



BORGA

STEEL BUILDINGS & COMPONENTS

STRUCTURAL DRAWINGS

PREPARED FOR

CLOVIS UNIFIED SCHOOL DISTRICT

40'-0" X 80'-0" X 17'-0"

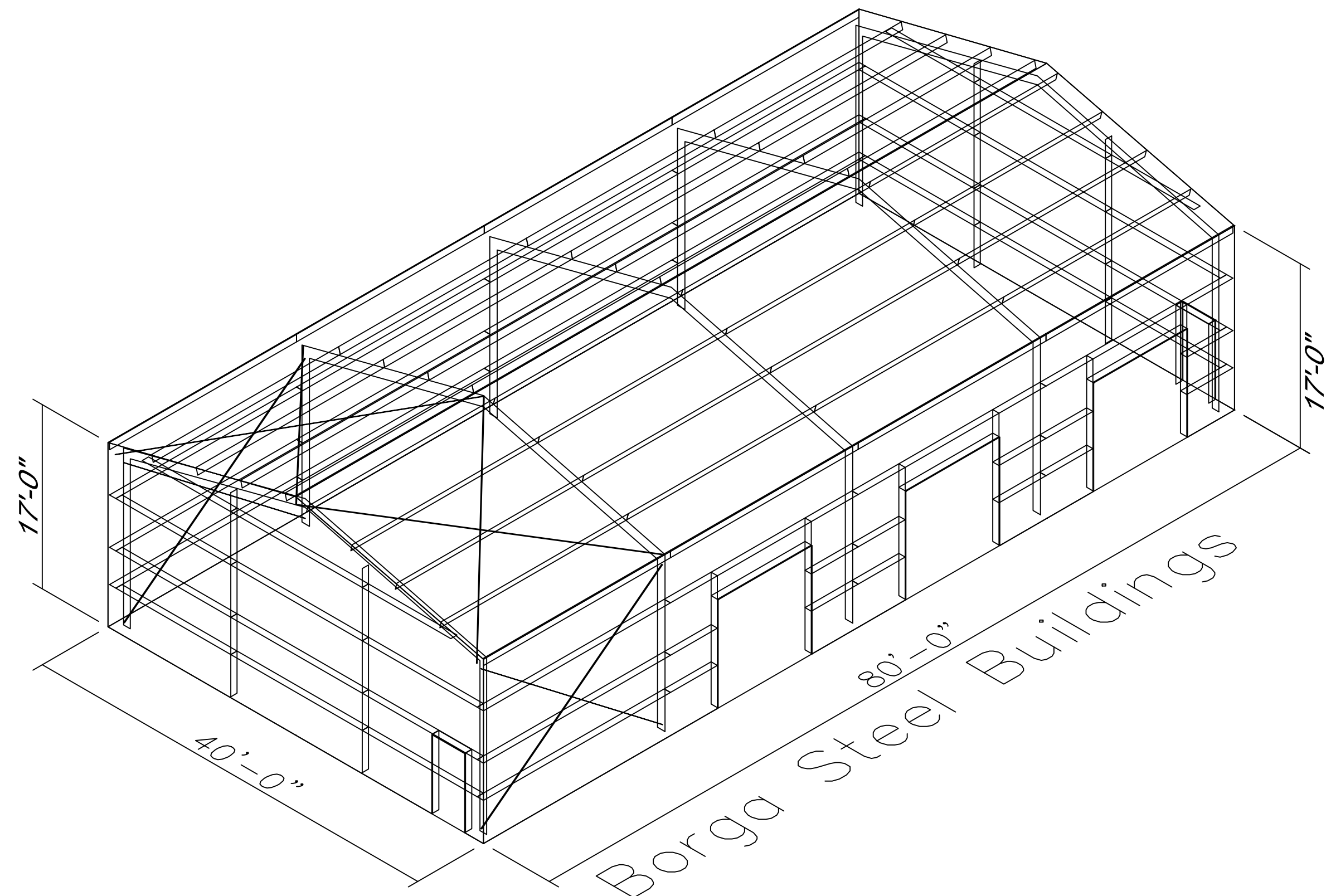
36.854926. -119.712999

CLOVIS, CA 93619

COUNTY: FRESNO

DRAWING INDEX

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THE CERTIFYING ENGINEER HERewith IS NOT THE ENGINEER OF RECORD FOR THE OVERALL PROJECT AND IS ONLY CERTIFYING THAT THE DESIGN OF THE METAL BUILDING STRUCTURAL COMPONENTS FURNISHED BY BORGA STEEL BUILDING SYSTEMS SATISFY THE DESIGN REQUIREMENTS SPECIFIED BELOW AND ON THE BORGA CONTRACT. THIS CERTIFICATION EXCLUDES THE ERECTION OF THE STRUCTURE.

MATERIAL NOTES:

MATERIALS	ASTM DESIGNATION	GRADE
3-PLATE WELDED MEMBERS		
FLANGES	ASTM A529, A572, A1011	GRADE 55
WEBS	ASTM A529, A572, A1011	GRADE 50
PLATES	ASTM A529, A572, A1011	GRADE 50
COLD-FORMED, LIGHT GAUGE MEMBERS	ASTM A653, A1011	GRADE 55
HOT-ROLLED W-SHAPES	ASTM A529, A572, A992	GRADE 50
OTHER HOT-ROLLED MEMBERS	ASTM A36	GRADE 36
HOLLOW SECTIONAL MEMBERS (HSS)	ASTM A500	GRADE B
BRACED ROD	ASTM A510, A572	GRADE 50
CLADDING	ASTM A792, A653	GRADE 50 OR 80

USE MATCHING FILLER METAL OR FILLER METAL WITH A STRENGTH LEVEL ONE STRENGTH LEVEL GREATER THAN MATCHING PER AWS D1.1.

REFER TO APPROPRIATE FRAMING PLANS FOR GIRT, PURLIN, EAVE STRUT, AND ROD SIZES. REFER TO DETAIL SMP1 FOR "CEE", "ZEE", AND EAVE STRUT PROFILES. REFER TO DETAIL WPM1 FOR WELDED-PLATE PROFILE TABLE.

BOLT TIGHTENING REQUIREMENTS:

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR/ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS AND AHJ (AUTHORITY HAVING JURISDICTION) AND ENGINEER OF RECORD (EOR) REQUIREMENTS.
- UNLESS OTHERWISE REQUIRED BY THE AHJ OR CONTRACT DOCUMENTS, HIGH-STRENGTH BOLT TIGHTNESS (A325), SNUG-TIGHT OR PRE-TENSIONED, SHALL BE PROVIDED IN ACCORDANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS" AND AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS: AS FOLLOWS:
 - SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS ARE TO BE SNUG TIGHT UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE BORGA DRAWINGS
 - PRIMARY FRAMING, INCLUDING BUT NOT LIMITED TO, RIGID FRAME, RAFTER TO COLUMN AND RAFTER TO RAFTER CONNECTIONS, SHALL BE PRE-TENSIONED.
 - WIND BENT / PORTAL FRAME CONNECTIONS AND CONNECTORS TO PRIMARY RIGID FRAMES SHALL BE PRE-TENSIONED
 - BUILDING CONNECTIONS SUPPORTING CRANES OVER A 5-TON CAPACITY AND BUILDING CONNECTIONS SUPPORTING MACHINERY THAT CREATE VIBRATION, IMPACT OR STRESS REVERSALS ON CONNECTIONS SHALL BE PRE-TENSIONED.
 - A490 HIGH STRENGTH BOLTS SHALL BE PRE-TENSIONED.
- THE TURN-OF-NUT METHOD FOR PRE-TENSIONING HIGH-STRENGTH BOLTS IS RECOMMENDED (OR OTHER APPROVED METHODS)

BASIS OF DESIGN:

BUILDING CODE	CBC 19
RISK CATEGORY	II - Normal
ROOF DEAD LOAD	2.500 PSF
ROOF LIVE LOAD	20.00 PSF REDUCIBLE: Yes
COLLATERAL LOAD	1 PSF
GROUND SNOW LOAD	0 PSF
ROOF SNOW LOAD	0 PSF
BASIC WIND SPEED	95 MPH
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	0.18 / -0.18
WIND LOAD DESIGN METHOD:	LOW-RISE BUILDING METHOD
SEISMIC IMPORTANCE FACTOR	1.00
MAPPED SPECTRAL RESPONSE ACCELERATION	S _s = 0.5330 S ₁ = 0.2130
SITE CLASS	D
SITE COEFFICIENT	F _a = 1.3736 F _v = 2.1740
SPECTRAL RESPONSE COEFFICIENT	S _{ds} = 0.488 S _{d1} = 0.309
SEISMIC DESIGN CATEGORY	D
SEISMIC RESPONSE COEFFICIENT	
ORDINARY MOMENT FRAME	C _s = 0.1395
ORDINARY CONCENTRICALLY BRACED FRAME	C _s = 0.1502
ORDINARY CANTILEVER COLUMN	N/A
RESPONSE MODIFICATION FACTORS	
ORDINARY MOMENT FRAME	R = 3.5000
ORDINARY CONCENTRICALLY BRACED FRAME	R = 3.2500
ORDINARY CANTILEVER COLUMN	N/A
SEISMIC LOAD DESIGN METHOD:	EQUIVALENT LATERAL FORCE METHOD
ALLOWABLE SOIL BEARING:	REFER TO FOUNDATION DESIGN,
CONCRETE STRENGTH:	BY OTHERS (NOT BY BORGA)

WHEN MULTIPLE BUILDINGS ARE INVOLVED, ENCLOSED, OPEN, AND PARTIAL BUILDING TYPES MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED ABOVE. SEE DESIGN REPORT FOR FURTHER INFORMATION.

GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE SECTION OF THE CALIFORNIA BUILDING CODE 2019, 2019 CMC, 2019 CPC, AND 2019 CEC, AND ALL OTHER PUBLICATIONS AND STANDARDS LISTED HEREIN.
- ALL DETAILS SHOWN ON STRUCTURAL DRAWINGS ARE TYPICAL. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS
- DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER SCALE ON STRUCTURAL PLANS, SECTIONS AND DETAILS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
- FRAMING AND DETAIL CONDITIONS SPECIFIED BY STRUCTURAL PLANS SHALL NOT BE CHANGED WITHOUT WRITTEN PERMISSION BY THE ENGINEER AND THE ARCHITECT.
- LOADS SHALL NOT EXCEED DESIGN LOADS OF BUILDING.
- BORGA STEEL BUILDINGS AND COMPONENTS AND THE ENGINEER (BORGA) ARE NOT RESPONSIBLE FOR, AND DO NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES FOR JOB SITE CONDITIONS, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. THE CONTRACTOR IS REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROTECTION OF ALL PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE STRUCTURAL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICES TO RESIST CODE REQUIRED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AS PRESCRIBED BY THE GOVERNING BUILDING CODES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEASURES NECESSARY TO PROTECT THE STRUCTURES STABILITY DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION PROCEDURES, JOB SITE SAFETY, ERECTION MEANS, METHODS AND SEQUENCES, TEMPORARY SHORING, FORMWORK, BRACING AND USE OF EQUIPMENT.

CONSTRUCTION PREPARATIONS:

- PRIOR TO ORDERING FABRICATION AND INSTALLING, THE CONTRACTOR/OWNER SHALL HAVE REVIEWED THE REQUIREMENTS OF THESE DRAWINGS AND COORDINATED WITH ALL OTHER DISCIPLINES AND SITE CONDITIONS.
- THE CONTRACTOR/OWNER MUST VERIFY THAT ALL INFORMATION IN THESE DRAWINGS, INCLUDING BUT NOT LIMITED TO LAYOUT, DIMENSIONS, GIRT SIZES/SPACING, SETBACKS AND OPENINGS ARE CORRECT AND REPORT ANY DISCREPANCIES TO BORGA STEEL BUILDINGS & COMPONENTS BEFORE BEGINNING POURING FOUNDATION, CONSTRUCTION OR FABRICATION OF THE BUILDING.
- THE CONDITION OF ALL STEEL MATERIAL SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO INSTALLATION.
- TEMPORARY BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS IMPOSED UPON THE STRUCTURE DURING THE ERECTION PROCESS.
- BORGA IS NOT RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. BORGA IS NOT RESPONSIBLE FOR, AND DOES NOT HAVE CONTROL OR CHARGE OF, ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OF THEIR AGENTS OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE CONSTRUCTION WORK. THE CONTRACTOR SHALL HOLD BORGA STEEL BUILDINGS AND COMPONENTS AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

SPECIAL INSPECTION:

- IN ACCORDANCE WITH CBC SECTION 110, 1704 AND 1705, THE OWNER SHALL EMPLOY AN INDEPENDENT AGENCY TO PERFORM REQUIRED SPECIAL INSPECTIONS, TESTS AND REPORTING DURING CONSTRUCTION PER THE REQUIREMENTS OF CBC CHAPTER 17, THE LOCAL AUTHORITY HAVING JURISDICTION AND THE CONTRACT DOCUMENTS.
- FIELD WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER FOR EACH TYPE OF JOINT AND POSITION IN ACCORDANCE WITH GOVERNING REQUIREMENTS. (AWS) FIELD WELDING SPECIAL INSPECTION AND REPORTING SHALL BE PROVIDED BY AN APPROVED SPECIAL INSPECTION AGENCY RETAINED BY THE OWNER.
- HIGH-STRENGTH BOLTING SPECIAL INSPECTION AND TESTING AND REPORTING REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ) DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE OWNER OR OWNER'S AUTHORIZED AGENT. WHEN REQUIRED, THE OWNER SHALL EMPLOY A QUALITY ASSURANCE AGENCY APPROVED BY THE AHJ.
- BORGA STEEL BUILDINGS & COMPONENTS SHALL BE INSPECTED BY A REGISTERED SPECIAL INSPECTOR. SHOP WELDING, MILL CERTIFICATIONS, WELDERS CERTIFICATIONS, AND EQUIPMENT CALIBRATION SHALL BE INSPECTED BY:

NATHAN A. STOLL
QUALITY CONTROL MANAGER
BORGA STEEL BUILDINGS AND COMPONENTS, INC
CWI CERTIFICATE 14040013
PHONE : (559) 834-5375

DRAWING STATUS

APPROVAL SET (PERMIT USE ONLY):
THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL IN THAT, AS A MINIMUM, PIECE MARKINGS ARE NOT IDENTIFIED. ONLY DRAWINGS ISSUED "FOR CONSTRUCTION" CAN BE CONSIDERED AS COMPLETE.

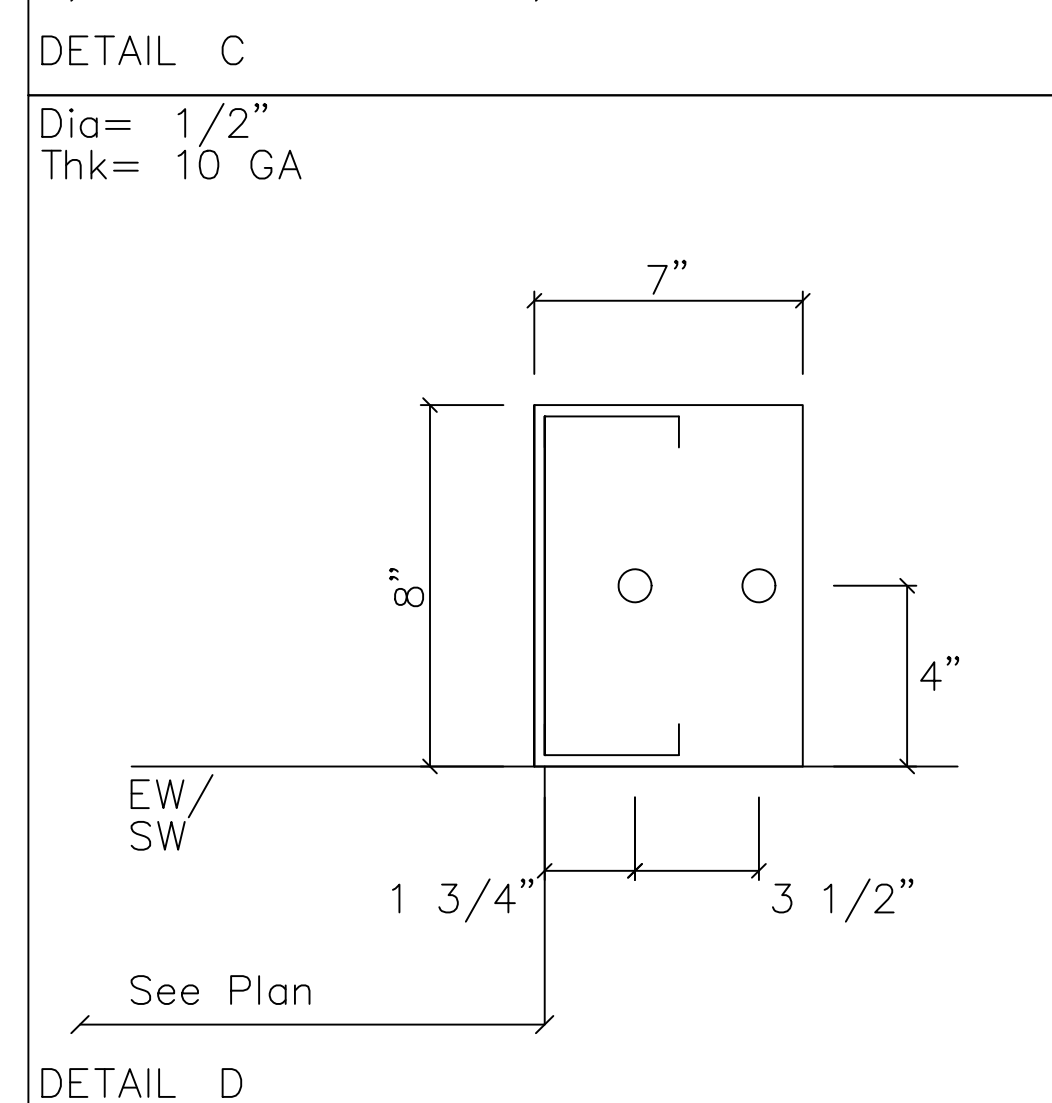
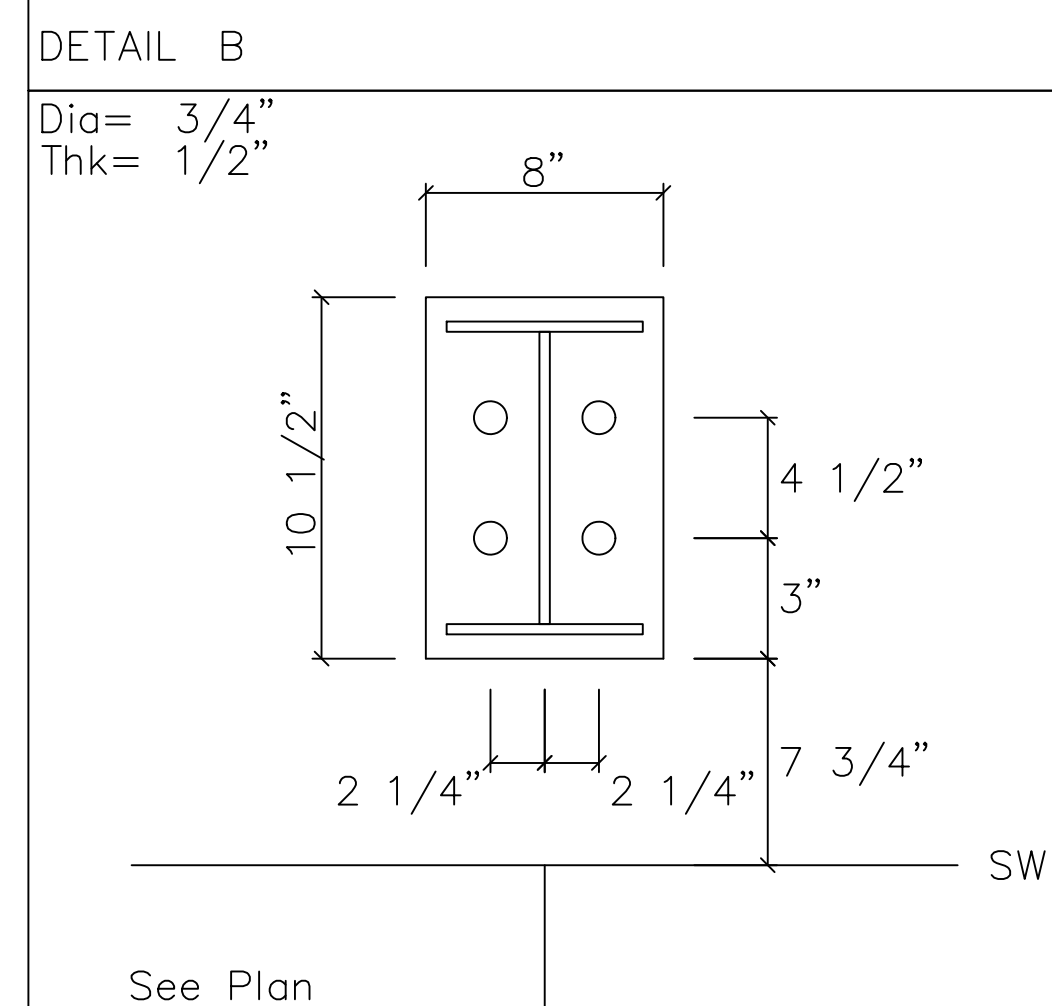
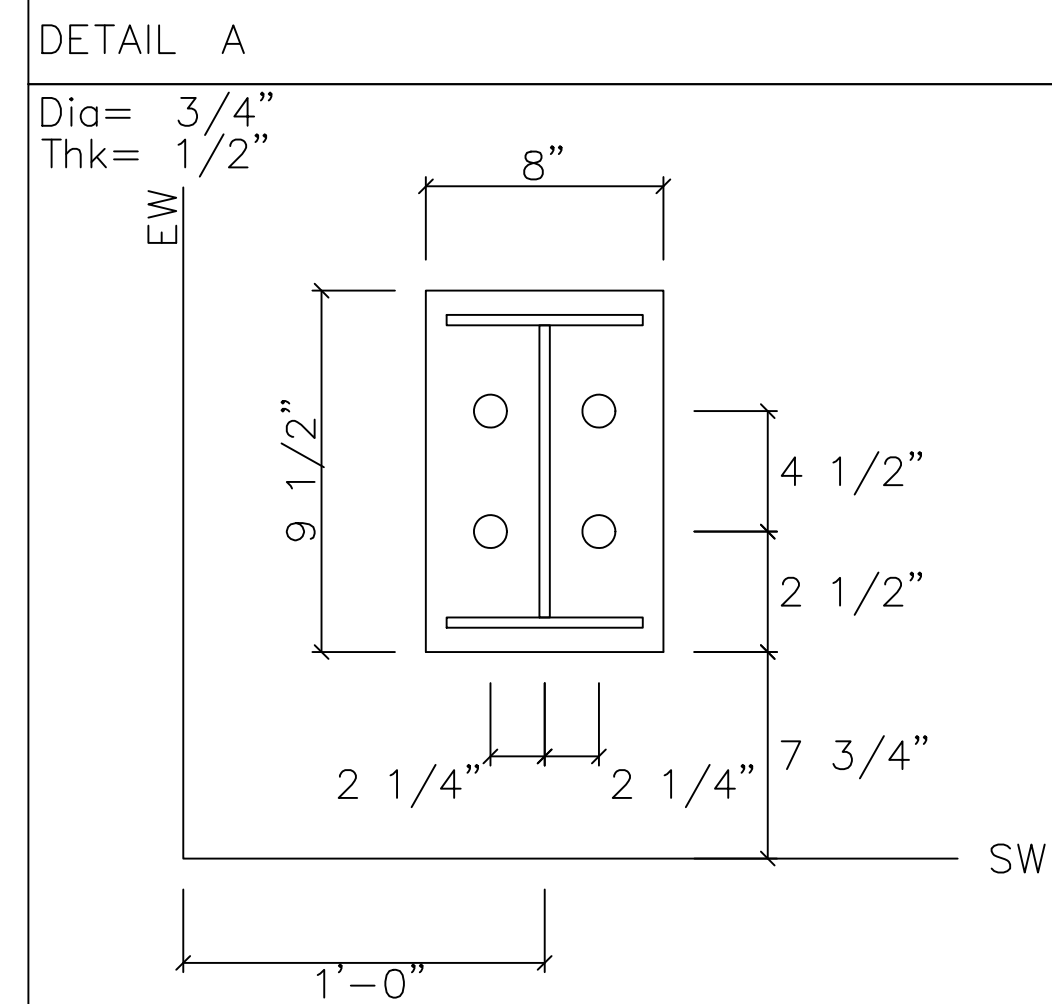
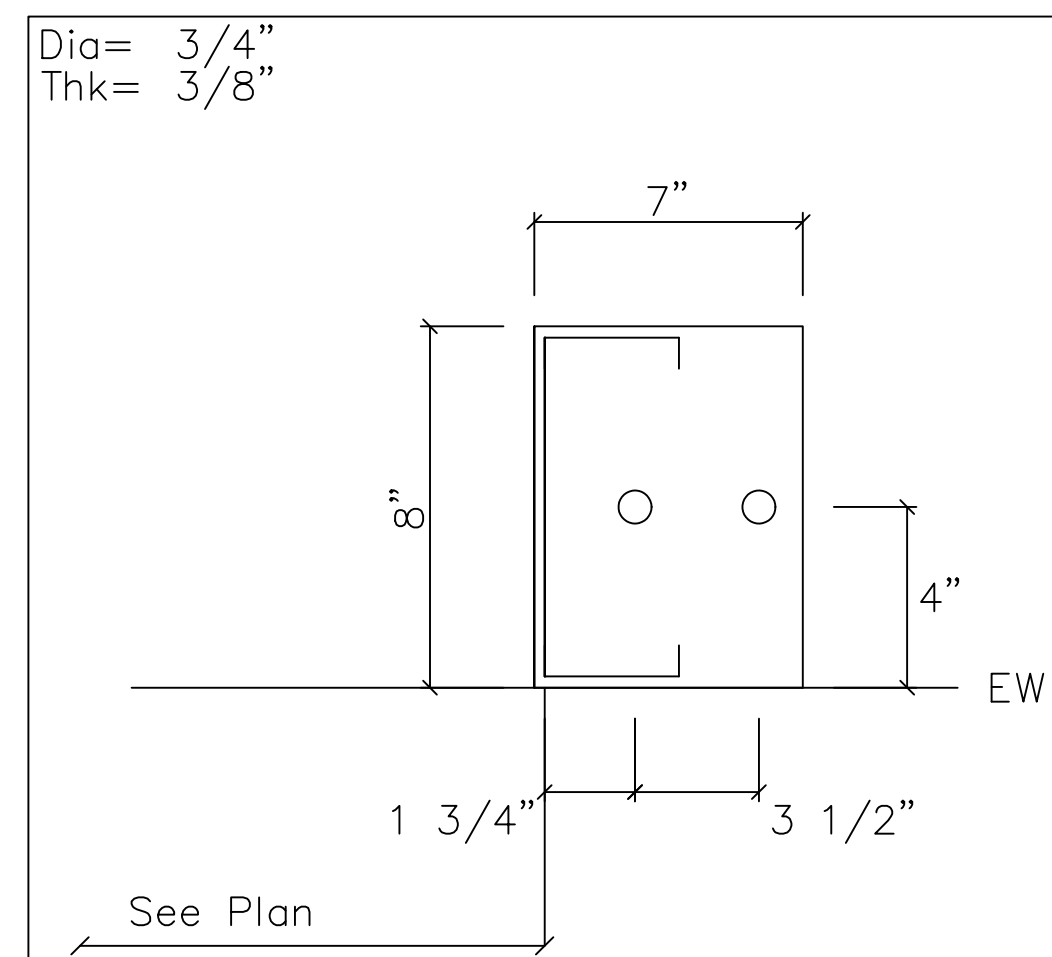
FOR CONSTRUCTION:
FINAL DRAWINGS.

DESIGNED BY:	CI	DATE:	09.12.22
DRAWN BY:	CMH	DATE:	09.12.22
DETAILED BY:		DATE:	
JOB NO.	B22066	SHEET	1 OF 10
CLOVIS UNIFIED SCHOOL DISTRICT		36.854926. -119.712999	
CLOVIS, CA 93619		CLOVIS, CA 93619	
APPROVAL SET (PERMIT USE ONLY)		APPROVAL SET (PERMIT USE ONLY)	

NO.	REVISION	DATE	BY
1			
2			
3			
4			
5			



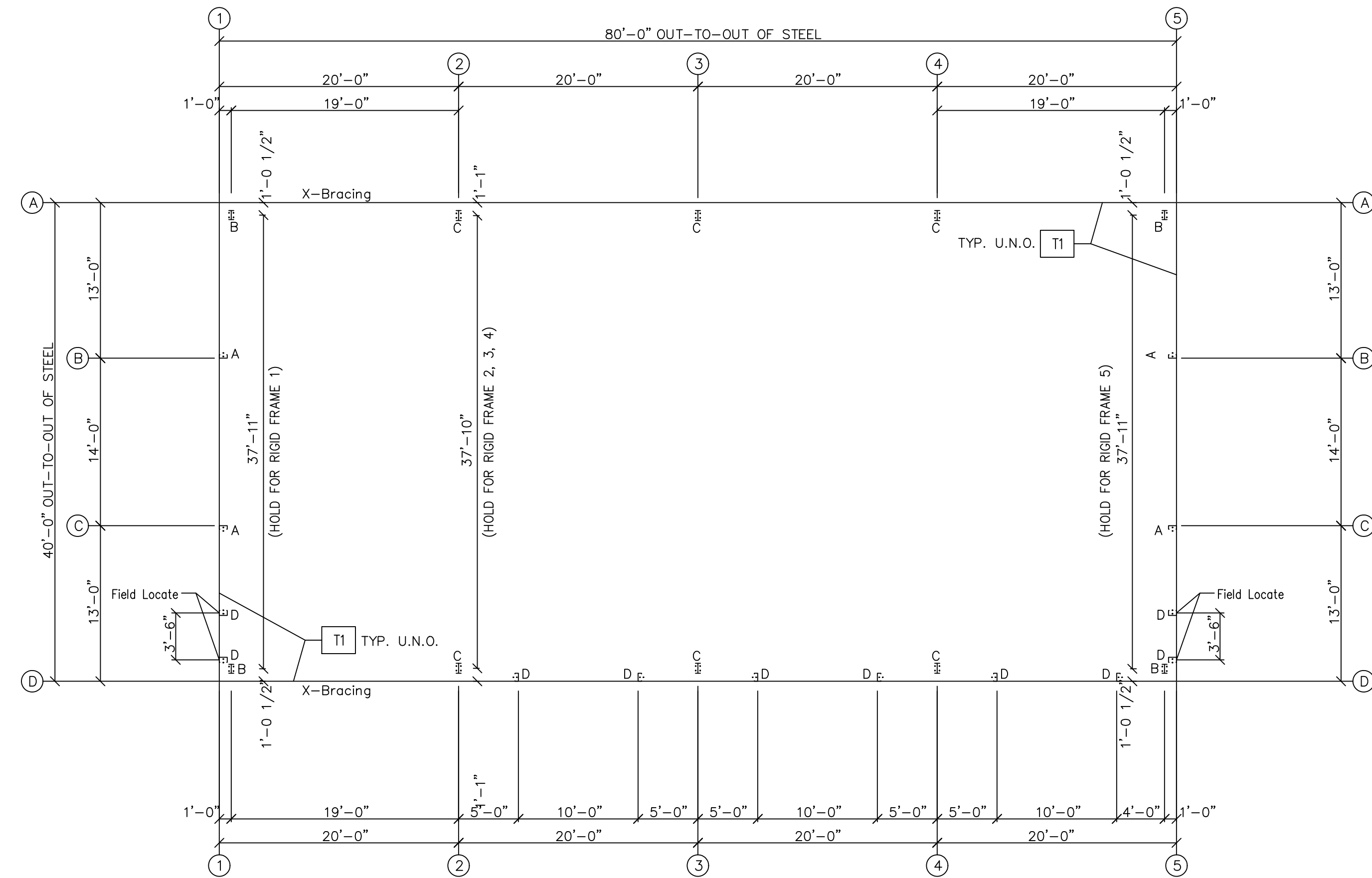
Signed 9/14/2022



DETAIL D

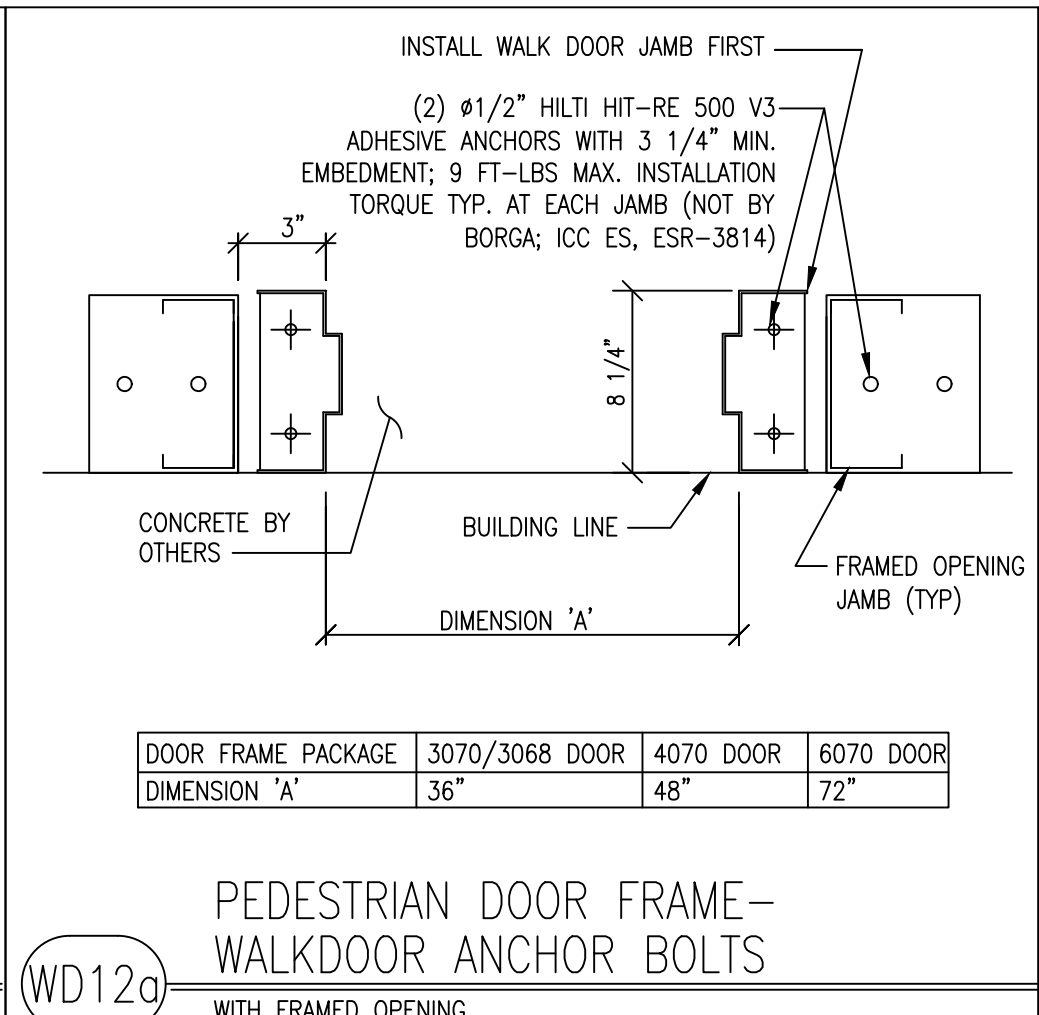
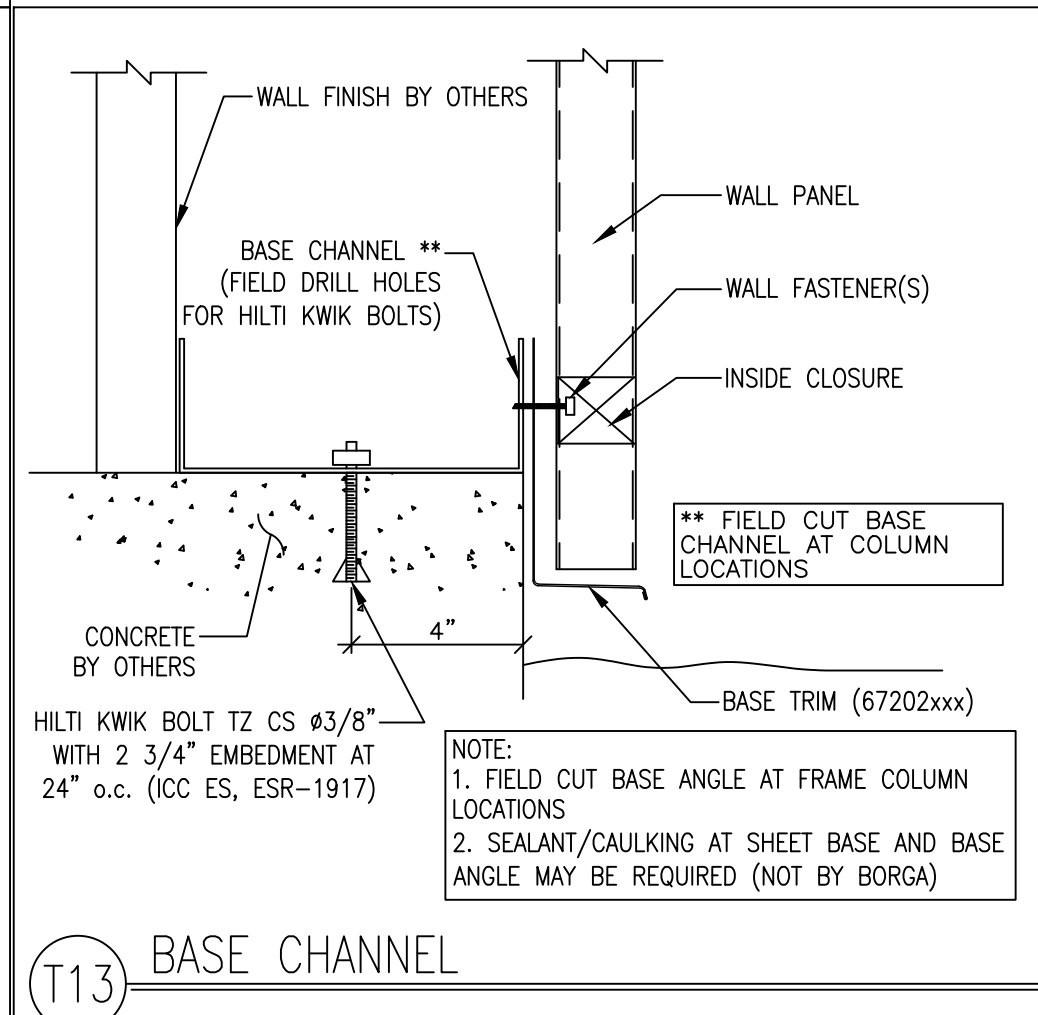
- NOTES:
- USE ONE (1) WASHER AT COLUMN BASE PLATE PER BOLT.
 - REFER TO FOUNDATION ENGINEERS CALCULATIONS AND PLANS FOR ANCHOR BOLT ANCHORAGE DESIGN.
 - COLUMN REACTIONS FOR INDIVIDUAL UNFACTORED LOADS ARE PROVIDED IN ENGINEERING CALCULATIONS. USE APPROPRIATE LOAD COMBINATION FOR DESIGNING ANCHOR BOLTS ANCHORAGE AND FOOTINGS.
 - ANCHOR BOLT LENGTH SHALL BE DETERMINED BY THE CONTRACTOR

ANCHOR BOLT SUMMARY					
Qty	Locate	Dia (in)	Type	Total Len (in)	Proj (in)
20	Jamb	1/2"			
8	Endwall	3/4"			
40	Frame	3/4"			
			SEE FOUNDATION DESIGN BY OTHERS		



THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN MATCH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS (PROJECT DRAWINGS) PRIOR TO PLACING CONCRETE. ANY DISCREPANCIES SHALL BE RESOLVED, WITH WRITTEN DOCUMENTATION, PRIOR TO PLACEMENT OF CONCRETE.

ANCHOR BOLT PLAN



JOB NO. B22066
DESIGNED BY: CI
DRAWN BY: CMH
DATE: 09.12.22
SHEET 2 OF 10
DETAILED DATE: NONE
SCALE: NONE

CLOVIS UNIFIED SCHOOL DISTRICT
36.854926. -119.712999
CLOVIS, CA 93619

APPROVAL SET (PERMIT USE ONLY)

NO.: REVISED: BY: DATE:

BORGA
STEEL BUILDINGS & COMPONENTS
PHONE: (559) 834-5375
FAX: (559) 834-1406
300 WEST PEACH ST.
P.O. BOX 35 | FOWLER, CA 93625

REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA
C 83684

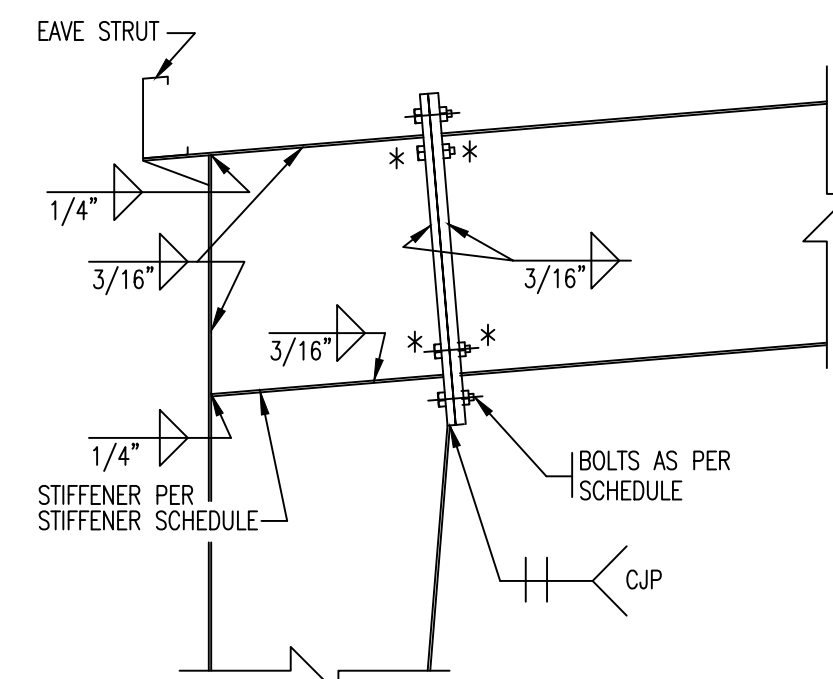
Signed 9/14/2022

FLANGE/ STIFFENER THICKNESS	WELD TYPE	WELD SIZE
1/4"	FILLET	5/16"
5/16"	FILLET	3/8"
3/8"	FILLET	7/16"
GREATER THAN 3/8"	CJP	N/A

NOTES:
 1. ALL FILLET WELDS ARE BOTH SIDES OF FLANGE/STIFFENER. (CJP WELDS MAY BE USED AS AN ALTERNATE.)
 2. ALL CJP WELDS ARE GROOVE WELDS WITH A 5/16" BACKING FILLET WELD

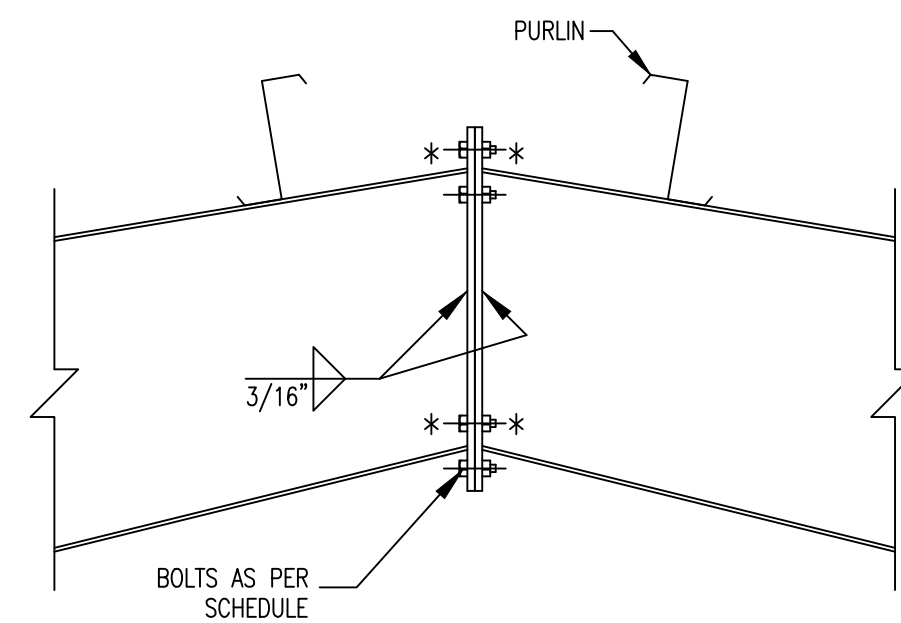
FEPW FLANGE-TO-END PLATE WELD SIZES
 FLANGE-TO-END PLATE SKEW UP TO 30 DEGREES

* SEE TABLE FEPW FOR FLANGE-TO-END PLATE WELD SIZE



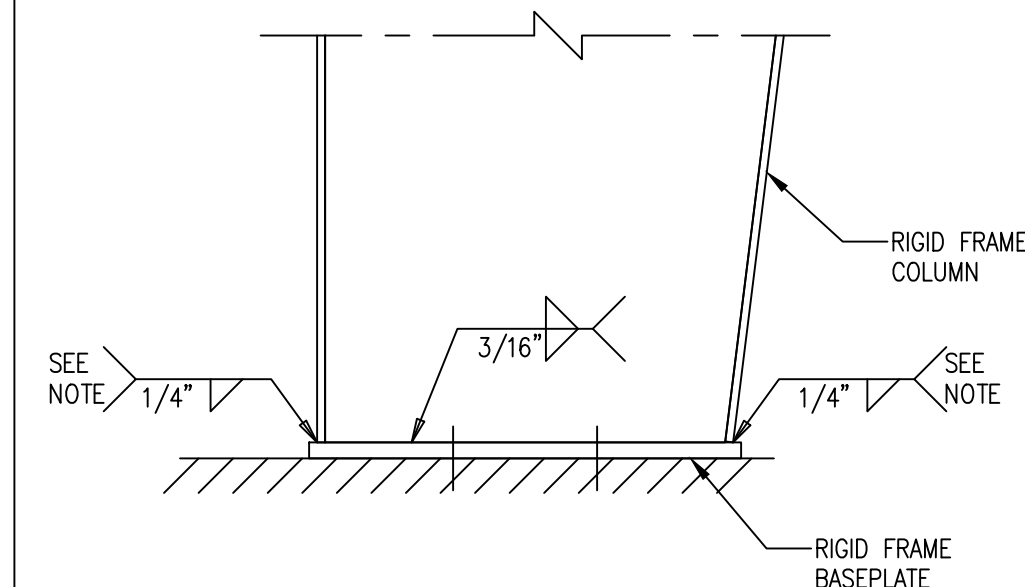
U1 KNEE CONNECTION

* SEE TABLE FEPW FOR FLANGE-TO-END PLATE WELD SIZE



U2 RIDGE CONNECTION

NOTE:
 AT RIGID FRAME COLUMNS THAT ARE ATTACHED TO X-BRACING, WELD BOTH SIDES OF THE FLANGES AND WEBS TO THE BASEPLATE.



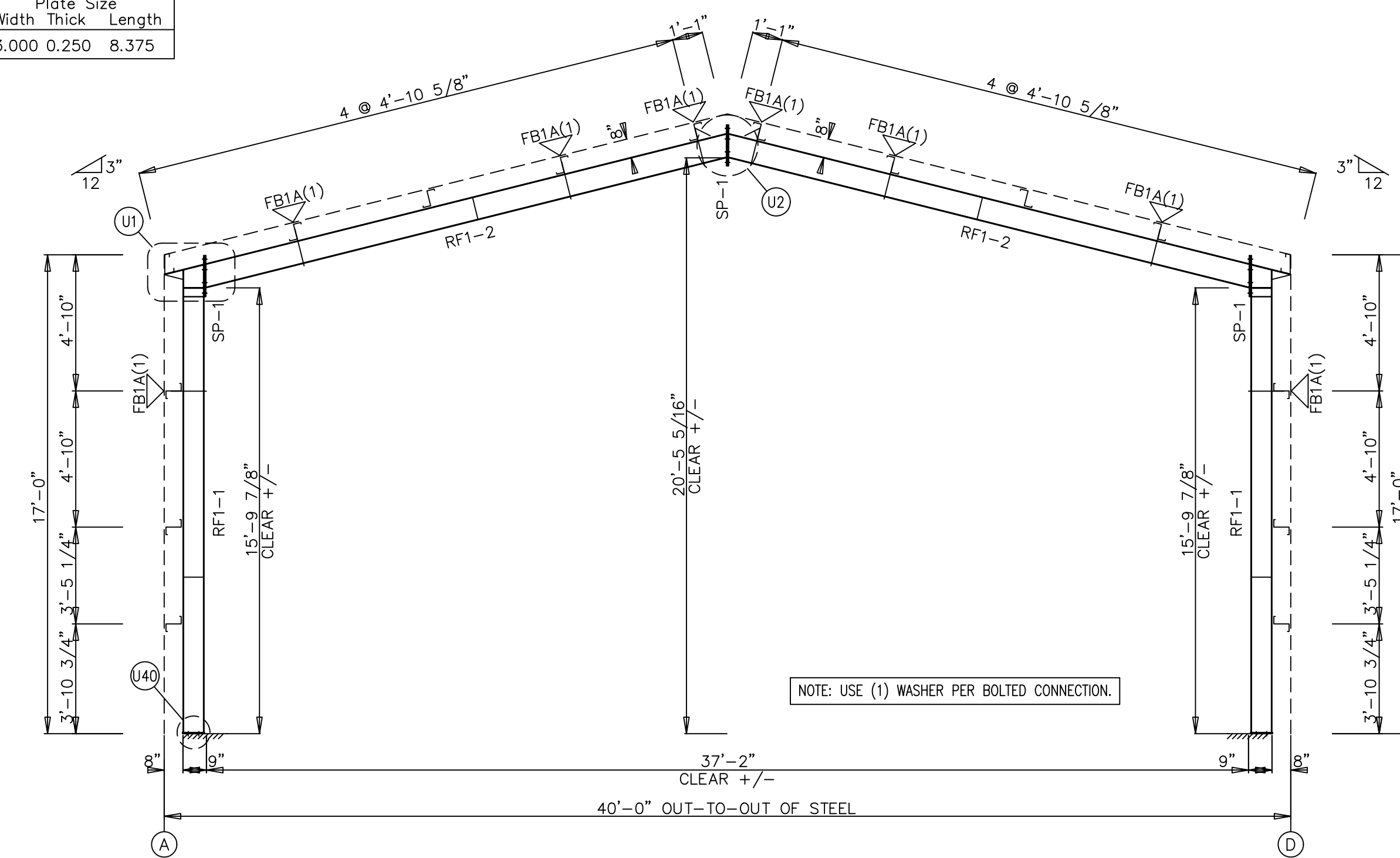
U40 RIGID FRAME COLUMN TO BASEPLATE WELDING

SPLICE PLATE & BOLT TABLE							
Mark	Qty	Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	2.25	8"

FLANGE BRACES: (1) One Side; (2) Two Sides
 FBxxA(1)
 A - L2X2X12g

STIFFENER TABLE				
Mark	Stiff Mark	Width	Thick	Plate Size Length
RF1-1	ST1	3.000	0.250	8.375

MEMBER TABLE						
Mark	Web		Web Plate		Outside Flange	
	Start/End	Thick	Length	W x Thk x Length	W x Thk x Length	Inside Flange
RF1-1	8.5/8.5	0.135	66.2	5 x 1/4" x 197.0	5 x 1/4" x 185.7	
	8.5/8.5	0.135	119.5	6 x 1/4" x 17.2		
	8.5/8.5	0.188	13.5			
RF1-2	9.5/9.5	0.135	119.5	5 x 1/4" x 228.5	5 x 1/4" x 228.5	
	9.5/9.5	0.135	111.5			



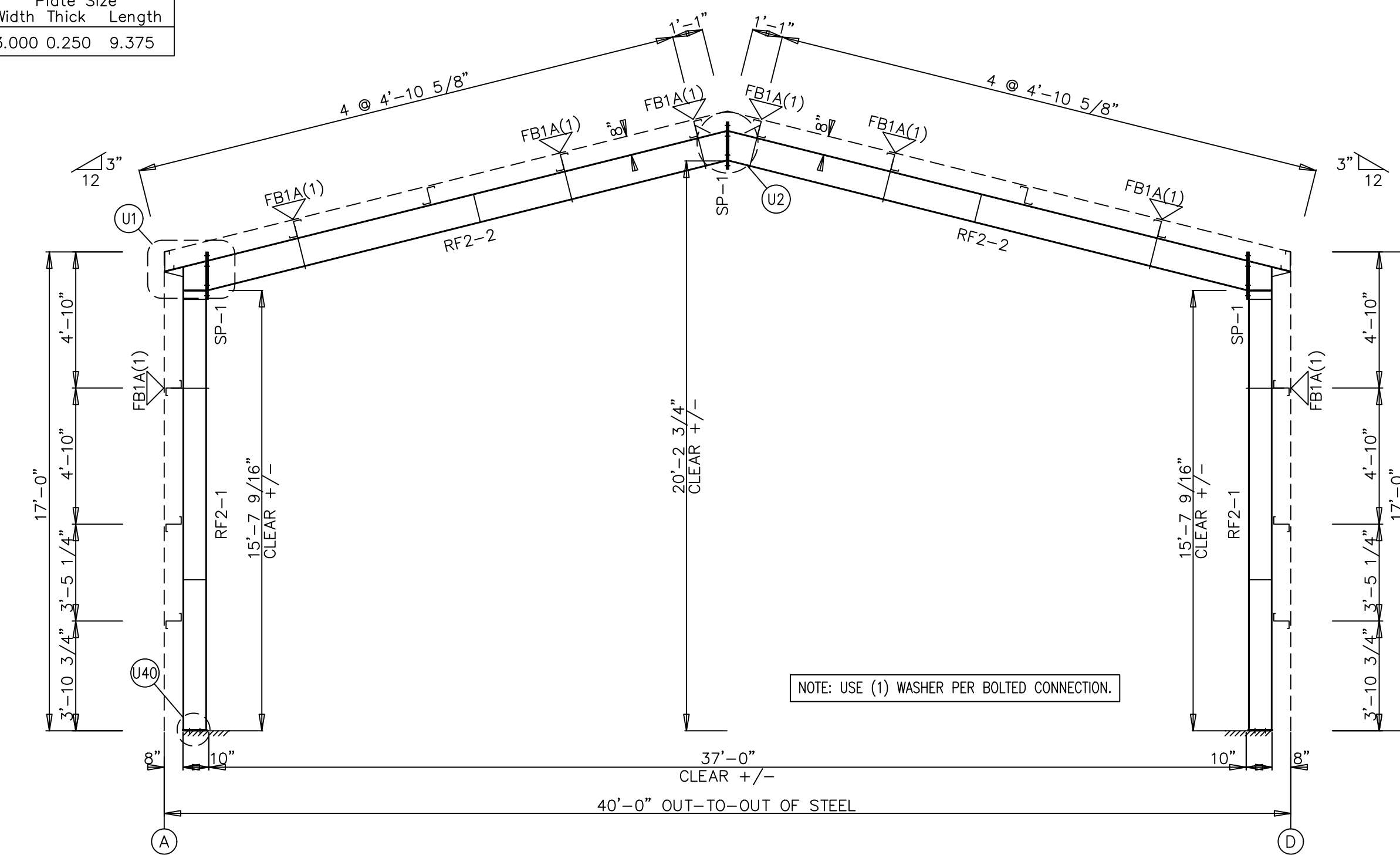
RIGID FRAME ELEVATION: FRAME LINE 1 5

SPLICE PLATE & BOLT TABLE							
Mark	Qty	Top	Bot	Int	Type	Dia	Length
SP-1	4	4	0	A325	0.750	2.25	8"

FLANGE BRACES: (1) One Side; (2) Two Sides
 FBxxA(1)
 A - L2X2X12g

STIFFENER TABLE				
Mark	Stiff Mark	Width	Thick	Plate Size Length
RF2-1	ST1	3.000	0.250	9.375

MEMBER TABLE						
Mark	Web		Web Plate		Outside Flange	
	Start/End	Thick	Length	W x Thk x Length	W x Thk x Length	Inside Flange
RF2-1	9.5/9.5	0.135	63.8	5 x 1/4" x 197.0	5 x 1/4" x 183.3	
	9.5/9.5	0.135	119.5	6 x 1/4" x 18.2		
	9.5/9.5	0.188	16.1			
RF2-2	12.0/12.0	0.135	119.5	5 x 1/4" x 227.5	5 x 1/4" x 227.5	
	12.0/12.0	0.135	111.0			



RIGID FRAME ELEVATION: FRAME LINE 2 3 4

JOB NO. **B22066**
 SHEET **3** OF **10**
 SCALE: NONE

DESIGNED BY: **CI**
 DRAWN BY: **CMH**
 DATE: **09.12.22**
 DETAILED BY:

CLOVIS UNIFIED SCHOOL DISTRICT
 36.854926, -119.712999
 CLOVIS, CA 93619

NO.: REVISED: NO.: REVISED: NO.: REVISED: NO.: REVISED: NO.: REVISED:

BORGA
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 300 WEST PEACH ST.
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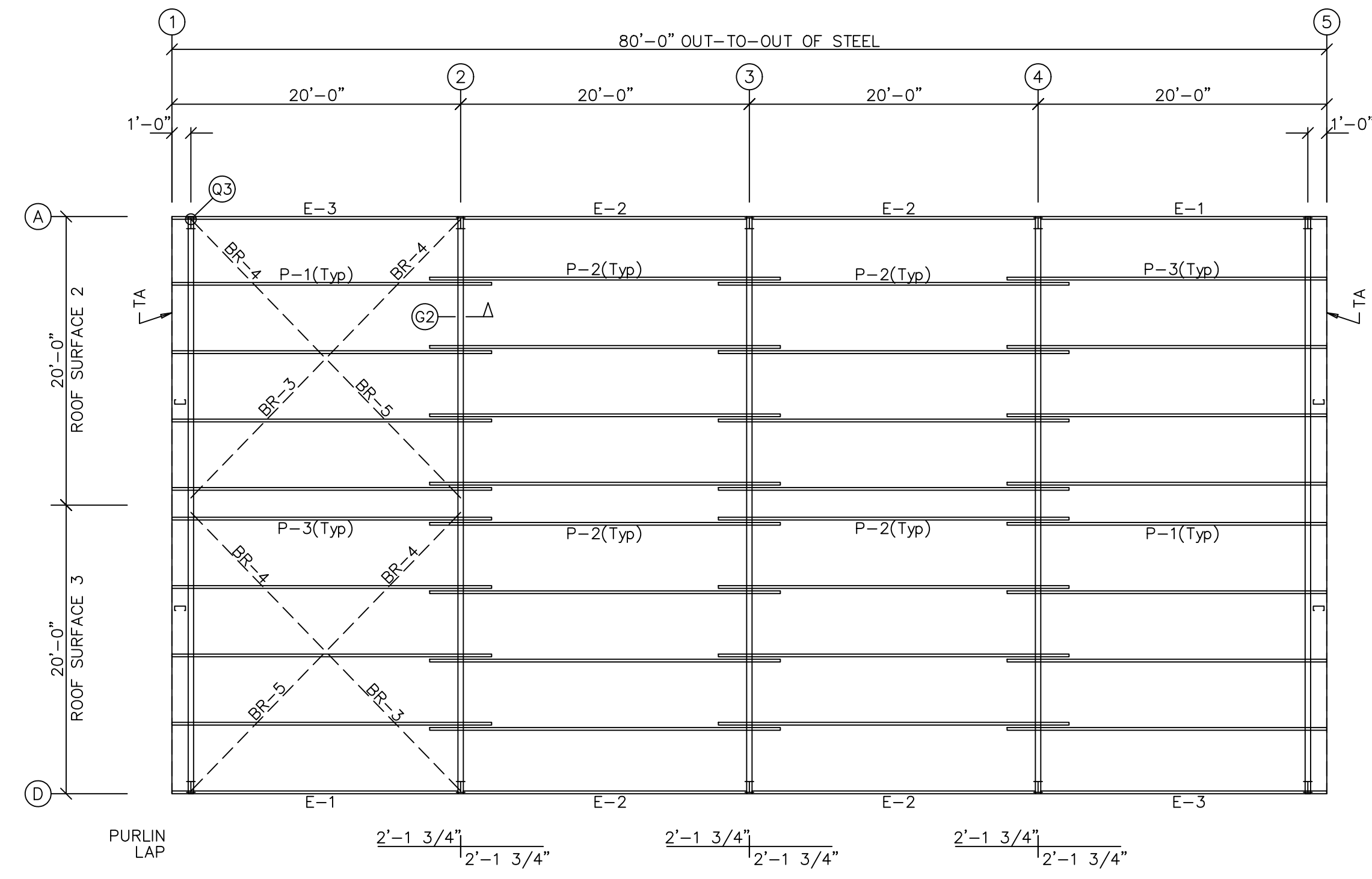
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REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 STATE OF CALIFORNIA
 C 83684

Signed 9/14/2022

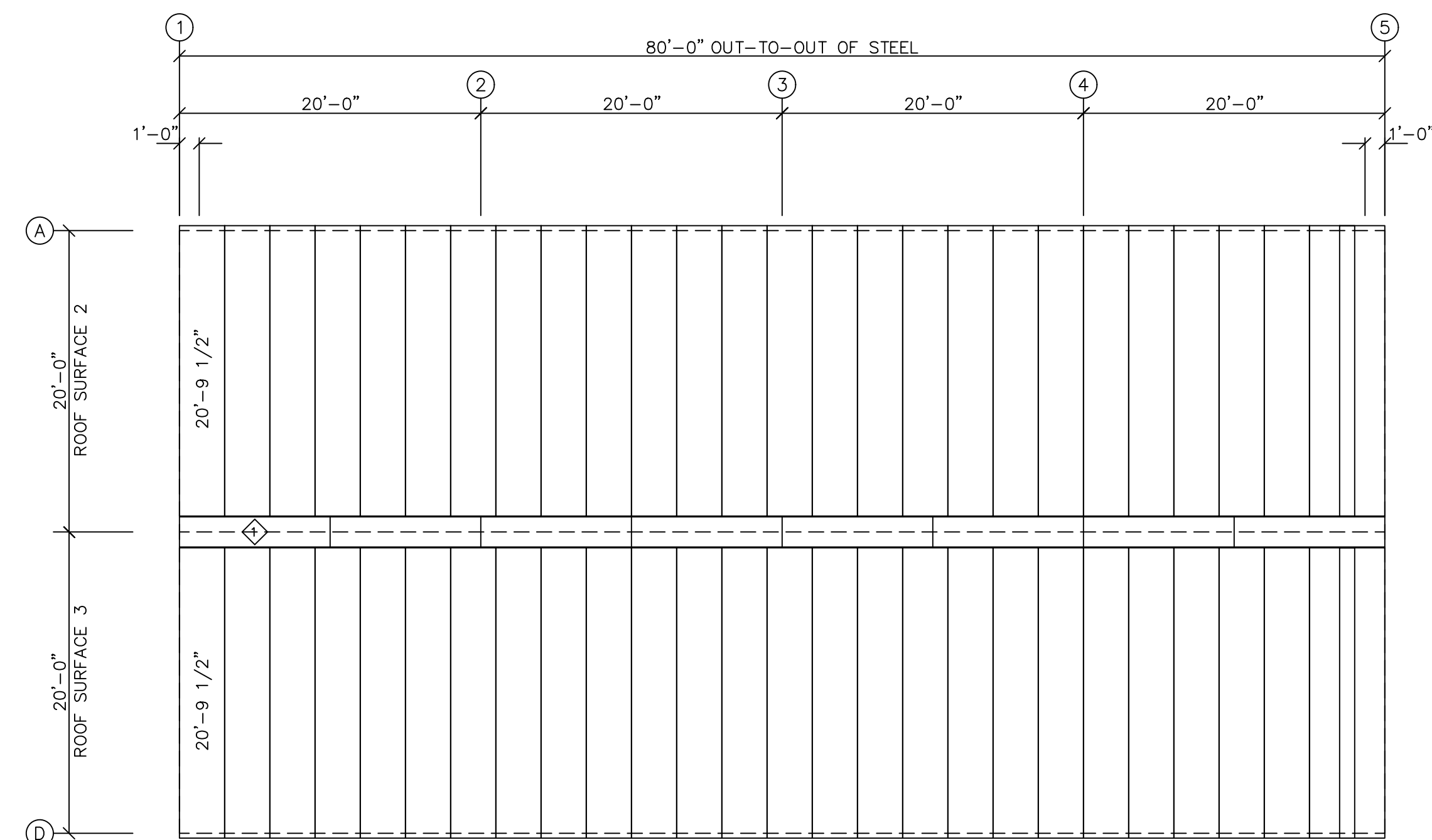
- NOTES:
- 1 PSF COLLATERAL LOAD HAS BEEN INCLUDED FOR LIGHTING; NOT TO BE EXCEEDED
 - NO ADDITIONAL LOADING HAS BEEN INCLUDED FOR ROOF OR WALL MOUNTED EQUIPMENT
 - ALL INTERIOR STRUCTURES BY OTHERS, IF ANY. (PARTITION WALLS, MEZZANINE, ETC.), TO BE SELF-SUPPORTING AND NOT RELY ON THE METAL BUILDING FOR SUPPORT OR STABILITY

MEMBER TABLE		
ROOF PLAN		
MARK	PART	LENGTH
P-1	8252P16	22'-1 1/2"
P-2	8252P16	24'-3 1/2"
P-3	8252P16	22'-1 1/2"
E-1	160845E3	19'-11 1/2"
E-2	160845E3	19'-11 1/2"
E-3	160845E3	19'-11 1/2"
BR-3	0.50 ROD	7'-2"
BR-4	0.50 ROD	20'-0"
BR-5	0.50 ROD	6'-9"

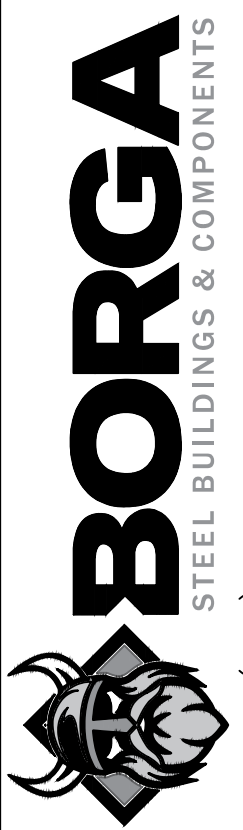


ROOF FRAMING PLAN

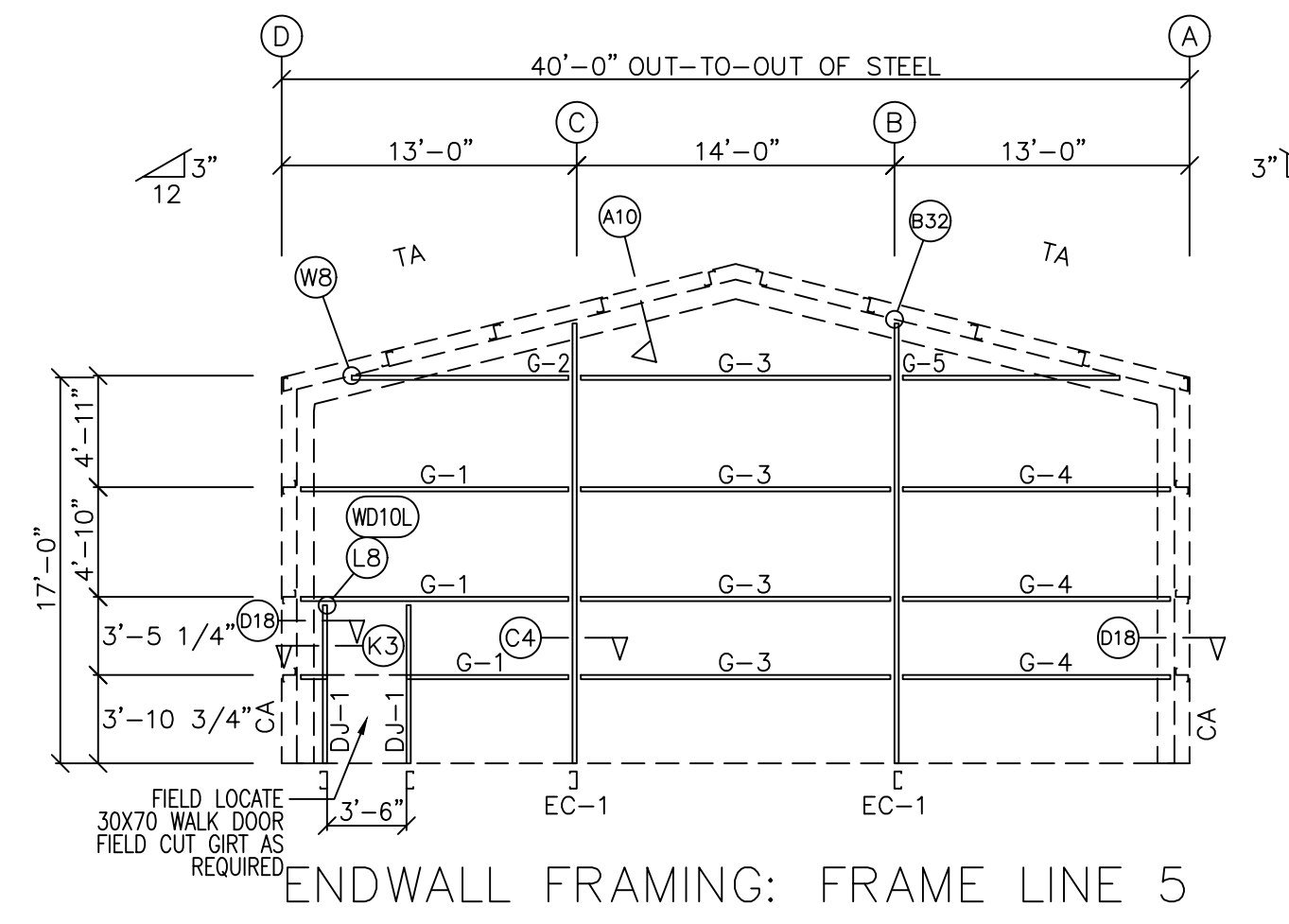
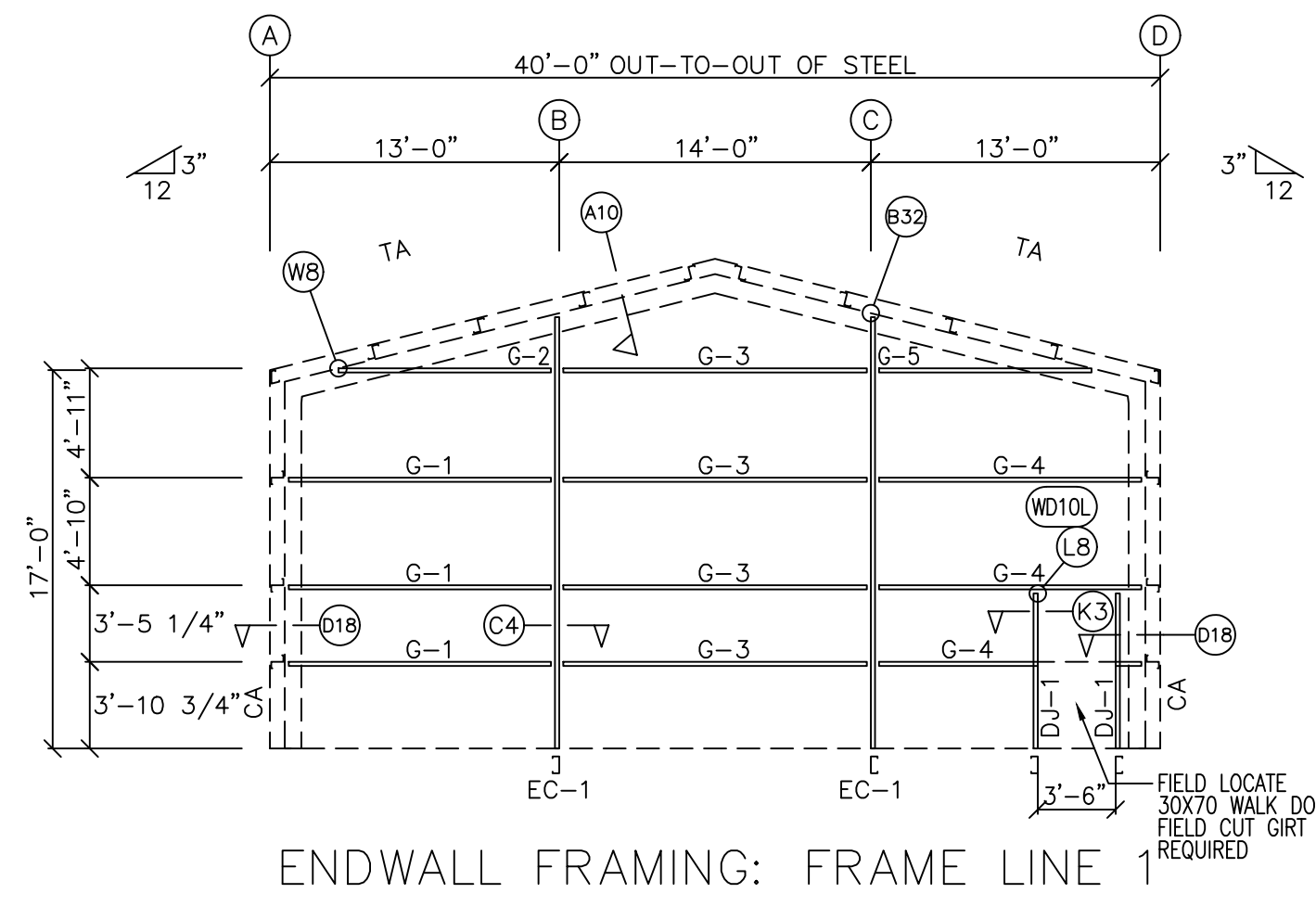
TRIM TABLE		
ROOF PLAN		
OID PART	LENGTH	
1161000xx	10'-2"	



ROOF SHEETING PLAN
PANELS: 26 Ga. SP - NEED STANDARD SMP COLOR

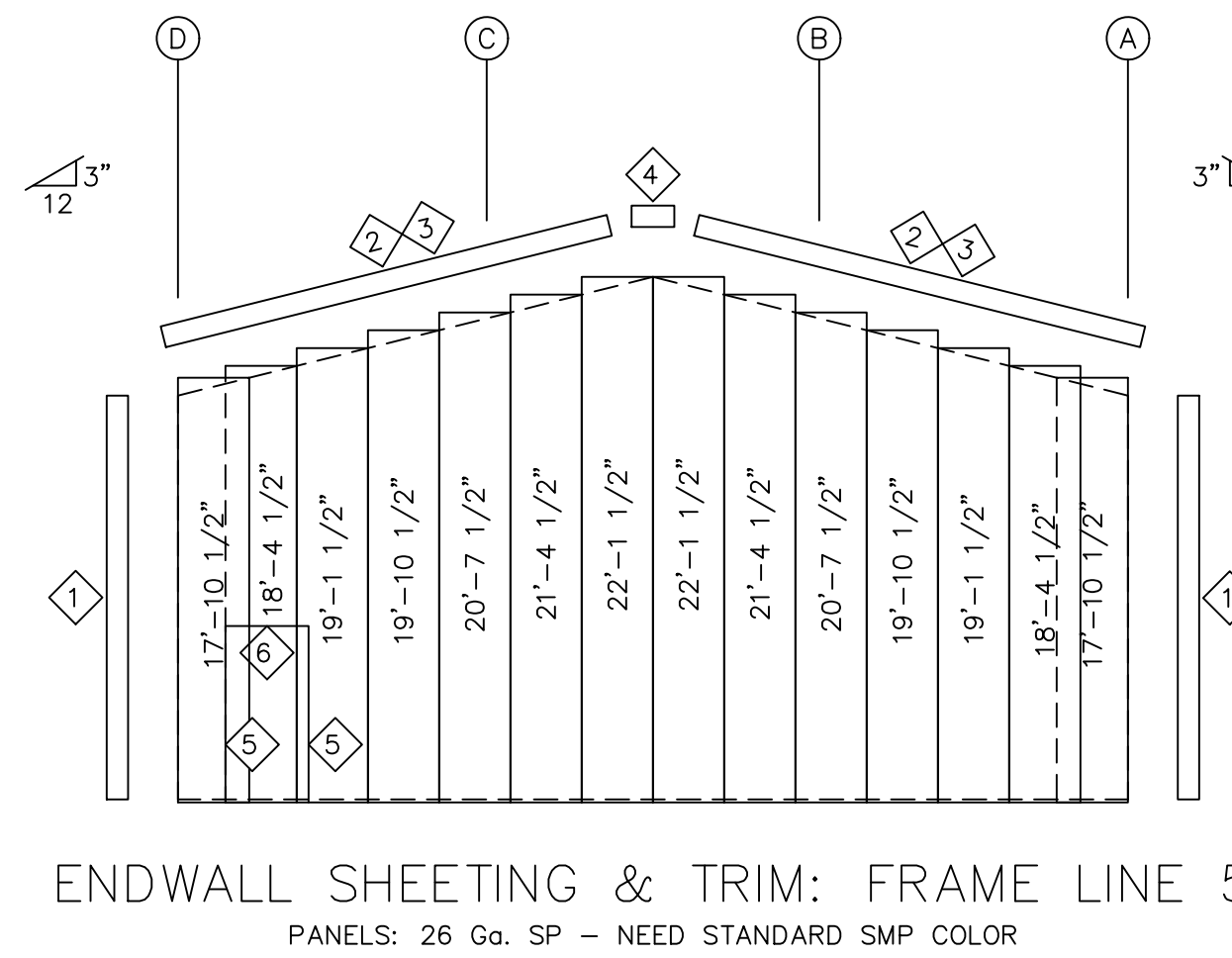
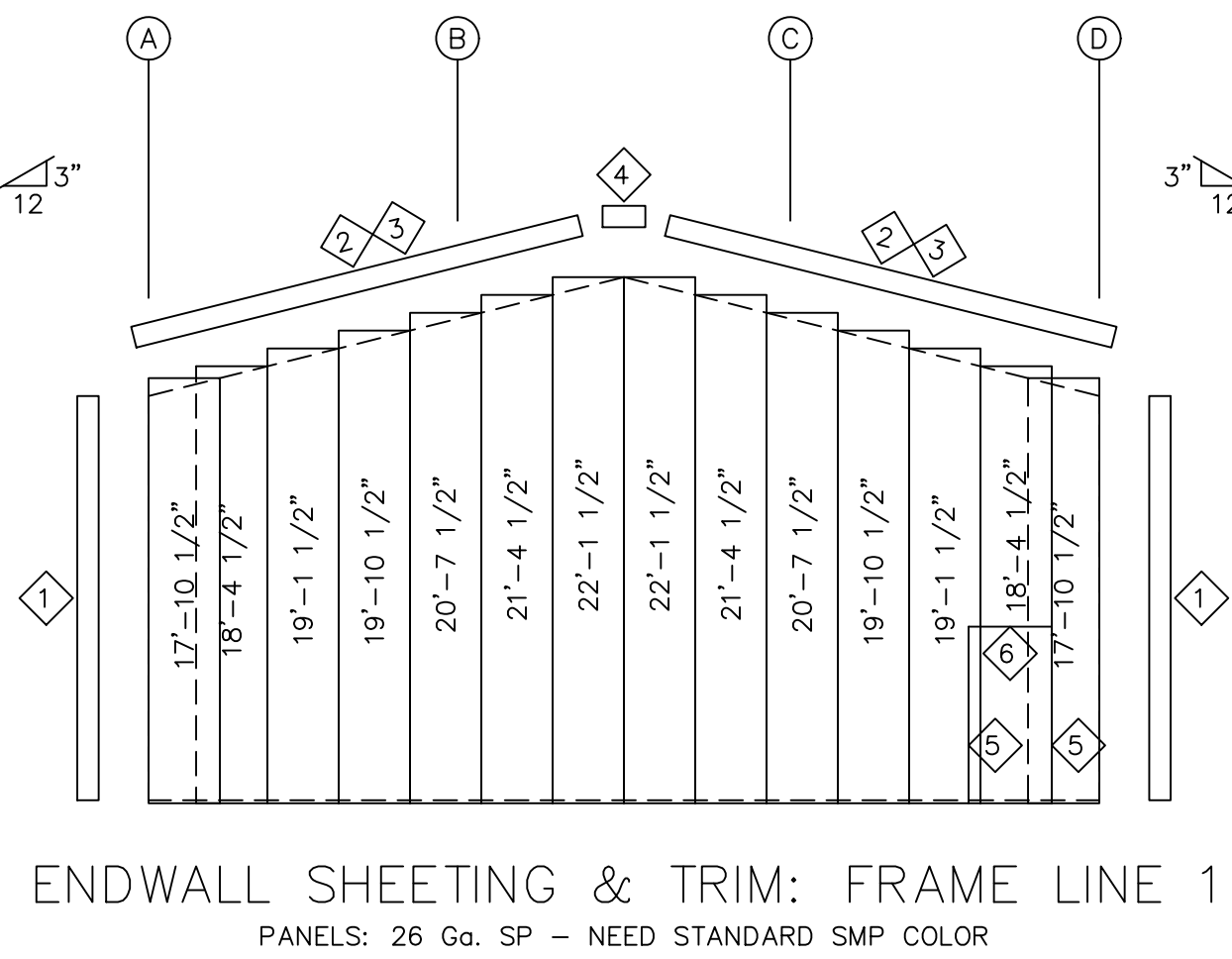
DESIGNED BY: CI	DATE:	NO.:	REVISED:	 <p>BORGA STEEL BUILDINGS & COMPONENTS PHONE: (559) 834-5375 FAX: (559) 834-1406 300 WEST PEACH ST. P.O. BOX 35 FOWLER, CA 93625</p>
DRAWN BY: CMH	DATE: 09.12.22	BY:	DATE:	
JOB NO. B22066	DATE: 09.12.22	NO.:	REVISED:	
SHEET 4 OF 10	DATE: 09.12.22	NO.:	REVISED:	
SCALE: NONE	DATE: 09.12.22	NO.:	REVISED:	APPROVAL SET (PERMIT USE ONLY)





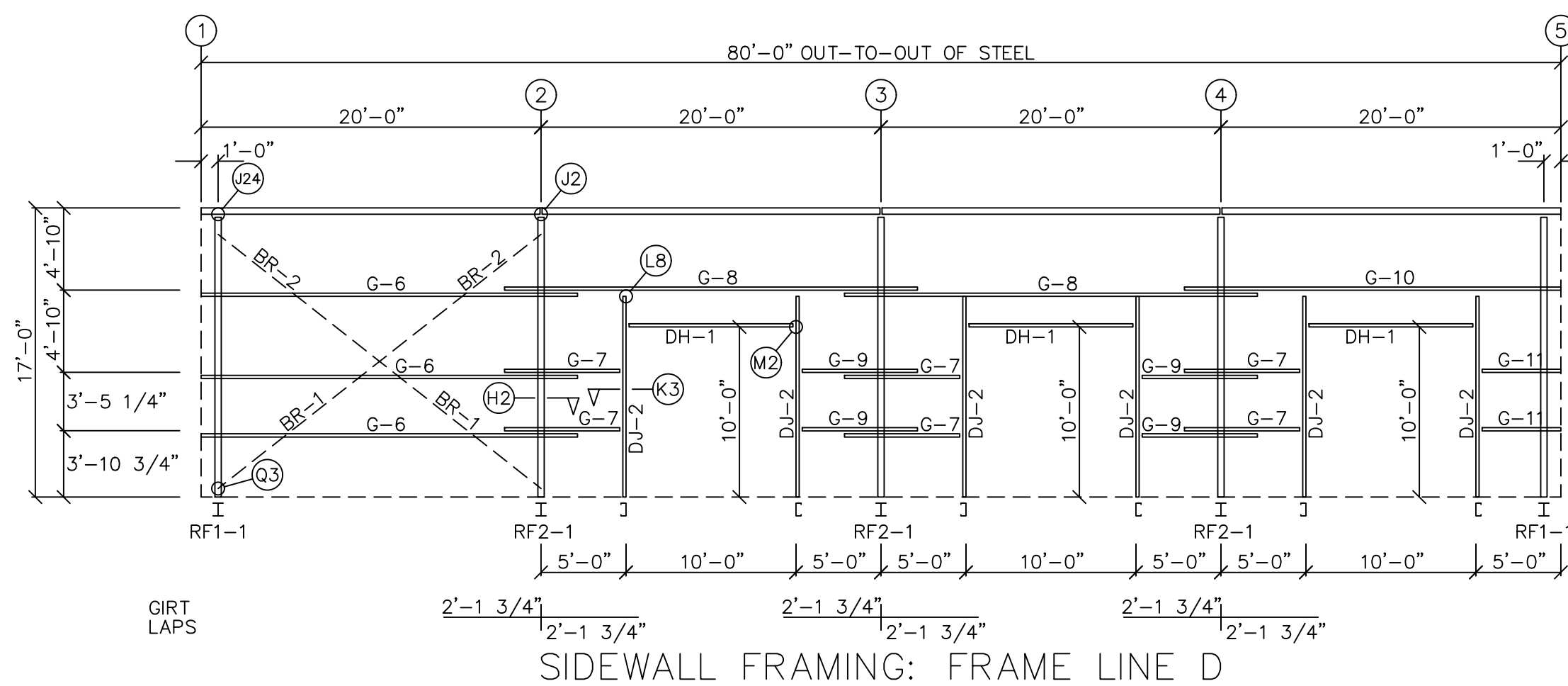
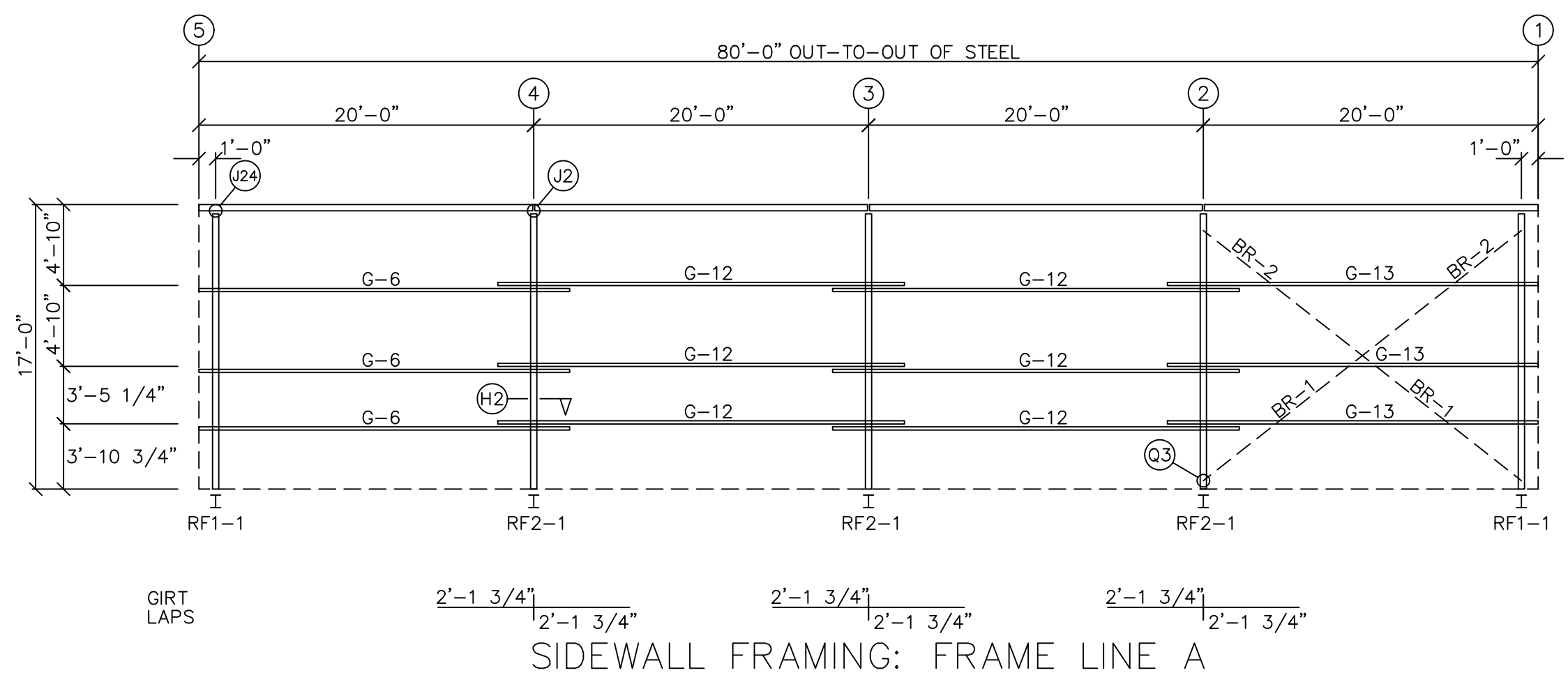
MEMBER TABLE FRAME LINE 1 & 5		
MARK	PART	LENGTH
EC-1	8x35C12	19'-5 3/4"
DJ-1	8x35C12	17'-4"
G-1	825ZG16	12'-0"
G-2	825ZG16	9'-7 1/4"
G-3	825ZG16	13'-11 1/2"
G-4	825ZG16	12'-0"
G-5	825ZG16	9'-7 1/4"

NOTES:
INTERIOR PLYWOOD WALL FINISH BY OTHERS UP TO 4'-0" A.F. ALL AROUND. PLYWOOD WEIGHT NOT TO EXCEED 2 PSF. VERTICAL BLOCKING, IF REQUIRED, SHALL BE DESIGNED AND PROVIDED BY OTHERS. ATTACHMENT OF PLYWOOD TO METAL BUILDING SHALL BE DESIGNED BY OTHERS.



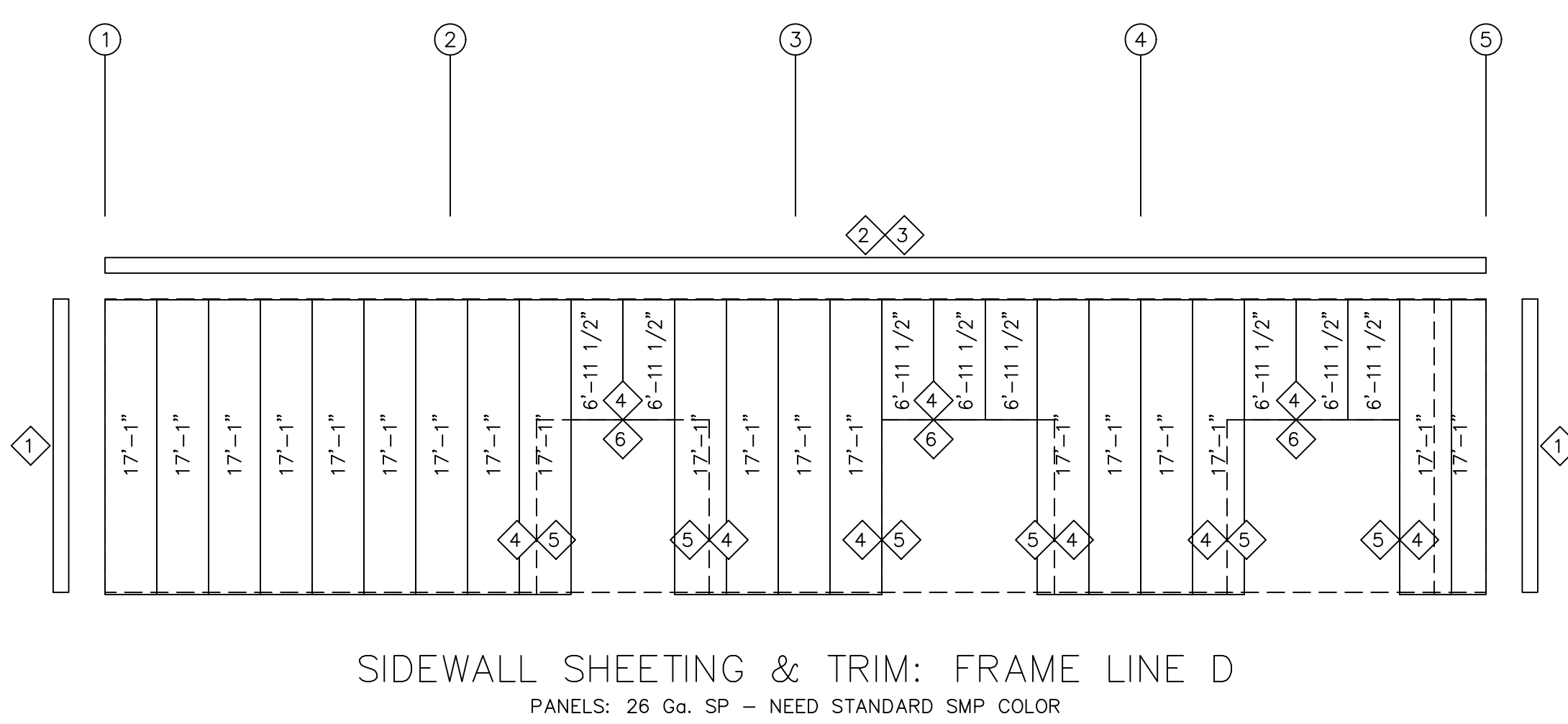
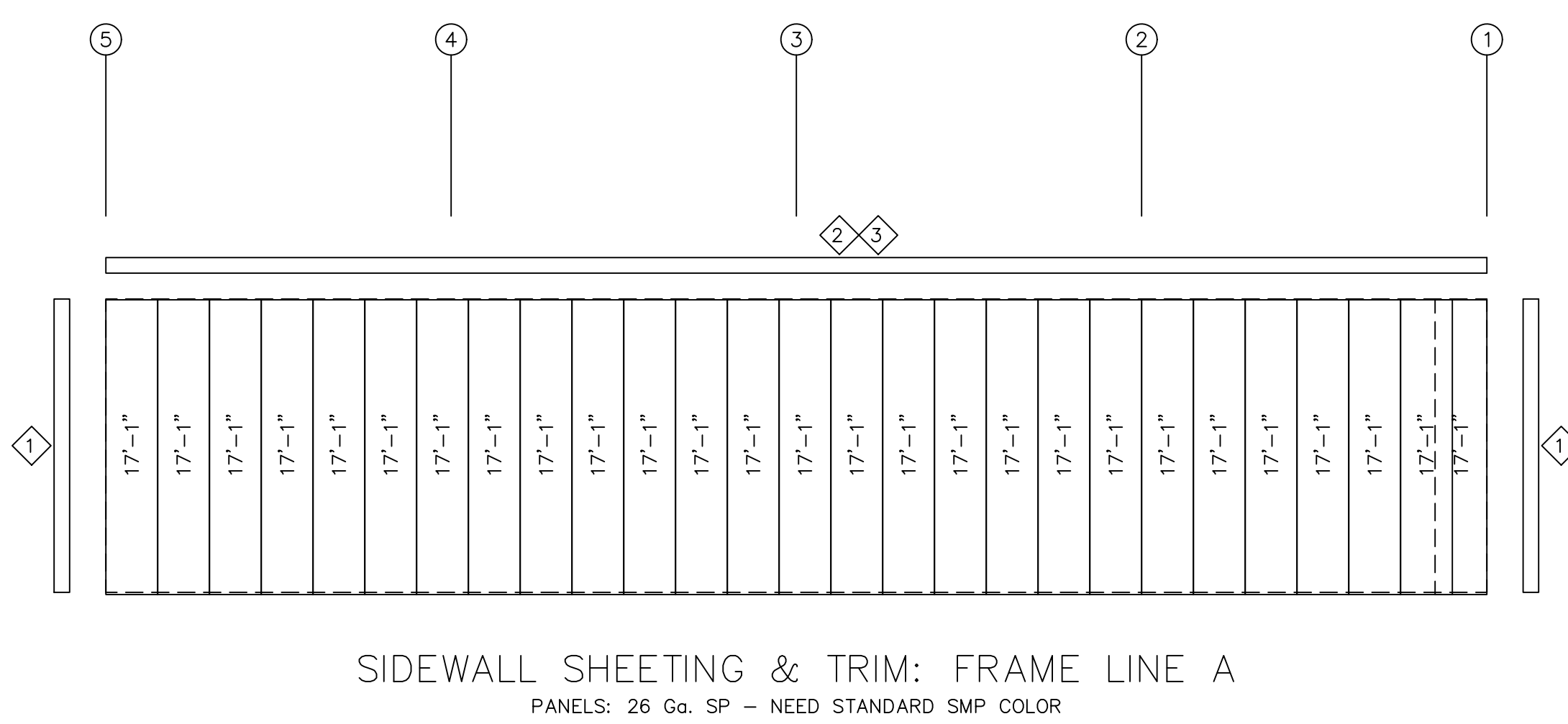
TRIM TABLE FRAME LINE 1 & 5		
OID	PART	LENGTH
1	64205xx	20'-2"
2	63205xx	20'-2"
3	63200xx	10'-2"
4	67099xx	10'-2"
5	65211xx	7'-6"
6	65314xx	3'-8"

NOTE:
1. FIELD CUT SHEETING AT DOORS AND WINDOWS AS REQUIRED
2. DOORS AND WINDOWS BY OTHERS SHALL BE WIND RATED FOR THE BUILDING DESIGN WIND VELOCITY OR HIGHER.



MEMBER TABLE FRAME LINE D & A		
MARK	PART	LENGTH
DJ-2	8x35C12	12'-2"
DH-1	8x35C12	10'-0"
G-6	825ZG16	22'-1 1/2"
G-7	825ZG16	6'-10"
G-8	825ZG16	24'-3 1/2"
G-9	825ZG16	6'-10"
G-10	825ZG16	12'-1 1/2"
G-11	825ZG16	4'-8"
G-12	825ZG16	24'-3 1/2"
G-13	825ZG16	22'-1 1/2"
BR-1	0.50 ROD	20'-0"
BR-2	0.50 ROD	4'-10"

NOTES:
INTERIOR PLYWOOD WALL FINISH BY OTHERS UP TO 4'-0" A.F. ALL AROUND. PLYWOOD WEIGHT NOT TO EXCEED 2 PSF. VERTICAL BLOCKING, IF REQUIRED, SHALL BE DESIGNED AND PROVIDED BY OTHERS. ATTACHMENT OF PLYWOOD TO METAL BUILDING SHALL BE DESIGNED BY OTHERS.



TRIM TABLE FRAME LINE D & A		
OID	PART	LENGTH
1	64205xx	20'-2"
2	62023xx	20'-2"
3	66073xx	8'-0"
4	65263xx	16'-2"
5	65210xx	10'-2"
6	65310xx	10'-4"

JOB NO. **B22066**
 SHEET **5 OF 10**
 DETAILED DATE: **09.12.22**
 SCALE: NONE
 DESIGNED BY: **CI**
 DRAWN BY: **CMH**
 DATE: **09.12.22**
 DETAILED BY:
 CLOVIS UNIFIED SCHOOL DISTRICT
 36.854926. -119.712999
 CLOVIS, CA 93619
 APPROVAL SET (PERMIT USE ONLY)

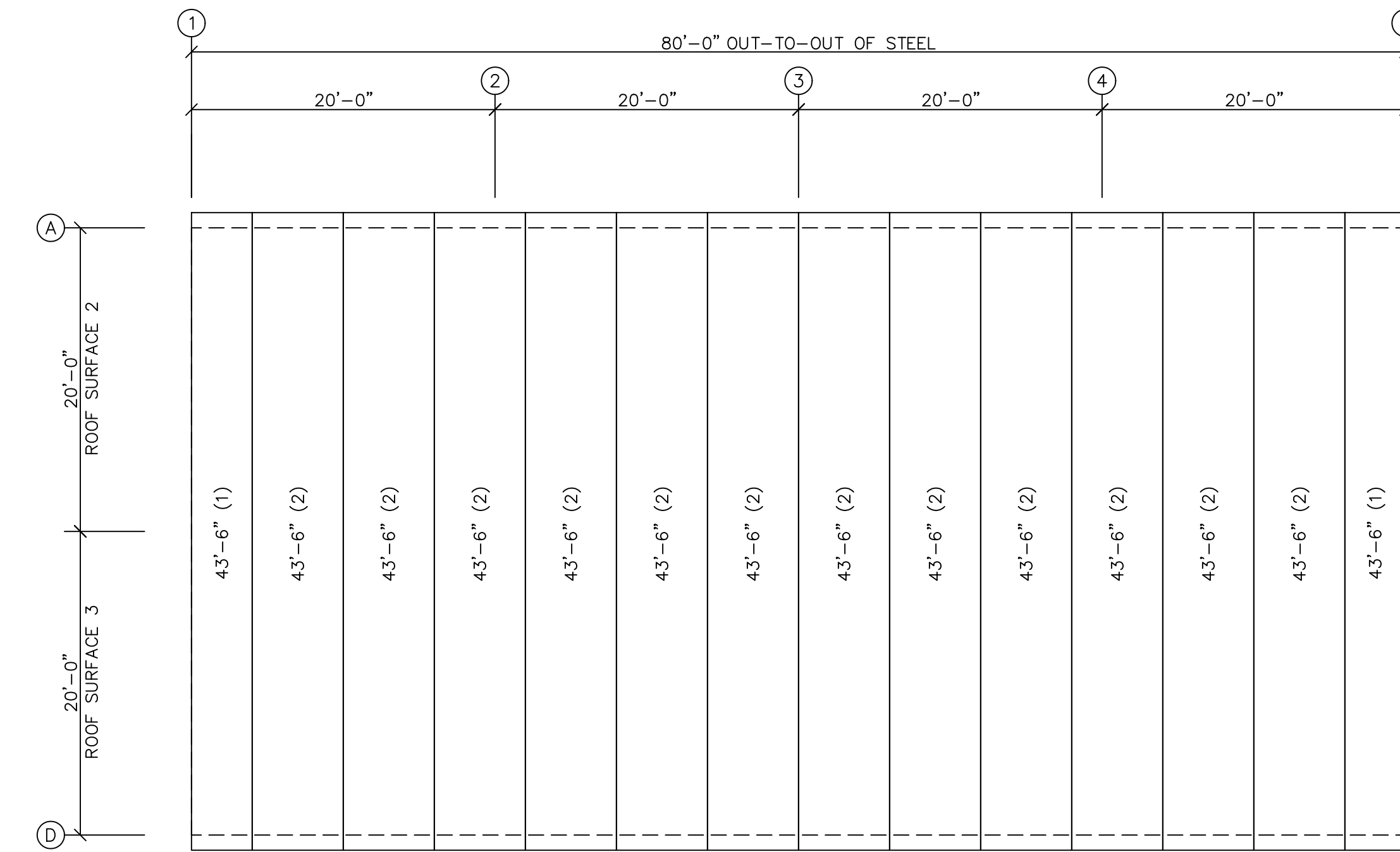
NO.	REVISED	BY	DATE
1			
2			
3			
4			
5			

BORGA
 STEEL BUILDINGS & COMPONENTS
 PHONE: (559) 834-5375
 FAX: (559) 834-1406
 300 WEST PEACH ST.
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 CIVIL
 STATE OF CALIFORNIA
 C 83684

Signed 9/14/2022

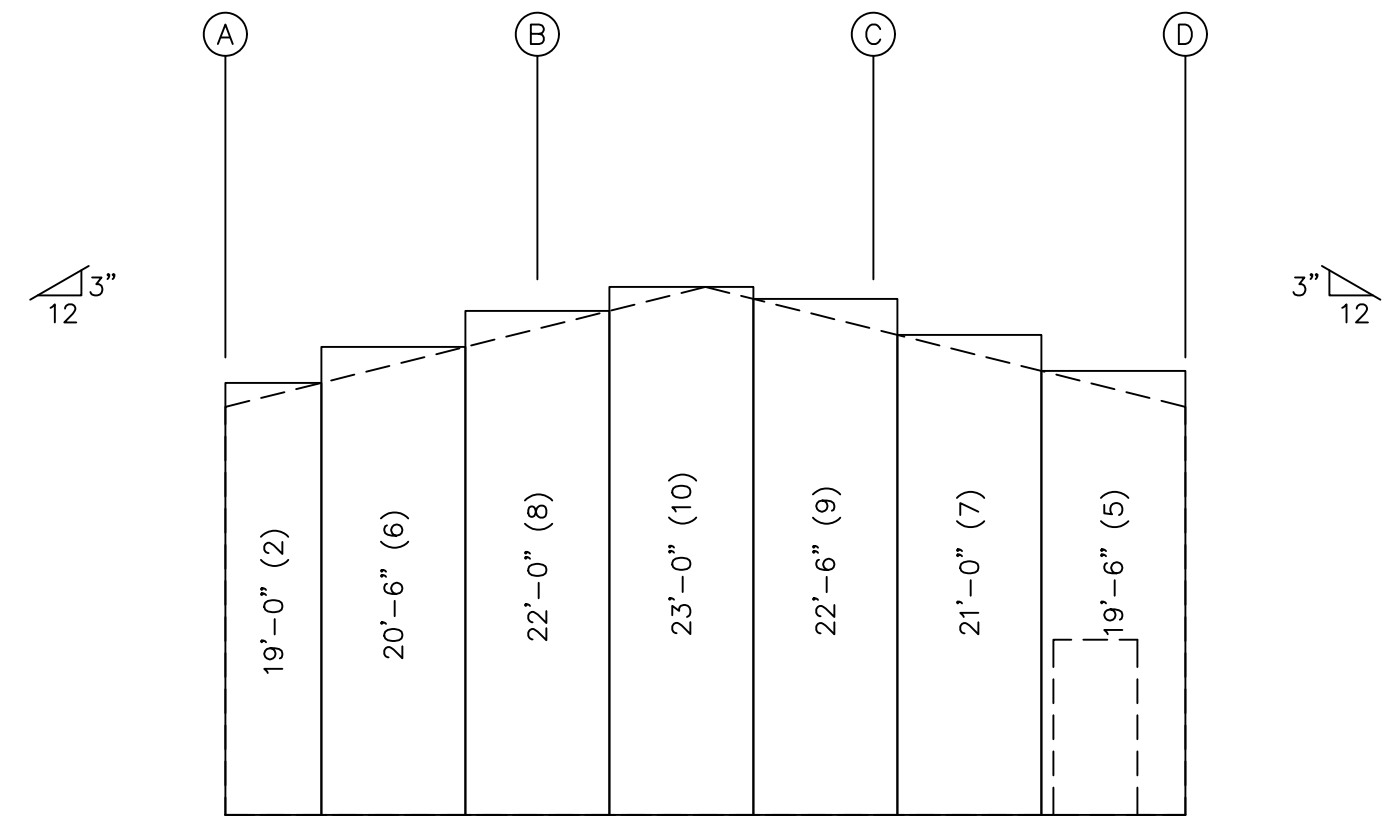
INSULATION TABLE ROOF PLAN				
ROLL	QUAN	MARK	WIDTH	LENGTH
1	2	RI-1	4'-0"	43'-6"
2	12	RI-2	6'-0"	43'-6"



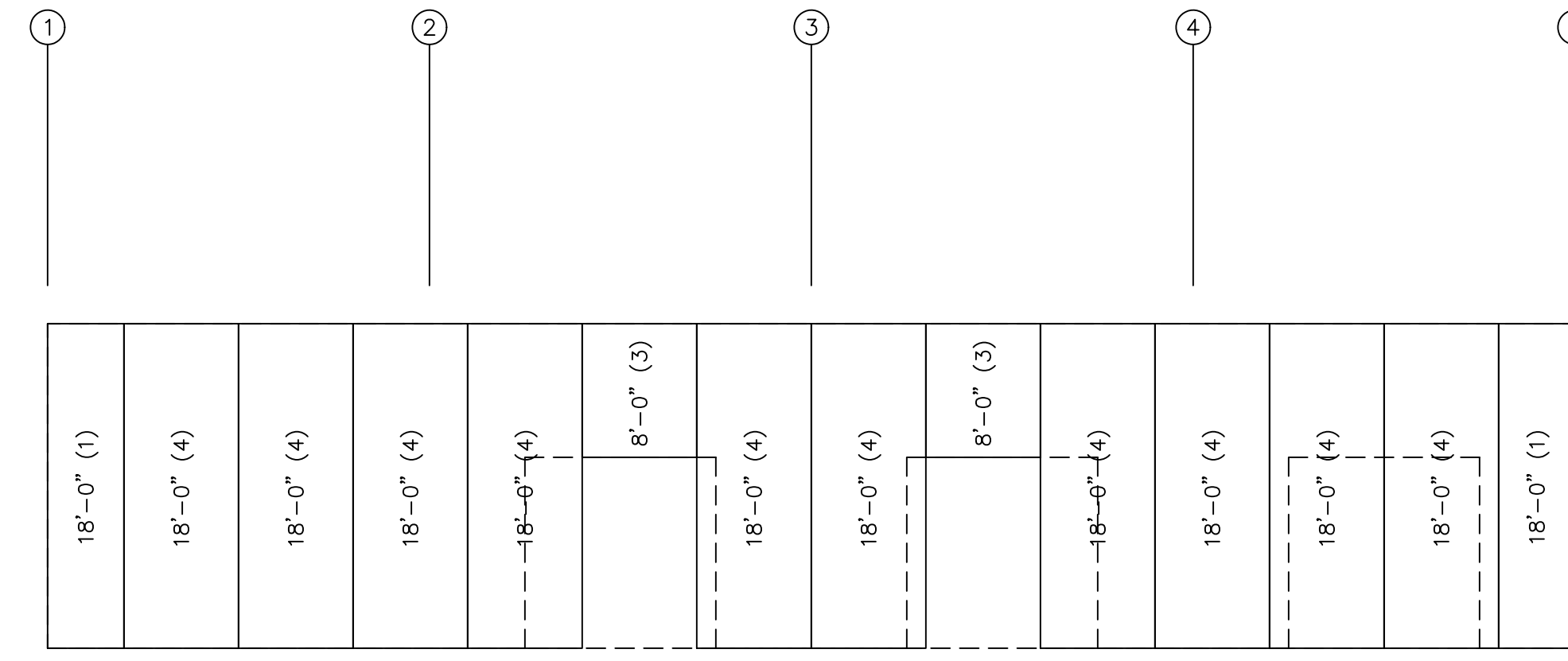
ROOF INSULATION
INSULATION: 4.00" Thick VR

INSULATION TABLE FRAME LINE 1 D & A				
ROLL	QUAN	MARK	WIDTH	LENGTH
1	4	WI-1	4'-0"	18'-0"
2	4	WI-2	4'-0"	18'-0"
3	4	WI-3	4'-0"	18'-0"
4	4	WI-4	4'-0"	18'-0"
5	4	WI-5	4'-0"	18'-0"
6	4	WI-6	4'-0"	18'-0"
7	4	WI-7	4'-0"	18'-0"
8	4	WI-8	4'-0"	18'-0"
9	4	WI-9	4'-0"	18'-0"
10	4	WI-10	4'-0"	18'-0"

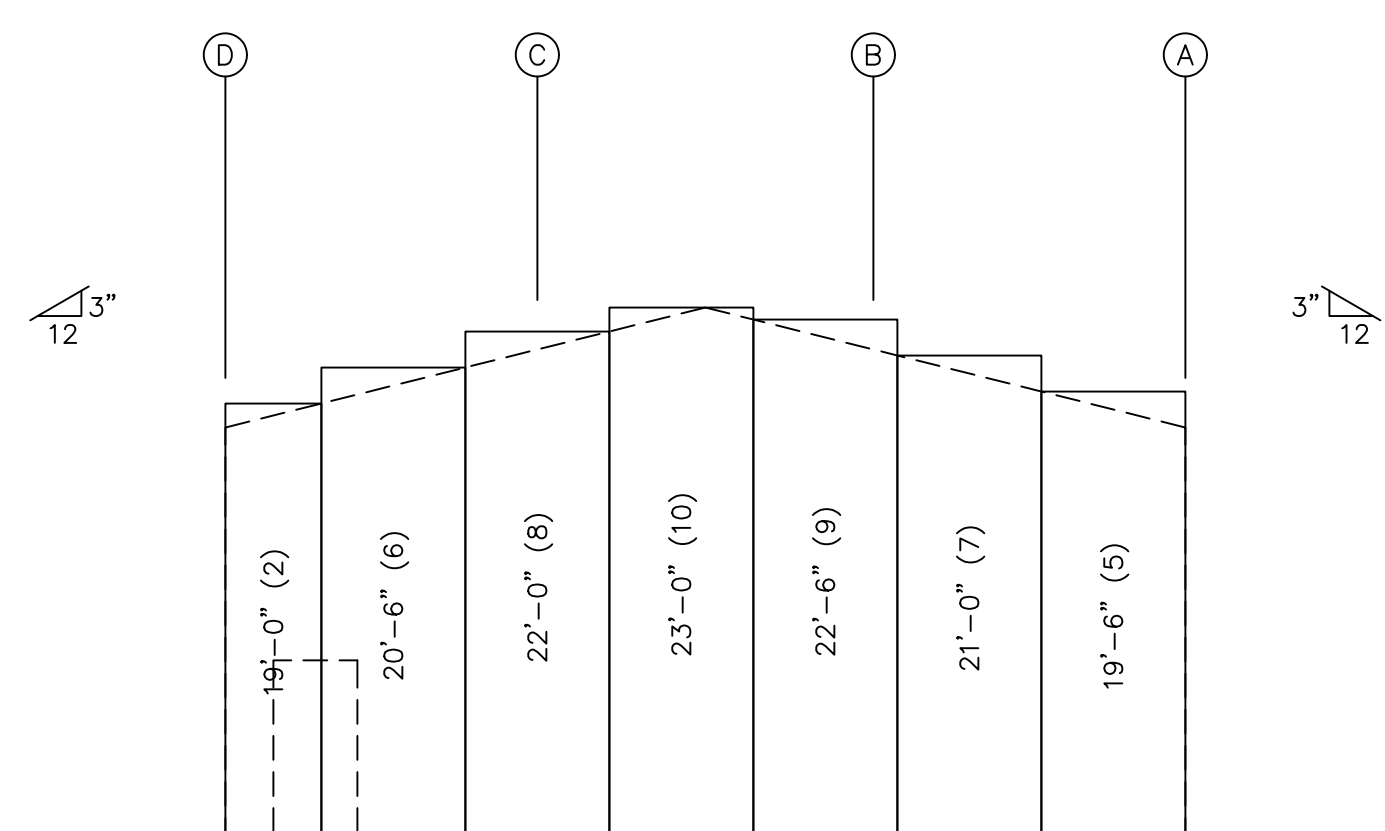
LEGEND:
18'-0" (1)
Length (Roll #)



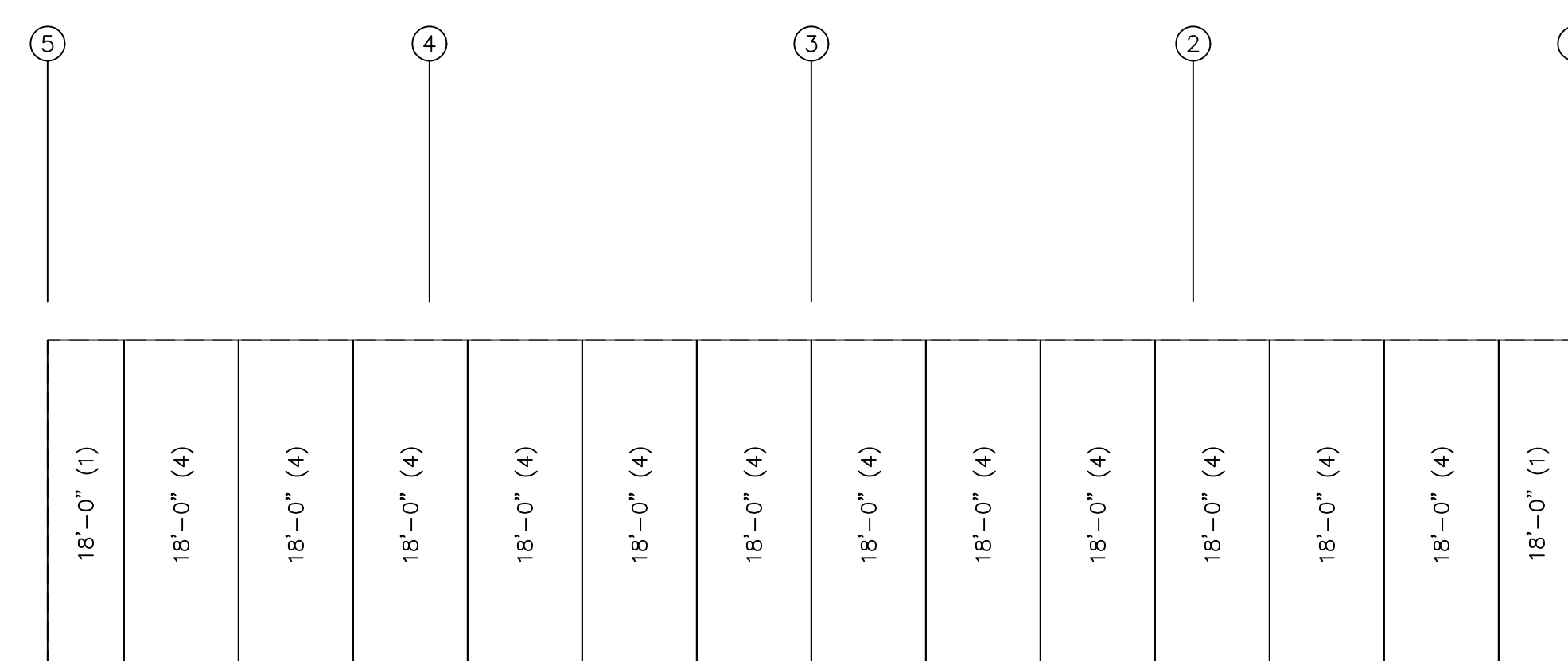
ENDWALL INSULATION: FRAME LINE 1
INSULATION: 4.00" Thick VR



SIDEWALL INSULATION: FRAME LINE D
INSULATION: 4.00" Thick VR



ENDWALL INSULATION: FRAME LINE 5
INSULATION: 4.00" Thick VR



SIDEWALL INSULATION: FRAME LINE A
INSULATION: 4.00" Thick VR

DESIGNED BY: C1
DRAWN BY: CMH
DATE: 09.12.22
DETAILED BY:

CLOVIS UNIFIED SCHOOL DISTRICT
36.854926, -119.712999
CLOVIS, CA 93619

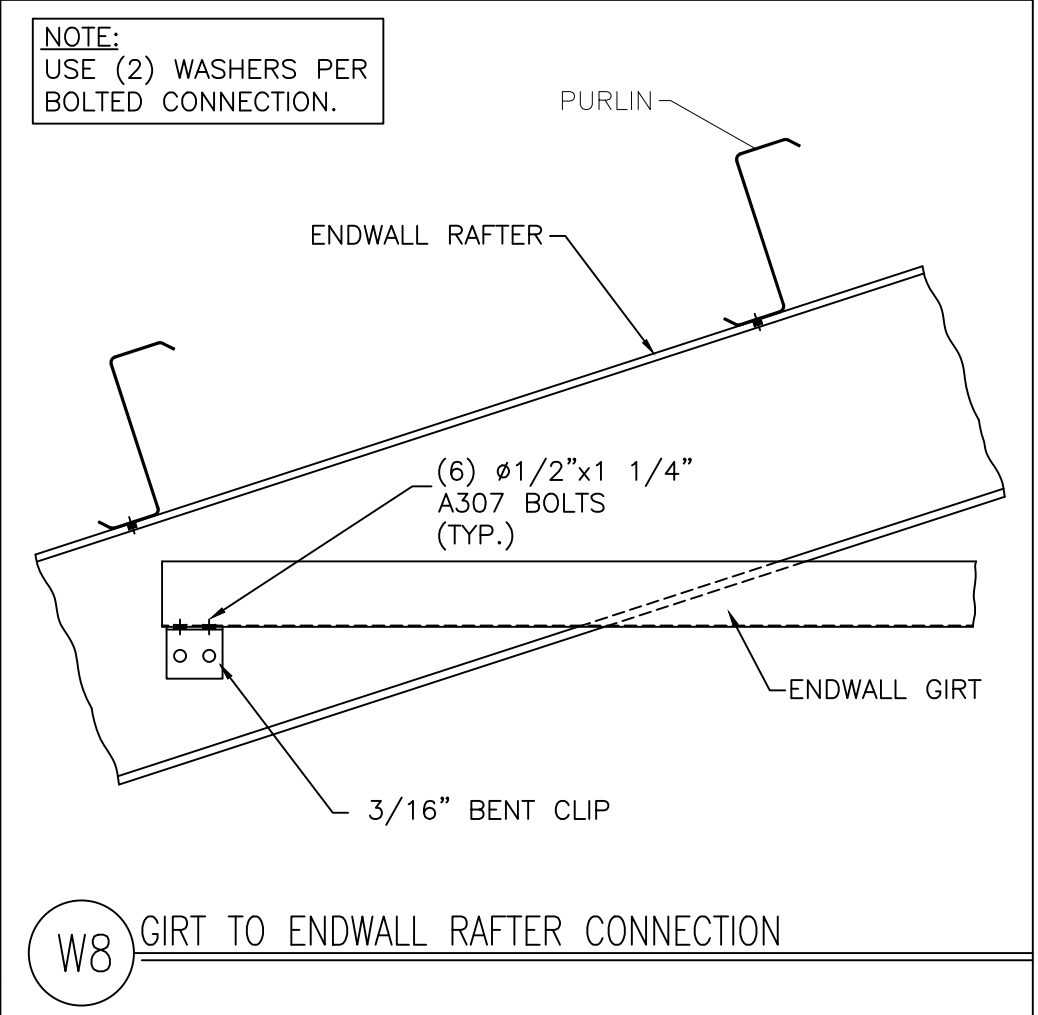
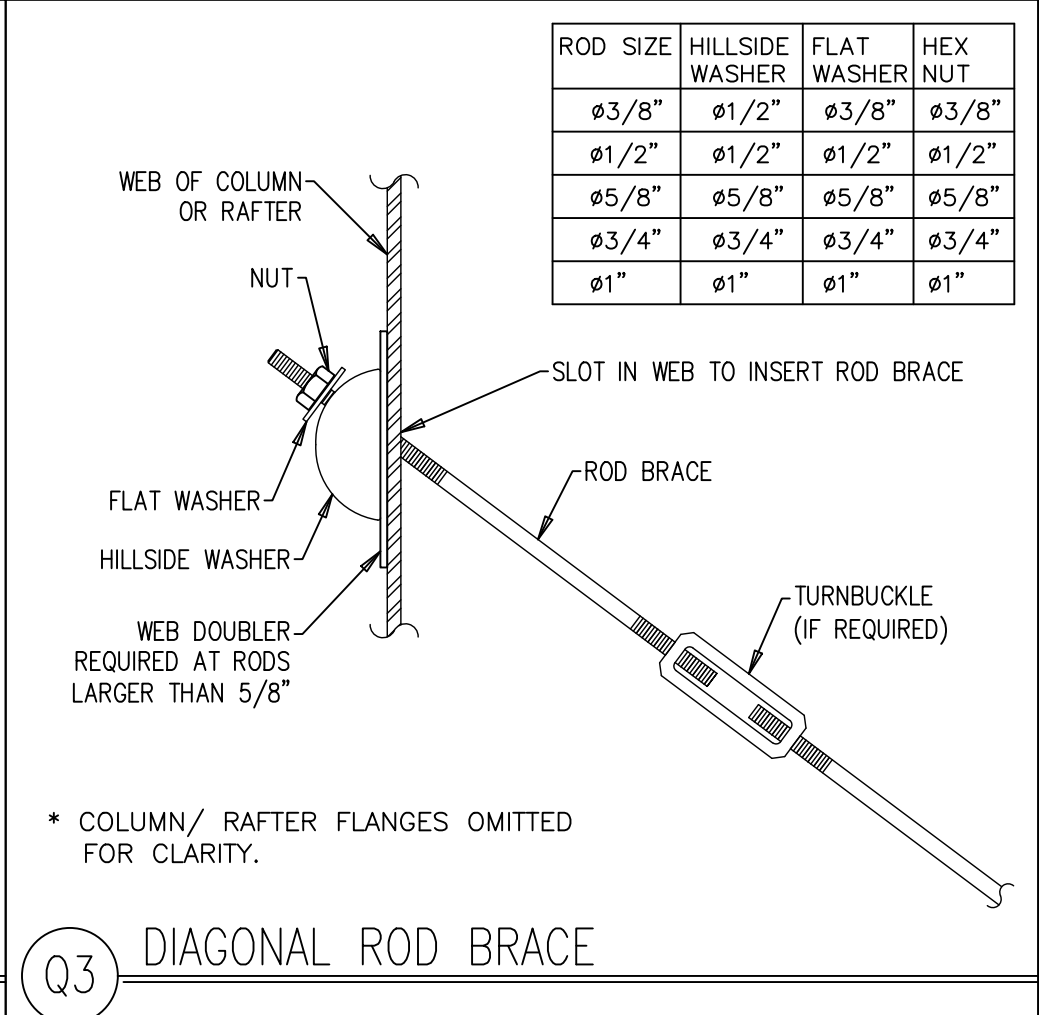
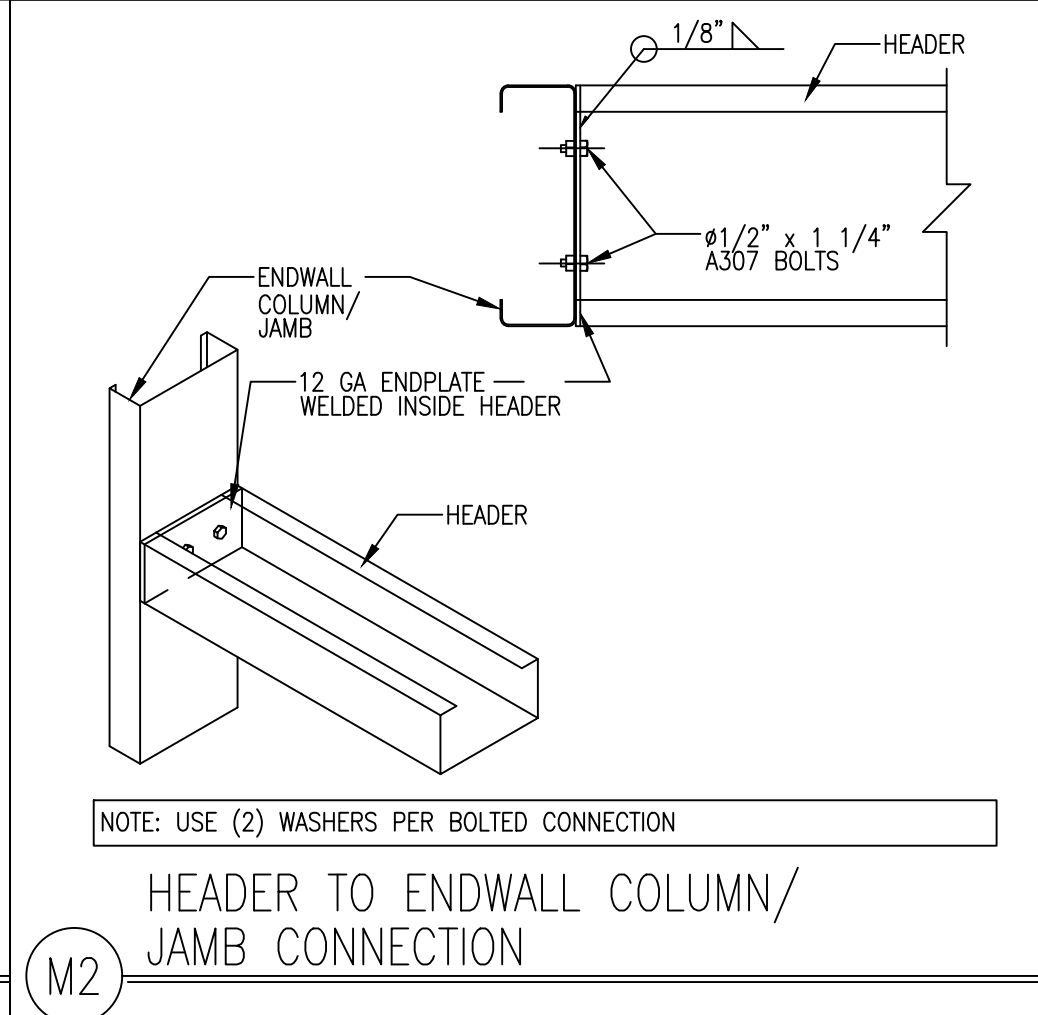
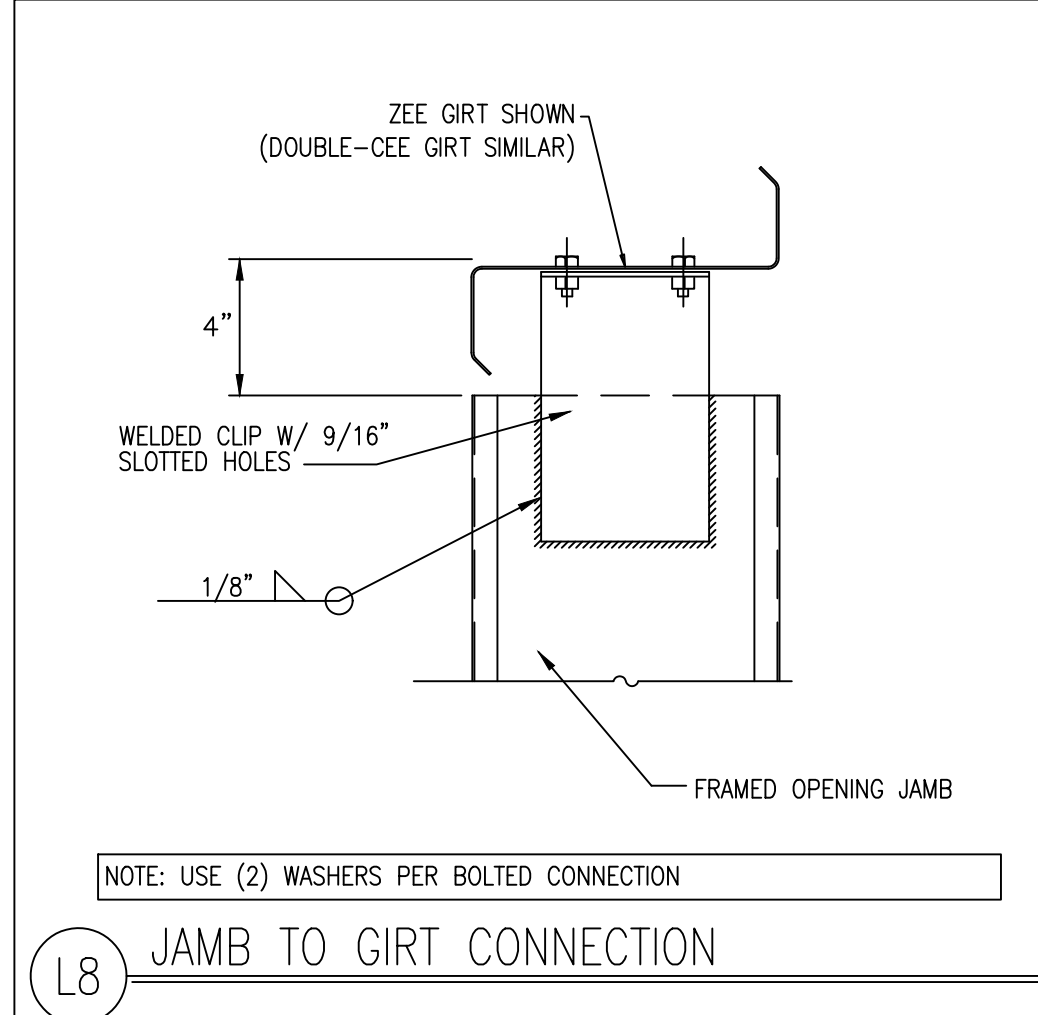
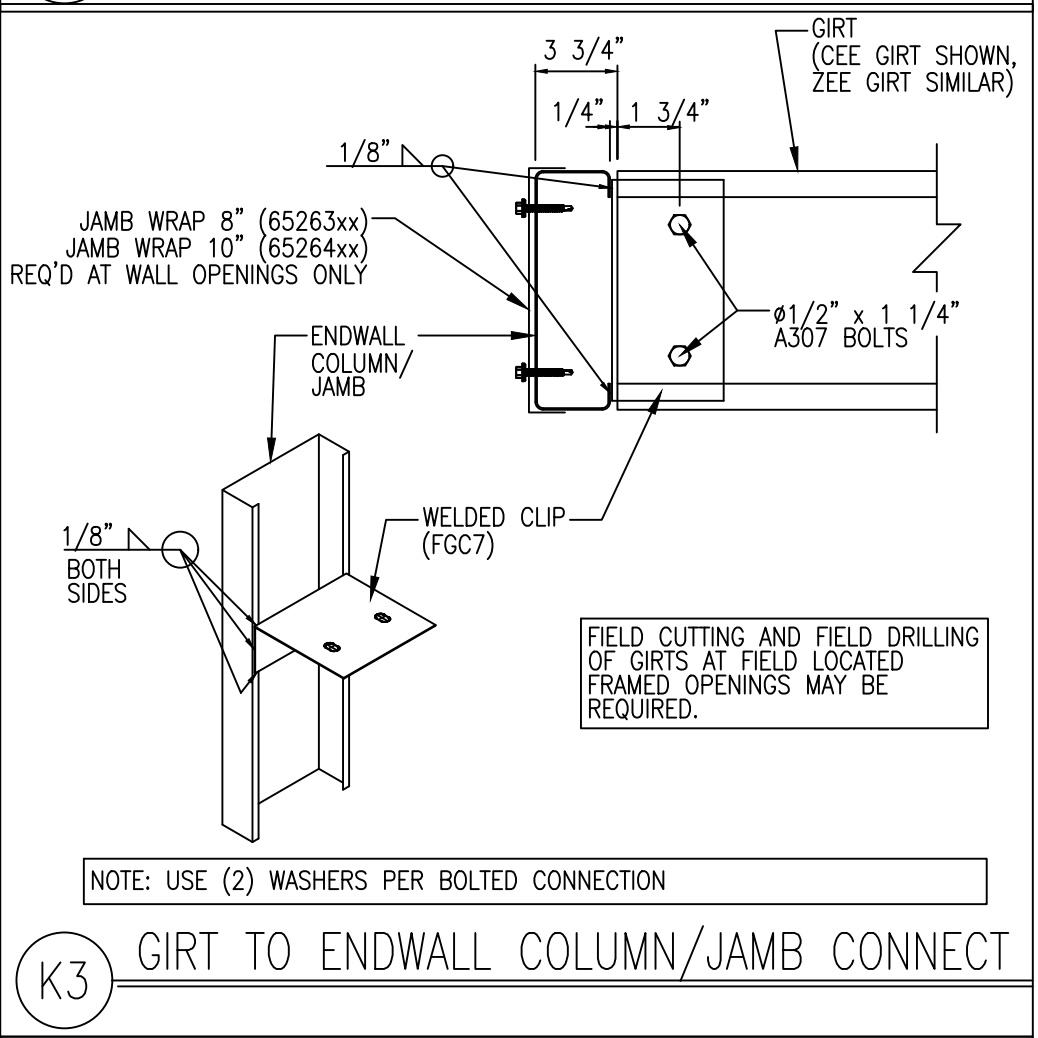
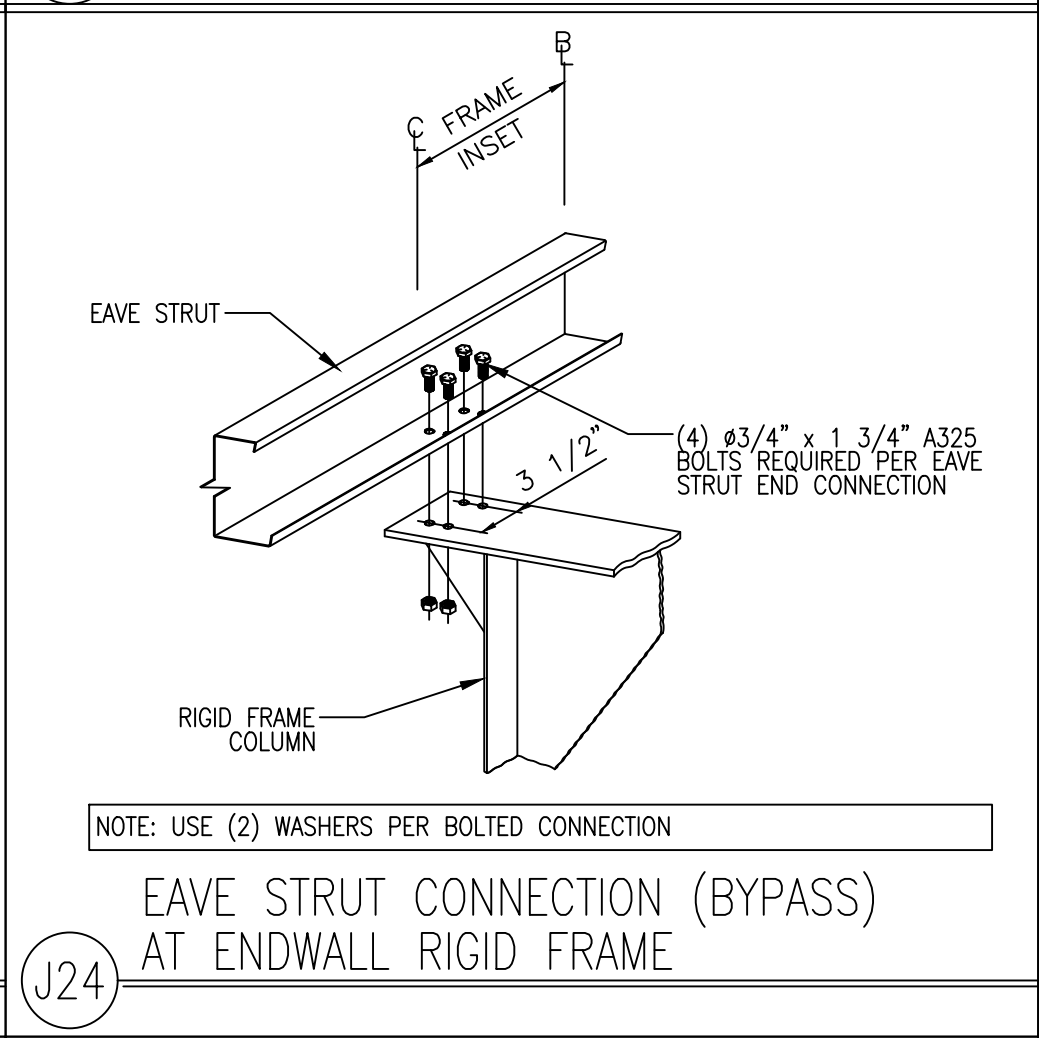
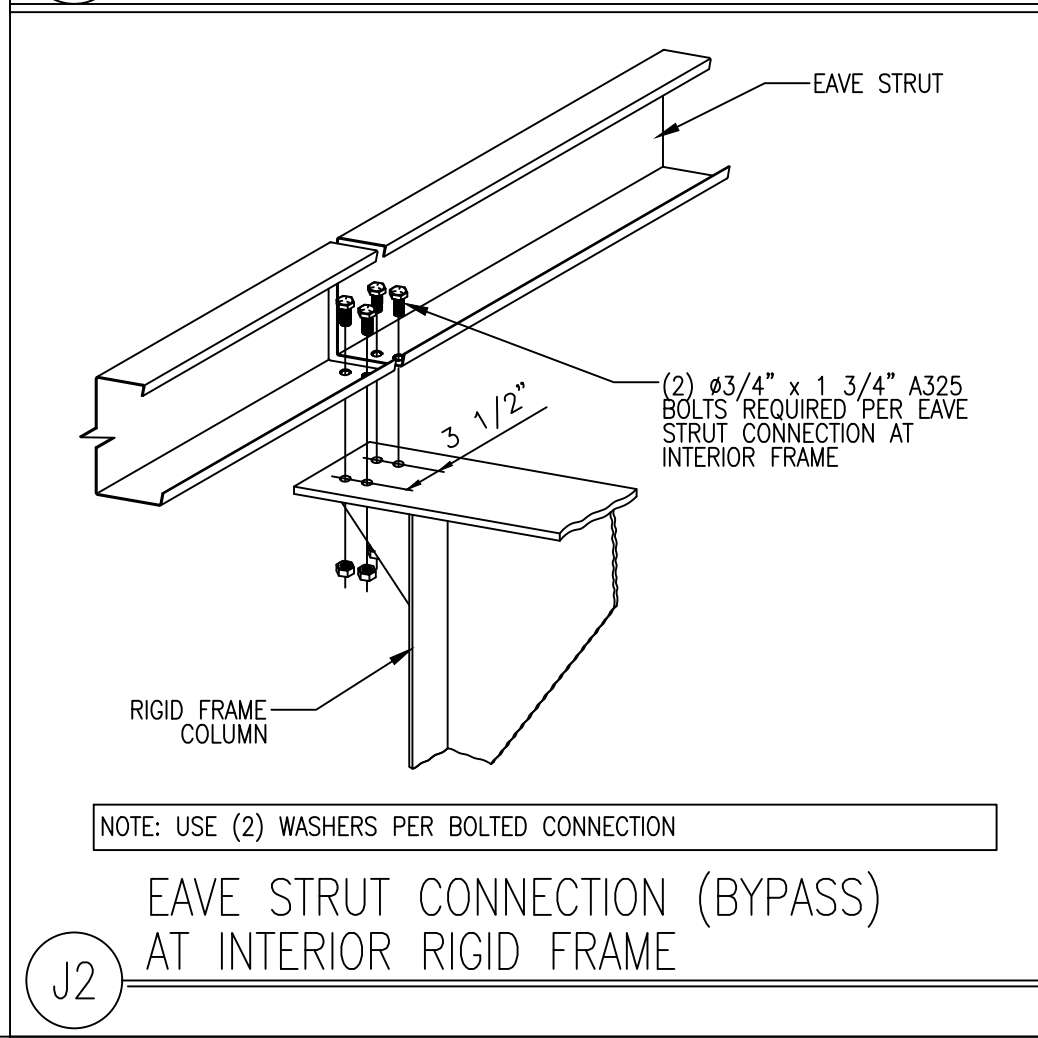
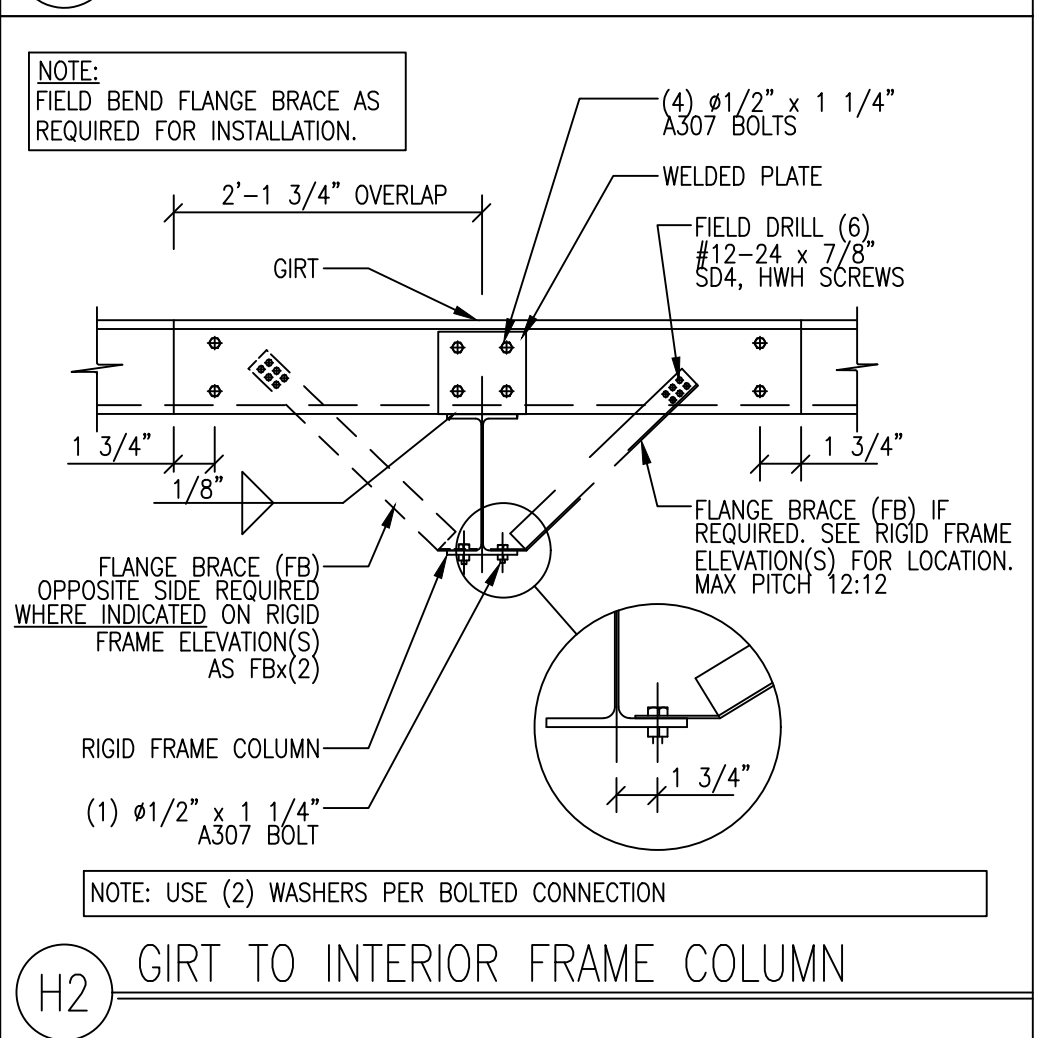
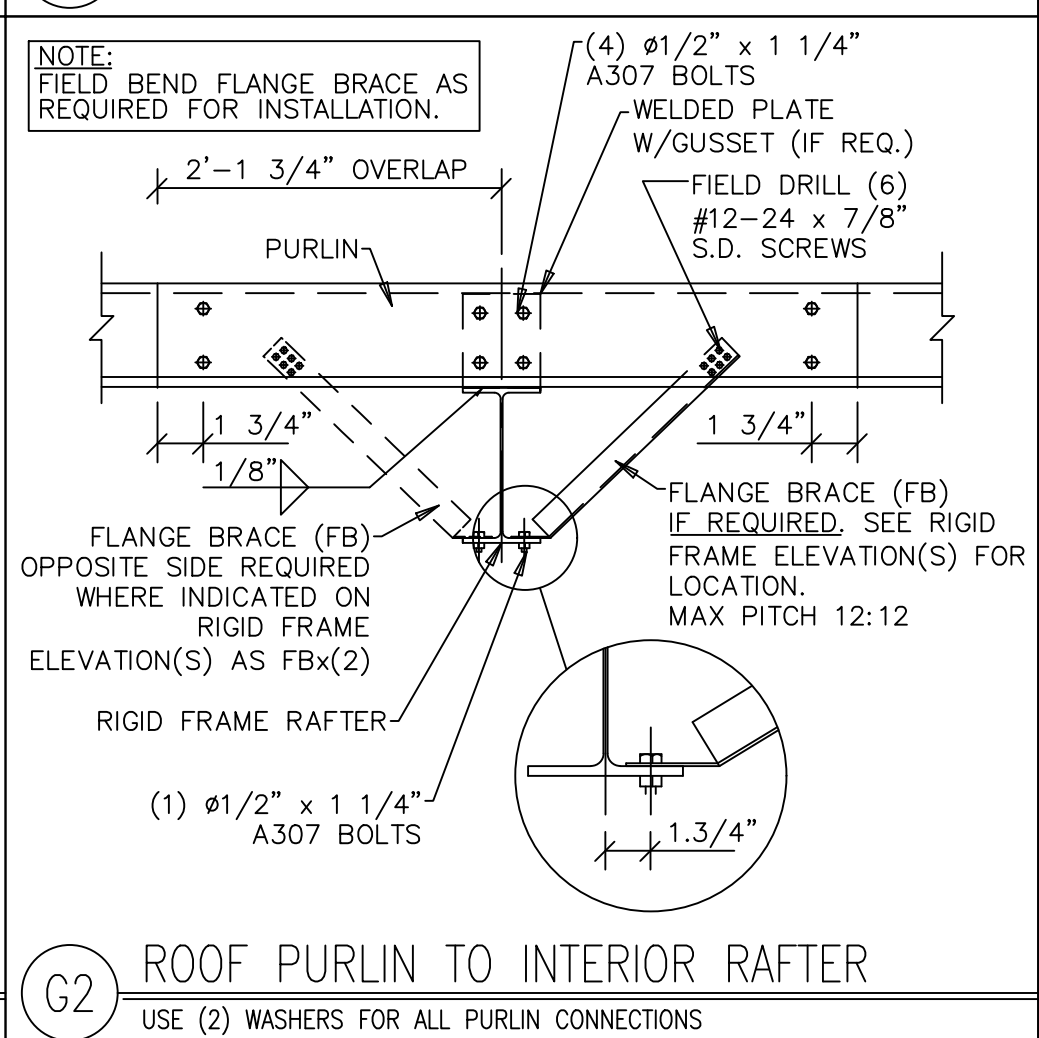
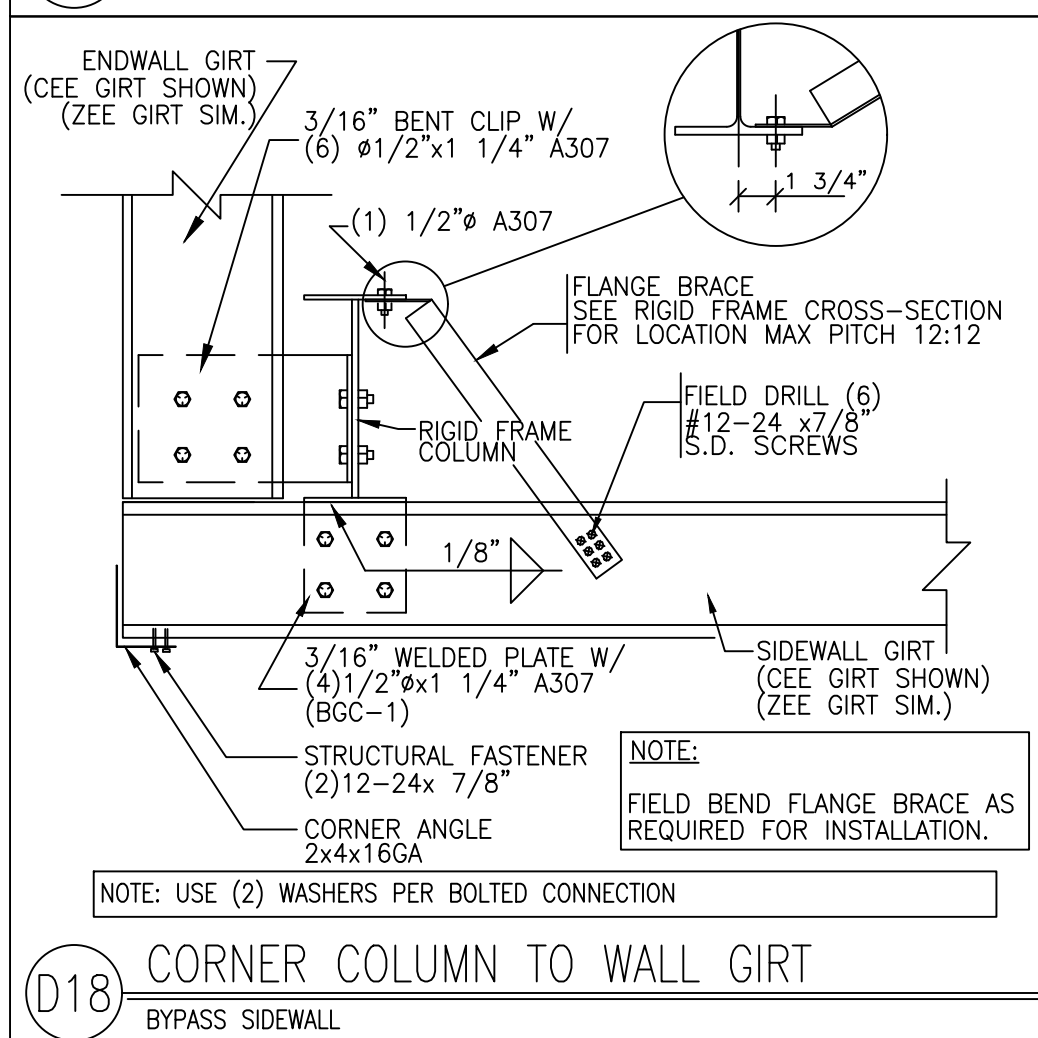
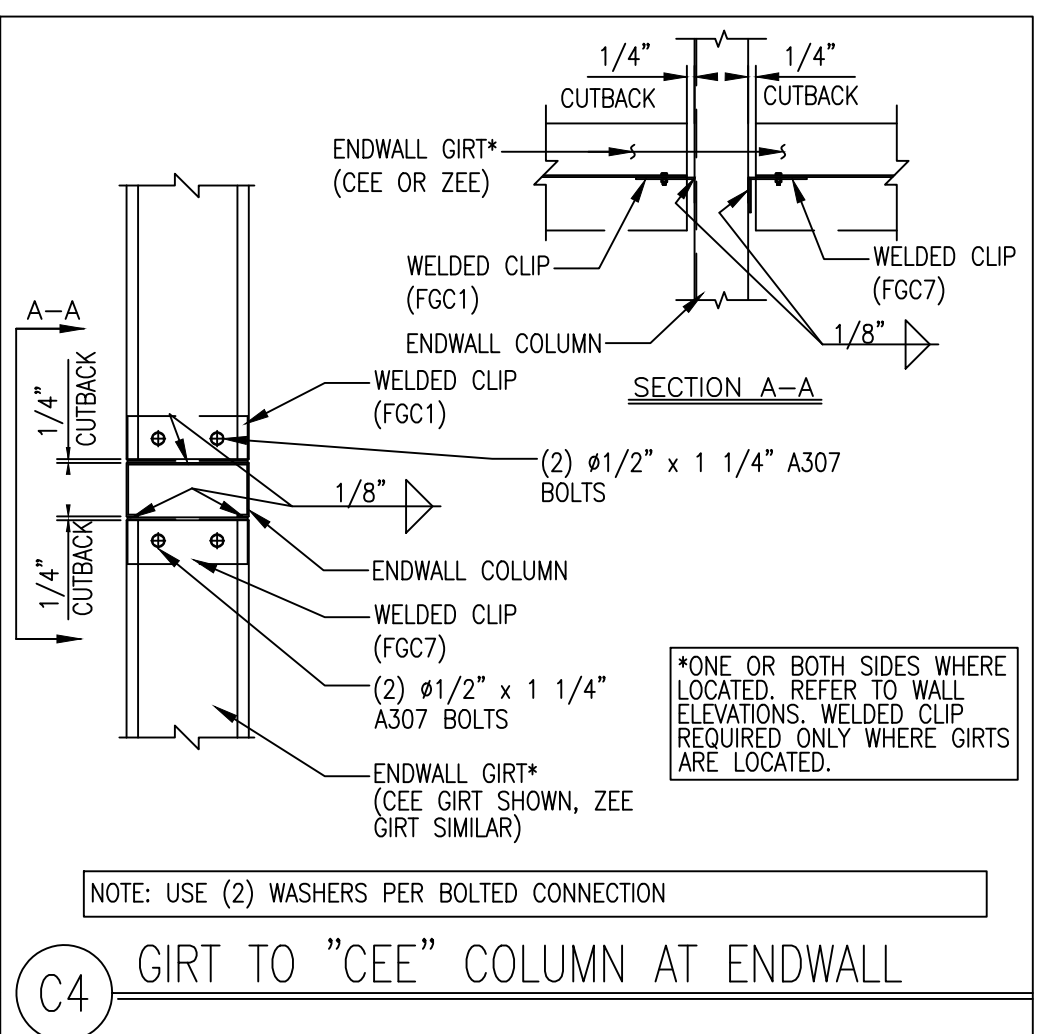
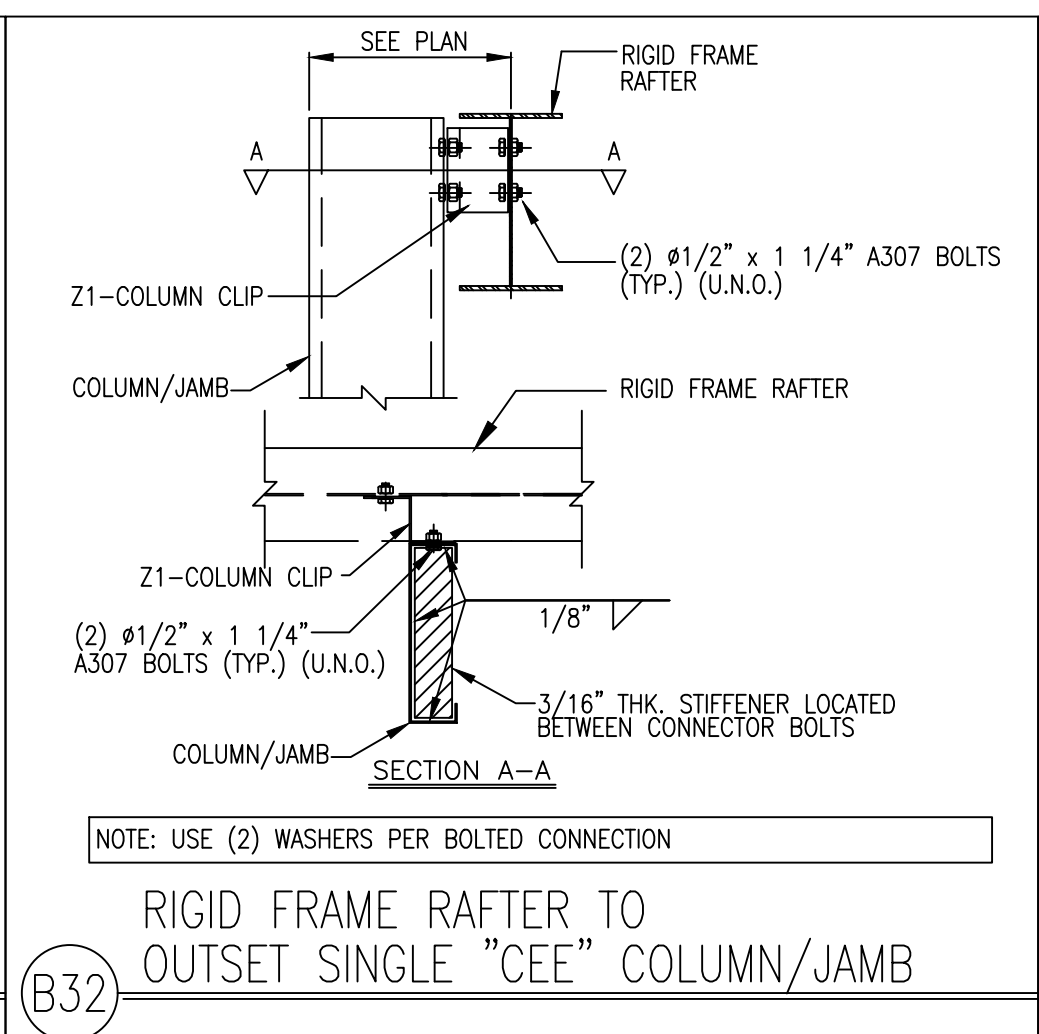
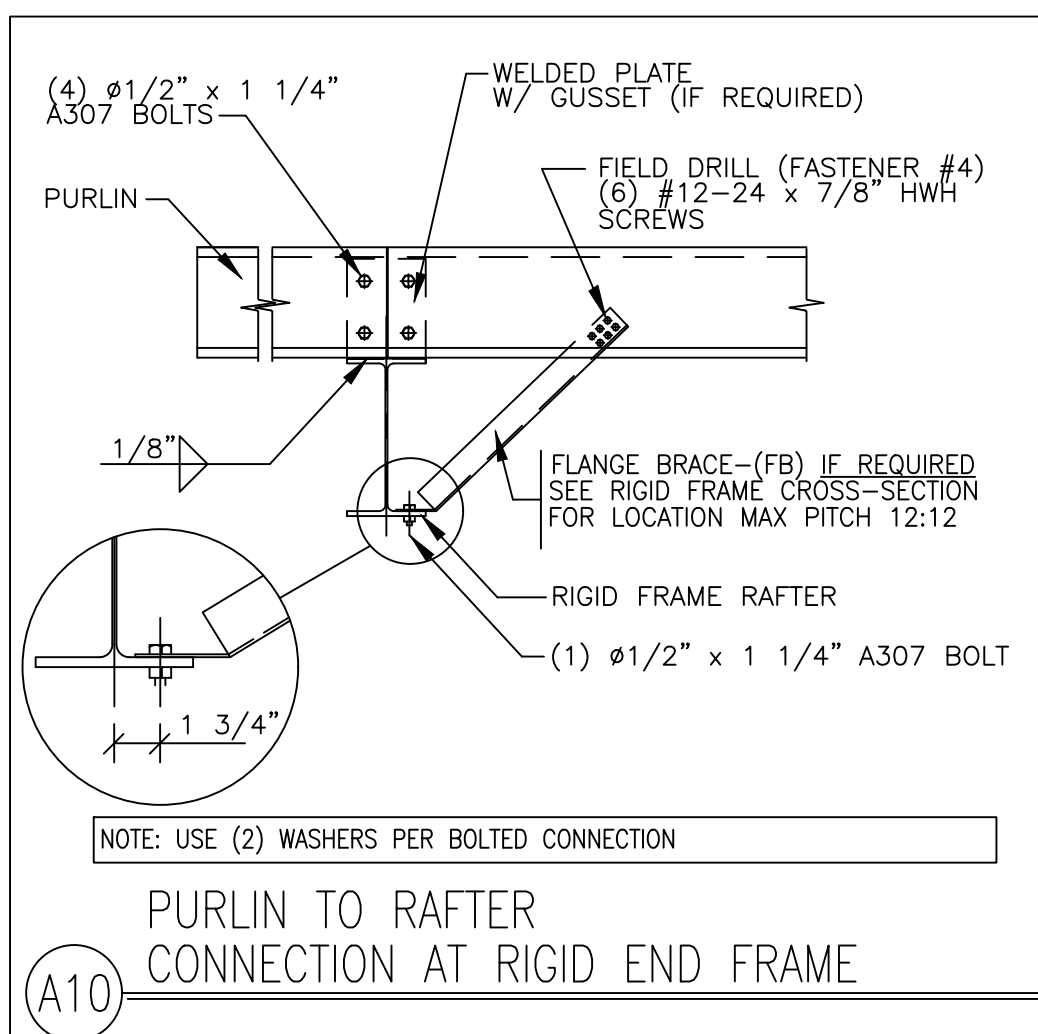
JOB NO. B22066
SHEET 6 OF 10
SCALE: NONE
DETAILED DATE:

NO. REVISED: DATE: BY:

APPROVAL SET (PERMIT USE ONLY)

BORGA
STEEL BUILDINGS & COMPONENTS
PHONE: (559) 834-5375
FAX: (559) 834-1406
300 WEST PEACH ST.
P.O. BOX 35 | FOWLER, CA 93625

Signed 9/14/2022



DESIGNED BY: C1
 DRAWN BY: CMH
 DATE: 09.12.22
 SHEET 7 OF 10
 DETAILED DATE: NONE

CLOVIS UNIFIED SCHOOL DISTRICT
 36.854926. -119.712999
 CLOVIS, CA 93619

APPROVAL SET (PERMIT USE ONLY)

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REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 C 83684

Signed 9/14/2022

ZEE LEGEND

CEE LEGEND

ZEE SECTION---PROFILE AND DIMENSIONS

SECTION DEPTH & SIZE	DEPTH (D)IN.	RANGE (B)IN.	LIP (d)IN.	THICK (T)IN.
8x2.5 ZEE 16GA	8.000	2.500	0.6400	0.059
8x2.5 ZEE 14GA	8.000	2.500	0.6700	0.075
8x2.5 ZEE 12GA	8.000	2.500	0.7190	0.099
8x3.5 ZEE 16GA	8.000	3.500	0.6400	0.059
8x3.5 ZEE 14GA	8.000	3.500	0.6700	0.075
8x3.5 ZEE 12GA	8.000	3.500	0.7190	0.099
10x2.5 ZEE 16GA	10.000	2.500	0.6400	0.059
10x2.5 ZEE 14GA	10.000	2.500	0.6700	0.075
10x2.5 ZEE 12GA	10.000	2.500	0.7190	0.099

CEE SECTION---PROFILE AND DIMENSIONS

SECTION DEPTH & SIZE	DEPTH (D)IN.	RANGE (B)IN.	LIP (d)IN.	THICK (T)IN.
8x2.5 CEE 16GA	8.000	2.500	0.7190	0.059
8x2.5 CEE 14GA	8.000	2.500	0.7500	0.075
8x2.5 CEE 12GA	8.000	2.500	0.8120	0.099
8x3.5 CEE 16GA	8.000	3.500	0.7190	0.059
8x3.5 CEE 14GA	8.000	3.500	0.7500	0.075
8x3.5 CEE 12GA	8.000	3.500	0.8120	0.099
10x2.5 CEE 16GA	10.000	2.500	0.7190	0.059
10x2.5 CEE 14GA	10.000	2.500	0.7500	0.075
10x2.5 CEE 12GA	10.000	2.500	0.8120	0.099

PITCH CODE TABLE

PITCH	APPLICABLE ROOF SLOPE	DEGREES (a)	DEGREES (b)
1 TO 12	>0 THROUGH 1 1/2	95	85
2 TO 12	>1 1/2 THROUGH 2 1/2	99	81
3 TO 12	>2 1/2 THROUGH 3 1/2	104	76
4 TO 12	>3 1/2 THROUGH 4 1/2	108	72
5 TO 12	>4 1/2 THROUGH 5 1/2	113	67
6 TO 12	>5 1/2 THROUGH 6 1/2	117	63

STRUT SECTION---PROFILE AND DIMENSIONS

SECTION DEPTH & SIZE	NOMINAL DEPTH (D)IN.	FLANGE (B)IN.	FLANGE (E)IN.	LIPS (d)IN.	THICK (T)IN.
8" E.S. 16GA	8.000	4.500	4.500	0.7500	0.059
8" E.S. 14GA	8.000	4.500	4.500	0.7500	0.075
8" E.S. 12GA	8.000	4.500	4.500	0.7500	0.099
10" E.S. 16GA	10.000	4.500	4.500	0.7500	0.059
10" E.S. 14GA	10.000	4.500	4.500	0.7500	0.075
10" E.S. 12GA	10.000	4.500	4.500	0.7500	0.099

EAVE STRUT LEGEND

NOMINAL DEPTH

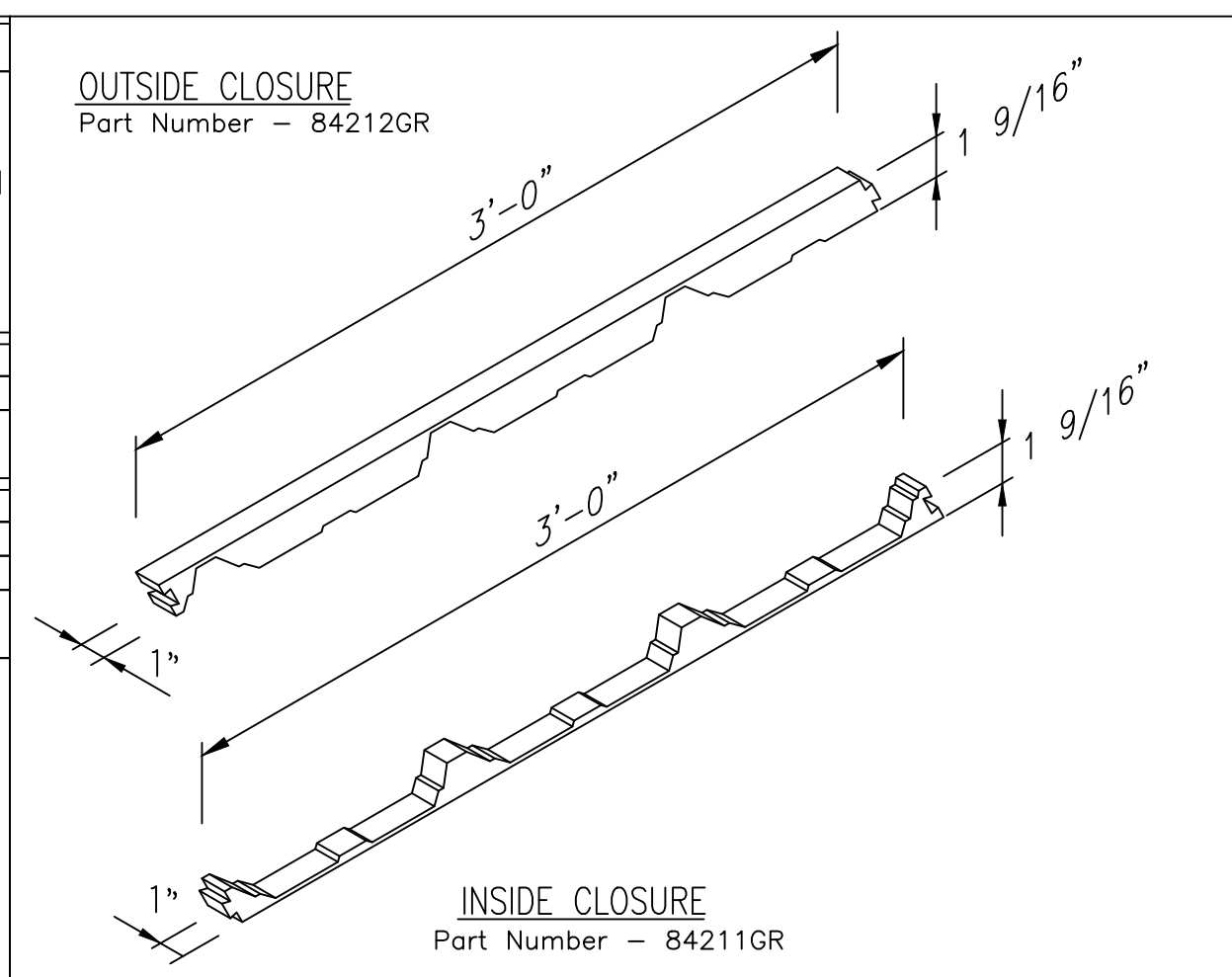
08	8"	45	4.5"
10	10"		
12	12"		

FLANGE WIDTH

1	1:12	5	5:12
2	2:12	6	6:12
3	3:12		
4	4:12		

EAVE STRUT TYPE

L	LOW SIDE
H	HIGH SIDE



FASTENERS

DESCRIPTION:	DESCRIPTION:	DESCRIPTION:
#12 - 14 SELF DRILLING HEX HEAD FASTENER WITH WASHER PART NO: SIZE: 82021XX 3/4", 82024XX 1 1/2", 82025XX 2"	#9 - 15 SHARP POINT HEX HEAD FASTENER WITH WASHER PART NO: SIZE: 81091XX 1", 81092XX 1 1/2", 81094XX 2 1/2"	10 - 12x1" WOOD PANCAKE SCREW PART NO: SIZE: 8100109 1"
#1/4" - 14 SELF DRILLING HEX HEAD STITCH FASTENER WITH WASHER PART NO: SIZE: 81551XX 7/8"	#12 - 14 SHARP POINT HEX HEAD STITCH FASTENER WITH WASHER PART NO: SIZE: 81521XX 3/4"	10 - 16x1" S.D. PANCAKE SCREW PART NO: SIZE: 8200009 1"
#8 - 18 SELF DRILLING HEX HEAD STITCH FASTENER WITH WASHER PART NO: SIZE: 81581XX 1/2"	#8 - 18 SELF DRILLING HEX HEAD STITCH FASTENER WITH WASHER PART NO: SIZE: 81581XX 1/2"	1/8" BLIND RIVET PART NO: SIZE: 81511XX 3/16"
#12 - 24 SELF DRILLING HEX HEAD FASTENER WITH WASHER PART NO: SIZE: 8292109 7/8"	#14 - 10 WOOD SCREW WITH WASHER PART NO: SIZE: 81041XX 1", 81042XX 1 1/2"	

BSP1 BASIC PARTS AND PIECES
BORGA SUPER PANEL

(SMP1) SECONDARY PROFILES

WELDED PLATE LEGEND

FLANGE WIDTH (B)

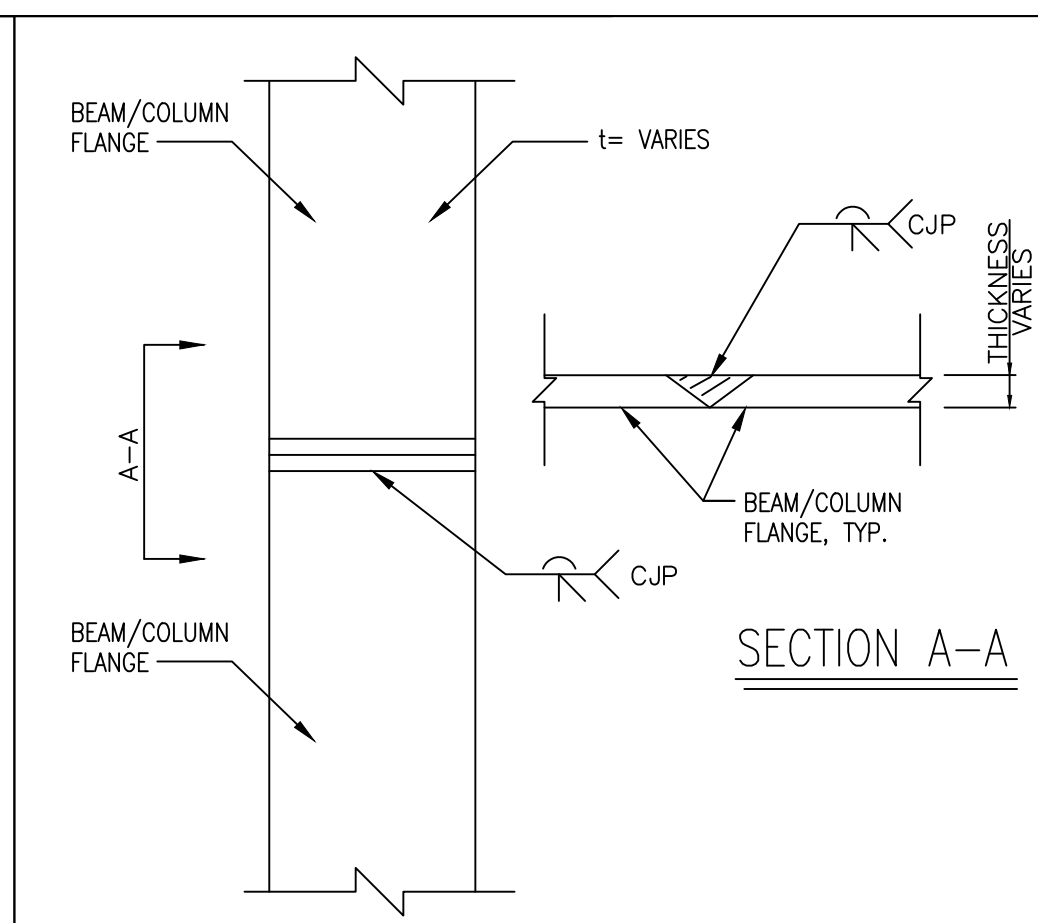
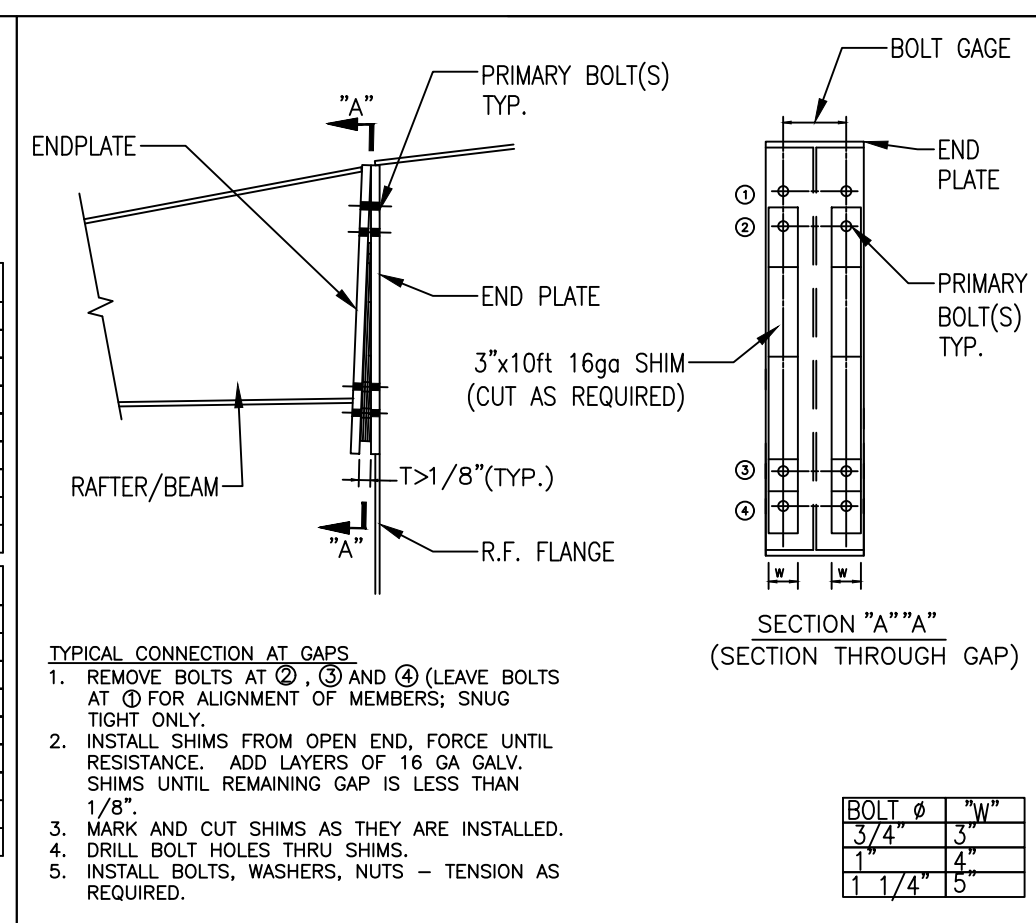
CODE: SIZE:	CODE: SIZE:
3 3"	8 8"
4 4"	9 9"
5 5"	10 10"
6 6"	

FLANGE THICKNESS (C)

CODE: SIZE:	CODE: SIZE:
1 1/8"	9 9/16"
2 1/8"	10 5/8"
3 3/16"	11 11/16"
4 1/4"	12 3/4"
5 5/16"	13 13/16"
6 3/8"	14 7/16"
7 7/16"	15 15/16"
8 1/2"	

WEB THICKNESS (D)

CODE: SIZE:	CODE: SIZE:
1 10 GA	9 9/16"
2 8 GA	10 5/8"
3 7/16"	11 11/16"
4 1/4"	12 3/4"
5 5/16"	13 13/16"
6 3/8"	14 7/16"
7 7/16"	15 15/16"
8 1/2"	

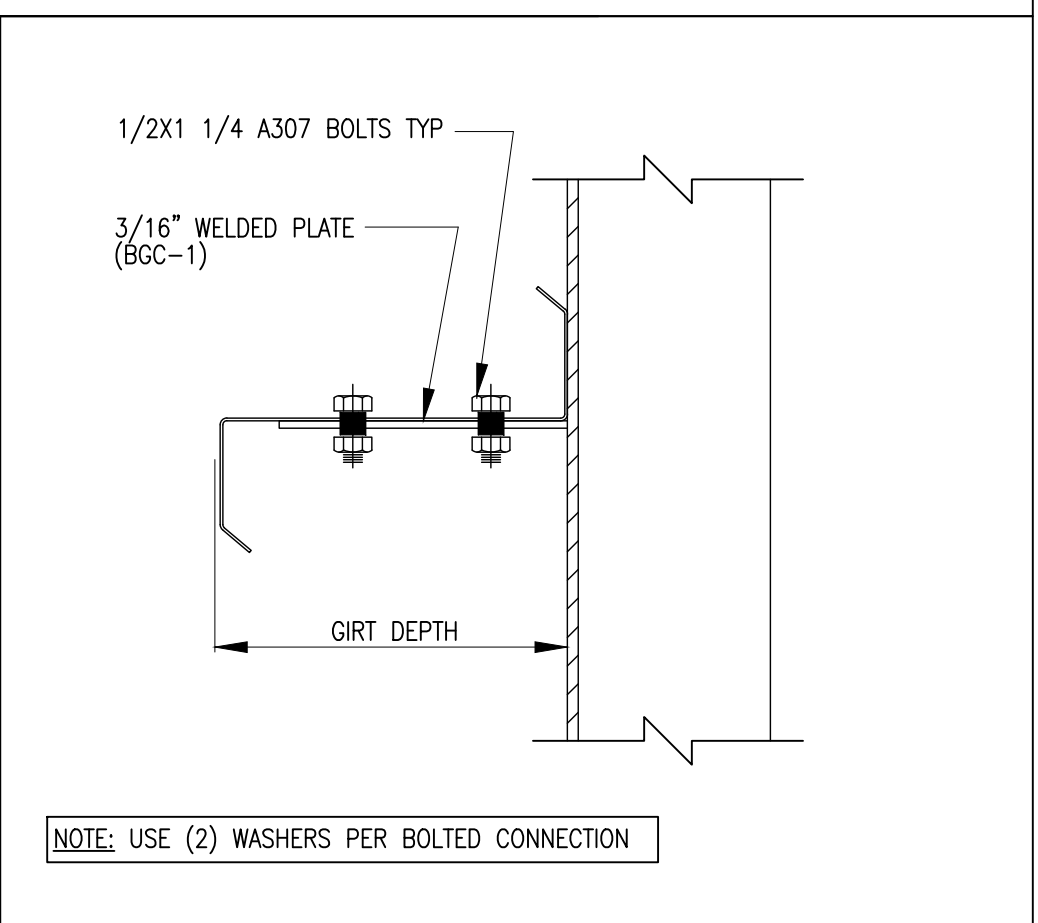


(GE1) ASTM A325 BOLT/NUT IDENTIFICATION

BOLT DIAMETER	DIMENSION W	DIMENSION F
1/2"	7/8"	
5/8"	1 1/16"	
3/4"	1 1/4"	
7/8"	1 7/16"	
1"	1 5/8"	
1 1/8"	1 13/16"	
1 1/4"	2"	
1 3/8"	2 3/16"	
1 1/2"	2 3/8"	

(GE2) A307 BOLT/NUT IDENTIFICATION

BOLT DIAMETER	DIMENSION W	DIMENSION F
1/2"	7/8"	
5/8"	1 1/16"	
3/4"	1 1/4"	
7/8"	1 7/16"	
1"	1 5/8"	
1 1/8"	1 13/16"	
1 1/4"	2"	
1 3/8"	2 3/16"	
1 1/2"	2 3/8"	



(WPM1) WELDED PLATE MEMBER TABLE

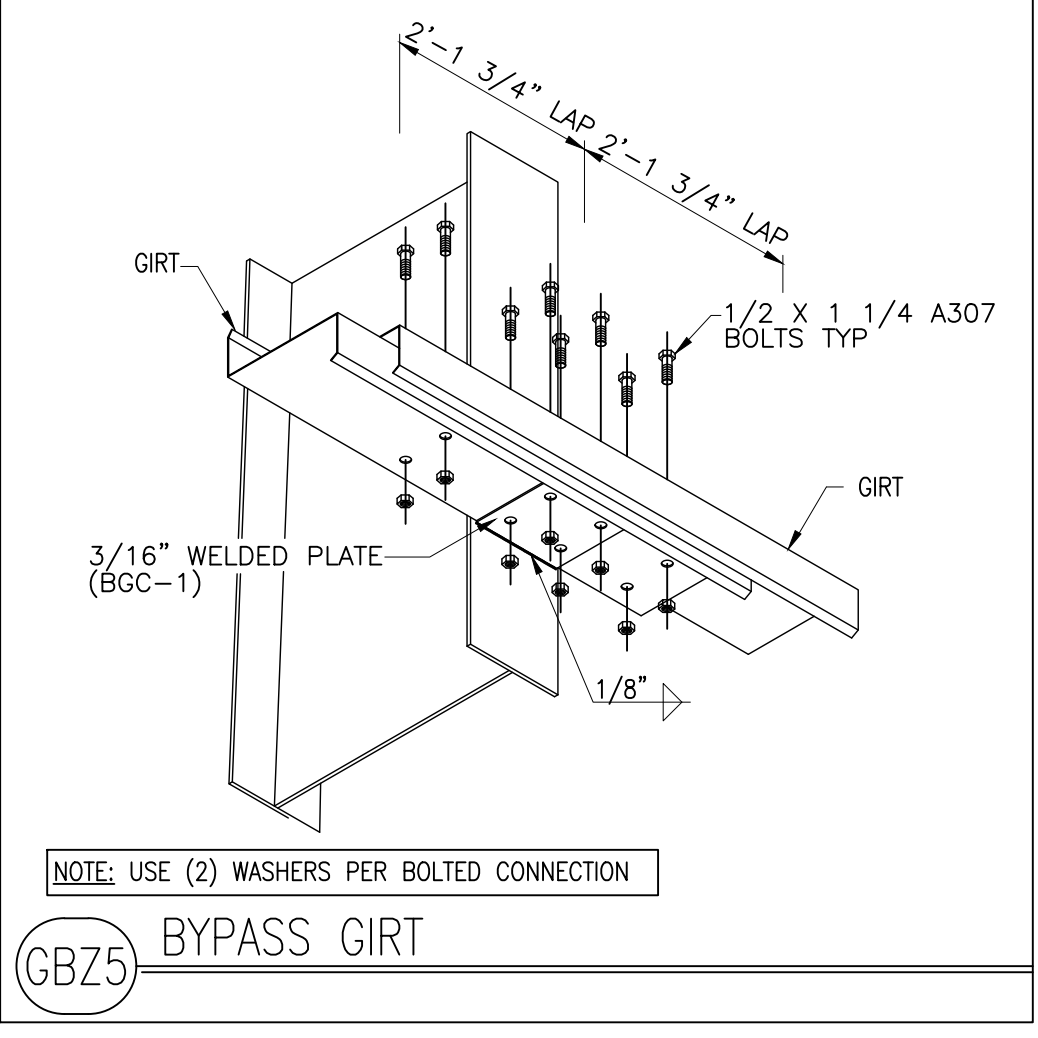
(RFS2) TYPICAL HAUNCH SHIMMING DETAILS

(RFFC1) BEAM/COLUMN FLANGE CONNECTION

(GE1) ASTM A325 BOLT/NUT IDENTIFICATION

(GE2) A307 BOLT/NUT IDENTIFICATION

(GBZ4) BYPASS GIRT



DESIGNED BY: CI
DRAWN BY: CMH
DATE: 09.12.22
DETAILED BY:

JOB NO.: B22066
SHEET: 8 OF 10
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SCALE: NONE

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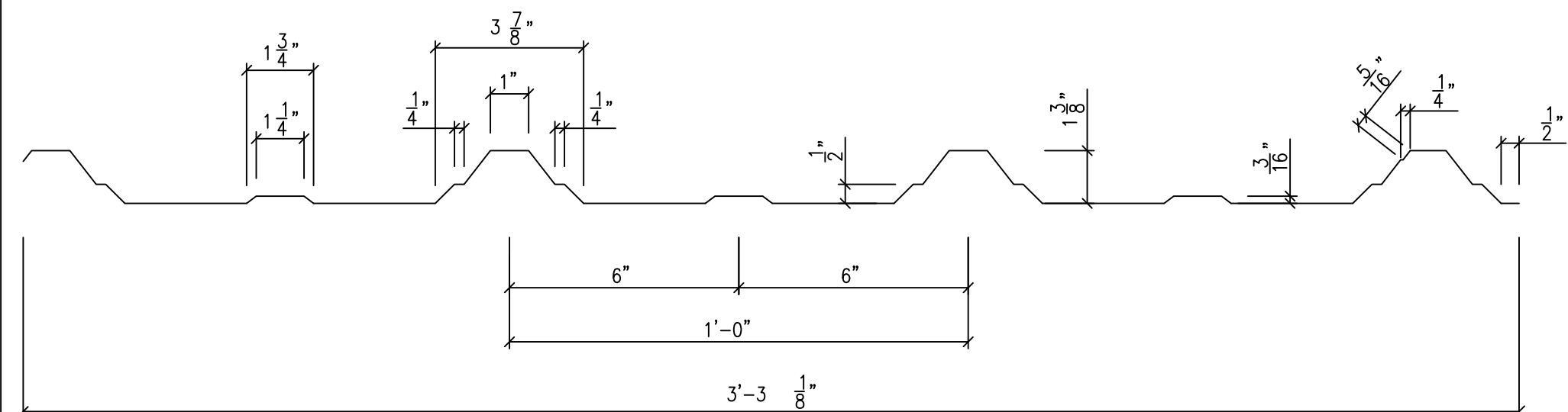
APPROVAL SET (PERMIT USE ONLY)

NO.: 1, 2, 3, 4, 5
REVISED:

BORGA
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PHONE: (559) 834-5375
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C 8368A
STATE OF CALIFORNIA

Printed ON: 9/13/2022

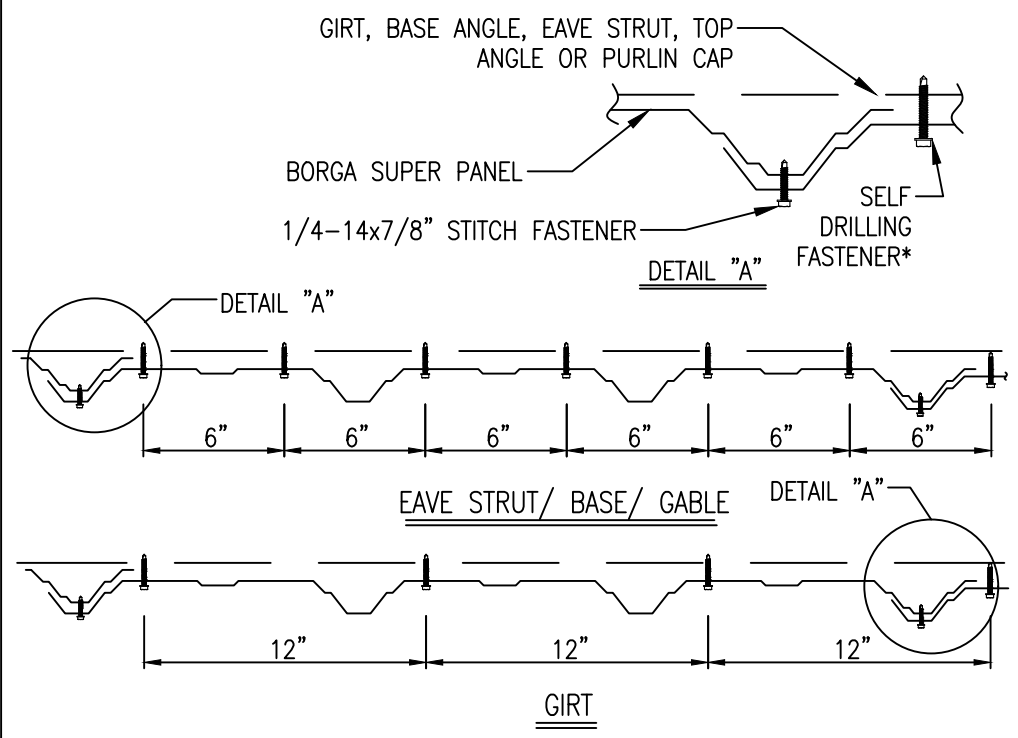


NOTES:

1. STEEL STRENGTH VALUES ARE BASED ON A MINIMUM YIELD STRENGTH OF 50 KSI.
2. SHEET TO GIRTS FASTENERS HAVE A 6" SPACING AT THE BASE, THE EAVE, THE GABLE AND A 12" SPACING AT INTERMEDIATE GIRTS.
3. SHEET TO PURLIN FASTENERS HAVE A 6" SPACING AT EAVE AND RIDGE AND A 12" SPACING AT INTERMEDIATE PURLINS.
4. WALL SHEET OVERLAP FASTENERS HAVE A 30" SPACING.
5. ROOF SHEET OVERLAP FASTENERS HAVE A 18" SPACING.
6. REFER TO DETAIL BSP4 FOR FASTENER SIZES AND LAYOUT.

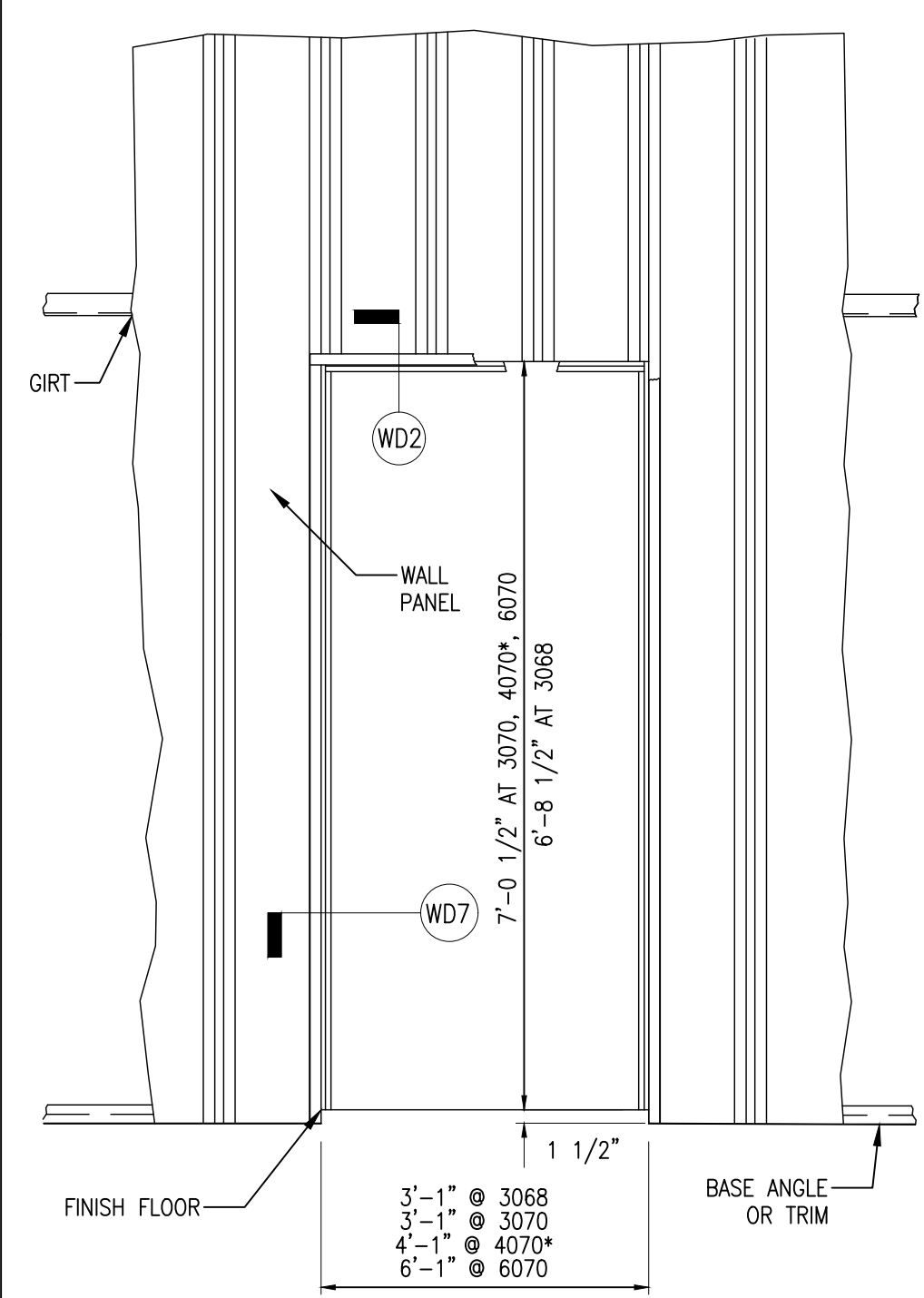
BSP21 BORGA SUPER PANEL SHEETING PROFILE

- *NOTE:**
1. USE #12-14 x 3/4" S.D. FASTENER W/ NEOPRENE WASHER FOR NO INSULATION.
 2. USE #12-14 x 1 1/2" S.D. FASTENER W/ NEOPRENE WASHER FOR 3" & 4" INSULATION.
 3. USE #12-14 x 2" S.D. FASTENER W/ NEOPRENE WASHER FOR 6" INSULATION.



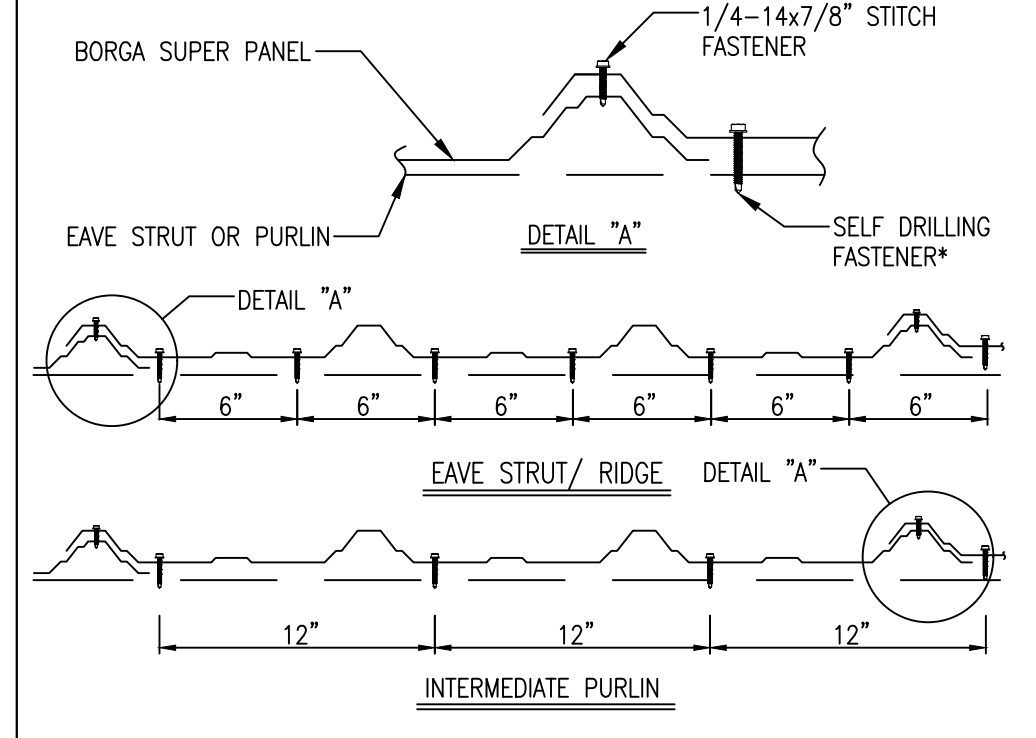
BSP4 FASTENER LAYOUT
BORGA SUPER PANEL AT WALLS

- NOTES:**
1. NOTCH PANELS AS REQUIRED FOR INSTALLATION OF HEAD FLASHING.
 2. WHEN CUTTING PANELS OR TRIM DO NOT USE ABRASIVE SAWS OR OTHER CUTTING METHODS WHICH PRODUCE HOT METAL PARTICLES OR BURN THE CUT EDGES. THESE METHODS WILL DAMAGE THE PAINTED AND GALVALUME FINISH AND VOID ANY WARRANTIES. USE DOUBLE CUT SHEARS, NIBBLERS OR OTHER CUTTING DEVICES WHICH DO NOT PRODUCE HOT METAL PARTICLES OR BURNED EDGES.

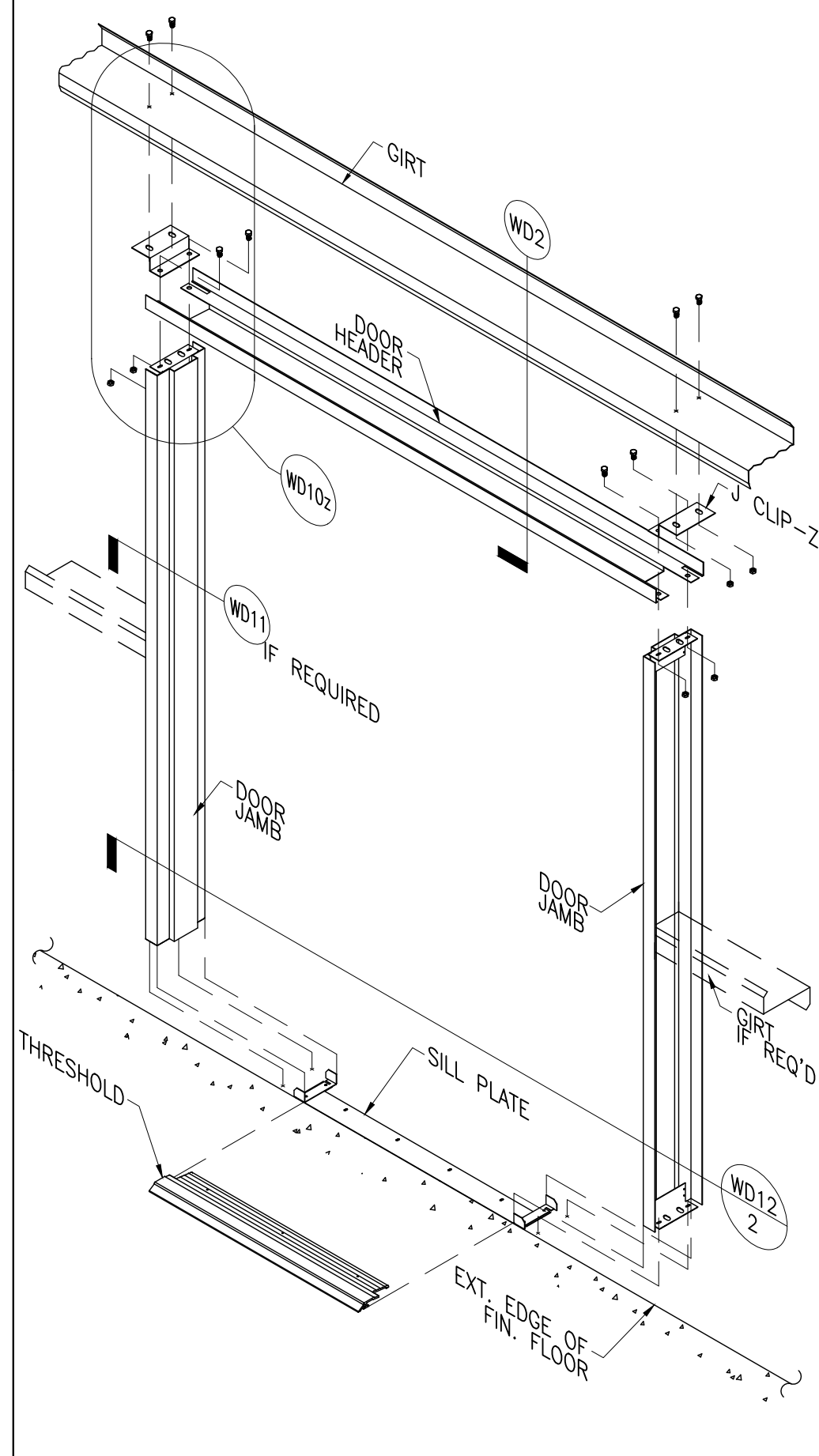


WD9 PERSONNEL DOOR PANEL OPENING

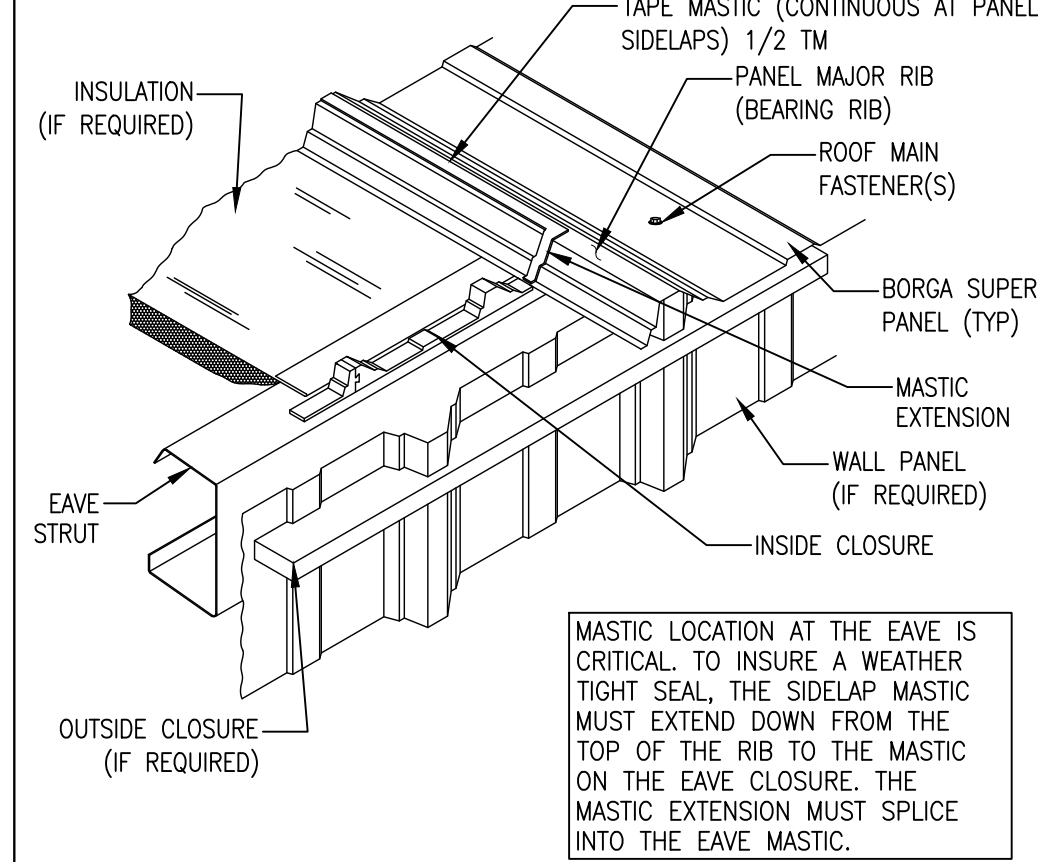
- *NOTE:**
1. USE #12-14 x 3/4" S.D. FASTENER W/ NEOPRENE WASHER FOR NO INSULATION.
 2. USE #12-14 x 1 1/2" S.D. FASTENER W/ NEOPRENE WASHER FOR 3" & 4" INSULATION.
 3. USE #12-14 x 2" S.D. FASTENER W/ NEOPRENE WASHER FOR 6" INSULATION.



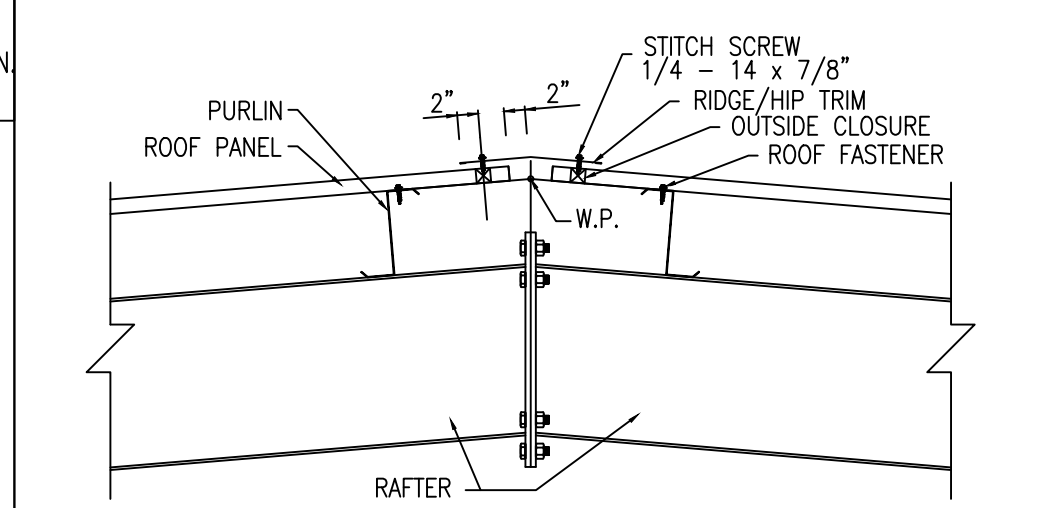
BSP9 FASTENER LAYOUT
BORGA SUPER PANEL AT ROOF



WD1z ASSEMBLY DETAIL FOR NON-HANDED PERSONNEL DOOR FRAME



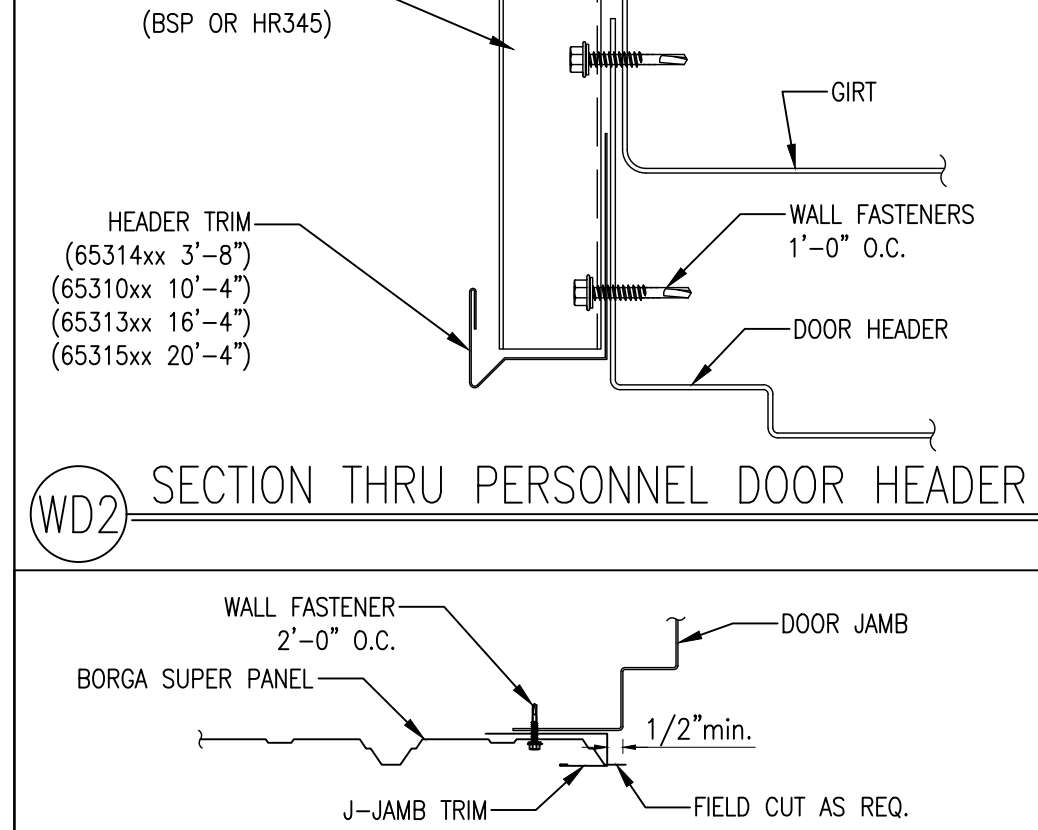
RSP6 EAVE DETAIL AT PANEL SIDELAP
BORGA SUPER PANEL AT ROOF



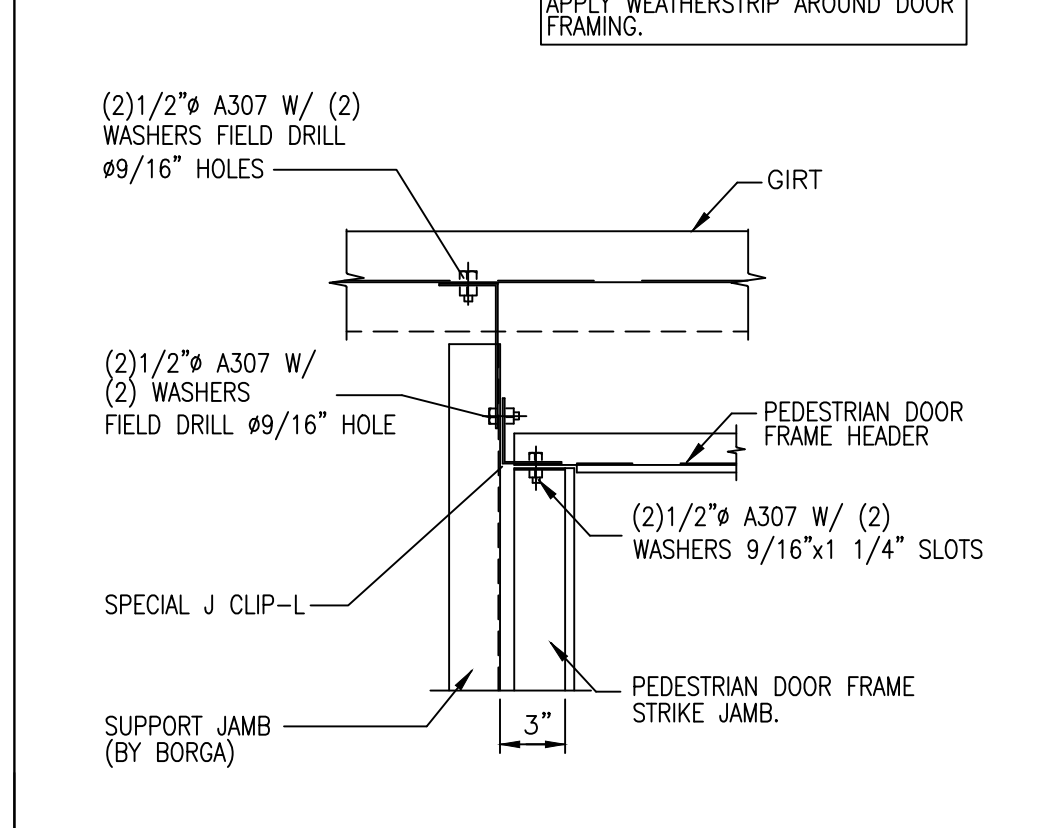
NOTE: USE (2) WASHERS PER BOLTED CONNECTION

ITEM/ PART NO.	DESCRIPTION
#12-14x3/4" S.D. SCREW	FASTENER NO INSULATION
#12-14x1 1/2" S.D. SCREW	FASTENER 3" AND 4" INSULATION
#12-14x2" S.D. SCREW	FASTENER 6" INSULATION
84212GR	OUTSIDE CLOSURE - BSP
84202GR	OUTSIDE CLOSURE - BP
51000xx	RIDGE/HIP TRIM 24 GA-10'-2"
61000xx	RIDGE/HIP TRIM 26 GA-10'-2"

RRF2 RIDGE FLASHING
RIDGE/HIP TRIM FOR ROOF PITCHES 3:12 AND ABOVE



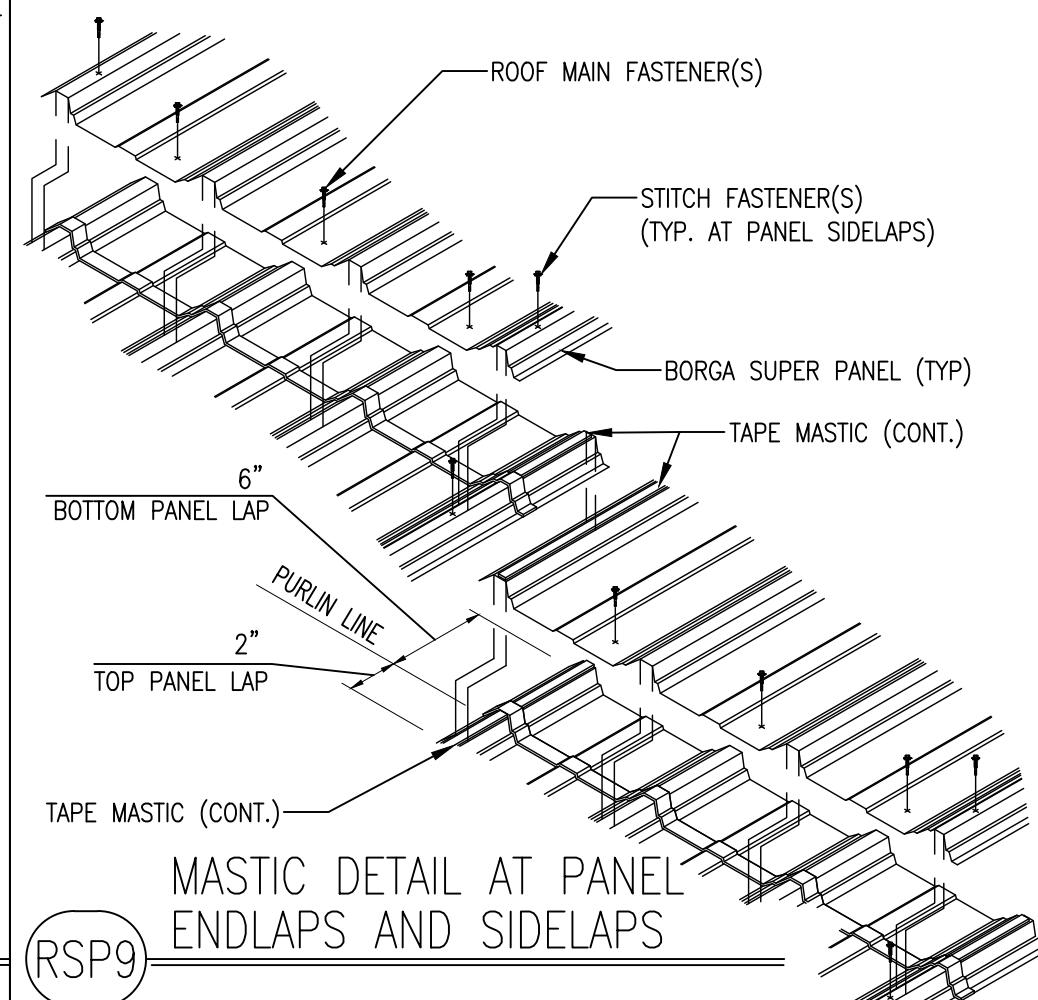
WD2 SECTION THRU PERSONNEL DOOR HEADER



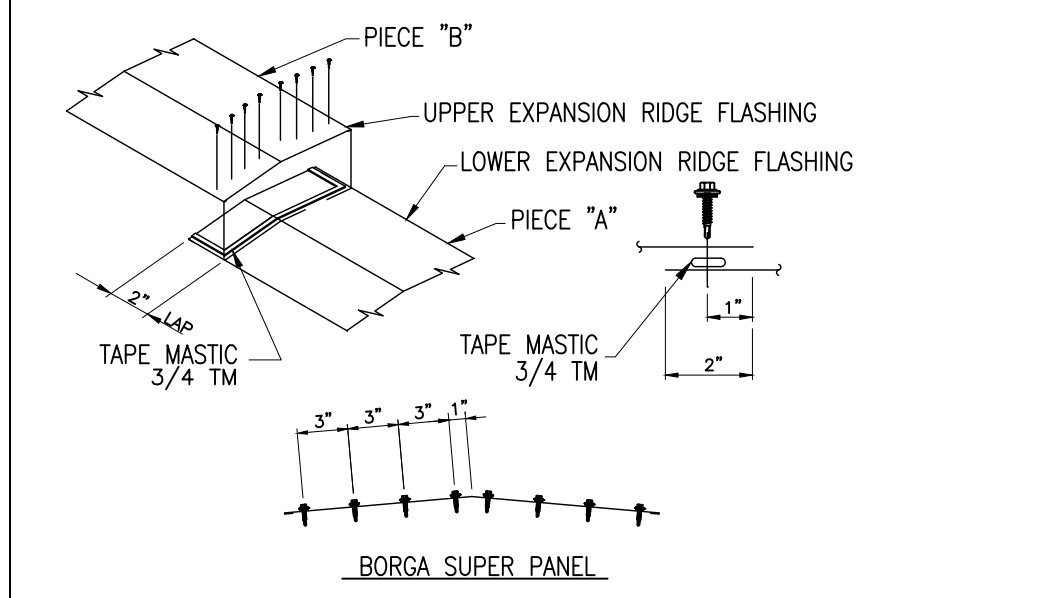
WD7 PERSONNEL DOOR JAMB FLASHING



WD10L PEDESTRIAN DOOR FRAME
SUPPORT JAMB CONNECTION



RSP9 MASTIC DETAIL AT PANEL ENDLAPS AND SIDELAPS



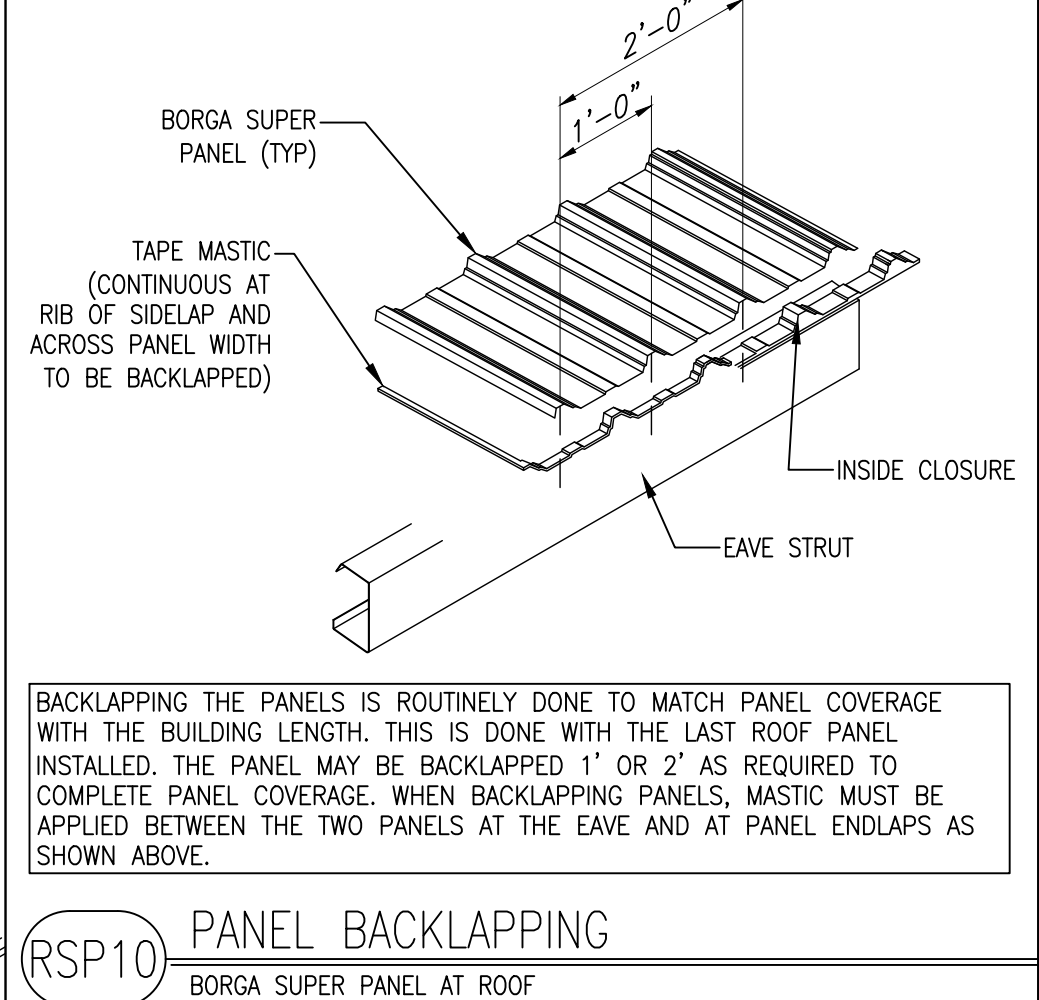
RSTD1 EXPANSION JOINT AT RIDGE/HIP TRIM



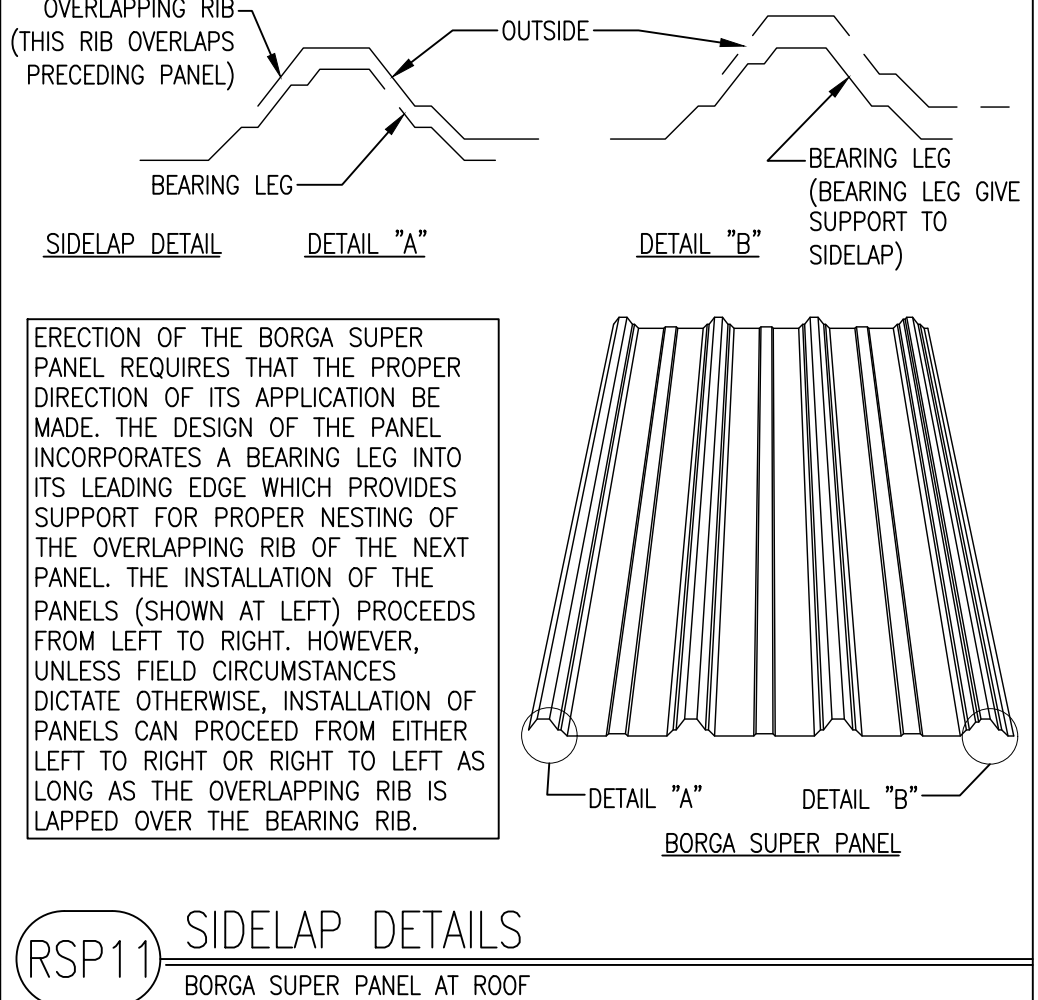
RRF5 RIDGE FLASHING OR HIGH SIDE EAVE ATTACHMENT



RSP10 PANEL BACKLAPPING
BORGA SUPER PANEL AT ROOF



RSP11 SIDELAP DETAILS
BORGA SUPER PANEL AT ROOF



RSP11 SIDELAP DETAILS
BORGA SUPER PANEL AT ROOF

DESIGNED BY: C1
DRAWN BY: CMH
DATE: 09.12.22
DETAILED BY:

JOB NO. B22066
SHEET 9 OF 10
DETAILED DATE: SCALE: NONE

CLOVIS UNIFIED SCHOOL DISTRICT
36.854926, -119.712999
CLOVIS, CA 93619

NO.:
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REGISTERED PROFESSIONAL ENGINEER
C 8368A
STATE OF CALIFORNIA

Approval SET (PERMIT USE ONLY)

Printed ON: 9/13/2022

