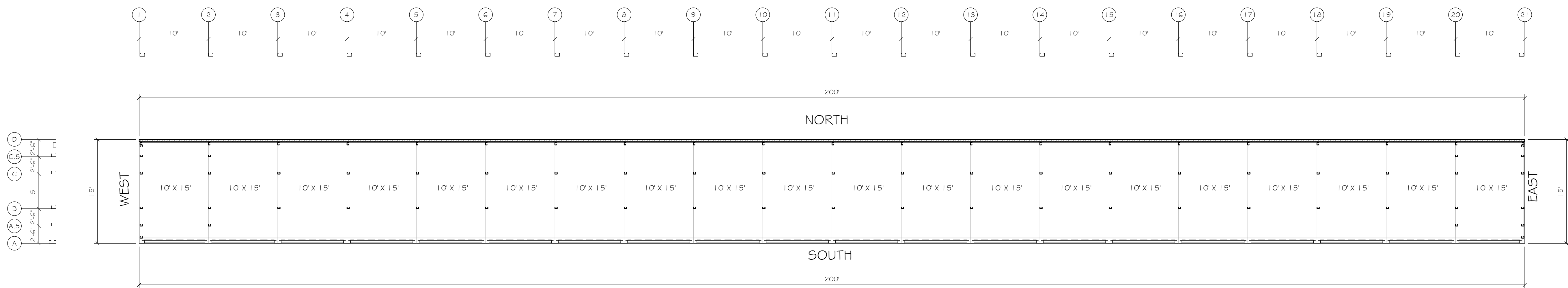
- NOTES:
1. UNLESS NOTED OTHERWISE ON THE PLANS, THE FOLLOWING OUTLINES STANDARD PARTITION HEIGHTS USED FOR DESIGN PURPOSES,
 2. NON-CLIMATE CONTROLLED SINGLE STORY BUILDINGS HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 8" OF THE BOTTOM OF THE ROOF DECK,
 3. CLIMATE CONTROLLED SINGLE STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE ROOF DECK,
 4. CLIMATE CONTROLLED MULTI-STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE FLOOR/ROOF DECK
 5. SHOULD THE PARTITION PANELS NEED TO BE HELD DOWN FURTHER THAN 18" FROM THE BOTTOM OF THE FLOOR/ROOF DECK, THE REQUEST SHALL BE SUBMITTED IN WRITING AND A FORMAL WRITTEN RESPONSE PROVIDED PRIOR TO FABRICATION AND/OR INSTALLATION.



SECTION D-D

SCALE: 1/4" = 1'

NOTE:
VERTICAL COLUMN DIMENSION IS ACTUAL
LENGTH OF CEE FROM F.F. (U.N.O.)

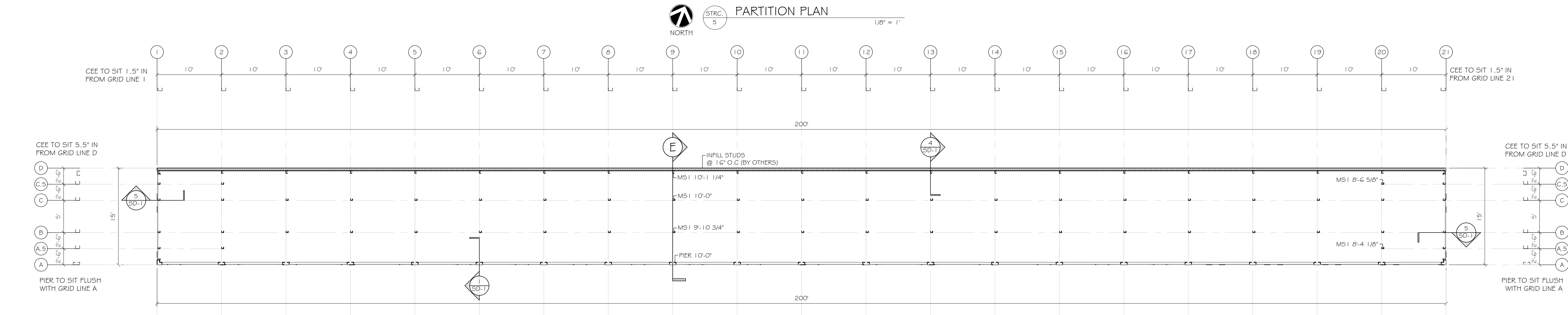


PIER & HEADER FINISHES:

- GALVANEAL PIER & HEADERS REQUIRING FIELD PAINTING.
- VERIFY PAINT COLOR WITH COLOR REQ'D IN LABOR CONTRACT.
- CAULK PIER TO HEADERS AND HEADERS TO HEADERS IF STACKED.
- PRIME ALL EXPOSED SURFACES OF PIER & HEADERS.
- PAINT ALL EXPOSED SURFACES OF PIER & HEADERS WITH PAINT SPECIFIED IN LABOR CONTRACT EVENLY SO PRIMER CAN NOT BE SEEN THROUGH TOP COAT.
- IF TEXTURED, ROLL OUT TO ACHIEVE AND SAND FINISH STUCCO LIKE LOOK.

LINE KEY			
HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"			
PBR, 26GA VERTICAL PERIMETER WALL PANEL			
4" BRICK WALL (BY OTHERS)			

NOTE:
GC/CUSTOMER TO PROVIDE DISTANCE TO HOLD
DOWN PARTITIONS FROM BOTTOM OF ROOF
DECK BEFORE ANY MATERIALS CAN BE ORDERED.



LINE KEY	
	CORNER PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 26GA VERTICAL PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	PBR, 26GA VERTICAL PERIMETER WALL PANEL
	4" BRICK WALL (BY OTHERS)
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	CROSS BEAMS NEED MORE THAN 5' BAY
	HALL WAY SYSTEM
	COLUMNS
	ZEE BEAMS
	THREE HOUR RATED CMU WALL UL # U904
	24ga. ROOF STRAPPING

TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE

COLUMN : M51 = 4C16 - 4'X2 1/2' X 16GA CEE PRIME PAINTED (RED OXIDE)

COLUMN : M52 = 6C16 - 6'X2 1/2' X 16GA CEE PRIME PAINTED (RED OXIDE)

COLUMN : M53 = 6C14 - 6'X2 1/2' X 14GA CEE PRIME PAINTED (RED OXIDE)

COLUMN : M54 = 6C12 - 6'X2 1/2' X 12GA CEE PRIME PAINTED (RED OXIDE)

PURLIN : P1 = 4Z16 - 4'X2 1/2' X 16GA ZEE PRIME PAINTED (RED OXIDE)

PURLIN : P2 = 6Z16 - 6'X2 1/2' X 16GA ZEE PRIME PAINTED (RED OXIDE)

PURLIN : P3 = 6Z12 - 6'X2 1/2' X 12GA ZEE PRIME PAINTED (RED OXIDE)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE	
SINGLE STORY BUILDINGS	
BASE CLIP INSTALLATION 1/2"X3" DEWALT SCREW BOLT+ (OR EQUAL) 1 3/4" EFFECTIVE EMBEDMENT	
BASE TRACK INSTALLATION 1/2"X3" DEWALT SCREW BOLT+ (OR EQUAL) SPACING 3' O.C. (1 3/4" EFFECTIVE EMBEDMENT)	
PIER INSTALLATION 1/2"X3" DEWALT SCREW BOLT+ (OR EQUAL) @ EA. PIER (1 3/4" EFFECTIVE EMBEDMENT)	

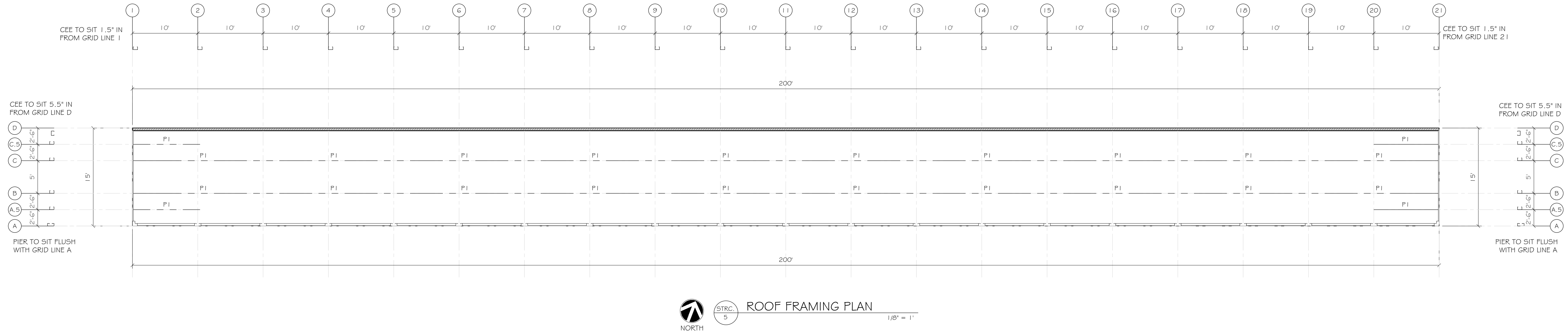
ANCHOR SCHEDULE		FASTENERS AND ANCHORS ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS									
ANCHOR TYPE	ANCHOR NAME	ICC-ES #	ANCHOR DIA.(IN)	MIN BASE MATERIAL THICKNESS (IN)	(MIN. OR NOM) / MAX. OR REF.) EMBEDMENT (IN.)	MIN ANCHOR SPACING (IN)	MIN EDGE / END DISTANCE (IN)	ALLOWABLE BASE MATERIAL			
								CONC.	LW CONC.	CONC. OVER STEEL DECK	GF CMU
EPOXY	AC108+GOLD	ESR-2582	1/2" dia.	4" [CONC]	2-3/4"(MIN) / 6" MAX	2-1/2"	2-1/2"	X	X		X
		[CONC]	3/4" dia.	5-3/4" [CONC]	3-1/2"(MIN) / 9" MAX	3-3/4"	3-3/4"				
		ESR-3200	1/2" dia.	8" GF CMU	4" (MIN)	(1) PER CELL	4"				
		[CMU]	3/4" dia.	8" GF CMU	6" (MIN)	(1) PER CELL	4"				
MECHANICAL	POWER STUD +SD1	ESR-2818	1/2" dia.	4" [CONC]	2-1/2"(NOM) / 2" (EFF)	4-1/2"	6"	X	X	X	
		[CONC]	3/4" dia.	6" [CONC]	4"(NOM) / 2" (EFF)	6"	6"				
		ESR-2966	3/8" dia.	8" GF CMU	2-1/2"(MIN)	(1) PER CELL	4"				
		[CONC]	1/2" dia.	8" GF CMU	4-3/4"(MIN)	(1) PER CELL	12"				
	POWER STUD +S02	ESR-2502	1/2" dia.	4-1/2" [CONC]	2-1/2"(NOM) / 2" (EFF)	6"	8"	X	X	X	
		[CONC]	3/4" dia.	7" [CONC]	4-1/2"(NOM) / 3-3/4" (EFF)	6"	12"				
			3/8" dia.	2" [CONC OVER STL DECK]	2-3/8"(NOM) / 2" (EFF)	1-1/2"	4"				
			1/2" dia.	2" [CONC OVER STL DECK]	2-1/2"(NOM) / 2" (EFF)	8"	4"				
DIRECT FASTEN	SCREW-BOLT+	ESR-3689	1/4" dia.	8" GF [CONC]	2-1/2" (MIN.)	4"	2"				
			1/2" dia.	8" GF [CONC]	3-1/4" (MIN.)	6"	3"				
			1/2" dia.	3" [CONC]	1-5/8"(NOM) / 1-2" (EFF)	1-1/2"	1-1/2"	X	X	X	X
			3/4" dia.	3" [CONC]	2"(NOM) / 1-1/3" (EFF)	2"	1-1/2"				
			3/8" dia.	3" [CONC]	2-1/2"(NOM) / 1-3/4" (EFF)	2-3/4"	1-3/4"				
			1/2" dia.	3-3/4" [CONC]	4-1/4"(NOM) / 3-0" (EFF)	3"	1-3/4"				
			1/4" dia.	2" [CONC OVER STL DECK]	1-5/8"(NOM) / 1-2" (EFF)	1-1/2"	1-1/2"				
			3/8" dia.	2" [CONC OVER STL DECK]	2"(NOM) / 1.33" (EFF)	2"	2"				
	CSI SPIRAL DRIVE FINIS	ESR-2024	1/2" dia.	2" [CONC OVER STL DECK]	2-1/2"(NOM) / 1-3/4" (EFF)	2-1/2"	2-1/2"	X	X	X	X
			3/4" dia.	8" GF CMU	4-1/4"(MIN)	(1) PER CELL	4"				
			1/2" dia.	8" GF CMU	6-1/4"(MIN)	(1) PER CELL	4"				
			0157 dia	3/16" (STEEL)	FASTENER POINT MUST PENETRATE STEEL MEMBER	1-1/2"	1/2"				

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NO.	BY	ISSUE	DATE	
1	FOR	PERMIT COMMENTS	1/4/2024	
2	HH	CUSTOMER COMMENTS	1/4/2025	
3	HH	CHANGE ORDER	2/25/2025	

ENGINEER STAMP

ENGINEER
ROBERT M. BEATTIE, PE
NORTH CAROLINA PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2025
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2025
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2025
REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE: 12/31/2025

SHEET TITLE
STRC. 5
PARTITION PLAN &
COLUMN FRAMING PLAN
DATE 09-21-23
DRAWN BY FOR 5
CHECKED BY XXX
JOB NO. E-2726
SCALE AS NOTED
SHEET



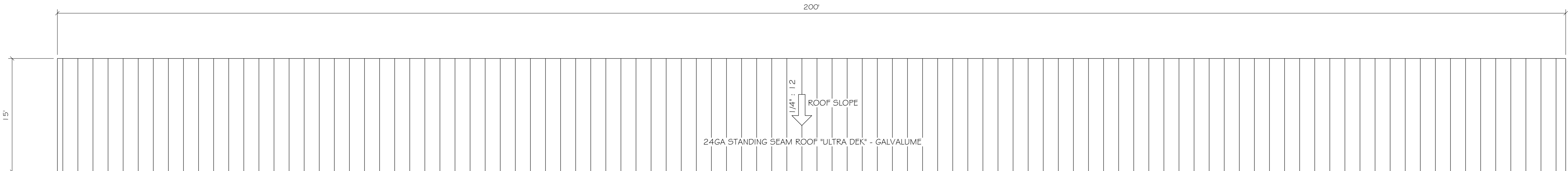
STRC.
5

ROOF FRAMING PLAN

1/8" = 1'

TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE
COLUMN : MS1 = 4C16 - 4X2 1/2' X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS2 = 6C16 - 6X2 1/2' X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS3 = 6C14 - 6X2 1/2' X 14GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS4 = 6C12 - 6X2 1/2' X 12GA CEE PRIME PAINTED (RED OXIDE)
PURLIN : P1 = 4Z16 - 4X2 1/2' X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P2 = 6Z16 - 6X2 1/2' X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P3 = 6Z12 - 6X2 1/2' X 12GA ZEE PRIME PAINTED (RED OXIDE)

LINE KEY
CORNER PIER, HEADER, PIER
PBR, 26GA VERTICAL PERIMETER WALL PANEL
HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
CROSS BEAMS NEED MORE THAN 5' BAY
HALL WAY SYSTEM
COLUMNS
ZEE BEAMS
THREE HOUR RATED CMU WALL UL # U904
24ga. ROOF STRAPPING



STRUCTURE 5
ROOF PLAN

SCALE: 1/8" = 1'

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3	HH	CHANGE ORDER	2/25/2025	

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STORAMERICA - MCCORDSVILLE
MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER	
ROBERT M. BEATTIE, PE	
1000 WEST 10TH AVENUE, SUITE 200, DENVER, CO 80202 TELEPHONE: 303.733.1111, 303.733.1112, 303.733.1113 FAX: 303.733.1114, 303.733.1115, 303.733.1116 WWW.MAKORABCO.COM	
ROBERT M. BEATTIE, PE	PE # 0101242
RESIDENTIAL: BEATTIE IN PRESENT PRACTICE AS AN ENGINEER FOR MAKORABCO, INC. THE ENGINEER'S SEAL AND SIGNATURE ARE REQUIRED ON ALL RESIDENTIAL PROJECTS. THE ENGINEER'S SEAL AND SIGNATURE ARE NOT REQUIRED ON ALL COMMERCIAL PROJECTS. THE ENGINEER'S SEAL AND SIGNATURE ARE NOT REQUIRED ON ALL INDUSTRIAL PROJECTS.	

SHEET TITLE	
STRC. 5	
ROOF FRAMING PLAN & ROOF PLAN	
DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

S-5.1

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1	FOR	PERMIT COMMENTS	1/4/2024	
2	HH	CUSTOMER COMMENTS	1/4/2025	
3	HH	CHANGE ORDER	2/25/2025	

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STORAMERICA - MCCORDSVILLE

MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER

ROBERT M. BEATTIE, PE

PROFESSIONAL ENGINEER
STATE OF INDIANA
LICENSE NO. 12345
EXPIRATION DATE 12/31/2026
TECHNICAL SUPPORT: 467-743-8774 EMAIL: rbeattie@makorabco.com

ROBERT M. BEATTIE, PE
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OFFICE: 467-743-8774
CELL: 317-456-7890
FAX: 467-743-8775
WWW.MAKORABCO.COM

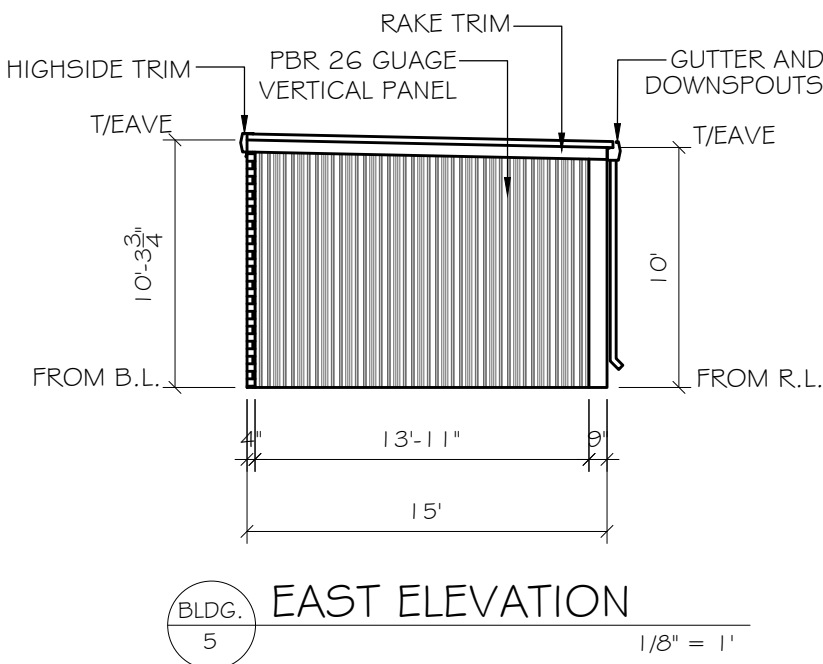
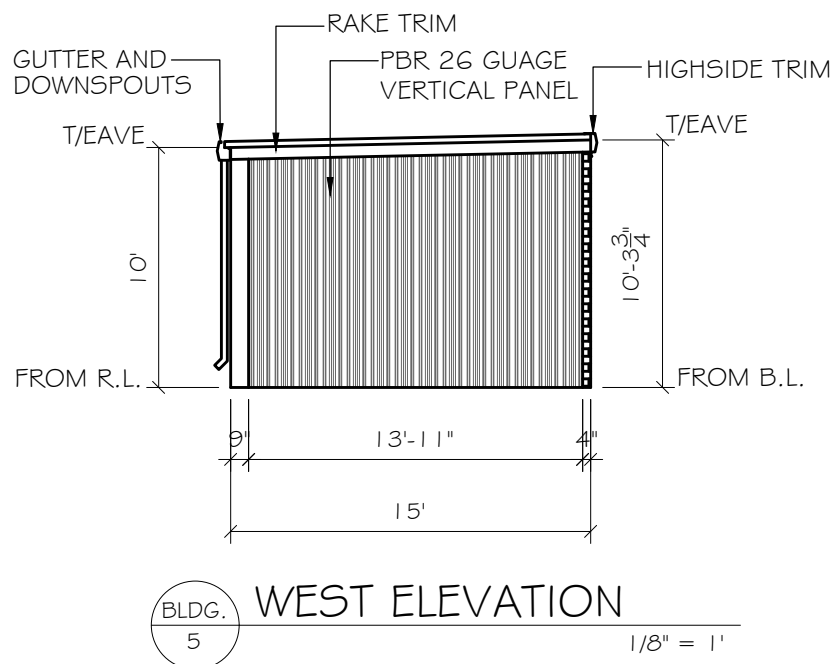
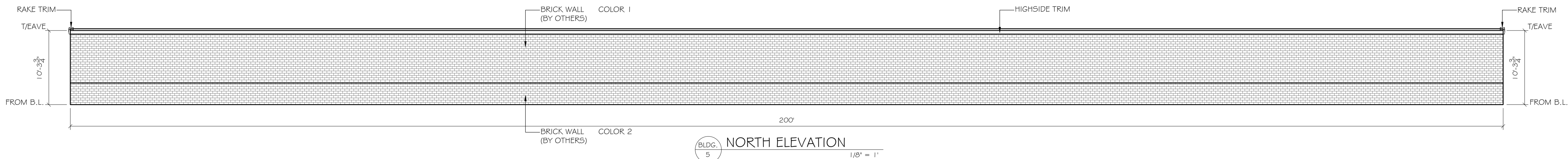
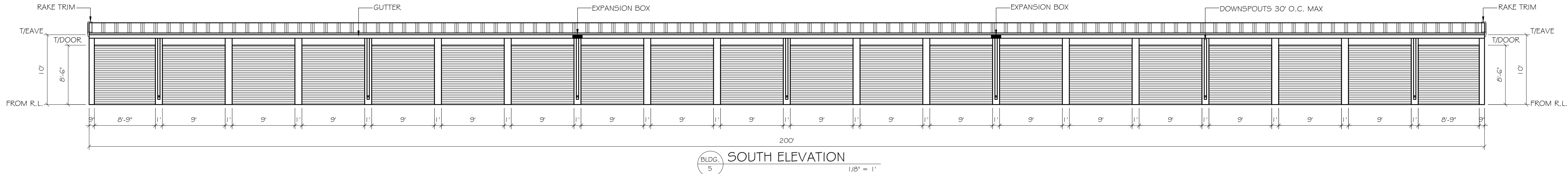
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STRC. 5

ELEVATIONS & SECTION

DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

S-5.2



NOTES:
ALL MAN DOORS, ROLL-UP DOORS, SLIDING GLASS DOORS, WINDOWS AND TRANSOMS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION TO ENSURE PROPER FIT. G.C./SUBCONTRACTOR SHALL NOT FABRICATE FROM THE CONSTRUCTION DOCUMENTS. SHOULD THE G.C./ SUBCONTRACTOR CHOOSE TO FABRICATE THE PREVIOUSLY REFERENCED ITEMS FROM THE CONTRACT/PROPOSAL DOCUMENTS AND NOT FROM THE FIELD THEY DO SO AT THEIR OWN RISK AND ANY AND ALL MODIFICATIONS REQUIRED AS A RESULT SHALL BE AT THEIR OWN EXPENSE.

NOTE:
GC SHALL COORDINATE ALL T/CMU WALL HEIGHTS WITH RABCO ENTERPRISES, LLC PRIOR TO CONSTRUCTION TO ENSURE PROPER FIT OF THE METAL BUILDING COMPONENTS. FAILURE TO GET WRITTEN APPROVAL PRIOR TO ERRECTING THE CMU WALLS MAY RESULT IN NEEDED MODIFICATIONS TO EITHER THE CMU WALL AND/OR THE METAL BUILDING COMPONENTS AT THE G.C.'S EXPENSE.

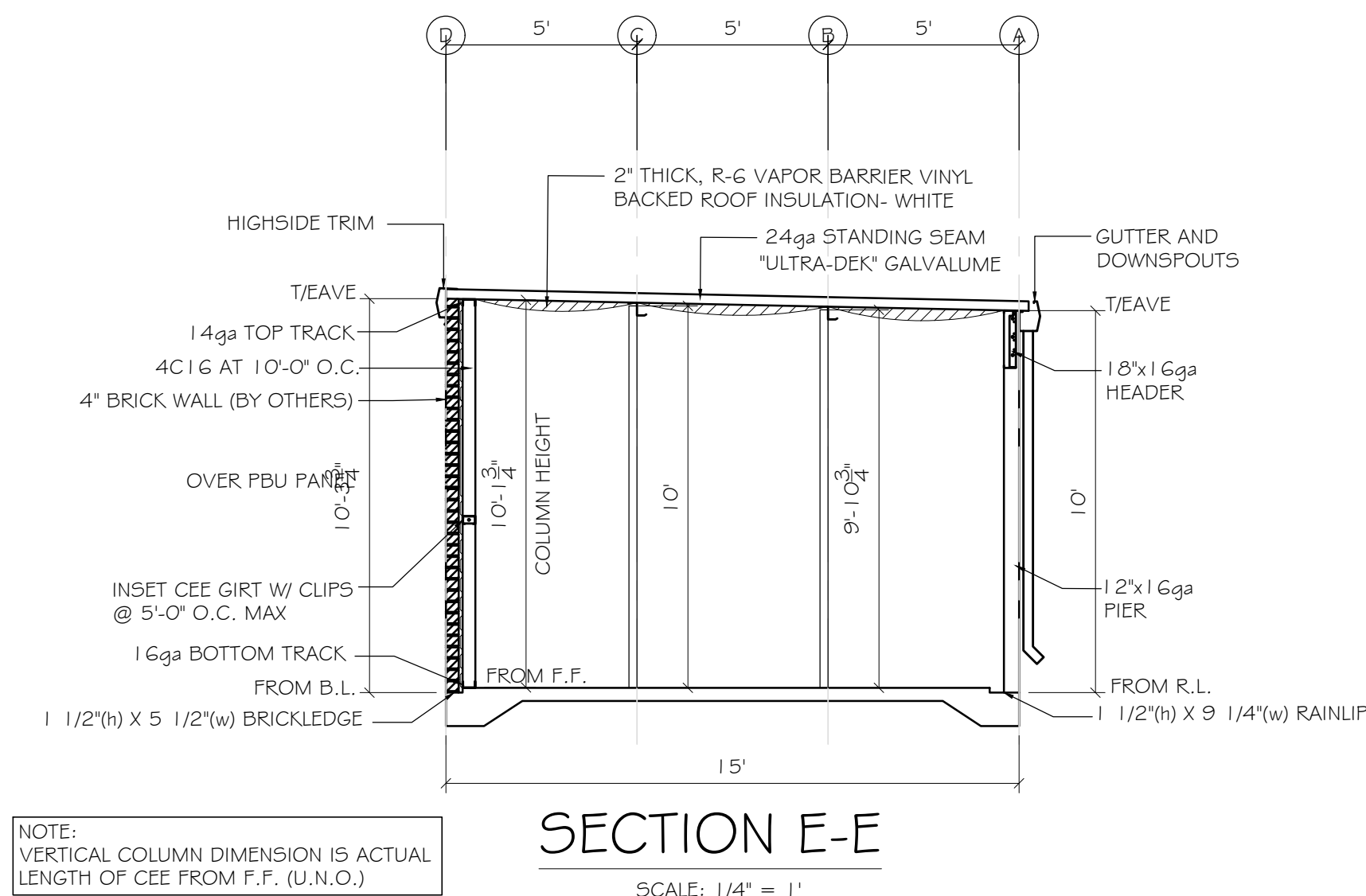
TYPICAL PIER AND HEADER UNLESS INDICATED OTHERWISE

PIER TEX COTE	- 12" X 16ga
CORNER PIER	- 9" X 9" X 16ga
SIDE WALL HEADER	- 18" X 16ga

24ga STANDING SEAM ROOF
"ULTRA DEK" - GALVALUME

DOWNSPOUTS 30' O.C. MAX.
GUTTER EXP. BOX 90' O.C. MAX.

- NOTES:
- UNLESS NOTED OTHERWISE ON THE PLANS, THE FOLLOWING OUTLINES STANDARD PARTITION HEIGHTS USED FOR DESIGN PURPOSES.
 - NON-CLIMATE CONTROLLED SINGLE STORY BUILDINGS HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 8" OF THE BOTTOM OF THE ROOF DECK.
 - CLIMATE CONTROLLED SINGLE STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE ROOF DECK.
 - CLIMATE CONTROLLED MULTI-STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE FLOOR/ROOF DECK.
 - SHOULD THE PARTITION PANELS NEED TO BE HELD DOWN FURTHER THAN 18" FROM THE BOTTOM OF THE FLOOR/ROOF DECK, THE REQUEST SHALL BE SUBMITTED IN WRITING AND A FORMAL WRITTEN RESPONSE PROVIDED PRIOR TO FABRICATION AND/OR INSTALLATION.



MAKORABCO

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ENGINEER STAMP

ENGINEER	<p>ROBERT M. BEATTIE, PE</p>
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<p>MAN: 301.974.0000 FAX: 301.974.4219 WEB: WWW.BEATTIE.COM ADDRESS: 1000 REES LANE, SUITE 100, ROCKVILLE, MD 20850</p>	<p>ROBERT M. BEATTIE, PE 427.751.5757 FAX: 427.751.5758 WWW.BEATTIE.COM</p>
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SHEET TITLE

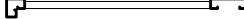











STRC. 6
ROOF FRAMING PLAN

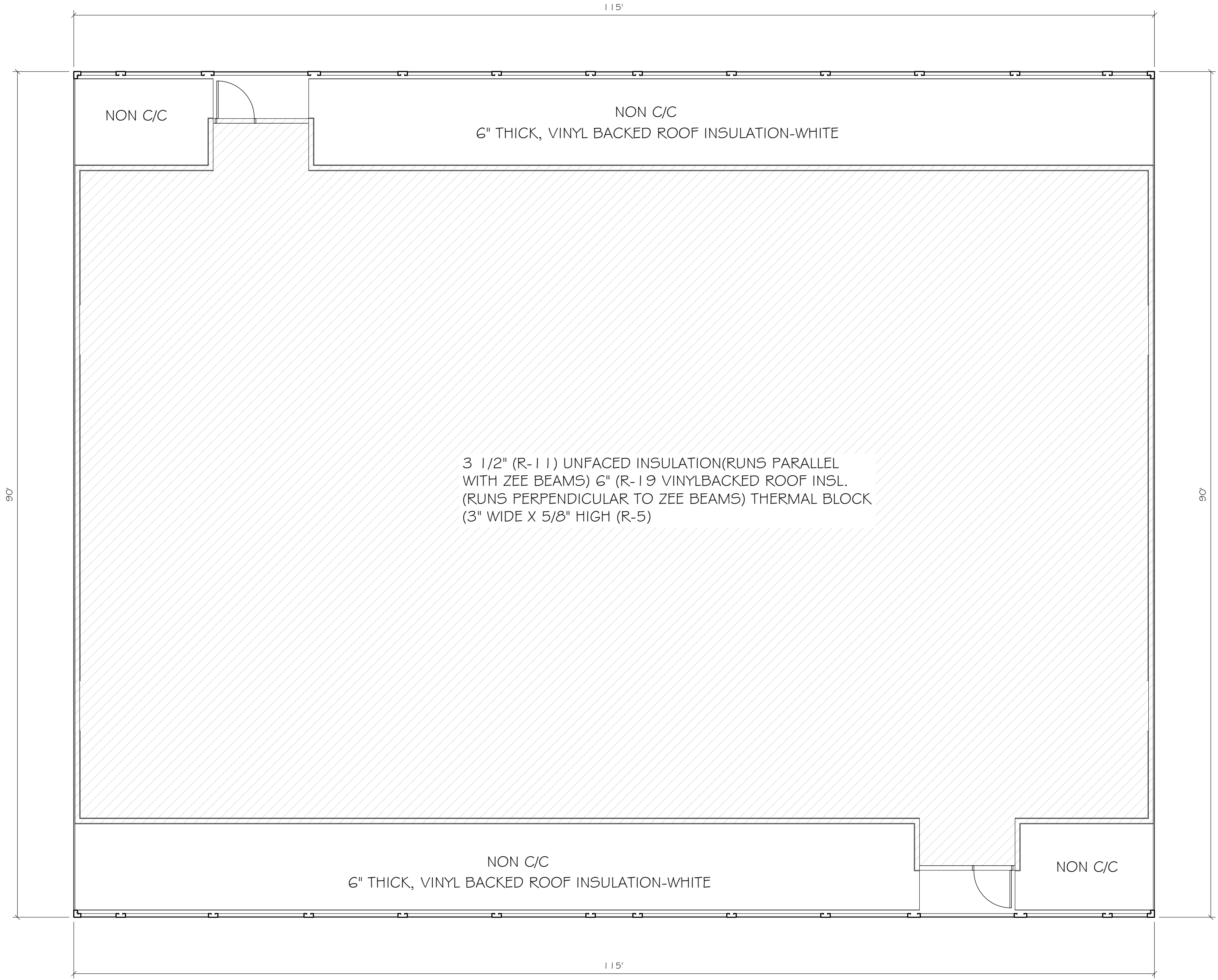
DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

S-6.2



TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE
COLUMN : M51 = 4C16 - 4X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : M52 = 6C16 - 6X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : M53 = 6C31 - 6X2 1/2" X 14GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : M54 = 6C12 - 6X2 1/2" X 12GA CEE PRIME PAINTED (RED OXIDE)
FURLIN : P1 = 4Z16 - 4X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
FURLIN : P2 = 6Z16 - 6X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
FURLIN : P3 = 6Z12 - 6X2 1/2" X 12GA ZEE PRIME PAINTED (RED OXIDE)

LINE KEY	
	CORNER PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 26GA VERTICAL PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	PBR, 26GA VERTICAL PERIMETER WALL PANEL
	4" BRICK WALL (BY OTHERS)
	HORIZONTAL PARTITION WALL 29GA GALVALUME TYPE 'U'
	CROSS BEAMS NEED MORE THAN 5' BAY
	HALL WAY SYSTEM
	COLUMNS
	ZEE BEAMS
	THREE HOUR RATED CMU WALL U.I. # U904
	24ga. ROOF STRAPPING



STRUCTURE 6
INSULATION PLAN
SCALE: 1/8" = 1'

NOTE:
INSULATION BACKING SHALL BE INSTALLED ON THE INTERIOR SIDE
OF FRAMED WALLS IN CLIMATE ZONES 5, 6, 7, 8 AND MARINE 4 AS
DEFINED IN CHAPTER #3 OF THE INTERNATIONAL ENERGY
CONSERVATION CODE.

MAKORABCO
1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34787
TEL: 888-333-3333 FAX: 888-333-3333
WWW.MAKORABCO.COM

MAKORABCO
1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34787
TEL: 888-333-3333 FAX: 888-333-3333
WWW.MAKORABCO.COM

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1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34787
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MCCORDSVILLE, IN 46055

ENGINEER STAMP

ROBERT M. BEATTIE, PE
1041 CROWN PARK CIRCLE WINTER GARDEN, FL 34787
TEL: 888-333-3333 FAX: 888-333-3333
WWW.MAKORABCO.COM

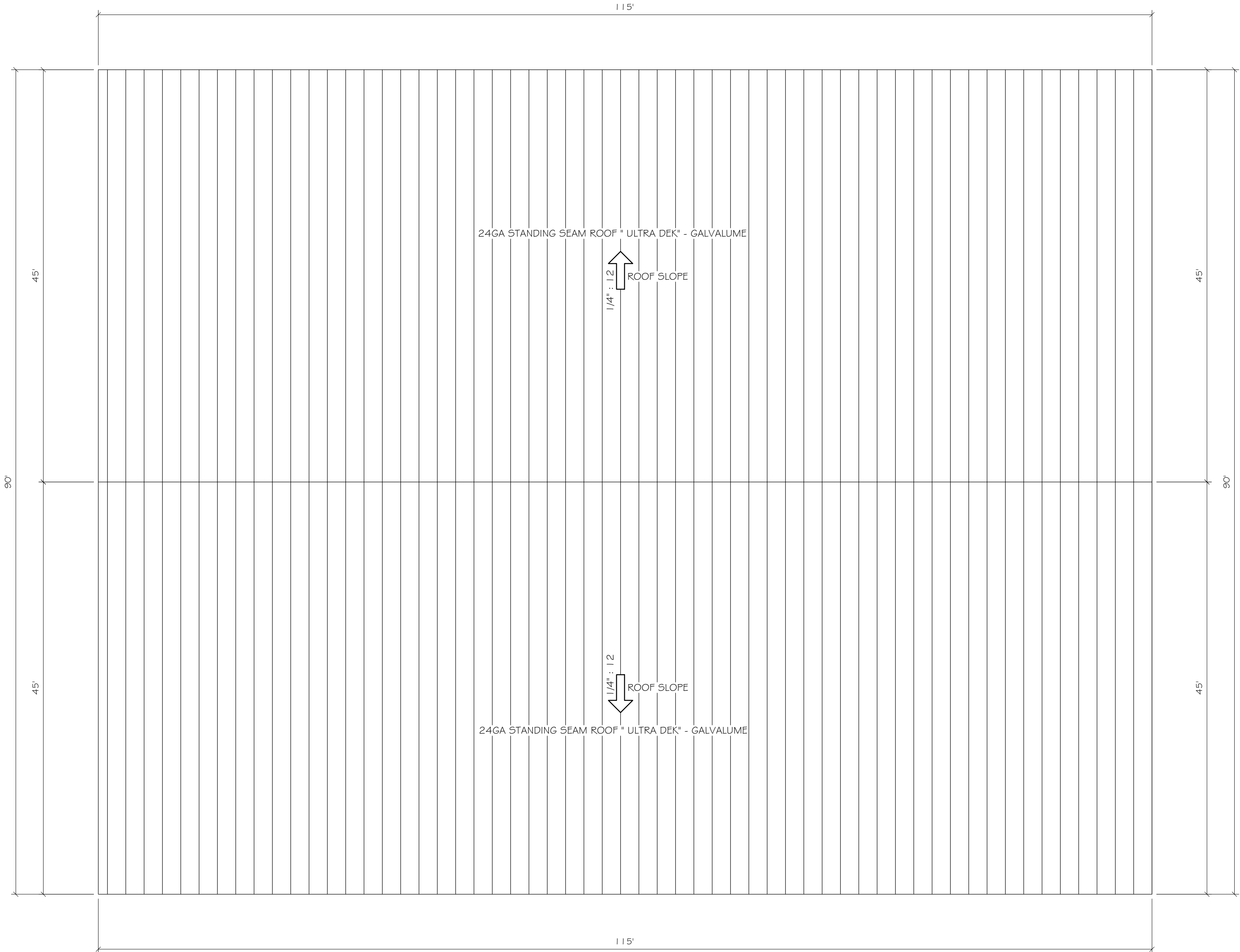
REGISTERED PROFESSIONAL ENGINEER
STATE OF FLORIDA
EXPIRATION DATE: 12/31/2025
EXPIRATION DATE: 12/31/2025
EXPIRATION DATE: 12/31/2025

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SHEET TITLE

STRC. 6
INSULATION PLAN

DATE: 09-21-23
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JOB NO.: E-2726
SCALE: AS NOTED
SHEET



STRUCTURE 6
ROOF PLAN
SCALE: 1/8" = 1'

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1041 CROWN PARK CIRCLE
WINTER GARDEN, FL 34787
TEL: 888-399-0220
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MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER

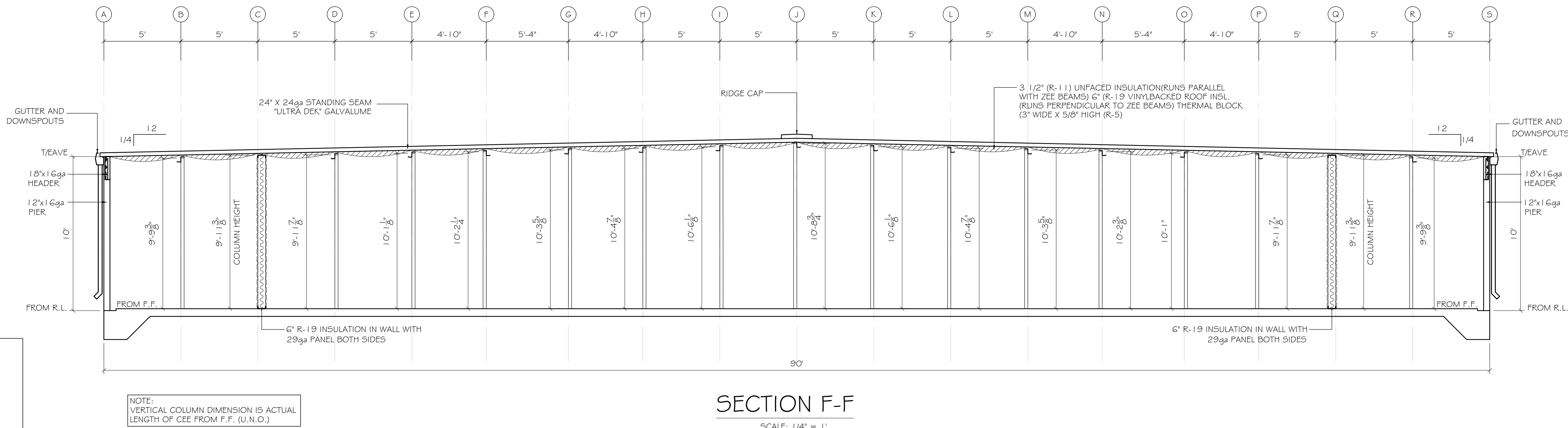
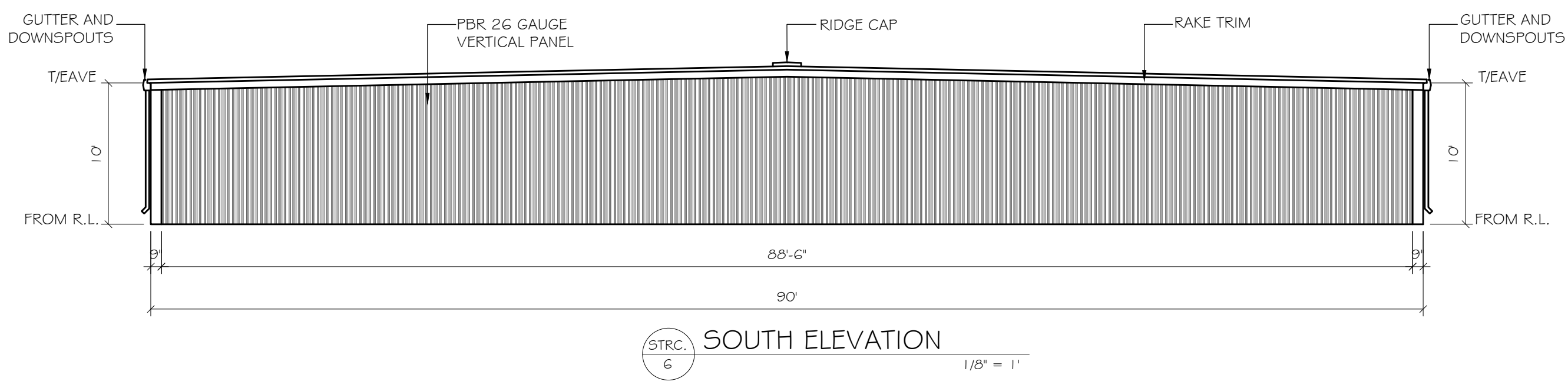
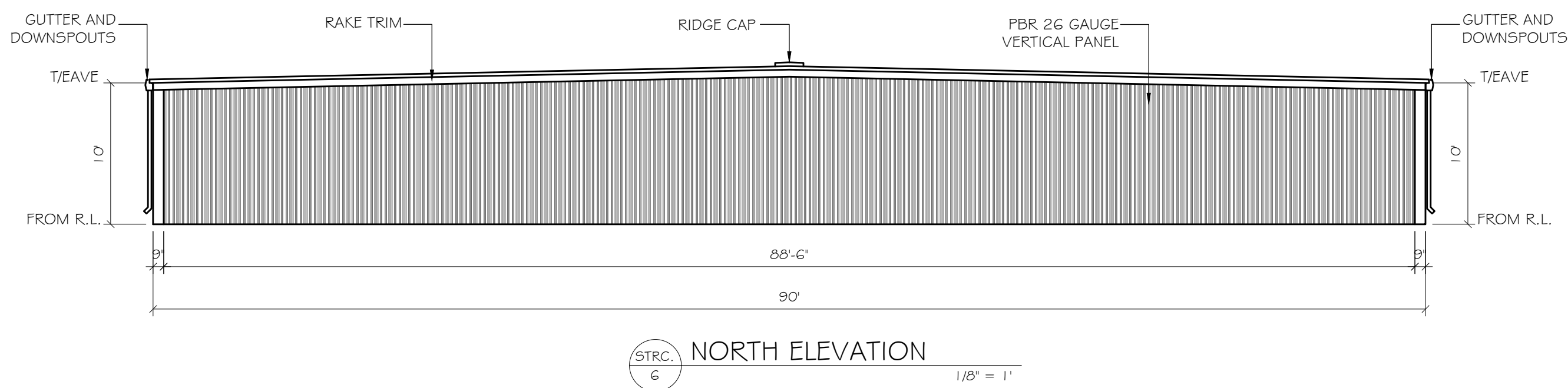
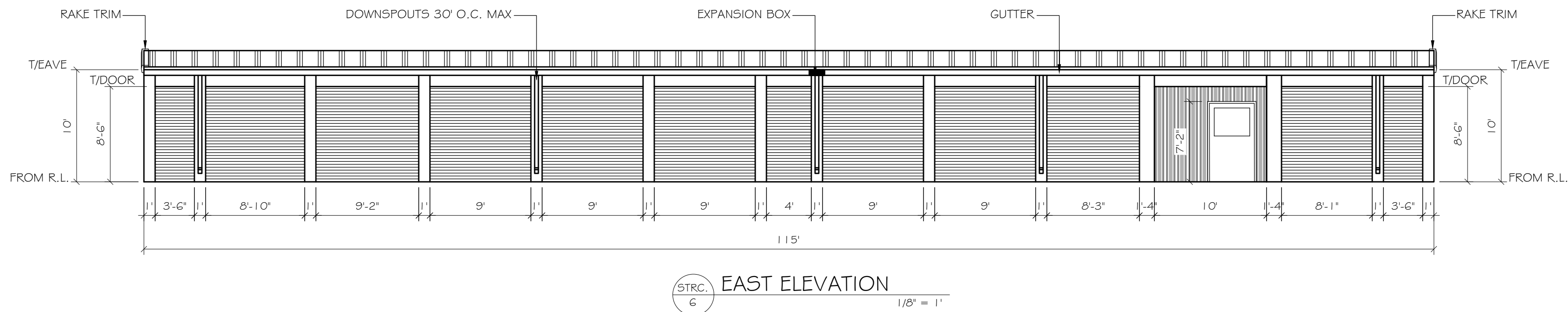
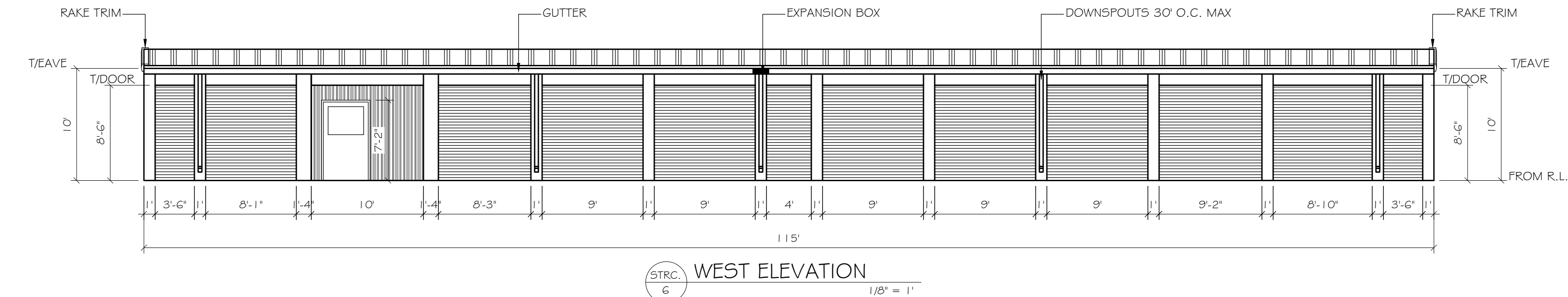
ROBERT M. BEATTIE, PE
1041 CROWN PARK CIRCLE, WINTER GARDEN, FL 34787
TEL: 888-399-0220
WWW.MAKORABCO.COM

REGISTERED PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE NO. 12345
EXPIRATION DATE: 12/31/2025

MAKORABCO
1041 CROWN PARK CIRCLE
WINTER GARDEN, FL 34787
TEL: 888-399-0220
WWW.MAKORABCO.COM

SHEET TITLE
STRC. 6
ROOF PLAN

DATE: 09-21-23
DRAWN BY: FOR: 5
CHECKED BY: xxx
JOB NO.: E-2726
SCALE: AS NOTED
SHEET



- NOTES:
- UNLESS NOTED OTHERWISE ON THE PLANS, THE FOLLOWING OUTLINES STANDARD PARTITION HEIGHTS USED FOR DESIGN PURPOSES.
 - NON-CLIMATE CONTROLLED SINGLE STORY BUILDINGS HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 8" OF THE BOTTOM OF THE ROOF DECK.
 - CLIMATE CONTROLLED SINGLE STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE ROOF DECK.
 - CLIMATE CONTROLLED MULTI-STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE FLOOR/ROOF DECK.
 - SHOULD THE PARTITION PANELS NEED TO BE HELD DOWN FURTHER THAN 18" FROM THE BOTTOM OF THE FLOOR/ROOF DECK, THE REQUEST SHALL BE SUBMITTED IN WRITING AND A FORMAL WRITTEN RESPONSE PROVIDED PRIOR TO FABRICATION AND/OR INSTALLATION.

NOTES:
ALL MAIN DOORS, ROLL-UP DOORS, SLIDING GLASS DOORS, WINDOWS AND TRANSOMS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION TO ENSURE PROPER FIT. G.C./SUBCONTRACTOR SHALL NOT FABRICATE FROM THE CONSTRUCTION DOCUMENTS. SHOULD THE G.C./ SUBCONTRACTOR CHOOSE TO FABRICATE THE PREVIOUSLY REFERENCED ITEMS FROM THE CONTRACT/PROPOSAL DOCUMENTS AND NOT FROM THE FIELD THEY DO SO AT THEIR OWN RISK AND ANY AND ALL MODIFICATIONS REQUIRED AS A RESULT SHALL BE AT THEIR OWN EXPENSE.

NOTE:
GC SHALL COORDINATE ALL T/CMU WALL HEIGHTS WITH RABCO ENTERPRISES, LLC PRIOR TO CONSTRUCTION TO ENSURE PROPER FIT OF THE METAL BUILDING COMPONENTS. FAILURE TO GET WRITTEN APPROVAL PRIOR TO ERECTING THE CMU WALLS MAY RESULT IN NEEDED MODIFICATIONS TO EITHER THE CMU WALL AND/OR THE METAL BUILDING COMPONENTS AT THE G.C.'S EXPENSE.

TYPICAL PIER AND HEADER UNLESS INDICATED OTHERWISE

PIER TEX COTE - 12" X 16ga
CORNER PIER - 9" X 9" X 16ga
SIDE WALL HEADER - 18" X 16ga

24ga STANDING SEAM ROOF
"ULTRA DEK" - GALVALUME

DOWNSPOUTS 30' O.C. MAX.
GUTTER EXP. BOX 90' O.C. MAX.

MARKUPS / REVISIONS				
NO.	BY	ISSUE	DATE	
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STORAMERICA - MCCORDSVILLE
MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER	
ROBERT M. BEATTIE, PE	
1000 WEST 10TH AVENUE, SUITE 200, CHICAGO, IL 60606 TELEPHONE: (773) 462-1111 FAX: (773) 462-1112 E-MAIL: RBEATTIE@RBEATTIE.COM	
ROBERT M. BEATTIE, PE	PE # 010 0262
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SHEET TITLE	
STRC. 6	ELEVATIONS & SECTION
DATE	09-21-23
DRAWN BY	FOR 5
CHECKED BY	XXX
JOB NO.	E-2726
SCALE	AS NOTED
SHEET	

S-6.5

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EAST COAST OFFICE: 1041 CROWN PARK CIRCLE WHITE RIDGE, FL 34707 PHONE: (800) 369-0220

ENGINEER STAMP

SHEET TITLE

S-7.1



TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE
COLUMN : MS1 = 4C16 . 4'X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS2 = 6C16 . 6'X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS3 = 6C14 . 6'X2 1/2" X 14GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS4 = 6C12 . 6'X2 1/2" X 12GA CEE PRIME PAINTED (RED OXIDE)
PURLIN : P1 = 4Z16 . 4'X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P2 = 6Z16 . 6'X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P3 = 6Z12 . 6'X2 1/2" X 12GA ZEE PRIME PAINTED (RED OXIDE)

LINE KEY	
	CORNER PIER, HEADER, PIER
	6\" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 26GA VERTICAL PANEL EXTERIOR
	6\" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	PBR, 26GA VERTICAL PERIMETER WALL PANEL
	4\" BRICK WALL (BY OTHERS)
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE \"U\"
	CROSS BEAMS NEED MORE THAN 5' BAY
	WALL WAY SYSTEM
	COLUMNS
	ZEE BEAMS
	THREE HOUR RATED CMU WALL UL # U304
	24ga. ROOF STRAPPING

MARKUPS / REVISIONS				
NO.	BY	ISSUE	DATE	
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2	HH	CUSTOMER COMMENTS	1/4/2025	
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STORAMERICA - MCCORDSVILLE

MCCORDSVILLE, IN 46055

ENGINEER STAMP

ENGINEER

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SHEET TITLE

STRC. 7

ROOF FRAMING PLAN

DATE

09-21-23

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JOB NO.

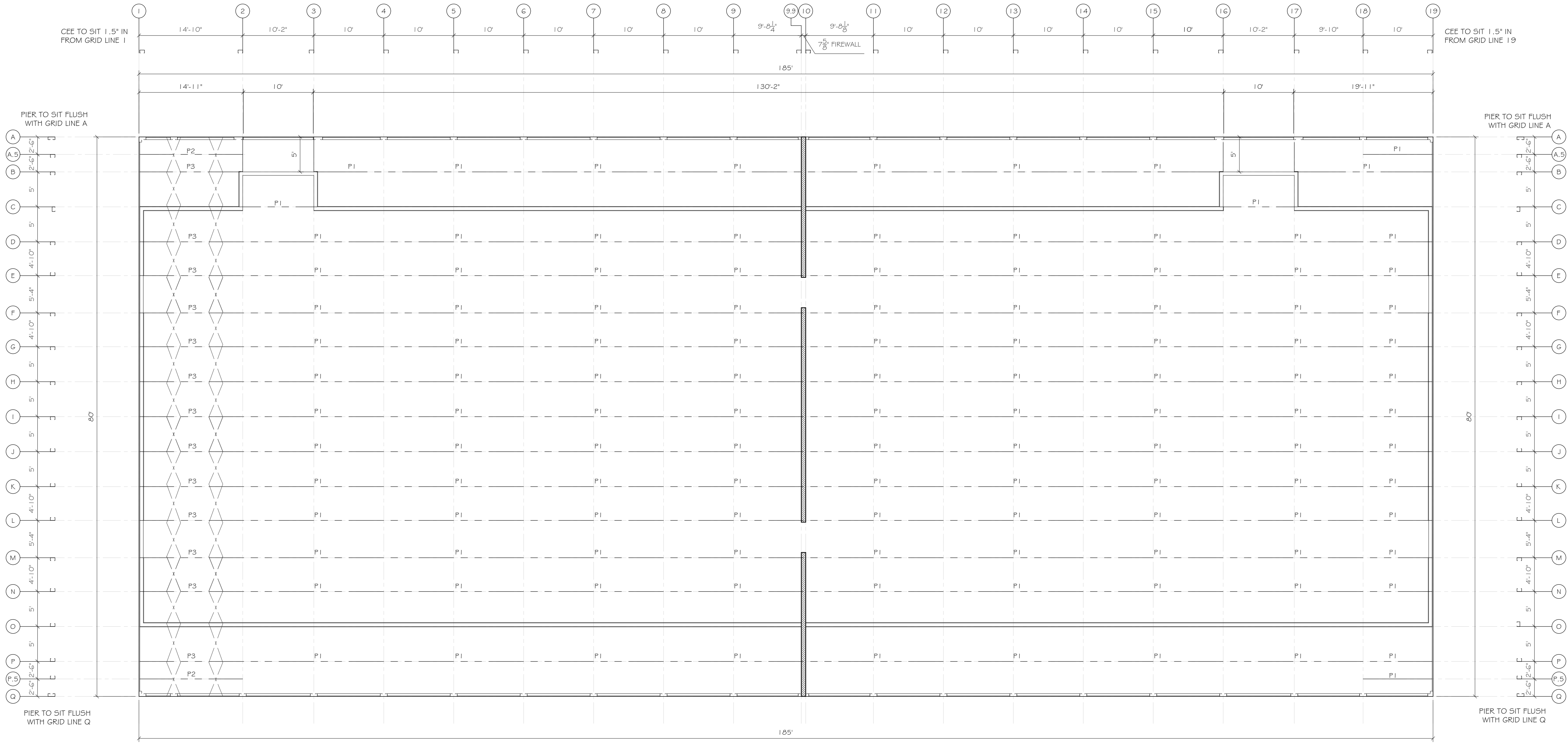
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SCALE

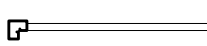











AS NOTED

SHEET

S-7.2



ROOF FRAMING PLAN
1/8" = 1'

LINE KEY	
	CORNER PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 26GA VERTICAL PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	PBR, 26GA VERTICAL PERIMETER WALL PANEL
	4" BRICK WALL (BY OTHERS)
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	CROSS BEAMS NEED MORE THAN 5' BAY
	HALL WAY SYSTEM
	COLUMNS
	ZEE BEAMS
	THREE HOUR RATED CMU WALL UL # U904
	24ga. ROOF STRAPPING

TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE
COLUMN : MS1 = 4C16 - 4'X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS2 = 6C16 - 6'X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS3 = 6C14 - 6'X2 1/2" X 14GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS4 = 6C12 - 6'X2 1/2" X 12GA CEE PRIME PAINTED (RED OXIDE)
PURLIN : P1 = 4Z16 - 4'X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P2 = 6Z16 - 6'X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P3 = 6Z12 - 6'X2 1/2" X 12GA ZEE PRIME PAINTED (RED OXIDE)

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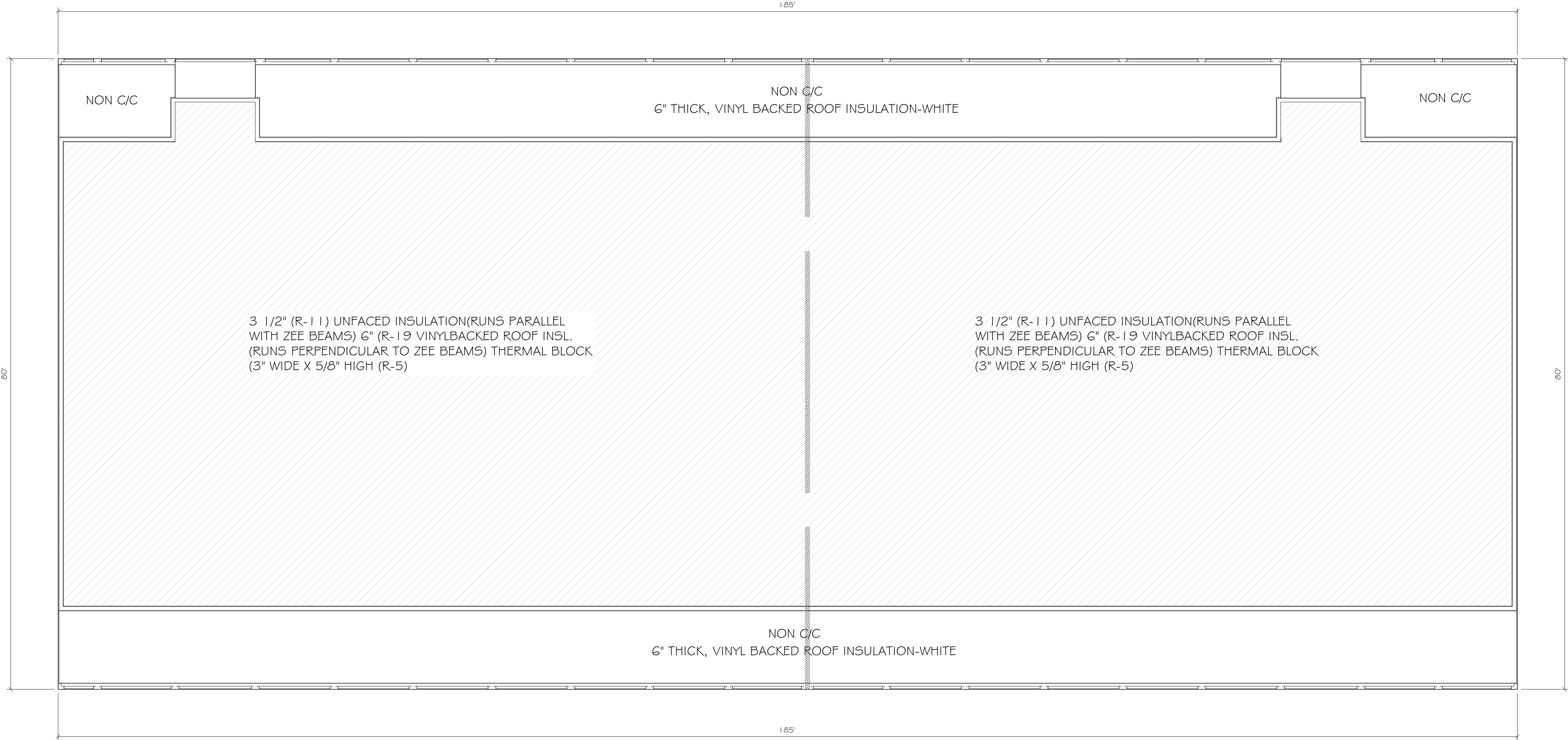
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SHEET TITLE

STRC. 7
INSULATION PLAN

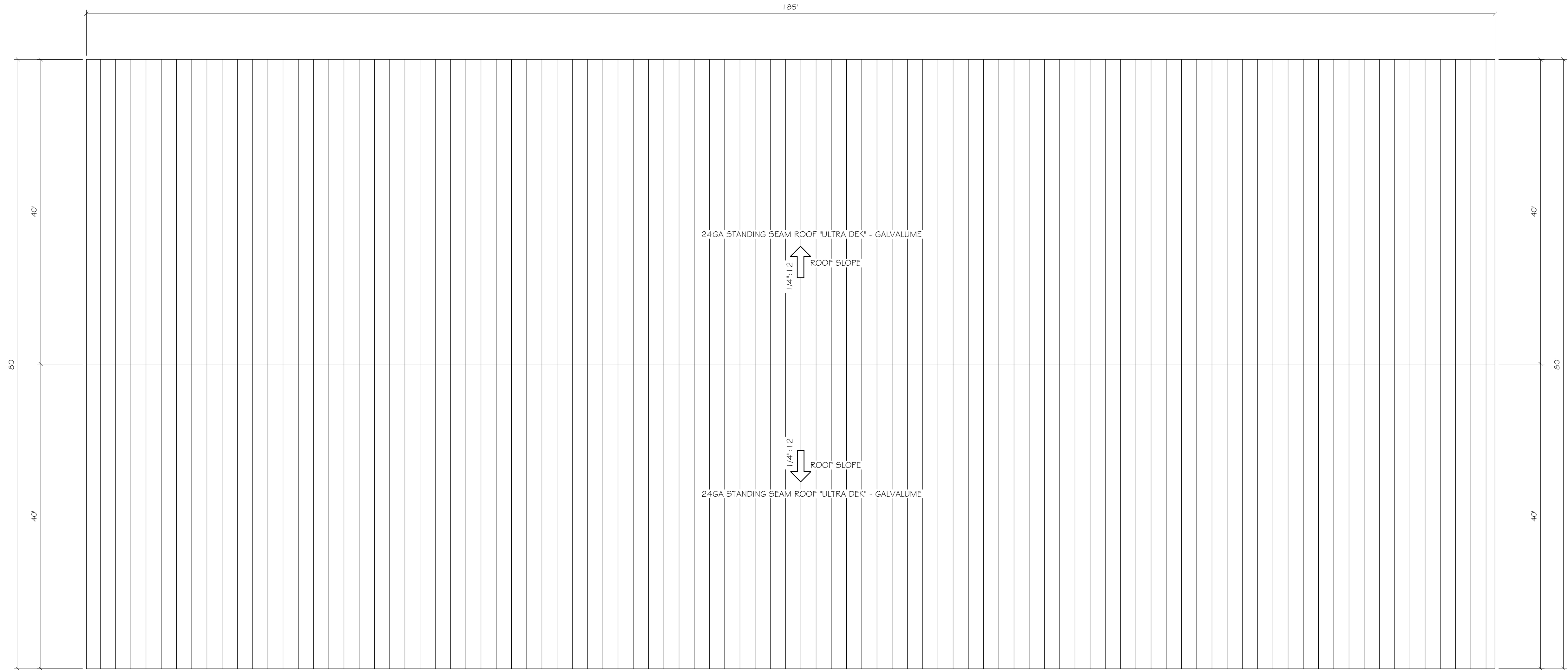
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DB NO.	E-2726
SCALE	AS NOTED
SHEET	

S-7.3



STRUCTURE 7
INSULATION PLAN
SCALE: 1/8" = 1'

NOTE:
INSULATION BACKING SHALL BE INSTALLED ON THE INTERIOR SIDE OF FRAMED WALLS IN CLIMATE ZONES 5, 6, 7, 8 AND MARINE 4 AS DEFINED IN CHAPTER #3 OF THE INTERNATIONAL ENERGY CONSERVATION CODE.



STRUCTURE 7
ROOF PLAN
SCALE: 1/8" = 1'

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SHEET TITLE

STRC. 7
ROOF PLAN

DATE 09-21-23
DRAWN BY FOR 5
CHECKED BY xxx
JOB NO. E-2726
SCALE AS NOTED
SHEET

MARKUPS / REVISIONS				
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STORAMERICA - MCCORDSVILLE

MCCORDSVILLE, IN 46055

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ELEVATIONS

DATE 09-21-23

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JOB NO. E-2726

SCALE AS NOTED

SHEET

S-7.5

NOTES:
ALL MAN DOORS, ROLL-UP DOORS, SLIDING GLASS DOORS, WINDOWS AND TRANSOMS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION TO ENSURE PROPER FIT. G.C./SUBCONTRACTOR SHALL NOT FABRICATE FROM THE CONSTRUCTION DOCUMENTS. SHOULD THE G.C./ SUBCONTRACTOR CHOOSE TO FABRICATE THE PREVIOUSLY REFERENCED ITEMS FROM THE CONTRACT/PROPOSAL DOCUMENTS AND NOT FROM THE FIELD THEY DO SO AT THEIR OWN RISK AND ANY AND ALL MODIFICATIONS REQUIRED AS A RESULT SHALL BE AT THEIR OWN EXPENSE.

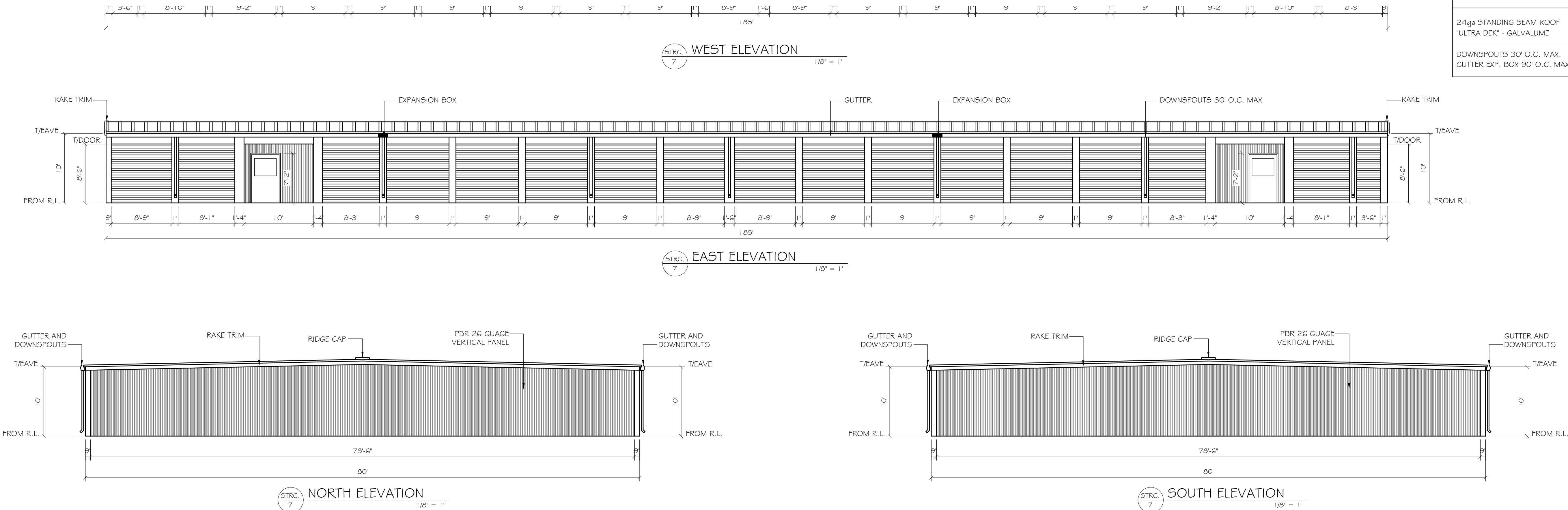
NOTE:
GC SHALL COORDINATE ALL TCMU WALL HEIGHTS WITH RABCO ENTERPRISES, LLC PRIOR TO CONSTRUCTION TO ENSURE PROPER FIT OF THE METAL BUILDING COMPONENTS. FAILURE TO GET WRITTEN APPROVAL PRIOR TO ERECTING THE CMU WALLS MAY RESULT IN NEEDED MODIFICATIONS TO EITHER THE CMU WALL AND/OR THE METAL BUILDING COMPONENTS AT THE G.C.'S EXPENSE.

TYPICAL PIER AND HEADER UNLESS INDICATED OTHERWISE

PIER TEX COTE - 12" X 16ga
CORNER PIER - 9" X 9" X 16ga
SIDE WALL HEADER - 18" X 16ga

24ga STANDING SEAM ROOF
"ULTRA DEK" - GALVALUME

DOWNSPOUTS 30" O.C. MAX.
GUTTER EXP. BOX 90" O.C. MAX.



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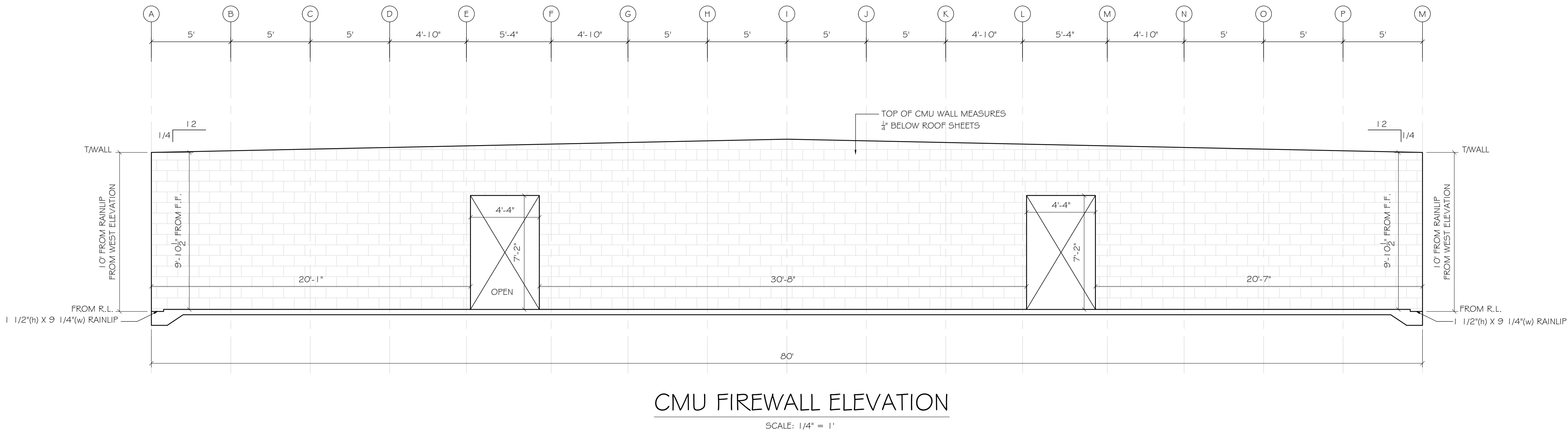
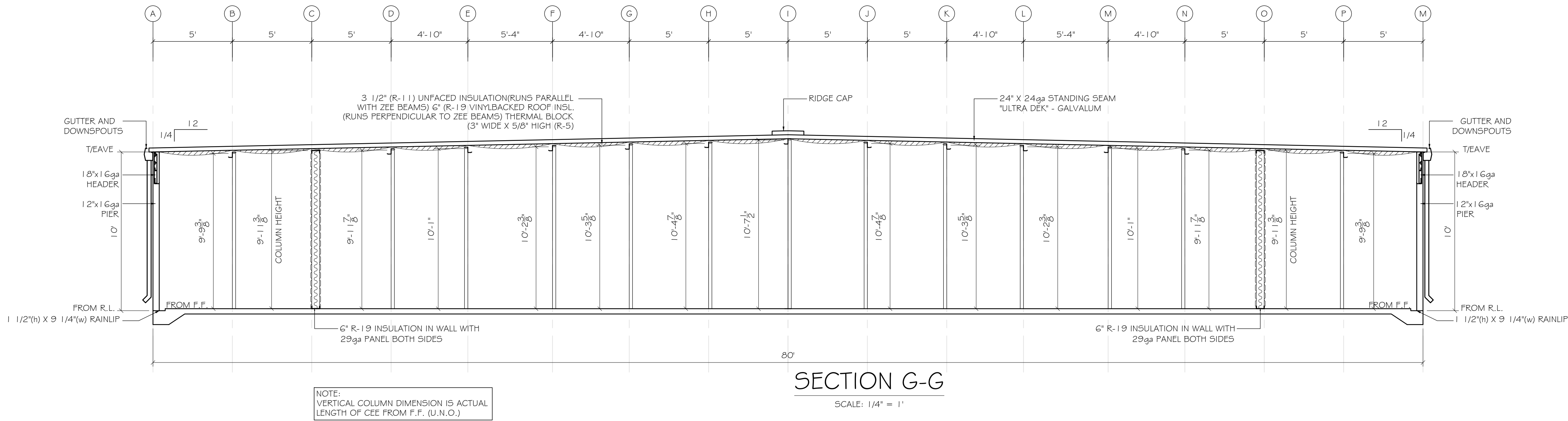
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SECTION

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SCALE AS NOTED
SHEET

S-7.6

- NOTES:
- UNLESS NOTED OTHERWISE ON THE PLANS, THE FOLLOWING OUTLINES STANDARD PARTITION HEIGHTS USED FOR DESIGN PURPOSES.
 - NON-CLIMATE CONTROLLED SINGLE STORY BUILDINGS HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 8" OF THE BOTTOM OF THE ROOF DECK.
 - CLIMATE CONTROLLED SINGLE STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE ROOF DECK.
 - CLIMATE CONTROLLED MULTI-STORY BUILDING HAVE BEEN DESIGNED BASED ON THE TOP OF ALL INTERIOR PARTITION PANELS BEING HELD TO WITHIN 18" OF THE BOTTOM OF THE FLOOR/ROOF DECK.
 - SHOULD THE PARTITION PANELS NEED TO BE HELD DOWN FURTHER THAN 18" FROM THE BOTTOM OF THE FLOOR/ROOF DECK, THE REQUEST SHALL BE SUBMITTED IN WRITING AND A FORMAL WRITTEN RESPONSE PROVIDED PRIOR TO FABRICATION AND/OR INSTALLATION.



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STORAMERICA - MCCORDSVILLE

MCCORDSVILLE, IN 46055

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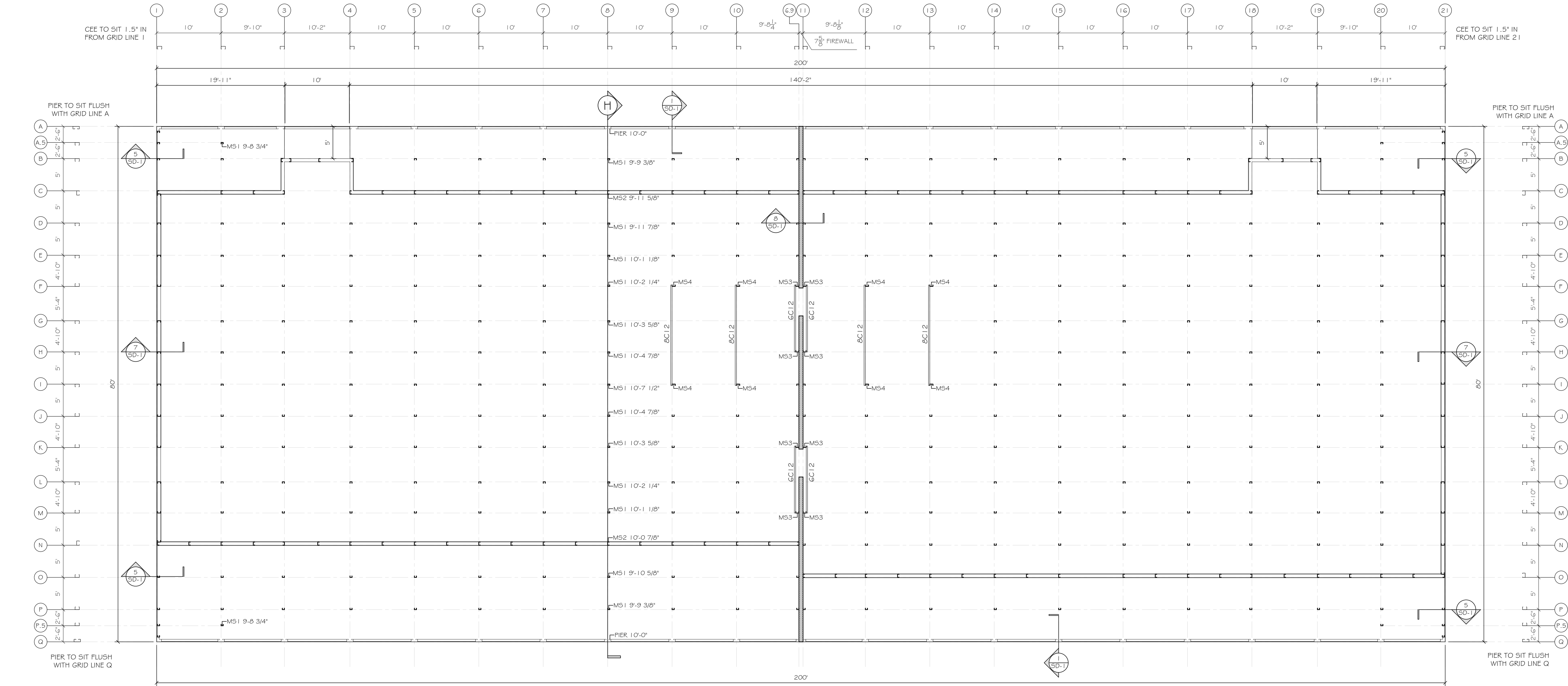
SHEET TITLE

STRC. 9

COLUMN FRAMING PLAN

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S-8.1



STRC. 9 COLUMN FRAMING PLAN
1/8" = 1'

ANCHOR SCHEDULE			FASTENERS AND ANCHORS ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS												
BRAND: DeWALT (OR EQUAL)															
ANCHOR TYPE	ANCHOR NAME	ICC-ES #	ANCHOR DIA. (IN)	MIN BASE MATERIAL THICKNESS (IN)	(MIN. OR NOM) / MAX. OR (REF.) EMBEDMENT (IN.)	MIN ANCHOR SPACING (IN)	MIN EDGE / END DISTANCE (IN)	ALLOWABLE BASE MATERIAL							
								CONC.	LW CONC.	CONC. OVER STEEL DECK	GF CMU	HOLLOW CMU W/ SCREEN TUBES	SOLID BRICK	STEEL	
EPOXY	AC108+GOLD	ESR-2582 [CONC]	1/2".dia.	4" [CONC]	2-3/4"(MIN) / 6" MAX	2-1/2"	2-1/2"	X	X			X	X		
			3/4".dia.	5-3/4" [CONC]	3-1/2"(MIN) / 9" MAX	3-3/4"	3-3/4"								
		ESR-3200 [CMU]	1/2".dia.	8" GF CMU	4" (MIN)	(1) PER CELL	4"								
			3/4".dia.	8" GF CMU	6" (MIN)	(1) PER CELL	4"								
MECHANICAL	POWER STUD +SD1	ESR-2818 [CONC]	1/2".dia.	4" [CONC]	2-1/2"(NOM) / 2" (EFF)	4-1/2"	6"	X	X	X					
			3/4".dia.	6" [CONC]	4"(NOM) / 2" (EFF)	6"	6"								
		ESR-2966 [CONC]	3/8".dia.	8" GF CMU	2-1/2"(MIN)	(1) PER CELL	4"								
			1/2".dia.	8" GF CMU	4-3/4"(MIN)	(1) PER CELL	12"								
	POWER STUD +SD2	ESR-2502 [CONC]	1/2".dia.	4-1/2" [CONC]	2-1/2"(NOM) / 2" (EFF)	6"	8"	X	X	X					
			3/4".dia.	7" [CONC]	4-1/2"(NOM) / 3-3/4" (EFF)	6"	12"								
			3/8".dia.	2" [CONC OVER STL DECK]	2-3/8"(NOM) / 2" (EFF)	1-1/2"	4"								
			1/2".dia.	2" [CONC OVER STL DECK]	2-1/2"(NOM) / 2" (EFF)	8"	4"								
	SCREW-BOLT +	ESR-3889 [CONC]		1/4".dia.	8" GF [CONC]	2-1/2" (MIN.)	4"	2"	X	X	X	X		X	
				1/2".dia.	8" GF [CONC]	3-1/4" (MIN.)	6"	3"							
				1/2".dia.	3" [CONC]	1-5/8"(NOM) / 1.2" (EFF)	1-1/2"	1-1/2"							
				3/4".dia.	3" [CONC]	2"(NOM) / 1-1/3" (EFF)	2"	1-1/2"							
				3/8".dia.	3" [CONC]	2-1/2"(NOM) / 1-3/4" (EFF)	2-3/4"	1-3/4"							
				1/2".dia.	3-3/4" [CONC]	4-1/4"(NOM) / 3.09" (EFF)	3"	1-3/4"							
				1/4".dia.	2" [CONC OVER STL DECK]	1-5/8"(NOM) / 1.2" (EFF)	1-1/2"	1-1/2"							
				3/8".dia.	2" [CONC OVER STL DECK]	2"(NOM) / 1.33" (EFF)	2"	2"							
			1/2".dia.	2" [CONC OVER STL DECK]	2-1/2"(NOM) / 1-3/4" (EFF)	2-1/2"	2-1/2"								
ESR-4042 [CMU]			1/2".dia.	8" GF CMU	4-1/4"(MIN)	(1) PER CELL	4"								
			3/4".dia.	8" GF CMU	6-1/4"(MIN)	(1) PER CELL	4"								
DIRECT FASTEN			CSI SPIRAL DRIVE PINS	ESR-2024	0157.dia.	3/16" (STEEL)	FASTENER POINT MUST PENETRATE STEEL MEMBER								
		0157.dia.		2-1/4" [CONC]	3/4"(MIN)	4"	3-1/2"								
		0157.dia.		3" [CONC]	1"(MIN)	4"	3-1/2"								
		0157.dia.		3-3/4" [CONC]	1-1/4"(MIN)	4"	3-1/2"								
		0157.dia.		8" GF CMU	1"(MIN)	4"	3-3/4"								
		0157.dia.		8" HOLLOW CMU	1"(MIN)	8"	3-3/4"								

LINE KEY

CORNER PIER, HEADER, PIER

6" R-19 INSULATION IN PERIMETER WALL
29GA LINER PANEL INTERIOR AND
26GA VERTICAL PANEL EXTERIOR

6" R-19 INSULATION IN WALL WITH
29GA LINER PANEL BOTH SIDES

PBR, 26GA VERTICAL PERIMETER WALL
PANEL

4" BRICK WALL (BY OTHERS)

HORIZONTAL PARTITION PANEL
29GA GALVALUME TYPE "U"

CROSS BEAMS NEED MORE THAN
5" BAY

HALL WAY SYSTEM

COLUMNS

ZEE BEAMS

THREE HOUR RATED CMU WALL
UL # U904

24ga. ROOF STRAPPING

TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE
COLUMN : M51 = 4C16 - 4X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : M52 = 6C16 - 6X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : M53 = 6C14 - 6X2 1/2" X 14GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : M54 = 6C12 - 6X2 1/2" X 12GA CEE PRIME PAINTED (RED OXIDE)
PURLIN : P1 = 4Z16 - 4X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P2 = 6Z16 - 6X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P3 = 6Z12 - 6X2 1/2" X 12GA ZEE PRIME PAINTED (RED OXIDE)

ANCHOR SCHEDULE UNLESS NOTED OTHERWISE
SINGLE STORY BUILDINGS
BASE CLIP INSTALLATION 1/2"X3" DeWALT SCREW BOLT+ (OR EQUAL) 1 3/4" EFFECTIVE EMBEDMENT
BASE TRACK INSTALLATION 1/2"X3" DeWALT SCREW BOLT+ (OR EQUAL) SPACING 3' O.C. (1 3/4" EFFECTIVE EMBEDMENT)
PIER INSTALLATION 1/2"X3" DeWALT SCREW BOLT+ (OR EQUAL) @ EA. PIER (1 3/4" EFFECTIVE EMBEDMENT)

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SHEET TITLE

STRC. 9
ROOF FRAMING PLAN

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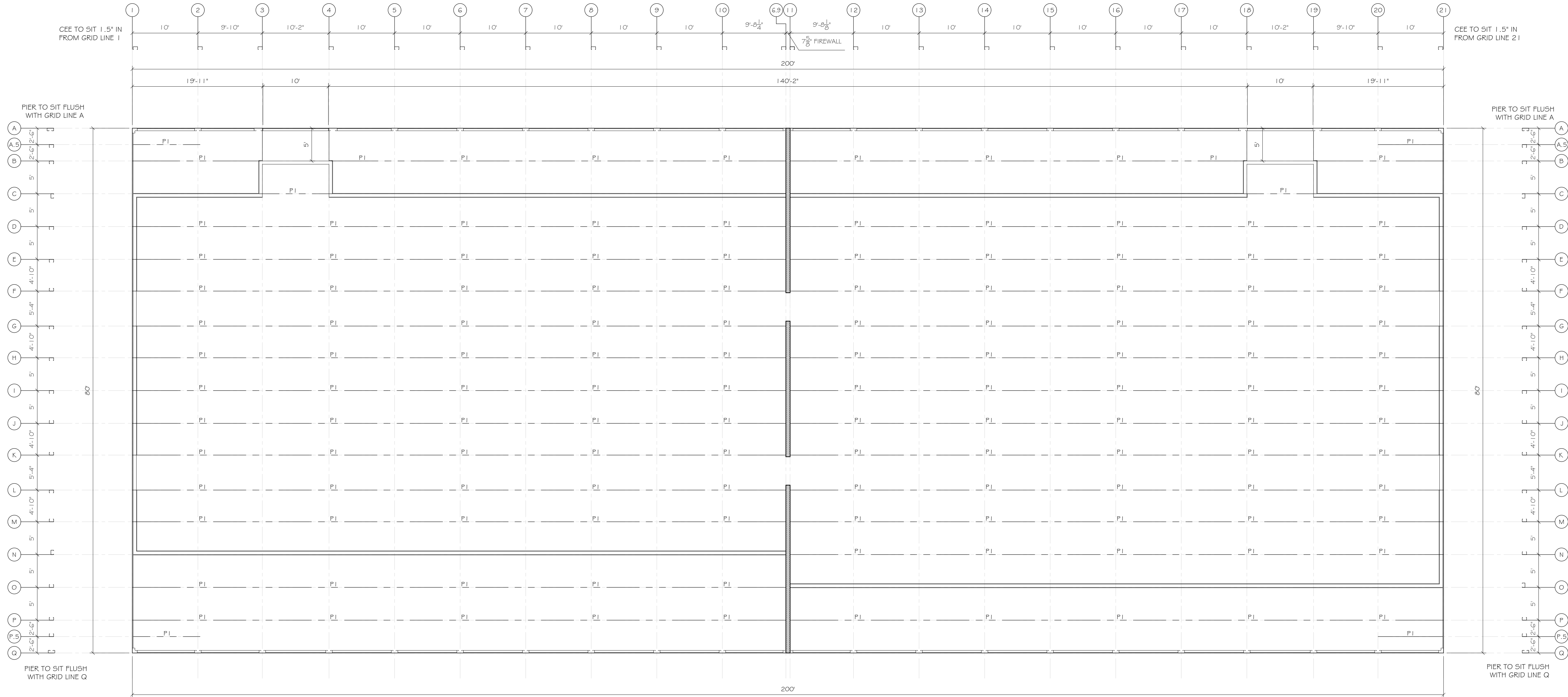
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SCALE

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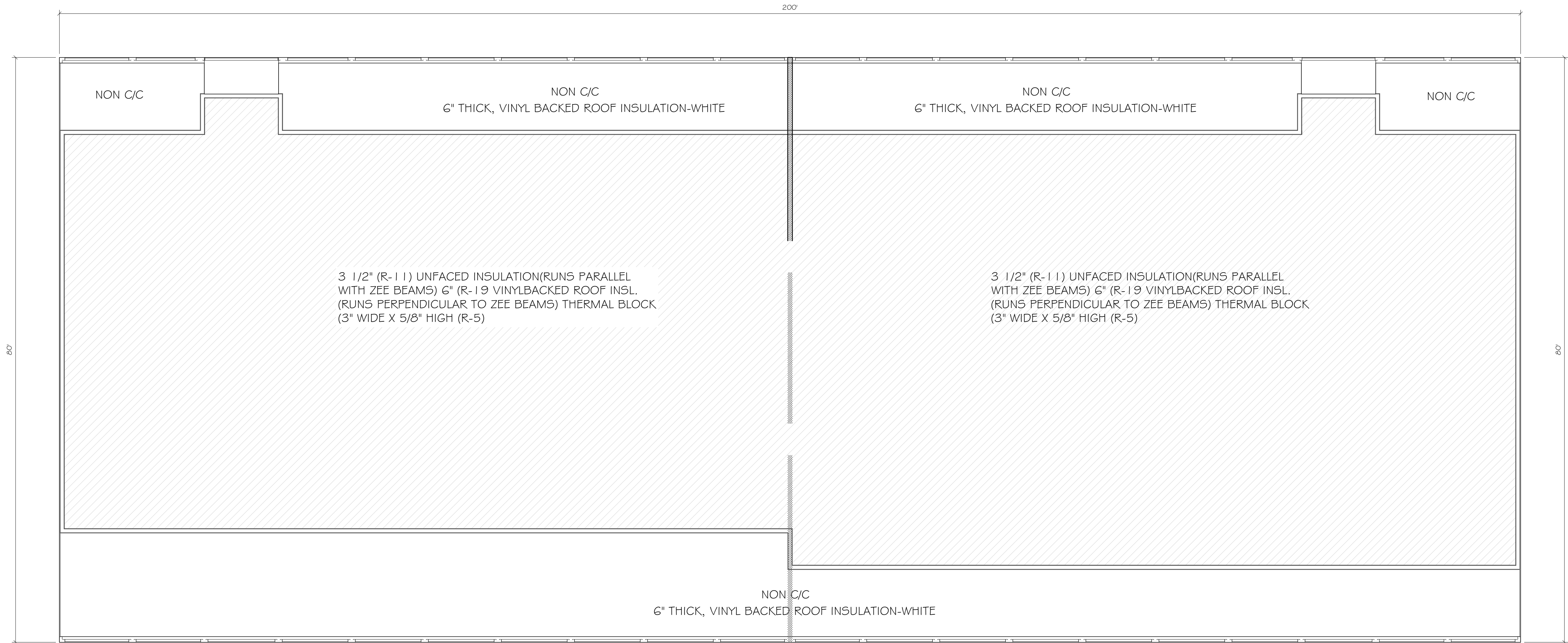
SHEET

S-8.2



LINE KEY	
	CORNER PIER, HEADER, PIER
	6" R-19 INSULATION IN PERIMETER WALL 29GA LINER PANEL INTERIOR AND 26GA VERTICAL PANEL EXTERIOR
	6" R-19 INSULATION IN WALL WITH 29GA LINER PANEL BOTH SIDES
	PBR, 26GA VERTICAL PERIMETER WALL PANEL
	4" BRICK WALL (BY OTHERS)
	HORIZONTAL PARTITION PANEL 29GA GALVALUME TYPE "U"
	CROSS BEAMS NEED MORE THAN 5' BAY
	HALL WAY SYSTEM
	COLUMNS
	ZEE BEAMS
	THREE HOUR RATED CMU WALL UL # U904
	24ga. ROOF STRAPPING

TYPICAL COLUMNS & BEAMS UNLESS NOTED OTHERWISE
COLUMN : MS1 = 4C16 - 4'X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS2 = 6C16 - 6'X2 1/2" X 16GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS3 = 6C14 - 6'X2 1/2" X 14GA CEE PRIME PAINTED (RED OXIDE)
COLUMN : MS4 = 6C12 - 6'X2 1/2" X 12GA CEE PRIME PAINTED (RED OXIDE)
PURLIN : P1 = 4Z16 - 4'X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P2 = 6Z16 - 6'X2 1/2" X 16GA ZEE PRIME PAINTED (RED OXIDE)
PURLIN : P3 = 6Z12 - 6'X2 1/2" X 12GA ZEE PRIME PAINTED (RED OXIDE)



STRUCTURE 9
INSULATION PLAN
SCALE: 1/8" = 1'

NOTE:
INSULATION BACKING SHALL BE INSTALLED ON THE INTERIOR SIDE
OF FRAMED WALLS IN CLIMATE ZONES 5, 6, 7, 8 AND MARINE 4 AS
DEFINED IN CHAPTER #3 OF THE INTERNATIONAL ENERGY
CONSERVATION CODE.

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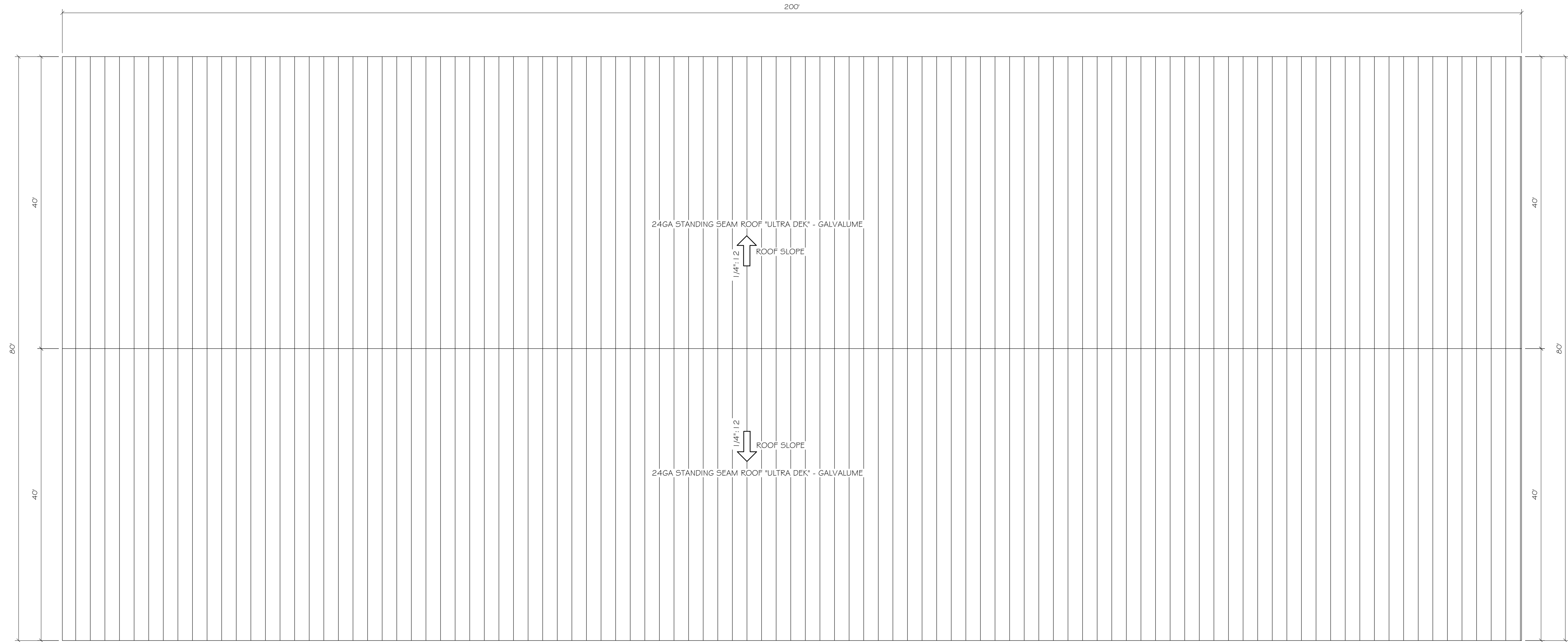
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SHEET TITLE

STRC. 9
INSULATION PLAN

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JOB NO.: E-2726
SCALE: AS NOTED
SHEET



STRUCTURE 9
ROOF PLAN
SCALE: 1/8" = 1'

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2	HH	CUSTOMER COMMENTS	1/4/2025	
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NOTES:
ALL MAN DOORS, ROLL-UP DOORS, SLIDING GLASS DOORS, WINDOWS AND TRANSOMS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION TO ENSURE PROPER FIT. G.C./SUBCONTRACTOR SHALL NOT FABRICATE FROM THE CONSTRUCTION DOCUMENTS. SHOULD THE G.C./SUBCONTRACTOR CHOOSE TO FABRICATE THE PREVIOUSLY REFERRED ITEMS FROM THE CONTRACT/PROPOSAL DOCUMENTS AND NOT FROM THE FIELD THEY DO SO AT THEIR OWN RISK AND ANY AND ALL MODIFICATIONS REQUIRED AS A RESULT SHALL BE AT THEIR OWN EXPENSE.

NOTE:
GC SHALL COORDINATE ALL T/CMU WALL HEIGHTS WITH RABCO ENTERPRISES, LLC PRIOR TO CONSTRUCTION TO ENSURE PROPER FIT OF THE METAL BUILDING COMPONENTS. FAILURE TO GET WRITTEN APPROVAL PRIOR TO ERECTING THE CMU WALLS MAY RESULT IN NEEDED MODIFICATIONS TO EITHER THE CMU WALL AND/OR THE METAL BUILDING COMPONENTS AT THE G.C.'S EXPENSE.



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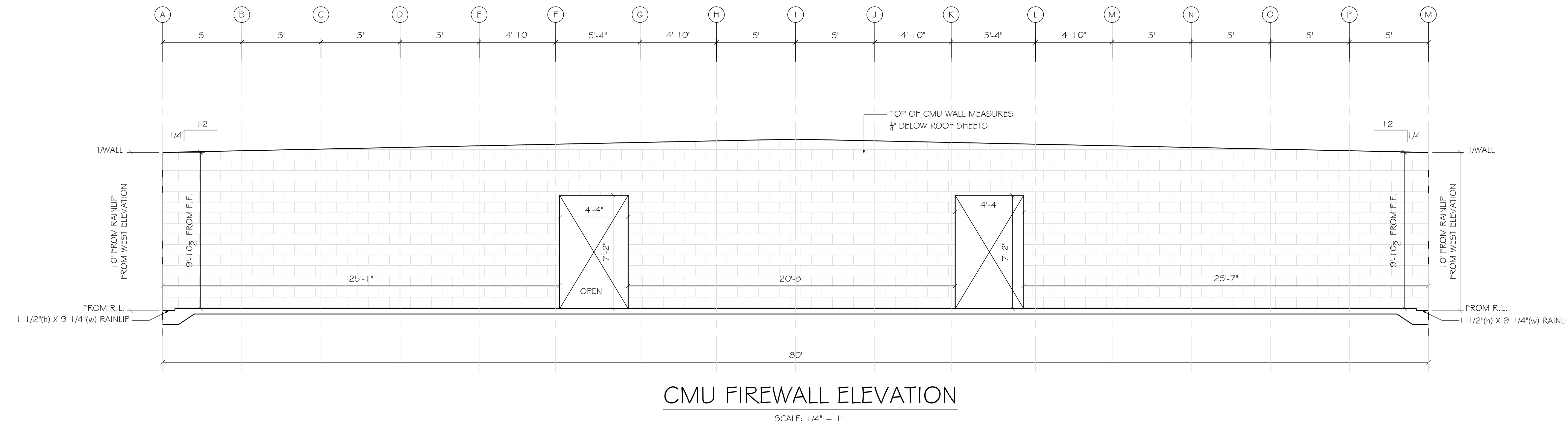
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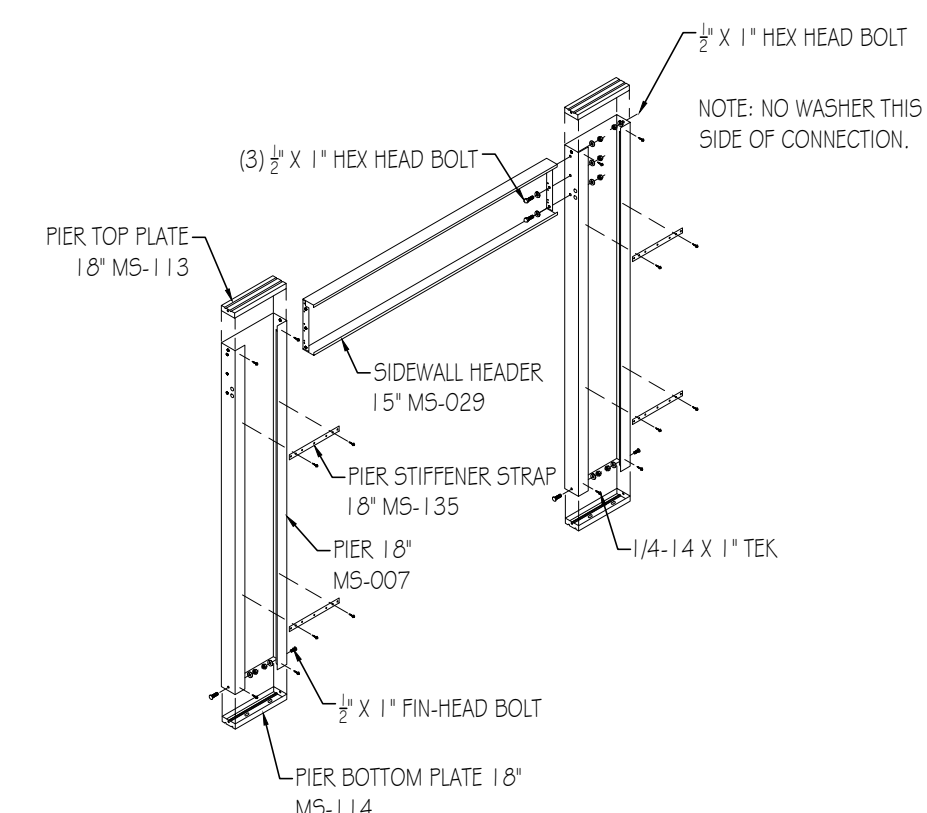
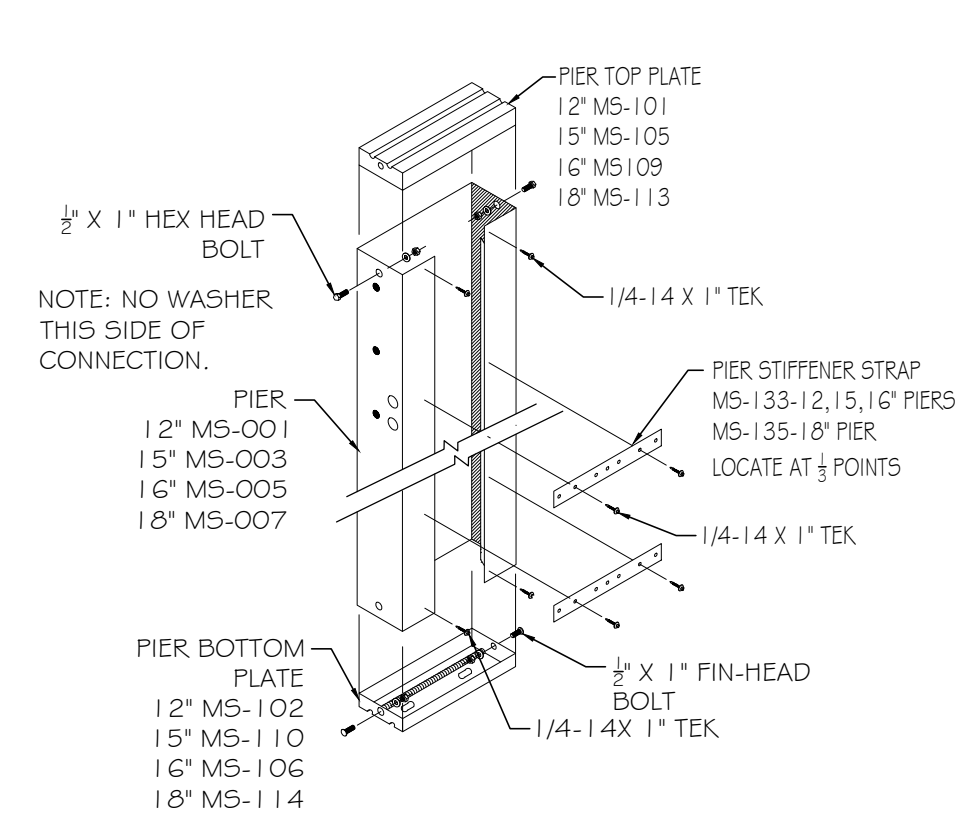
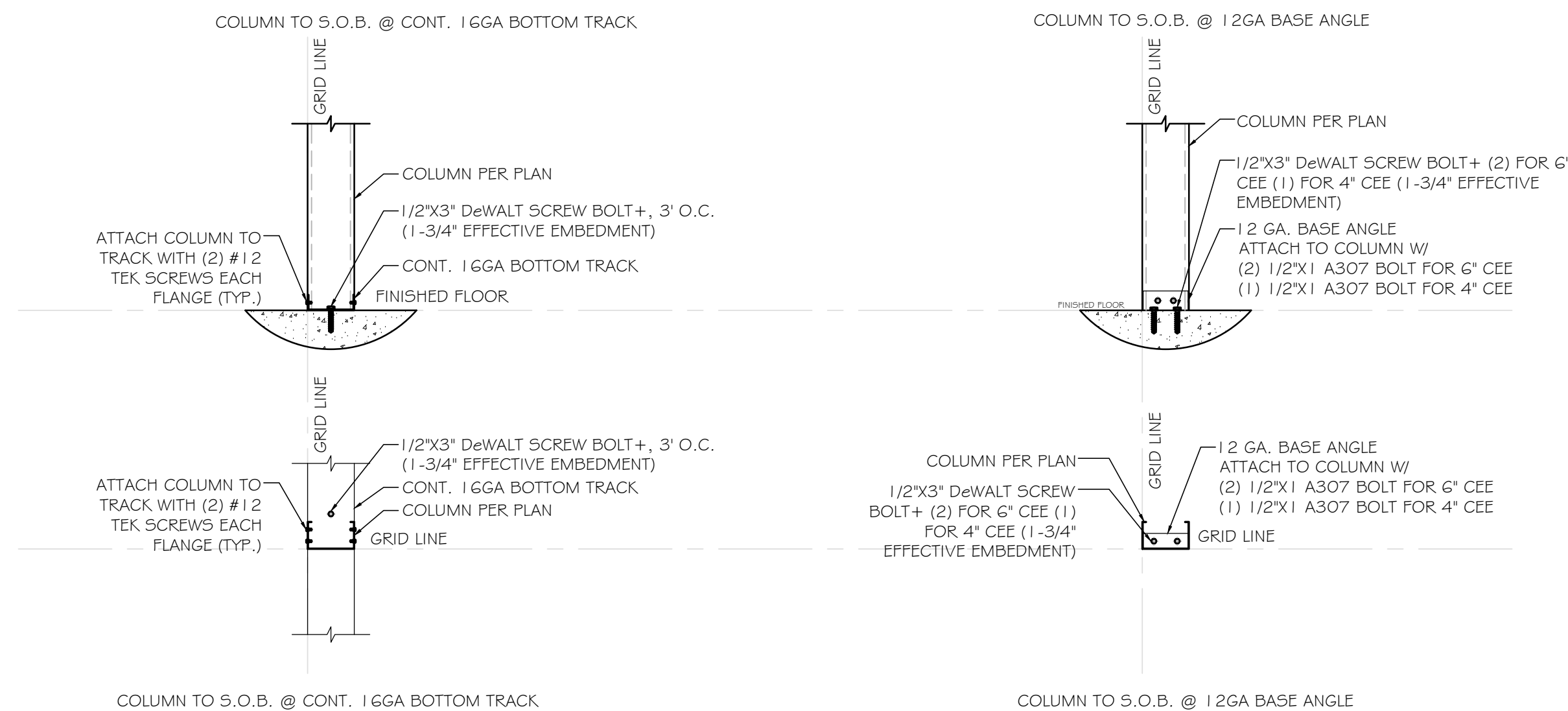
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STRC. 9	
SECTION	
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S-8.6



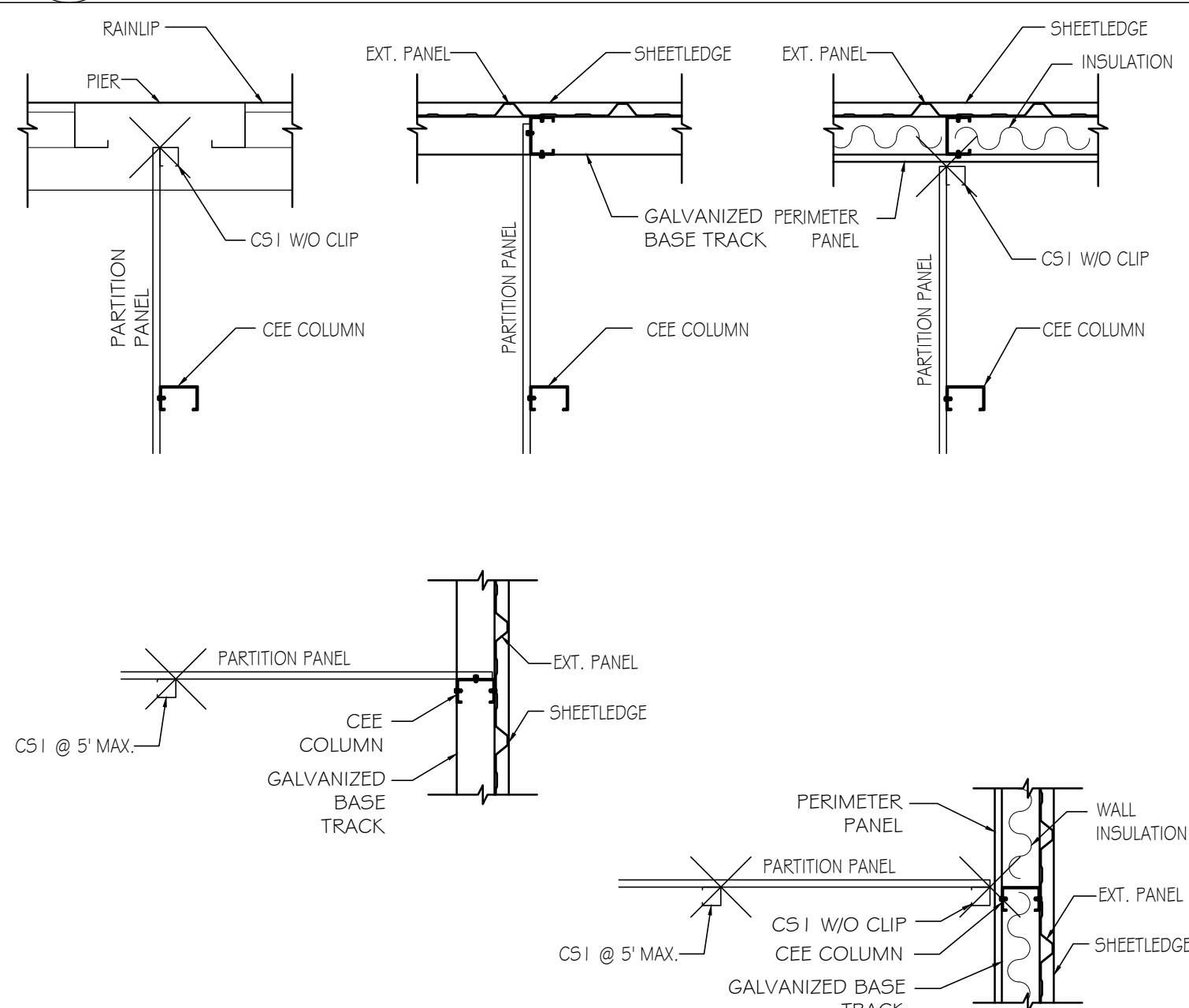
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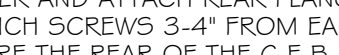


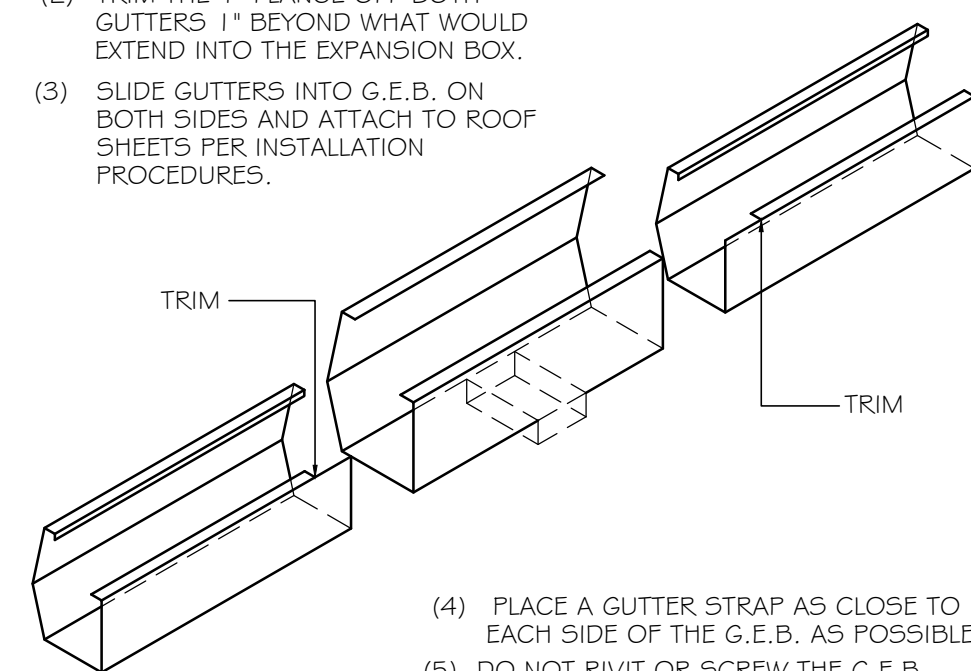
1 TYPICAL COLUMN TO SLAB ANCHORING (SINGLE-STORY)
SD-2 SCALE: 3/4" = 1'

2	PIER ASSEMBLY
SD-2	SCALE: 3/4" = 1'

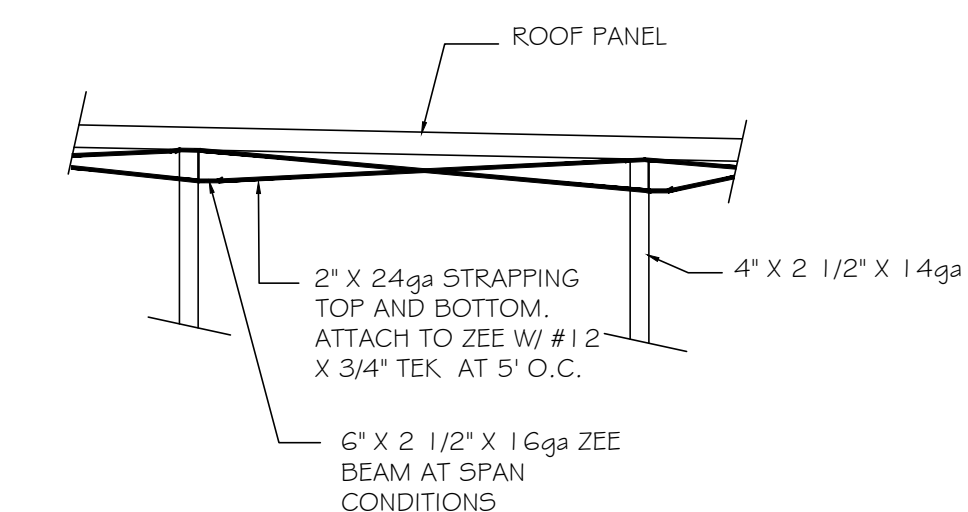
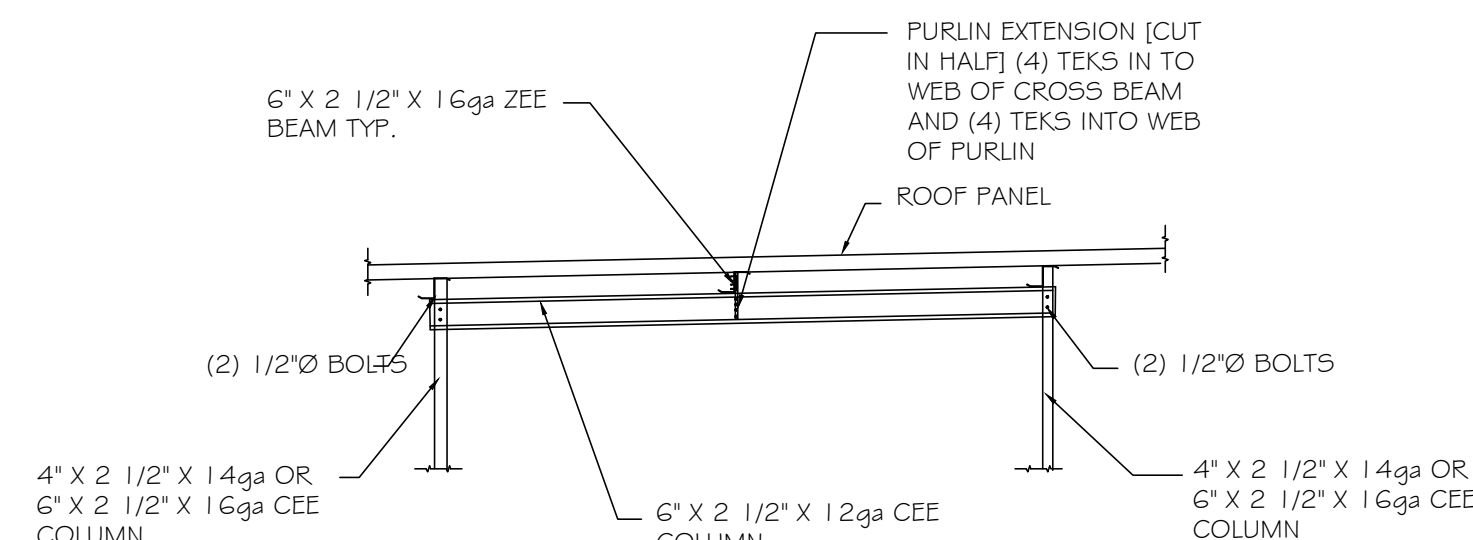
3	PIER & HEADER ASSEMBLY
SD-2	SCALE: 3/4" = 1'



- (1) CENTER THE G.E.B. ON THE PIER AND ATTACH REAR FLANGE TO THE ROOF PAN WITH (2) 1/4" X 47/8" EXTENDED LINE STICK SCREWS 3-4" FROM EACH END FASTENER #TX4. WHEN ATTACHING THE G.E.B. BE SURE THE REAR OF THE G.E.B. IS AGAINST THE FACE OF THE PIER. (EXCEPT ON SHURDAD PROJECTS WHERE THE SPECS REQUIRE A 2" GAP BETWEEN THE REAR OF THE GUTTER AND PIER)
 - (2) TRIM THE 1" FLANGE OFF BOTH GUTTERS 1" BEYOND WHAT WOULD EXTEND INTO THE EXPANSION BOX.
 - (3) SLIDE GUTTERS INTO G.E.B. ON BOTH SIDES AND ATTACH TO ROOF SHEETS PER INSTALLATION PROCEDURES.
- 



- (4) PLACE A GUTTER STRAP AS CLOSE TO EACH SIDE OF THE G.E.B. AS POSSIBLE.
- (5) DO NOT RIVET OR SCREW THE G.E.B. TO THE GUTTERS. THEY MUST BE ALLOWED TO MOVE FOR EXPANSION.
- (6) NOTE THAT THE DOWNSPOUTS ATTACHED TO THE G.E.B. ARE 4" SHORTER THAN THOSE ATTACHED TO THE GUTTERS.
- (7) IN THE CASE WHERE SCUPPERS ARE REQUIRED, CUT OUT THE BOTTOM OF THE G.E.B. TO THE INSIDE DIMENSIONS OF THE SCUPPER. RIVET SCUPPER TO THE BOTTOM OF THE G.E.B.

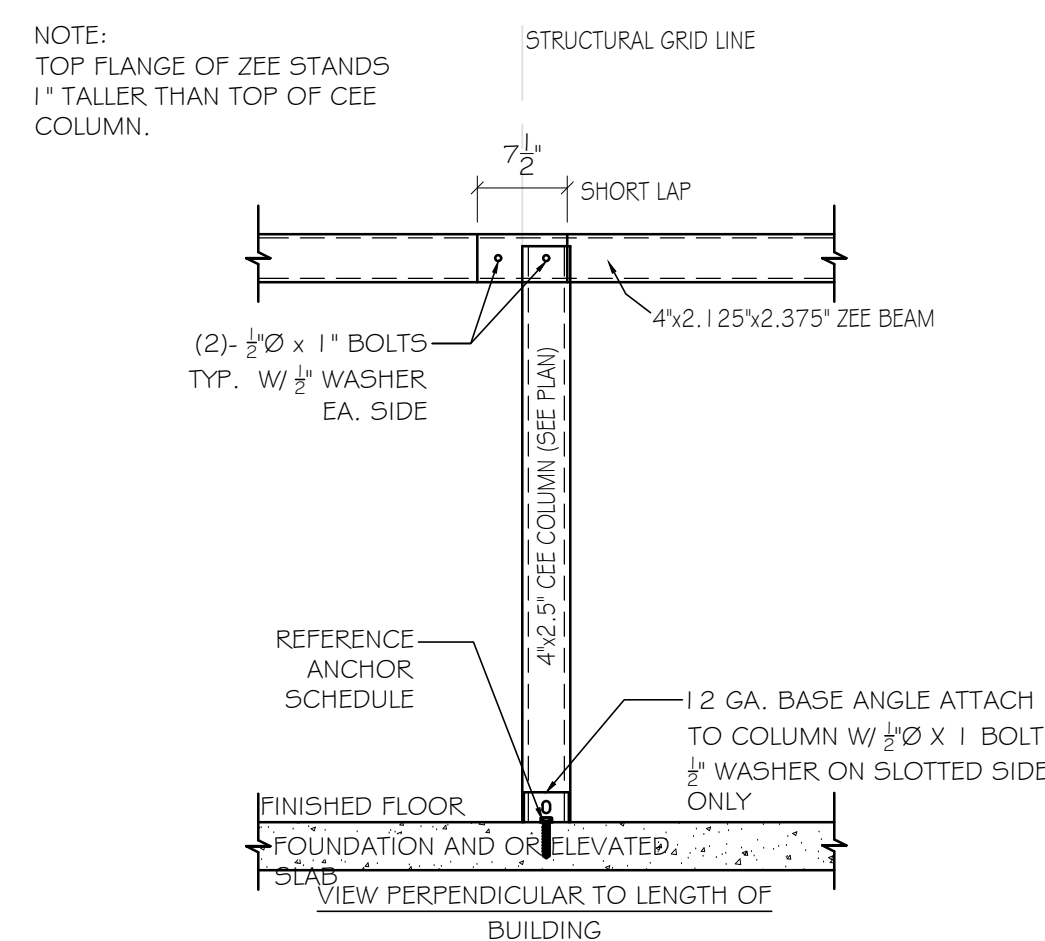
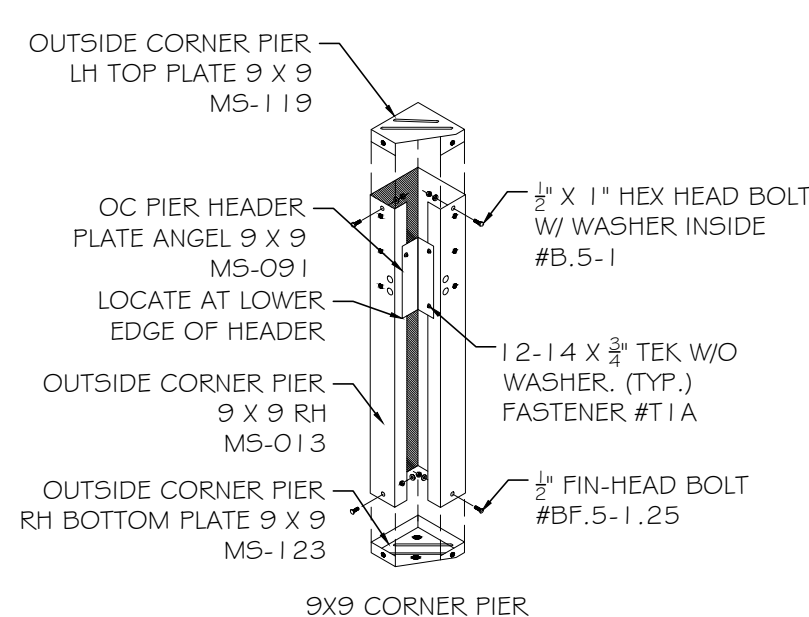


4	PARTITION PANEL DETAILS AT PERIMETER WALL (SINGLE-STORY)
SD-2	SCALE: 3/4" = 1'

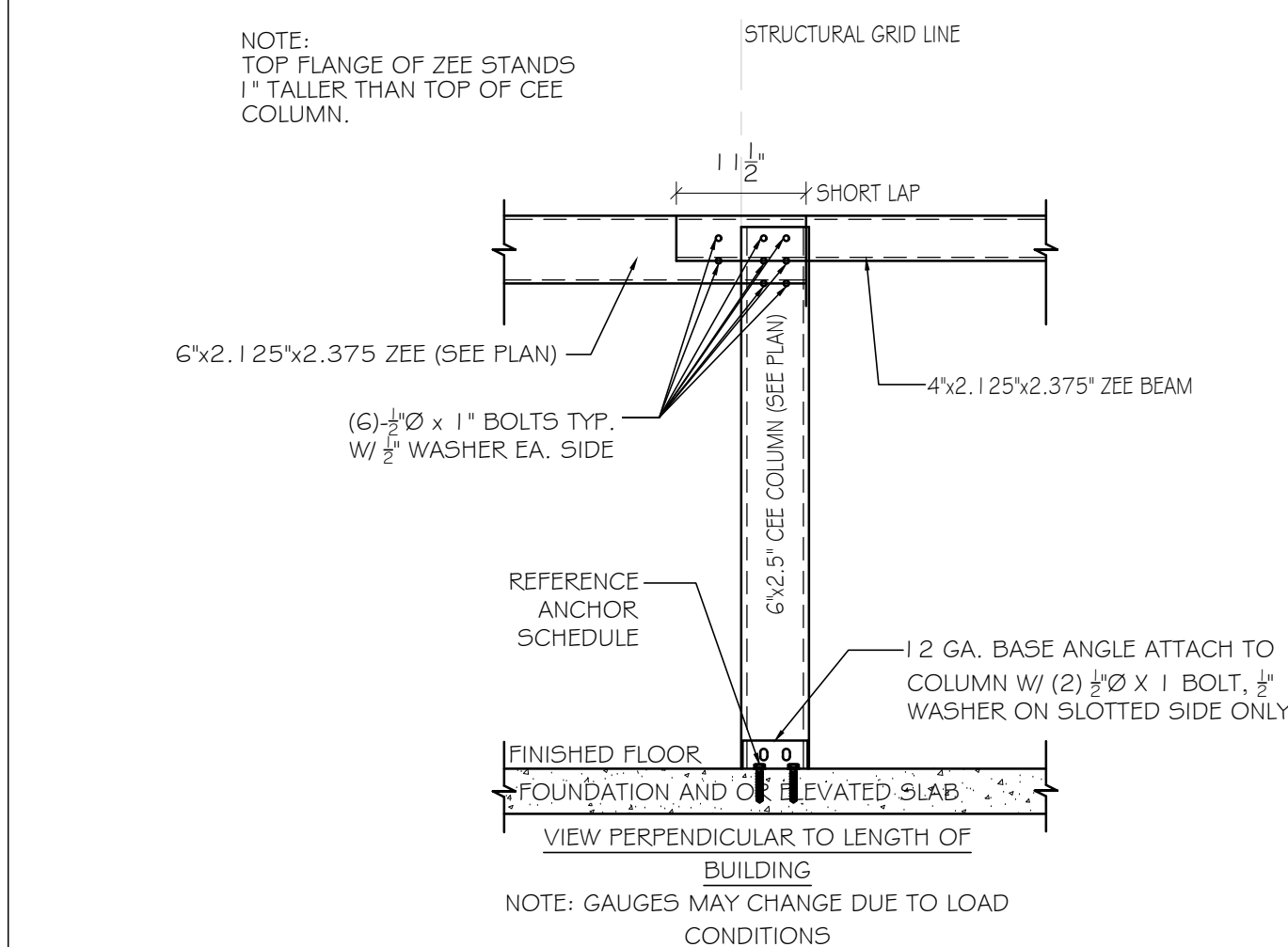
5	GUTTER EXPANSION BOX INSTALLATION DETAIL
SD-2	SCALE: 3/4" = 1'

6	6C12 CROSS BEAM SUPPORT
SD-2	SCALE: 3/4" = 1'

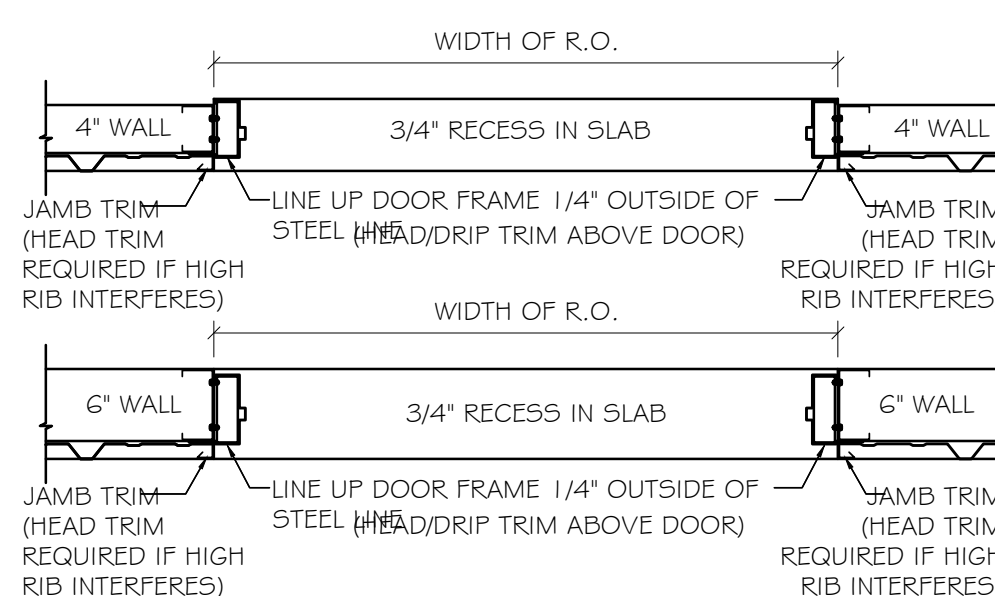
7	6216 W/ STRAPPING		
SD-2	SCALE: 3/4" = 1'	SD-*	SCALE: 3/4" = 1'



- NOTE: TEK SCREW FASTENING OF THE ZEE PURLIN TO CEE COLUMN IS AN ACCEPTABLE ALTERNATE. PROVIDE A MIN. OF (4) #12 TEK SCREWS PER EACH $\frac{1}{2}$ " DIA. BOLT SHOWN



- NOTE:
TEK SCREW FASTENING OF THE ZEE PURLIN TO CEE
COLUMN IS AN ACCEPTABLE ALTERNATE. PROVIDE A MIN.
OF (4) #12 TEK SCREWS PER EACH $\frac{1}{2}$ " DIA. BOLT SHOWN



- EXTERIOR & RECESSED ENTRY PERSONNEL DOOR DETAIL
SCALE: 3/4" = 1'

[illegible]

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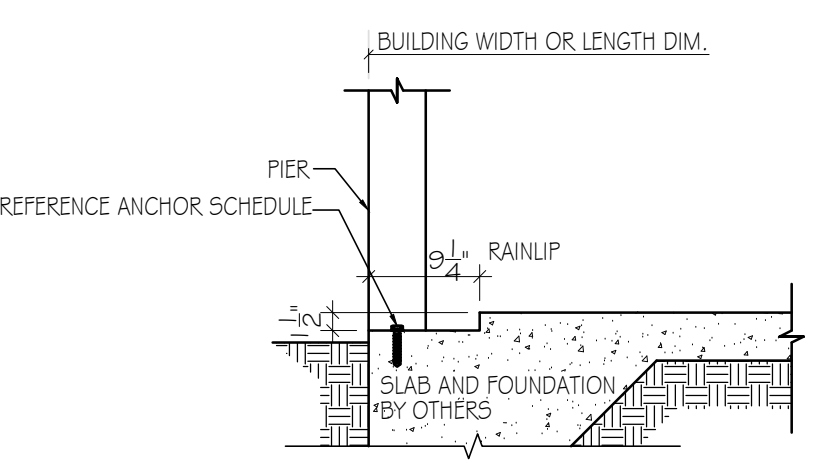
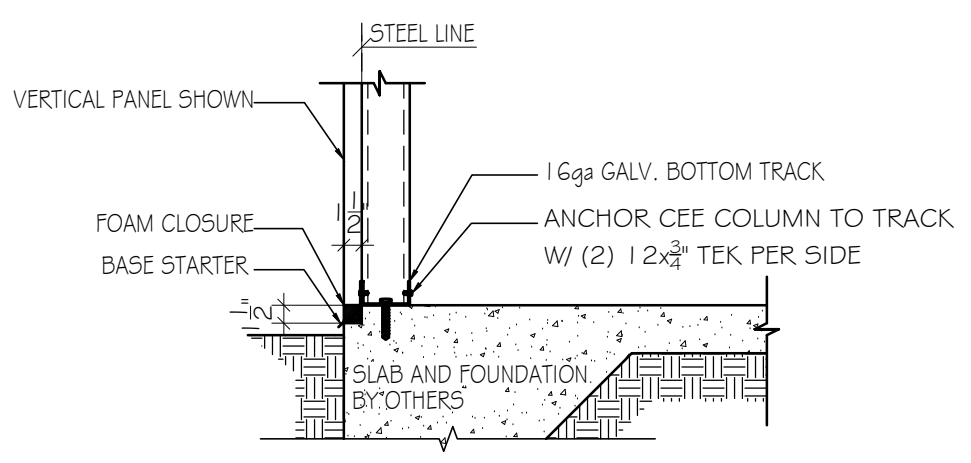
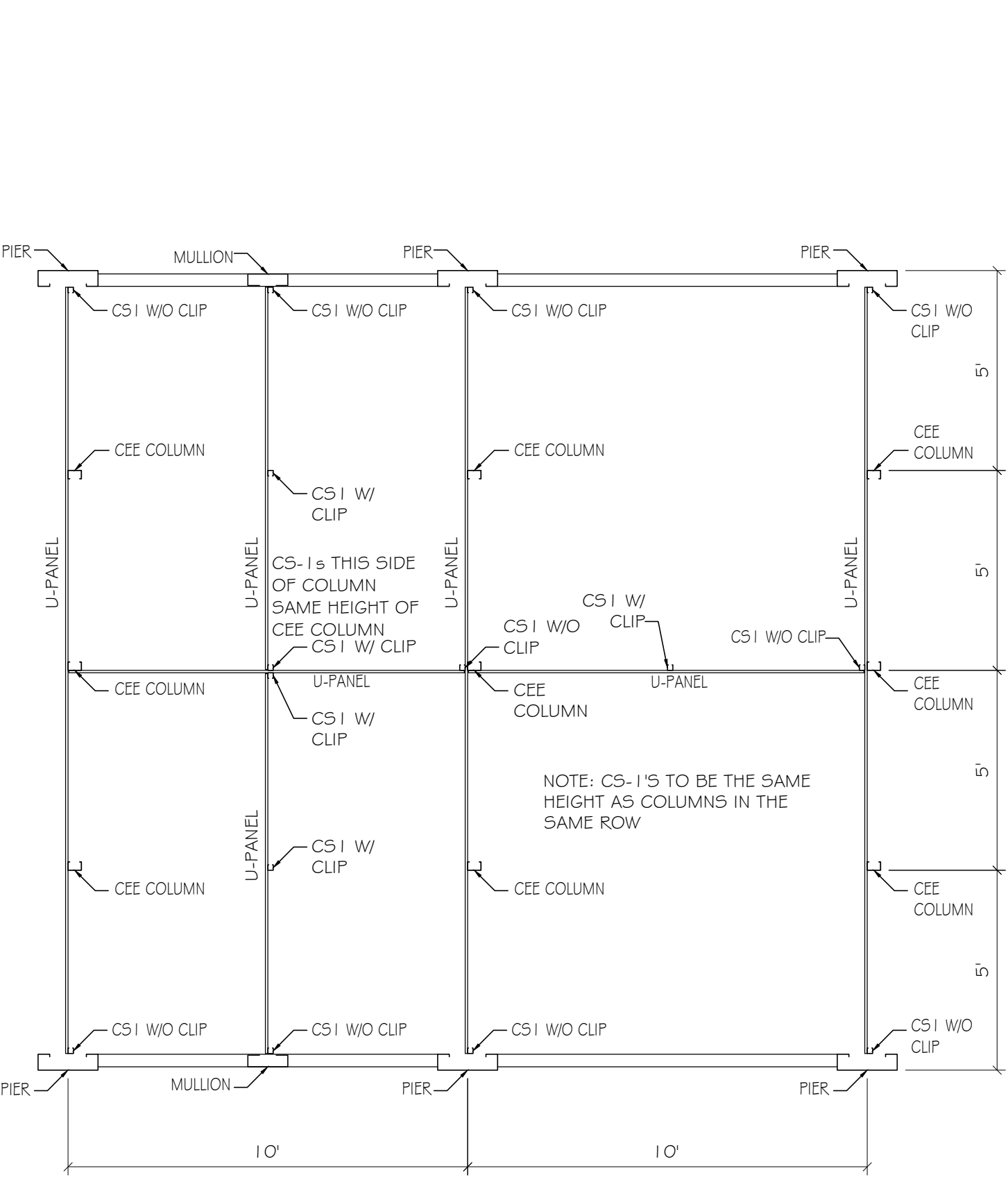
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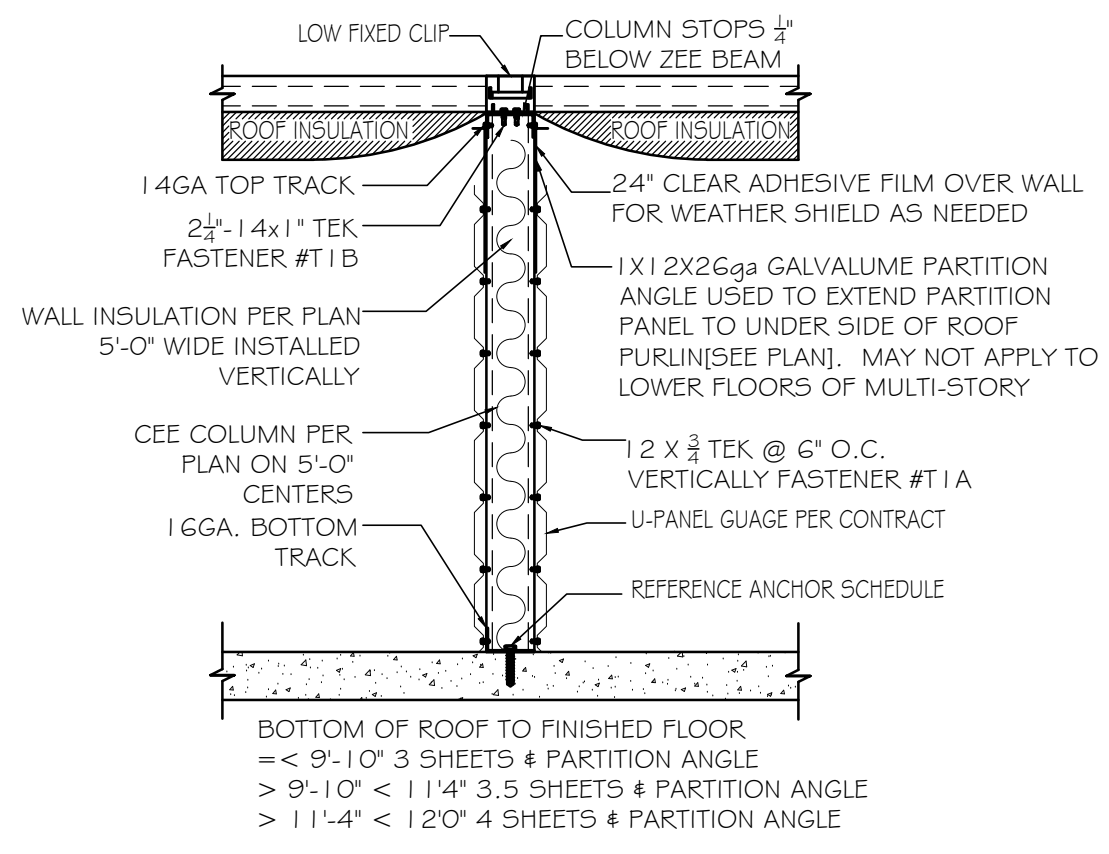
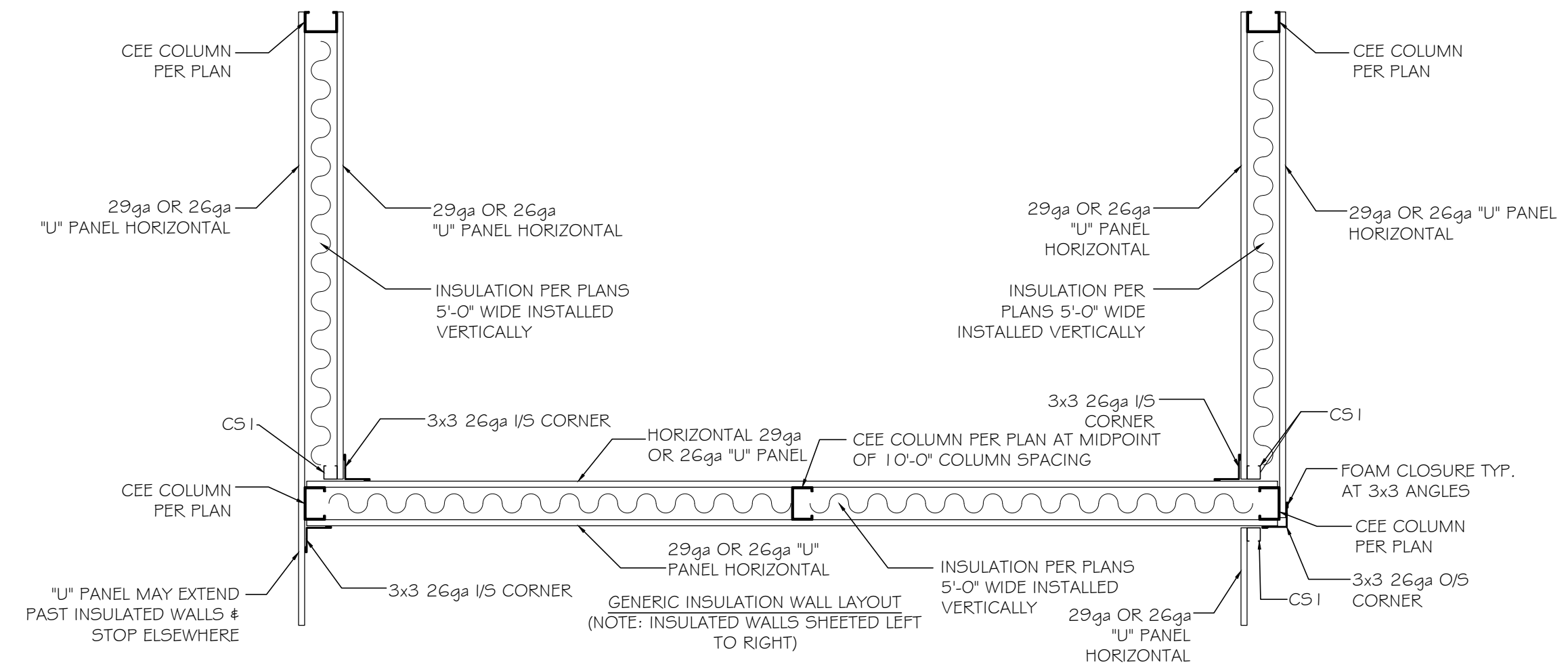
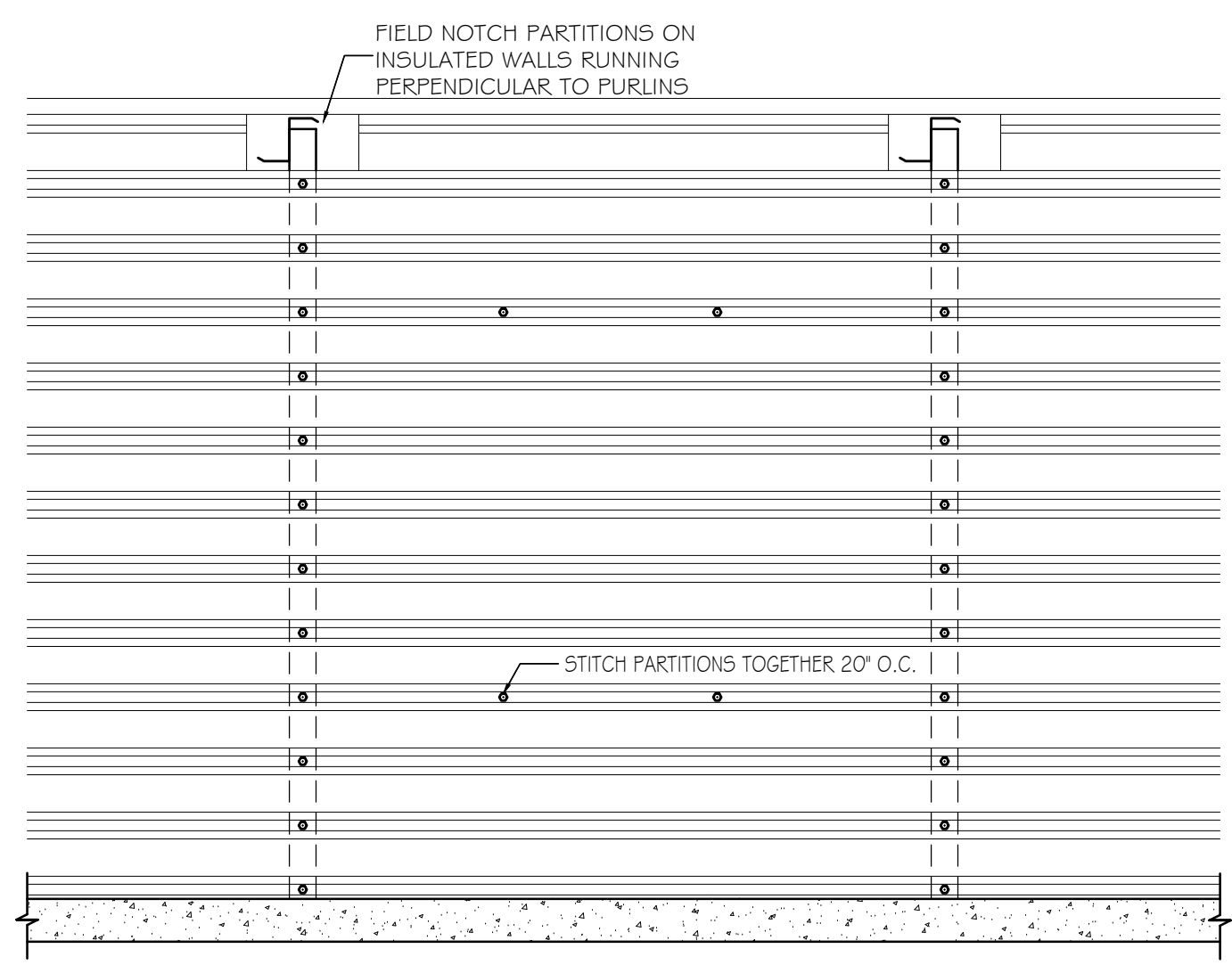
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SD-2



4	PIER TO FOUNDATION DETAIL
SD-3	SCALE: 3/4" = 1'



7	INTERIOR INSULATED WALL RUNNING WITH PURLINS
SD-3	SCALE: 3/4" = 1'

[illegible]

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SD-3

SD-4

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- SINGLE STORY FOUNDATION PLAN NOTES:

- SEE GENERAL NOTES SHEETS FOR ADDITIONAL INFORMATION.



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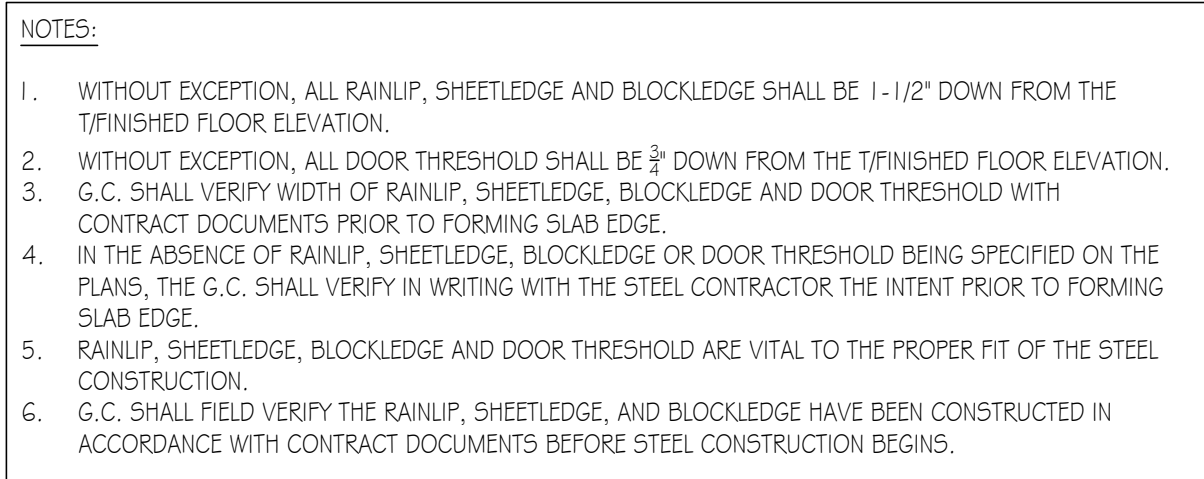
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STRC. 2

FOUNDATION PLAN

SF-2.0



FLOOR SLAB SHALL BE 4" THICK, $F_c = 3,000\text{psi}$ CONCRETE
REINFORCED WITH #6 @ 14" X 14" W/MT OVER 10 MIL VAPOR BARRIER
ON COMPACTED SUBGRADE. (SEE SLAB ON GRADE DETAILS
FOR PLACEMENT OF REINFT)

1. FIBER REINFORCED CONCRETE IS AN ACCEPTABLE
ALTERNATIVE TO WELDED WIRE FABRIC. REINFORCED
CONCRETE FIBERS SHALL BE 100% VIRGIN
POLYPROPYLENE, FILBRULATED FIBERS AS MANUFACTURED
BY FIBER MESH CO. OR APPROVED EQUIV. APPLIED AT A
RATE OF 1 1/2lbs/CY.

2. T/SLAB EL. = 0'-0". UNO (REFERENCE ONLY) SEE CIVIL DWGS
FOR ACTUAL ELEVATION.

3. ALL CMU BRG WALLS ARE 8", TYP UNO.

4. STEP TYP WHERE SHOWN AND AS REQUIRED TO AVOID
INTERFERENCE W/ OTHER TRADES. SEE TYP STEPPED FTG
DETAIL.

5. ALL FTGS ARE CENTERED BENEATH BEARING WALLS AND
COLUMNS, TYP UNO.

6. REINFT CMU WALLS WITH VERT BAR CENTERED IN GROUT FILLED CELL
AT ENDS, CORNERS AND AT MAX SPACING OF 5' VERT, BAR @ 48" o.c. MAX.

7. SEE "TYP FILLED CELL PARTIAL PLAN" FOR ADDITIONAL INFORMATION.

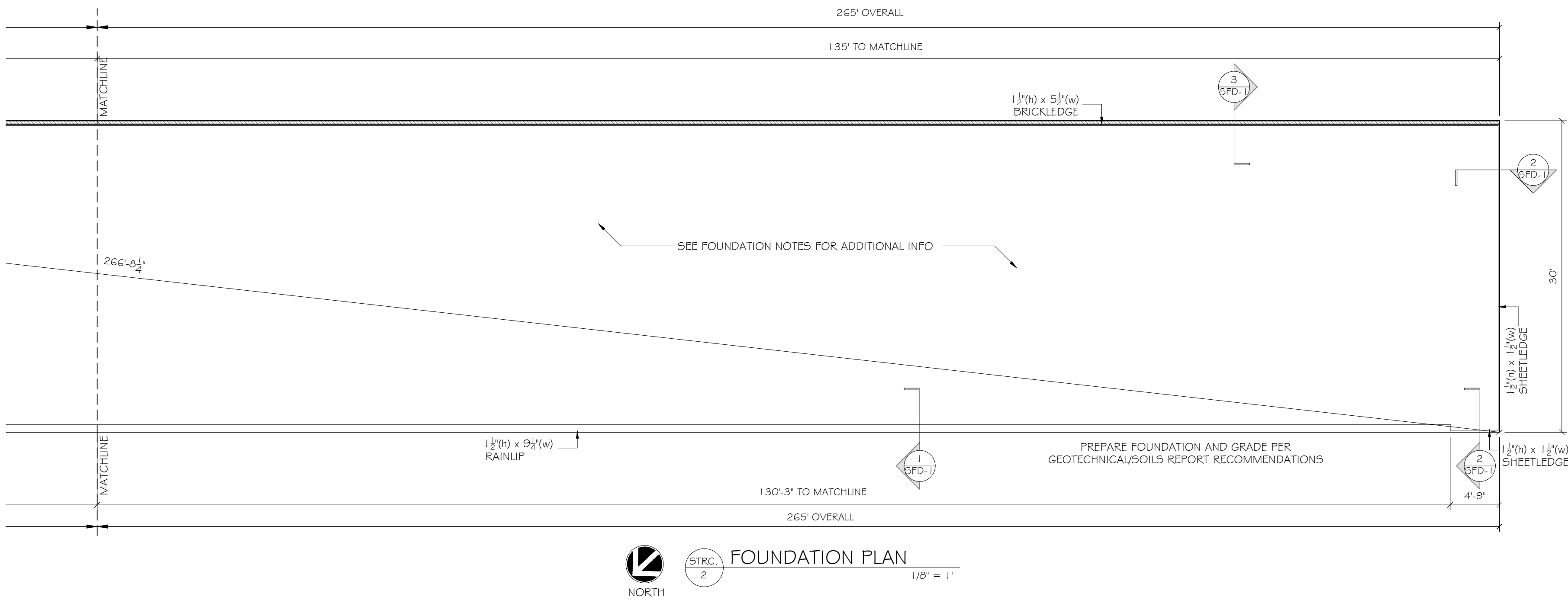
8. TYPICAL SPACING OF FILLED CELLS SHALL APPLY ABOVE AND
BELOW OPENINGS ALSO.

9. SEE GENERAL NOTES SHEETS FOR ADDITIONAL INFORMATION.

10. (2) 4" X 4'-0" LONG @ 3" OC PLACED 2" CLEAR FROM CORNER,
CENTERED IN SLAB, TYP.

11. MAINTAIN STRUCTURAL SLAB THICKNESS AT ALL FLOOR
SLOPES AND DEPRESSIONS.

12. SEE FOUNDATION DETAIL SHEET FOR MIN. SPACING REQUIRED
OF CONTROL JOINTS ON SLAB ON GRADE.



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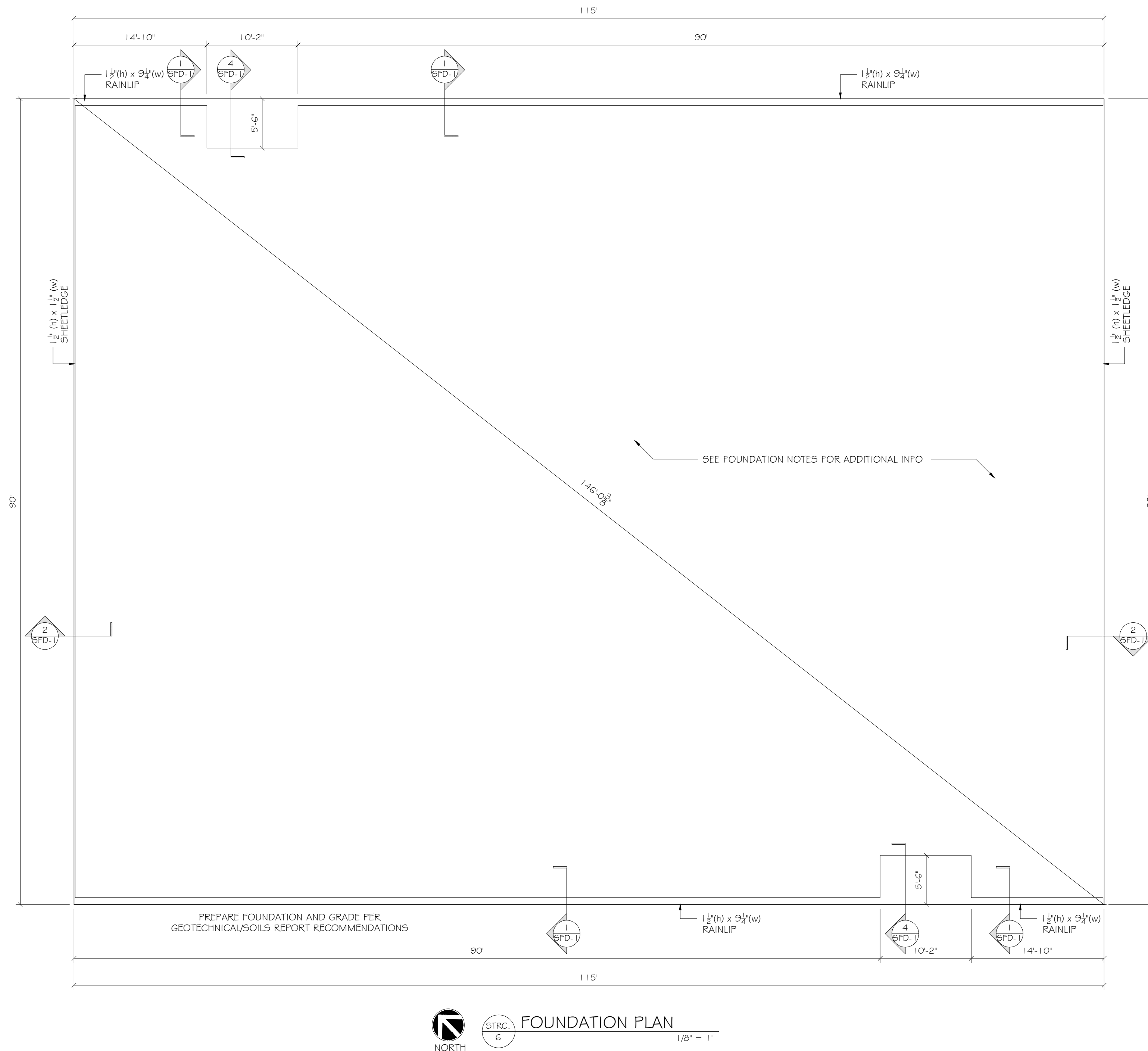
1. WITHOUT EXCEPTION, ALL RAINLIP, SHEETLEDGE AND BLOCKEDGE SHALL BE 1 - 1/2" DOWN FROM THE FINISHED FLOOR ELEVATION.
2. WITHOUT EXCEPTION, ALL DOOR THRESHOLD SHALL BE 3" DOWN FROM THE FINISHED FLOOR ELEVATION.
3. G.C. SHALL VERIFY WIDTH OF RAINLIP, SHEETLEDGE, BLOCKEDGE AND DOOR THRESHOLD WITH CONTRACT DOCUMENTS PRIOR TO FORMING SLAB EDGE.
4. IN THE ABSENCE OF RAINLIP, SHEETLEDGE, BLOCKEDGE OR DOOR THRESHOLD BEING SPECIFIED ON THE PLANS, THE G.C. SHALL VERIFY IN WRITING WITH THE STEEL CONTRACTOR THE INTENT PRIOR TO FORMING SLAB EDGE.
5. RAINLIP, SHEETLEDGE, BLOCKEDGE AND DOOR THRESHOLD ARE VITAL TO THE PROPER FIT OF THE STEEL CONNECTION.
6. G.C. SHALL FIELD VERIFY THE RAINLIP, SHEETLEDGE, AND BLOCKEDGE HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH CONTRACT DOCUMENTS BEFORE STEEL CONSTRUCTION BEGINS.



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- SINGLE STORY FOUNDATION PLAN NOTES:

1. FLOOR SLAB SHALL BE 4" THICK, $F_c=3,000\text{psi}$ CONCRETE REINF W $\#6\text{ W}1.4\text{W}1.4$ WWF OVER 10 MIL VAPOR BARRIER ON COMPACTED SUBGRADE. (SEE SLAB ON GRADE DETAILS FOR PLACEMENT OF REINF)
- 1a. FIBER REINFORCED CONCRETE IS AN ACCEPTABLE ALTERNATIVE TO WELDED WIRE FABRIC. REINFORCED CONCRETE FIBERS SHALL BE 100% VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS AS MANUFACTURED BY FIBER MESH CO, OR APPROVED EQUAL APPLIED AT A RATE OF 1 1/2lbs/CY.
2. T/SLAB EL = 0'-0". UNO. (REFERENCE ONLY) SEE CIVIL DWGS FOR ACTUAL ELEVATION.
3. ALL CMU BRG WALLS ARE 8", TYP UNO.
4. STEP FTG WHERE SHOWN AND AS REQUIRED TO AVOID INTERFERENCE W/ OTHER TRADES. SEE TYPED FTG DETAIL
5. ALL FTGS ARE CENTERED BENEATH BEARING WALLS AND COLUMNS, TYP UNO.
6. REINF CMU WALLS WITH VERT BAR CENTERED IN GROUT FILLED CELL AT ENDS, CORNERS AND AT MAX SPACING OF #5 VERT, BAR @ 48"o.c. MAX.
7. SEE "TYP FILLED CELL PARTIAL PLAN" FOR ADDITIONAL INFORMATION.
8. TYPICAL SPACING OF FILLED CELLS SHALL APPLY ABOVE AND BELOW OPENINGS ALSO.
9. SEE GENERAL NOTES SHEETS FOR ADDITIONAL INFORMATION.
- (2) #4 x 4'-0" LONG @ 3' C/C PLACED 2" CLEAR FROM CORNER, CENTERED IN SLAB, TYP.
10. MAINTAIN STRUCTURAL SLAB THICKNESS AT ALL FLOOR SLOPES AND DEPRESSIONS.
11. SEE FOUNDATION DETAIL SHEET FOR MIN. SPACING REQUIRED OF CONTROL JOINTS ON SLAB ON GRADE.

SEE GENERAL NOTES SHEETS FOR ADDITIONAL INFORMATION.

(2) #4 x 4'-0" LONG @ 3" C/C PLACED 2" CLEAR FROM CORNER, CENTERED IN SLAB, TYP.

MAINTAIN STRUCTURAL SLAB THICKNESS AT ALL FLOOR SLOPES AND DEPRESSIONS.

SEE FOUNDATION DETAIL SHEET FOR MIN. SPACING REQUIRED
OF CONTROL JOINTS ON SLAB ON GRADE.

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1. FLOOR SLAB SHALL BE 4" THICK, $F_c = 3,000 \text{ psi}$ CONCRETE REINIF W/ #6 W1.4xW1.4 WVF OVER 10 MIL WATER BARRIER ON COMPACTED SUBGRADE. (SEE SLAB ON GRADE DETAILS FOR PLACEMENT OF REINIF)
- 1a. FIBER REINFORCED CONCRETE IS AN ACCEPTABLE ALTERNATIVE TO WELDED WIRE FABRIC. REINFORCED CONCRETE FIBERS SHALL BE 100% VIRGIN POLYPROPYLENE, FIBRILLATED FIBERS AS MANUFACTURED BY FIBER MESH CO. OR APPROVED EQUAL AVAILABLE AT A RATE OF 1 1/2lbs/CY.
2. T/SLAB EL = 0'-0" UNO. (REFERENCE ONLY) SEE CIVIL DWGS FOR ALTERNATE VATION.
3. ALL CMU BRG WALLS ARE 8", TYP UNO.
4. STEP FTG WHERE SHOWN AND AS REQUIRED TO AVOID INTERFERENCE W/ OTHER TRADES. SEE TYP STEPPED FTG DETAIL.
5. ALL FTGS ARE CENTERED BENEATH BEARING WALLS AND COLUMNS, TYP UNO.
6. REINIF CMU WALLS WITH VERT BAR CENTERED IN GROUT FILLED CELL AT ENDS, CORNERS AND AT MAX SPACING OF #5 VERT, BAR @ 48" c/c. MAX.
7. SEE "TYP FILLED CELL PARTIAL PLAN" FOR ADDITIONAL INFORMATION.
8. TYPICAL SPACING OF FILLED CELLS SHALL APPLY ABOVE AND BELOW OPENINGS ALSO.
9. SEE GENERAL NOTES SHEETS FOR ADDITIONAL INFORMATION.
9. (2) #4 x 4'-0" LONG @ 3' C/C PLACED 2' CLEAR FROM CORNER, CENTERED IN SLAB, TYP.
10. MAINTAIN STRUCTURAL SLAB THICKNESS AT ALL FLOOR SLOPES AND DEPRESSIONS.
11. SEE FOUNDATION DETAIL SHEET FOR MIN. SPACING REQUIRED FOR CONTROL JOINTS ON SLAB ON GRADE.

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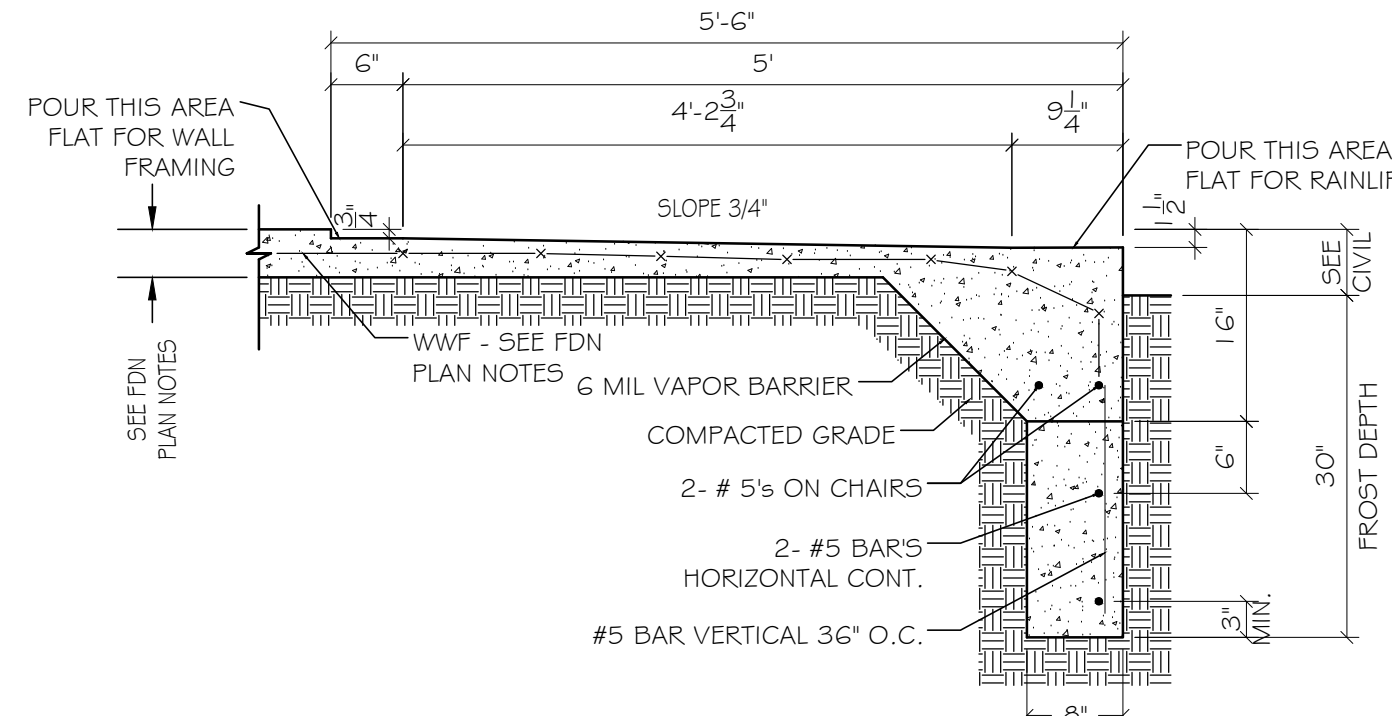
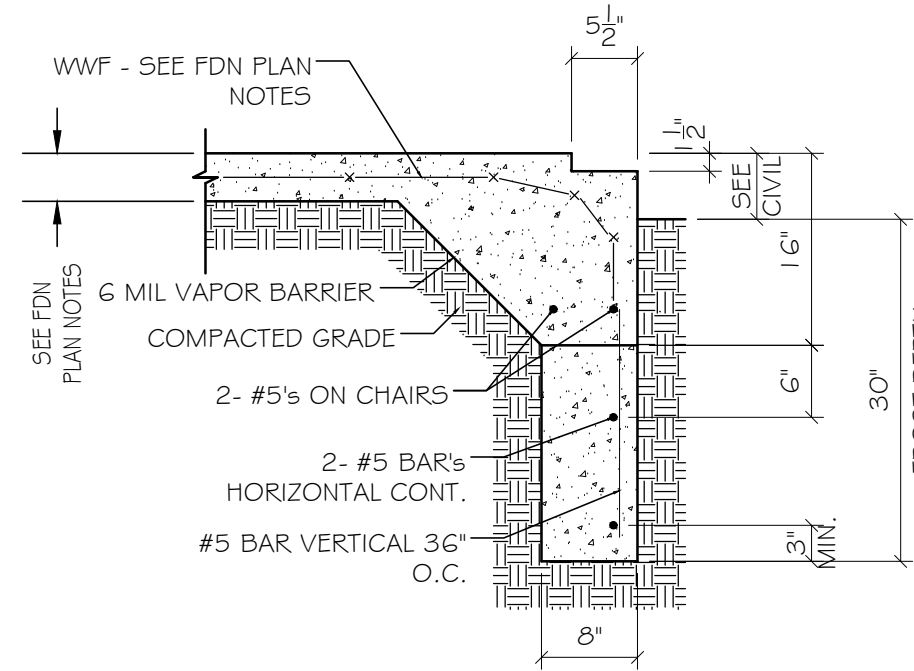
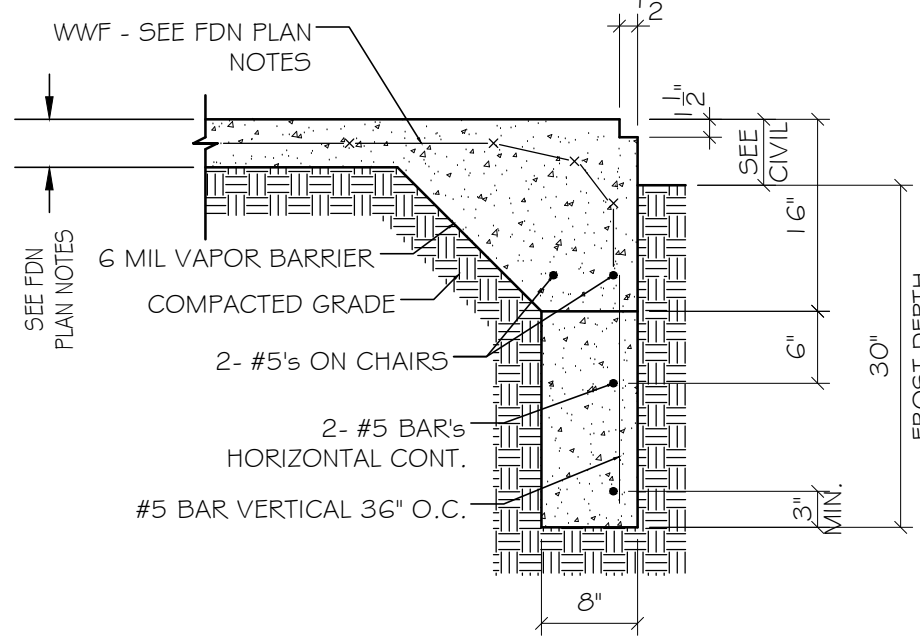
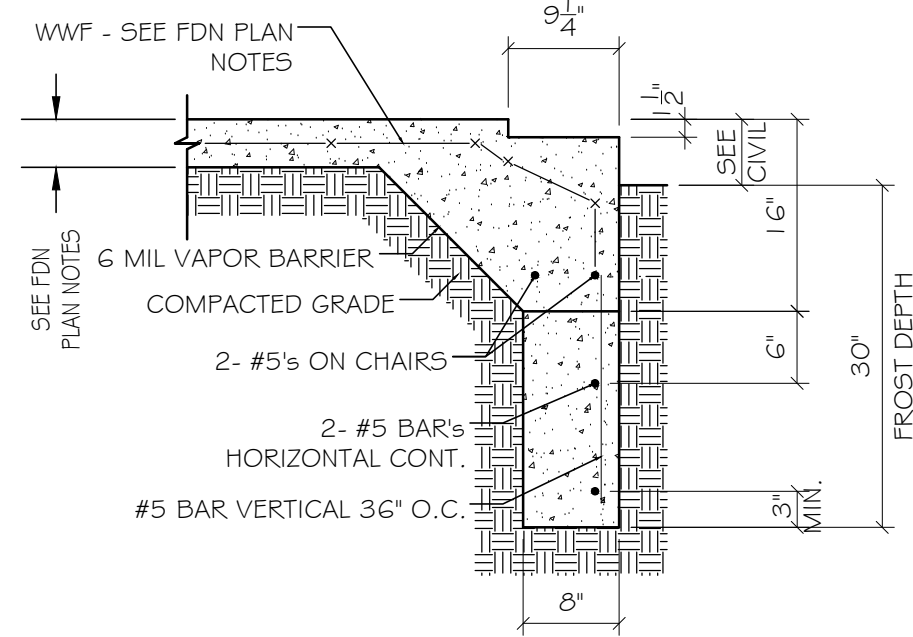
PROFESSIONAL SEAL: ROBERT M. BEATTIE, PE
10000 N. 100TH AVE., SUITE 100
MCCORDSVILLE, IN 46055
PHONE: (317) 435-1111
FAX: (317) 435-1112
WWW.MAKORABCO.COM

SHEET TITLE

STRC.
FOUNDATION DETAILS

DATE 09-21-23
DRAWN BY FOR 5
CHECKED BY xxx
JOB NO. E-2726
SCALE AS NOTED
SHEET

SFD-1

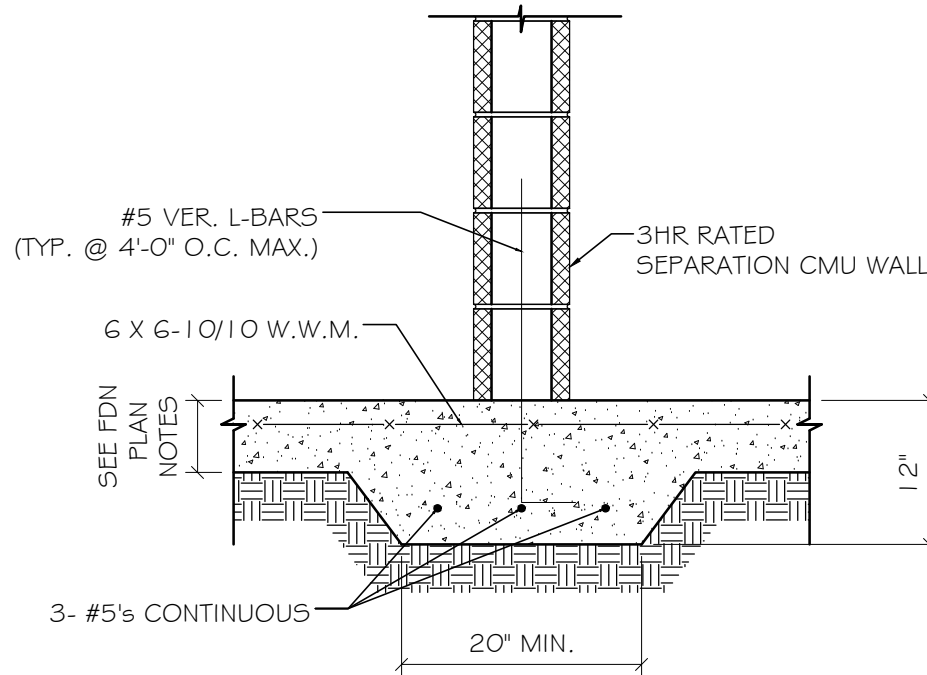


1 TYPICAL FOUNDATION DETAIL AT RAINLIP
SFD-1 SCALE: 3/4" = 1'

2 TYPICAL FOUNDATION DETAIL AT SHEETLEDGE
SFD-1 SCALE: 3/4" = 1'

3 TYPICAL FOUNDATION DETAIL AT BRICKLEDGE
SFD-1 SCALE: 3/4" = 1'

4 FOUNDATION DETAIL AT RECESSED ENTRY FOR 6" FRAMING AT RAINLIP
SFD-1 SCALE: 3/4" = 1'



8 FOUNDATION DETAIL AT CMU FIRE WALL
SFD-1 SCALE: 3/4" = 1'

CASE #1 (± 5'-0" COL. SPACING)

CASE #2 (± 2'-6" COL. SPACING)

CRACK CONTROL JOINT:
1/8" SAW CUT TO BE MADE WITH
IN 24 HRS OF SLAB POUR (± 2
hrs) (TYP. UON.)

WWF AT MID-DEPTH OF SLAB
D:DEPTH OR THICKNESS OF SLAB
(SEE PLANS)

TYPICAL SLAB CONTROL JOINT

* IMPORTANT:
RAIN LIP AND SHEET LEDGE ARE VITAL TO THE
PROPER FIT OF THE STEEL CONSTRUCTION.
CONTRACTOR TO FIELD VERIFY THE SHEET LEDGES
AND RAIN LIPS AND IF THEY ARE NOT TO THE
DRAWING, CONTACT METAL BUILDING COMPANY
BEFORE STEEL CONSTRUCTION BEGINS.

MAXIMUM SPACING OF CONTROL JOINTS SHALL BE AS SHOWN IN THE TABLE BELOW. PATTERNS
SHALL BE APPROXIMATELY SQUARE W/ RATIO OF LONG SIDE TO SHORT SIDE NOT TO EXCEED 1.5 TO 1.0.

SLAB THICKNESS (IN.)	4	5	6	7	8	9	10
SPACING (FT.)	12	13	15	18	20	23	25

CONTROL JOINT CUT PLACEMENT