CANAM
STEEL BUILDING CORPORATION

PROJECT NUMBER: _____

PROJECT NAME: _____

PROJECT LOCATION: _____ COUNTY: _____

CUSTOMER: _____

NOTES AND SPECIFICATIONS

BUILDING ERECTION NOTES

1) THE GENERAL CONTRACTOR AND/OR ERECTOR IS RESPONSIBLE TO SAFELY AND PROPERLY ERECT THE METAL BUILDING SYSTEM IN CONFORMANCE WITH THESE DRAWINGS, OSHA REQUIREMENTS, AND MBMA STANDARDS PERTAINING TO PROPER ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE CORRECT USE OF TEMPORARY GUYS AND BRACING WHERE NEEDED FOR SQUARING, PLUMBING, AND SECURING THE STRUCTURAL AND SECONDARY FRAMING. SECONDARY WALL FRAMING MEMBERS (GIRTS OR BAR JOISTS) ARE NOT DESIGNED TO FUNCTION AS A WORK PLATFORM OR PROVIDE SAFETY TIE OFF ATTACHMENT IN ACCORDANCE WITH OSHA REQUIREMENTS. SECONDARY ROOF FRAMING MEMBERS (PURLINS OR BAR JOISTS) ARE NOT DESIGNED TO PROVIDE SAFETY TIE OFF ATTACHMENT IN ACCORDANCE WITH OSHA REQUIREMENTS.

2) ALL HIGH STRENGTH BOLTS ARE TYPE ASTM A325 AND ARE TO BE INSTALLED TO THE "SNUG-TIGHT" CONDITION AS DEFINED BY THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, 2004 EDITION, SECTION 8.1, UNLESS NOTED OTHERWISE. ALSO, NOTE THAT BOLTS IN STANDARD HOLES DO NOT REQUIRE WASHERS PER THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS, SECTION 6.

3) ALL A307 MACHINE BOLTS ARE TO BE BROUGHT TO A "SNUG TIGHT" CONDITION TO ENSURE THAT THE MATERIALS IN THE JOINT ARE BROUGHT INTO GOOD CONTACT WITH EACH OTHER.

4) WASHERS ARE REQUIRED AT ALL SLOTTED CONNECTIONS AS FOLLOWS:
=HOLE TO SLOT CONNECTION, ONE WASHER REQUIRED ON SLOTTED SIDE.
=SLOT TO SLOT CONNECTION, TWO WASHERS REQUIRED, ONE ON EACH SIDE OF THE CONNECTION. HOWEVER AT LAPPED ZEE MEMBERS, WHETHER PURLINS OR GIRTS, NO WASHERS ARE REQUIRED IN THE 8-BOLT LAPPED REGION.

5) THE METAL BUILDING SUPPLIER SHALL BE NOTIFIED PRIOR TO ANY FIELD MODIFICATIONS. MODIFICATIONS SHALL BE APPROVED BY THE METAL BUILDING SUPPLIER BEFORE WORK IS UNDERTAKEN.

6) ALL WELDING MUST BE PERFORMED BY AWS QUALIFIED WELDERS FOR THE WELDING PROCESSES AND POSITIONS INDICATED. ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI STEEL AND LOW HYDROGEN CONTENT.

7) COMMON ABBREVIATIONS:

a) TYP UNO-TYPICAL UNLESS NOTED OTHERWISE	f) SIM.-SIMILAR
b) SLV-SHORT LEG VERTICAL	g) NIC-NOT IN CONTRACT
c) LLV-LONG LEG VERTICAL	h) SL-STEEL LINE
d) NS & FS-NEAR SIDE AND FAR SIDE	i) N/A-NOT APPLICABLE
e) O.A.L.-OVERALL LENGTH	j) MBS-METAL BUILDING SUPPLIER

8) CONSTRUCTION LOADS SHALL NOT BE PLACED ON ANY STRUCTURAL STEEL FRAMEWORK UNLESS SUCH FRAMEWORK IS SAFELY BOLTED, WELDED, OR OTHERWISE ADEQUATELY SECURED.

9) PURLINS AND GIRTS SHALL NOT BE USED AS AN ANCHORAGE POINT FOR A FALL ARREST SYSTEM UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE METAL BUILDING SUPPLIER.

10) PURLINS MAY ONLY BE USED AS A WALKING/WORKING SURFACE WHEN INSTALLING SAFETY SYSTEMS, AFTER ALL PERMANENT BRIDGING HAS BEEN INSTALLED AND FALL PROTECTION IS PROVIDED.

11) CONSTRUCTION LOADS MAY BE PLACED ONLY WITHIN A ZONE THAT IS WITHIN 8 FEET OF THE CENTER-LINE OF THE PRIMARY SUPPORT MEMBER. CFR BUNDLES SHOULD BE PLACED DIRECTLY OVER THE RIGID FRAMES.

12) ALL LIFTING DEVICES MUST MEET OSHA OR MSHA STANDARDS AND IN NO CASE IS IT ACCEPTABLE TO USE STRUCTURAL MEMBERS SUPPLIED BY THE MBS AS A SPREADER BAR OR LIFTING DEVICE.

GENERAL DESIGN NOTES AND MATERIAL SPECIFICATIONS

1) ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS-ALLOWABLE STRESS DESIGN", NINTH EDITION, OR THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS", THIRTEENTH EDITION, AS REQUIRED BY THE SPECIFIED BUILDING CODE.

2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION.

3) ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.

4) ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL", LATEST EDITION.

5) IF JOISTS ARE INCLUDED WITH THIS PROJECT, THEY ARE SUPPLIED AS A PART OF THE SYSTEMS-ENGINEERED METAL BUILDING AND ARE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1926.758 OF THE OSHA SAFETY STANDARD FOR STEEL ERECTION, DATED JANUARY 18, 2001.

6) MATERIAL SPECIFICATIONS:

PLATE AND FLANGE MATERIAL:	
5"-12" WIDE & THRU 1" THICK	A529, GRADE 55
OTHERS	A36
BUILT-UP STRUCTURAL WEB MATERIAL	A1011 SS (OR HSLAS CL1) GR 55
HOT-ROLLED STRUCTURAL	A36 OR A572 GRADE 50 OR A992 GRADE 50
STRUCTURAL TUBE	A500 GRADE B (46 KSI)
STRUCTURAL PIPE	A500 GRADE B (42 KSI)
COLD-FORMED STRUCTURAL	A1011 OR A1039 SS (OR HSLAS CL1) GR 55
RPB ROOF PANELS	A792 GRADE 80
STANDING SEAM ROOF PANELS	A792 GRADE 50, CLASS 1
R-PANEL AND A-PANEL SIDING	A653 GRADE 80, CLASS 1 OR A792 GRADE 80, CLASS 1
ROD BRACING	A529 GRADE 50
CABLE BRACING	A475 COATING CLASS A, GRADE EHS, 7-WIRE
WELDS	AWS D1.1 LATEST EDITION
HIGH-STRENGTH BOLTS	A325 TYPE 1 HEAVY HEX OR A490 TYPE 1 HEAVY HEX
MACHINE BOLTS	A-307 GRADE A HEX

PRIMARY AND SECONDARY STEEL PRIMER COLOR: GRAY

ROOF SHEETING, TYPE: SSR 24 GAGE, FINISH: GALVALUME

ROOF PANEL CLIP TYPE: ☐ N/A ☒ TALL ☐ SHORT ☐ UTILITY ☒ FIXED ☐ FLOATING

THERMAL BLOCKS: ☒ YES ☐ NO EPS FOAM SPACER: ☐ YES ☒ NO

COMPOSITE ROOF DECK, TYPE: N/A ___ GAGE, FINISH: _____

ROOF DECK ONLY, TYPE: N/A ___ GAGE, FINISH: _____

ROOF LINE TRIM, PAINTED: BURNISHED SLATE

EXTERIOR WALL SHEETING, TYPE: CLASSIC WALL 26 GAGE, FINISH: POLAR WHITE

EXTERIOR WALL CORNER TRIM FINISH: BURNISHED SLATE

EXTERIOR BASE TRIM, PAINTED: POLAR WHITE

FRAMED OPENING TRIM, PAINTED: BURNISHED SLATE

FRAMED OPENING COVER TRIM, PAINTED: BURNISHED SLATE

WALL FRAMED OPENING, SIZES: (1) 16'x12'

INTERIOR WALL SHEETING, TYPE: N/A ___ GAGE, FINISH: _____

INTERIOR CEILING LINER, TYPE: N/A ___ GAGE, FINISH: _____

INTERIOR WALL TRIM, PAINTED: N/A

YES	NO	
☐	☒	DOWNSPOUTS PAINTED: _____ GUTTERS PAINTED: _____
☐	☒	WALKDOORS, QUANTITY: _____ PAINTED: _____
☐	☒	WINDOWS: _____ PAINTED: _____
☒	☐	INSULATION (BY OTHERS), ROOF: 6" BATT WALLS: 4" BATT
☐	☒	CRANES (SEE CRANE PLAN FOR ADDITIONAL CRANE INFORMATION)
☐	☒	MEZZANINE (SEE MEZZANINE PLAN FOR ADDITIONAL MEZZANINE INFO)
☐	☒	WALL TRANSLUCENT PANELS, LENGTH: _____ QUANTITY: _____
☐	☒	ROOF TRANSLUCENT PANELS, LENGTH: _____ QUANTITY: _____
		INSULATED PANELS YES ☐ NO ☐
☐	☒	PIPE JACKS, SIZE: _____ QUANTITY: _____
☐	☒	ROOF FRAMED OPENINGS, SEE ROOF FRAMING PLAN FOR SIZES
☐	☒	ROOF CURBS (BY MBM), SEE ROOF FRAMING PLAN FOR SIZES
☐	☒	RIDGE VENTS, 10'-0" LONG X ☐ 12" ☐ 9" THROAT. QUANTITY: _____
		SINGLE UNITS ☐ CONTINUOUS UNITS ☐

NOTE:
CONNECTOR BUILDING HAS BEEN DESIGNED TO ACCOUNT FOR DRIFTING SNOW FROM BOTH THE EXISTING AND MAIN BUILDING

METAL BUILDING MANUFACTURER (MBM) DOES NOT MANUFACTURE, SUPPLY OR RECOMMEND THE USE OF SNOW GUARDS OR OTHER DEVICES INTENDED TO HOLD SNOW AND/OR ICE ACCUMULATIONS ON THE ROOF SYSTEM. IF SNOW GUARDS OR OTHER DEVICES ARE TO BE USED ON THIS PROJECT THEY MUST BE INSTALLED UNDER THE GUIDANCE OF THE ENGINEER OF RECORD (BY OTHERS) SO AS TO NOT EXCEED THE DESIGN ROOF SNOW LOAD ON THIS PROJECT.

FOR OCCUPANCY CATEGORY I OR II BUILDINGS, IBC ALLOWS FOR SINGLE STORY BUILDINGS TO HAVE NO LIMIT FOR SEISMIC STORY DRIFT. PLEASE NOTE THAT ANY INTERIOR WALLS, PARTITIONS, CEILINGS, AND EXTERIOR WALLS SHOULD BE DETAILED (BY OTHERS) TO ACCOMMODATE THIS STORY DRIFT.

YES	NO	
☐	☒	FASCIA, PROJECTION: _____ TOP OF FASCIA HEIGHT: _____
		FACE PANEL, TYPE: _____ ___ GAGE, FINISH: _____
		BACK PANEL, TYPE: _____ ___ GAGE, FINISH: _____
		CAP TRIM PAINTED: _____ BASE TRIM PAINTED: _____
	☐	CLOSED SYSTEM, CLEAR UNDER SOFFIT TRIM: _____
		SOFFIT PANEL, TYPE: _____ ___ GAGE, FINISH: _____
		SOFFIT TRIM AT BUILDING LINE PAINTED: _____
	☐	OPEN SYSTEM, (NO SOFFIT PANEL PROVIDED)
		CLEAR UNDER FASCIA: _____
☐	☒	PARAPET SYSTEM
		☐ STRUCTURAL PARAPET ☐ NON-STRUCTURAL PARAPET ☐ NOT BY MBS
		TOP OF PARAPET HEIGHT: _____
		BACKER PANEL, TYPE: _____ ___ GAGE, FINISH: _____
☐	☒	CANOPY (EXPOSED BEAM), PROJECTION: _____
		AT EAVE LINE ☐ BELOW EAVE ☐
		ROOF PANEL, TYPE: _____ ___ GAGE, FINISH: _____
		SOFFIT PANEL, TYPE: _____ ___ GAGE, FINISH: _____
		SOFFIT TRIM AT BUILDING LINE PAINTED: _____
		CLEAR UNDER CANOPY BEAM: _____
☐	☒	BOXED-OUT CANOPY, PROJECTION: _____ ☐ AT EAVE LINE ☐ BELOW EAVE
		ROOF PANEL, TYPE: _____ ___ GAGE, FINISH: _____
		FACE PANEL, TYPE: _____ ___ GAGE, FINISH: _____
		SOFFIT PANEL, TYPE: _____ ___ GAGE, FINISH: _____
		SOFFIT TRIM AT BLDG LINE PAINTED: _____
		CLEAR UNDER SOFFIT: _____ BASE TRIM PAINTED: _____
☐	☒	EAVE EXTENSION (CONCEALED BEAM), PROJECTION: _____
		SOFFIT PANEL, TYPE: _____ ___ GAGE, FINISH: _____
		SOFFIT TRIM AT BUILDING LINE PAINTED: _____
☐	☒	RAKE EXTENSION, PROJECTION: _____
		SOFFIT PANEL, TYPE: _____ ___ GAGE, FINISH: _____
		SOFFIT TRIM AT BUILDING LINE PAINTED: _____
☐	☒	PARTITION WALL SHEETING
		PANEL TYPE: _____ ___ GAGE, FINISH: _____
		PARTITION WALL TRIM COLOR: _____

BUILDING LOADS

DESIGN CODE: MIBC 2009

ROOF LIVE LOAD: 20.00 PSF NOT REDUCIBLE PER CODE

MBMA OCC. CLASS: II - STANDARD BUILDINGS

GROUND SNOW LOAD: 70.00 PSF SNOW IMPORTANCE FACTOR, Is: 1.00

SNOW EXP. FACTOR, Ce: 1.00

WIND: 90 mph EXPOSURE: C

WIND IMPORTANCE FACTOR, Iw: 1.00

WITHIN HURRICANE COASTLINE ☐ YES ☒ NO

UL 90 ☐ YES ☒ NO

Classic Roof-Const. No. 161; Classic Roof w/ Translucent Panel-Const. No. 167 CFR Roof-Const. No. 552; CFR Roof w/ Translucent Panel-Const. No. 590 Composite CFR Roof-Const. No. 552A; VR16 II Roof-Const. No. 332

SEISMIC INFORMATION Ss:0.058, S1:0.030

Design Sds/Sd1: 0.062/0.048 Site Class: D

Seismic Imp. Factor Ie: 1.00 Seismic Design Category: A

Analysis Procedure: Equivalent Lateral Force Method

Basic SFRS: Not Detailed For Seismic

NOTES:
1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC., ARE SUSPENDED FROM ROOF MEMBERS, CONSULT THE M.B.S. IF THESE CONCENTRATED LOADS EXCEED 200 POUNDS, OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.

2) THE DESIGN OF STRUCTURAL MEMBERS SUPPORTING GRAVITY LOADS IS CONTROLLED BY THE MORE CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD, AS DETERMINED BY THE APPLICABLE CODE.

	BUILDING Twin Bay Medical Expansion	BUILDING Connector
ROOF DEAD (PSF):	7.50	4.50
PRI. COL. (PSF):	3	3
SEC. COL. (PSF):	3	3
SNOW Ct:	1.00	1.00
SNOW Cs:	1.00	0.86
ROOF SNOW (PSF):	49.00	49.00
WIND ENCLOSURE:	Enclosed	Enclosed
GCpi:	+/-0.18	+/-0.18
SEISMIC R:	3	3
SEISMIC Cs:	0.010	0.010
BASE SHEAR (KIPS):	1.50	0.10

DRAWING INDEX

COVERSHEET C1 A/BOLT DWGS F1, F2

COLUMN BASE REACTIONS _____ (SEPARATE 8 1/2" X 11" SUBMITTAL)

STRUCTURAL DRAWINGS E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12, E13, E14

STRUCTURAL DETAILS D1, D2, D3, D4

SHEETING DRAWINGS G1, G2, G3, G4, G5 G6, G7, G8, G9

SHEETING DETAILS H1, H2, H3, H4, H5

ISSUE	DWN	CHK	ENG	P.E.	DATE
CONSTRUCTION ANCHOR BOLT	GLS	RAH	PMT		5-19-11
PERMITS	JSA		PMT		5-25-11
FINAL ERECTIONS	JSA				6-7-11

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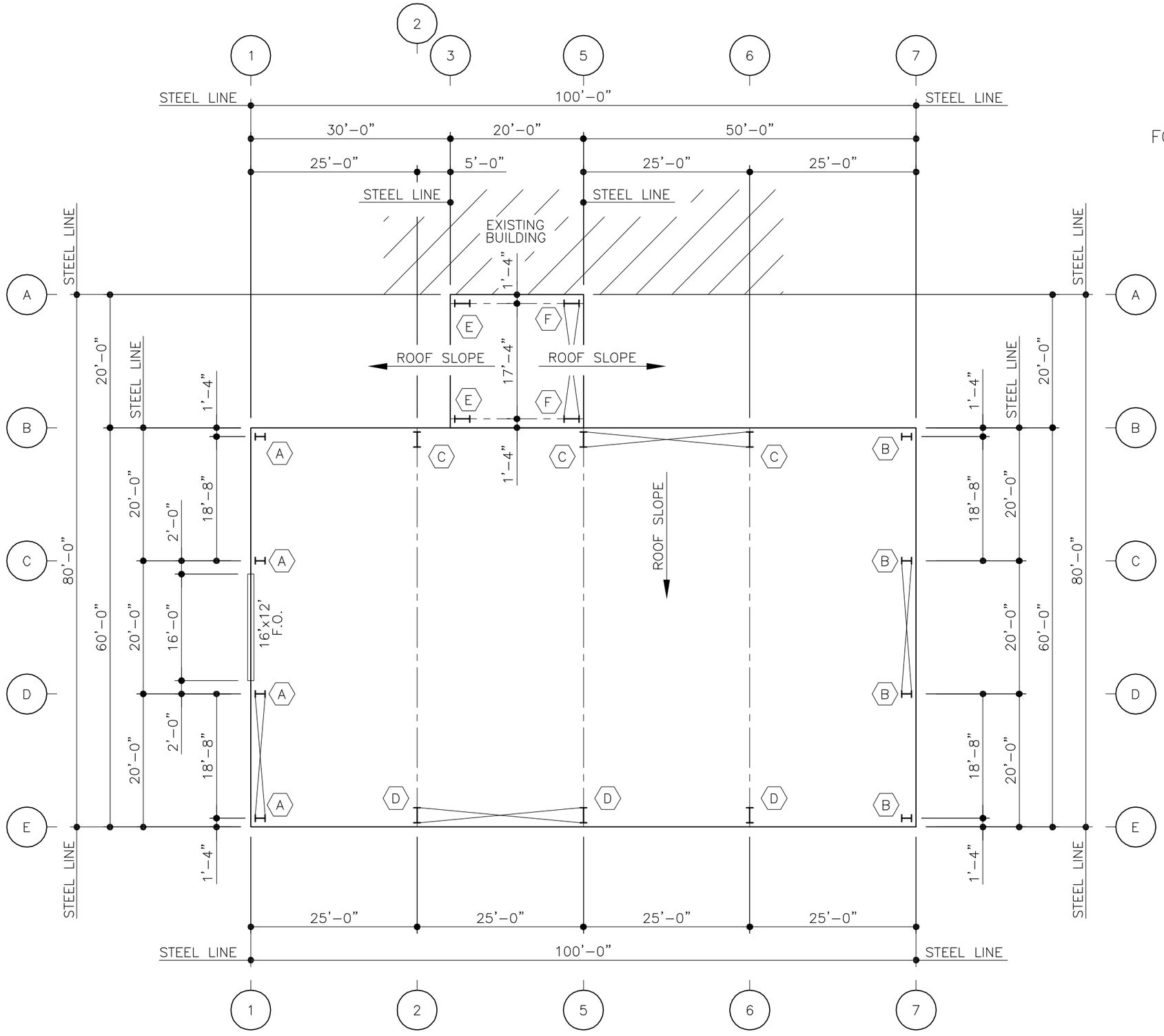
JOB NUMBER:

SHEET NO: C1 of 1



NOTE:
FOR ANCHOR BOLT NOTES AND ANCHOR BOLT QUANTITIES, SEE SHEET F2.

THE ANCHOR BOLT SETTINGS SHOWN ON THESE DRAWINGS NOT ONLY INDICATE WHERE THE ANCHOR BOLTS ARE TO BE PLACED, BUT ALSO THE FOOTPRINT OF THE METAL BUILDING. IT IS ESSENTIAL THAT THESE BOLT PATTERNS BE FOLLOWED. IN THE EVENT THAT THESE SETTINGS DIFFER FROM THE ARCHITECTURAL FOUNDATION PLANS, THE METAL BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY, BEFORE CONCRETE IS PLACED.

BOTTOM OF BASEPLATE
ELEV. = 100'–0"
AT FINISHED FLOOR

ISSUE	DWN	CHK	ENG	P.E.	DATE
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FINAL ERECTIONS	JSA				6–7–11

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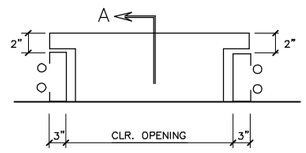
SHEET NO:
F1 of 2

ANCHOR BOLT PLAN GENERAL NOTES

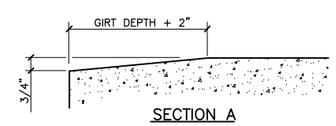
1. THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.
2. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.
3. ALL ANCHOR RODS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AS WELL AS ALL CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY METAL BUILDING MANUFACTURER.
4. THIS DRAWING IS NOT TO SCALE.
5. FINISHED FLOOR ELEVATION = 100'–0" UNLESS NOTED OTHERWISE.
6. "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.
7. THE ANCHOR BOLT LOCATIONS PROVIDED BY METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. PLEASE NOTE THAT THESE REQUIREMENTS MAY NOT SATISFY ALL ANCHOR BOLT CONCRETE EDGE DISTANCE REQUIREMENTS DEPENDING ON THE DETAILS OF THE FOUNDATION DESIGN. BECAUSE FOUNDATION DESIGN IS NOT WITHIN THE METAL BUILDING MANUFACTURER SCOPE OF WORK, IT IS THE RESPONSIBILITY OF THE QUALIFIED PROFESSIONAL DESIGNING THE FOUNDATION TO MAKE CERTAIN THAT SUFFICIENT CONCRETE EDGE DISTANCE IS PROVIDED FOR THE ANCHOR BOLTS IN THE DETAILS OF THE FOUNDATION DESIGN.

ANCHOR BOLT SCHEDULE

QUANTITY	SIZE	PROJECTION
48	3/4"	3" FROM BOTTOM OF BASE PLATE
24	1"	3" FROM BOTTOM OF BASE PLATE
0	1 1/4"	3" FROM BOTTOM OF BASE PLATE



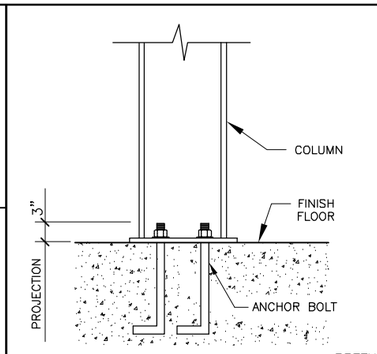
(USE (2) 1/2" DIA EXPANSION BOLTS PER COLUMN)



SECTION A
(RECOMMENDED)

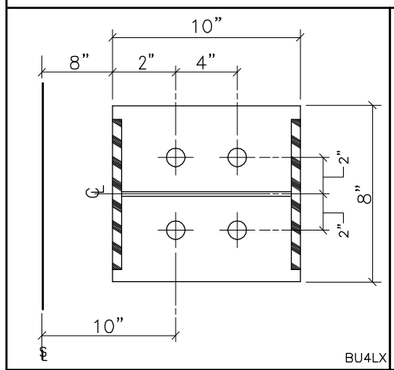
OHDFO

TYPICAL OVERHEAD DOOR FRAMED OPENING



BPFFNG

TYPICAL COLUMN BASE PLATE DETAIL



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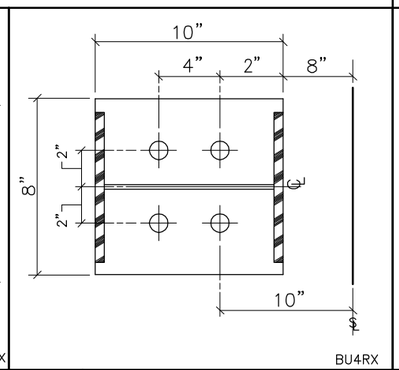

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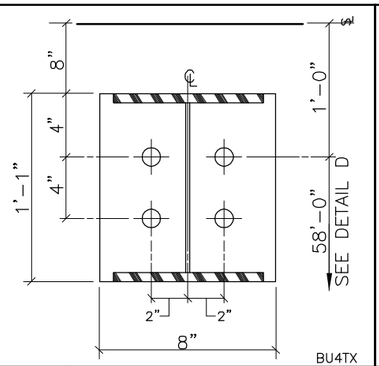

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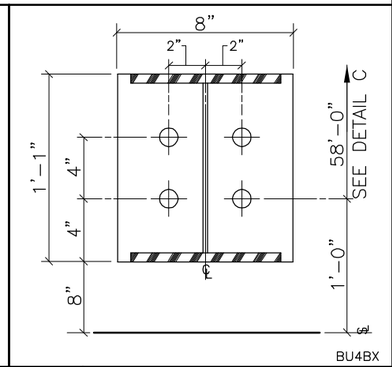

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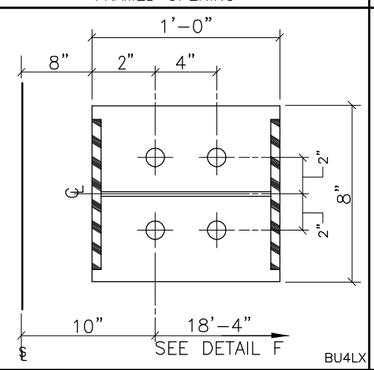

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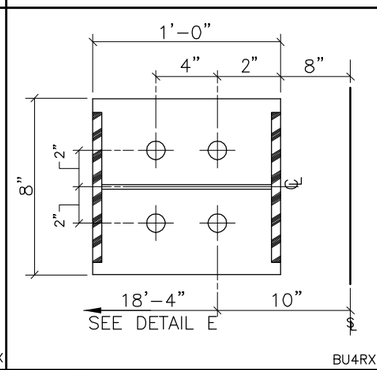

BU4RX

A	(4) 3/4" ø ANCHOR BOLTS WITH A 3" PROJECTION	B	(4) 3/4" ø ANCHOR BOLTS WITH A 3" PROJECTION	C	(4) 1" ø ANCHOR BOLTS WITH A 3" PROJECTION	D	(4) 1" ø ANCHOR BOLTS WITH A 3" PROJECTION	E	(4) 3/4" ø ANCHOR BOLTS WITH A 3" PROJECTION	F	(4) 3/4" ø ANCHOR BOLTS WITH A 3" PROJECTION

ISSUE	DWN	CHK	ENG	P.E.	DATE
CONSTRUCTION ANCHOR BOLT	GLS	RAH	PMT		5-19-11
PERMITS	JSA		PMT		5-25-11
FINAL ERECTIONS	JSA				6-7-11

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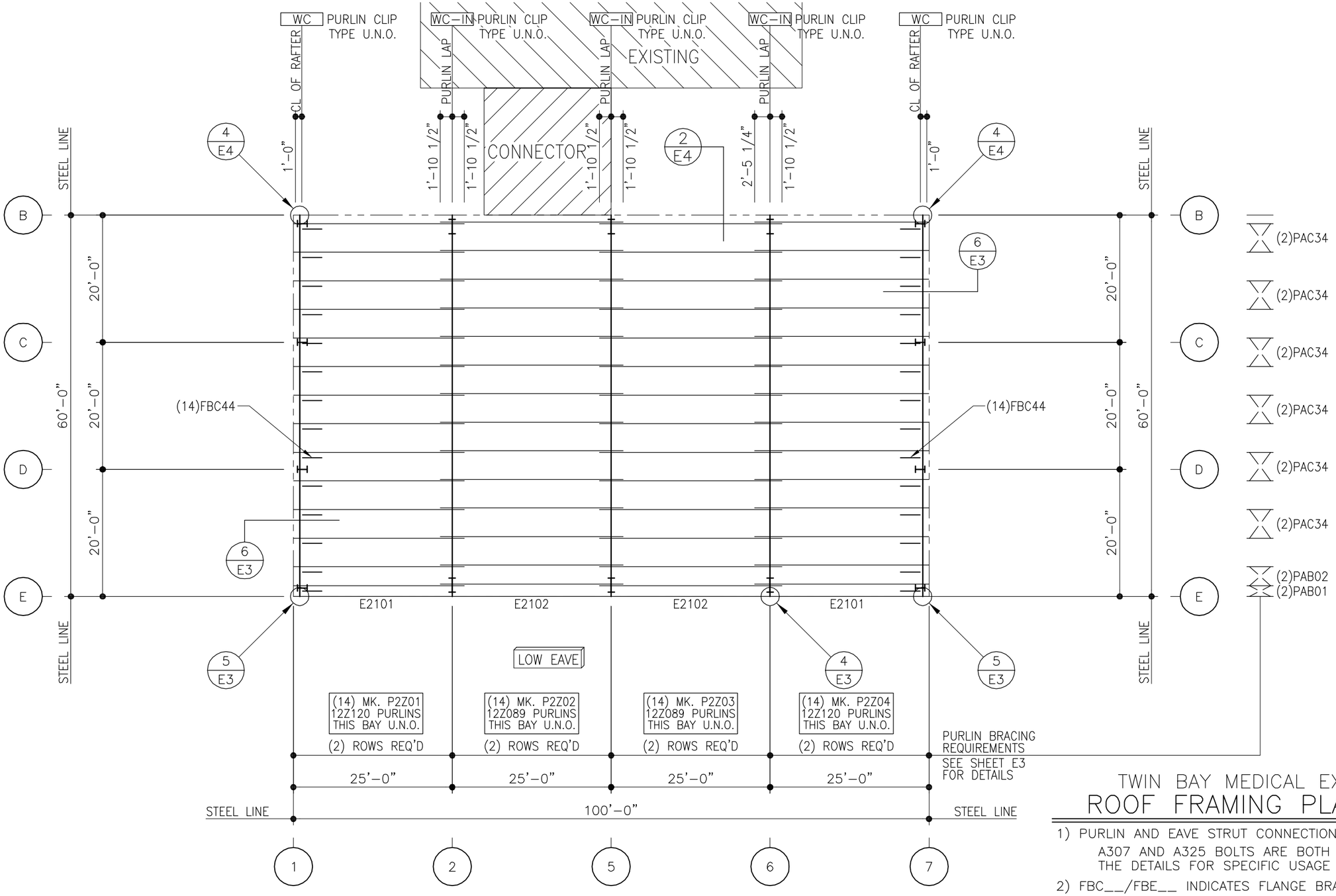
F2 of 2



TWIN BAY MEDICAL EXPANSION
ROOF FRAMING PLAN (R01)

1) PURLIN AND EAVE STRUT CONNECTION BOLT REQUIREMENTS: A307 AND A325 BOLTS ARE BOTH USED. REFER TO THE DETAILS FOR SPECIFIC USAGE REQUIREMENTS.
2) FBC__/FBE__ INDICATES FLANGE BRACING.
3) SEE SHEET E8 FOR MAIN FRAME FLANGE BRACING.
4) SEE SHEET E3 FOR PURLIN BRACING DETAIL.
5) ALL EAVE STRUTS ARE 12E075 U.N.O.

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5–25–11
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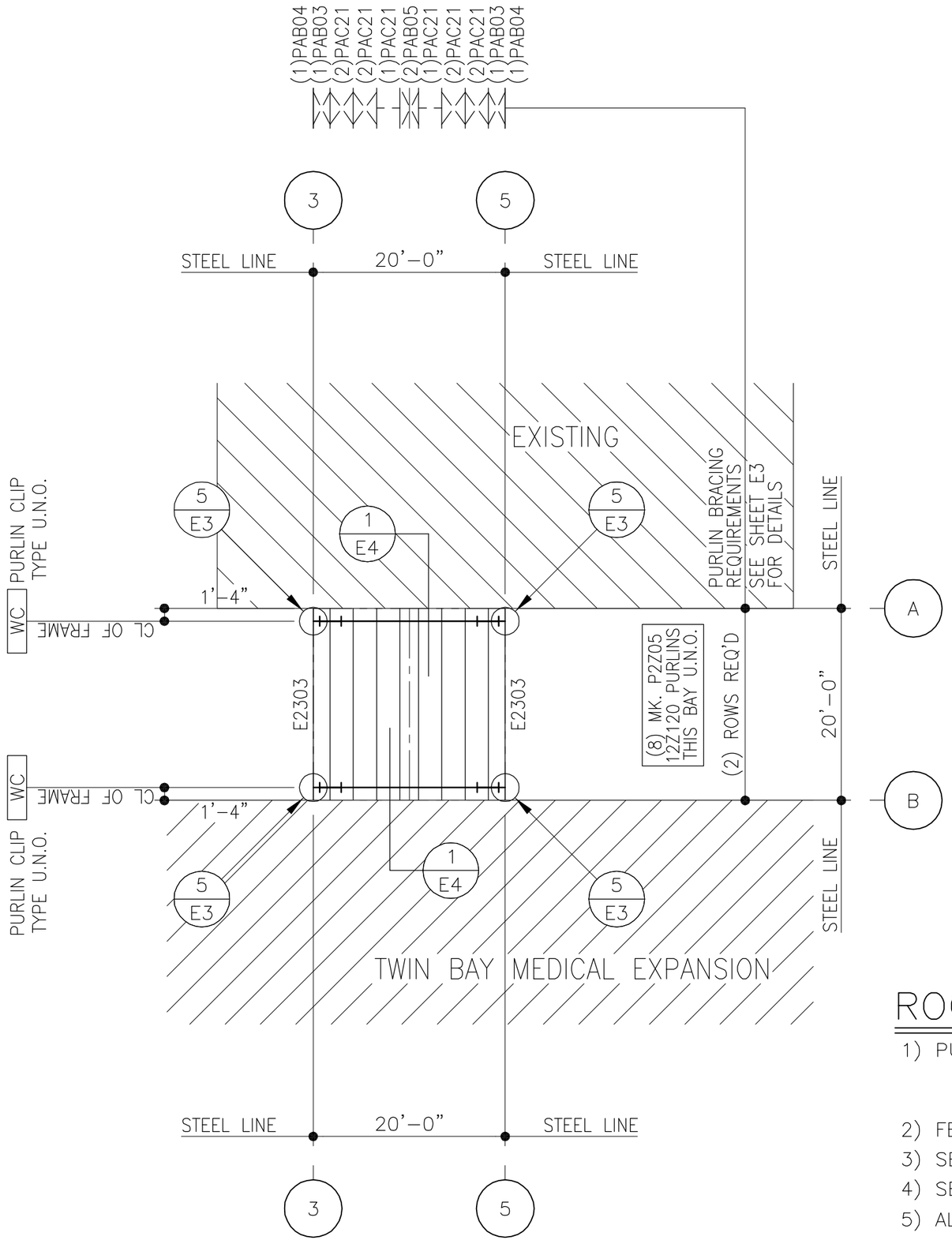
E1 of 14



ROOF FRAMING PLAN (R03/R04)

1) PURLIN AND EAVE STRUT CONNECTION BOLT REQUIREMENTS:
   A307 AND A325 BOLTS ARE BOTH USED. REFER TO THE DETAILS FOR SPECIFIC USAGE REQUIREMENTS.
2) FBC__/FBE__ INDICATES FLANGE BRACING.
3) SEE SHEET E7 FOR MAIN FRAME FLANGE BRACING.
4) SEE SHEET E3 FOR PURLIN BRACING DETAIL.
5) ALL EAVE STRUTS ARE 12E075 U.N.O.

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

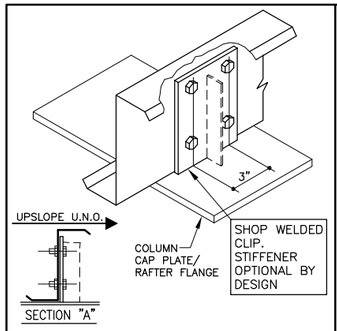
CANAM STEEL BUILDING CORPORATION
BOX 746509, ARVADA, CO 80006
TELEPHONE: (303) 953-3250
FACSIMILE: (303) 953-3251

PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
E2 of 14



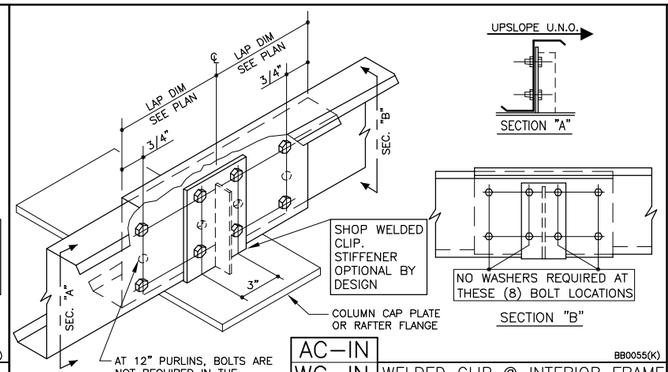
AC
WC
WS

BB0050(K)

WELDED CLIP @ END FRAME

USE (4) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400 U.N.O.

REFERENCE ERECTOR NOTE FOR TYP. WASHER REQUIREMENTS

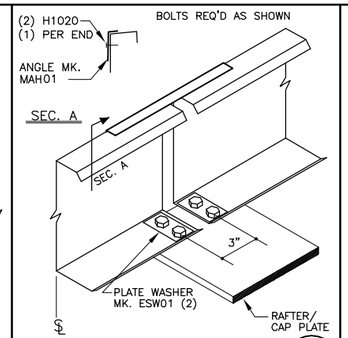


AC–IN
WC–IN
WS–IN

BB0055(K)

WELDED CLIP @ INTERIOR FRAME

USE (8) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400 U.N.O.



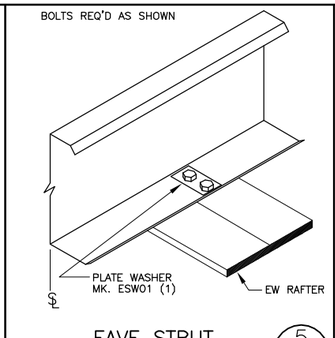
EAVE STRUT

LOW EAVE BY–PASS SW GIRT CONDITION

USE (4) 1/2"x 2" A325 BOLT H0603/NUT H0300 U.N.O.

4 E3

BA0020(1–4)(W)



EAVE STRUT

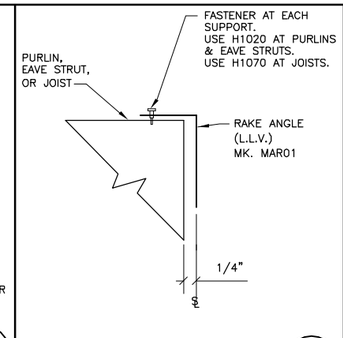
BYPASS SIDEWALL CONDITION

LOW EAVE BUILT–UP EW CONDITION

USE (2) 1/2" X 2" A325 BOLT H0603/NUT H0300 U.N.O.

5 E3

BA0030(W)



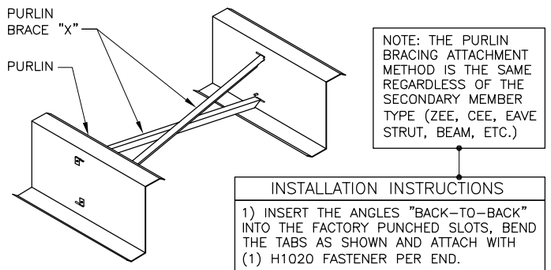
RAKE ANGLE ATTACHMENT

AT ENDWALL STEEL LINE

6 E3

RAKE_ANG

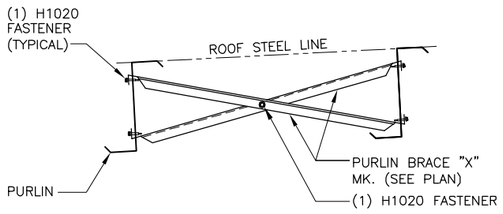
BD0120



INSTALLATION INSTRUCTIONS

1) INSERT THE ANGLES "BACK–TO–BACK" INTO THE FACTORY PUNCHED SLOTS, BEND THE TABS AS SHOWN AND ATTACH WITH (1) H1020 FASTENER PER END.

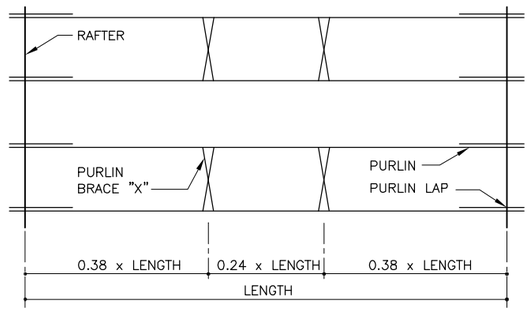
2) CONNECT THE PURLIN BRACES AT THE INTERSECTION WITH (1) H1020 FASTENER



PLAN VIEW OF PURLIN BRACING LOCATIONS PER BAY

1) THERE ARE ALWAYS (2) ROWS OF PURLIN BRACING REQUIRED REGARDLESS OF THE BAY LENGTH.

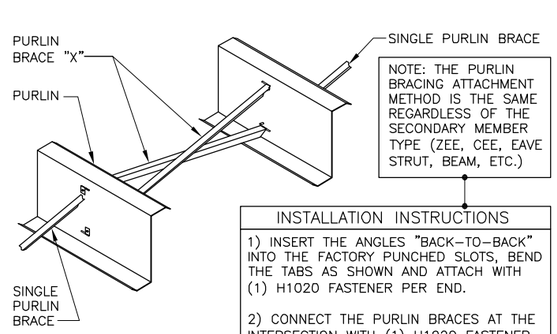
2) THE PURLIN BRACING IS ALWAYS SPACED AS SHOWN IN THE DETAIL BELOW.



BE0001

PURLIN BRACING ATTACHMENT <2:12 SLOPE

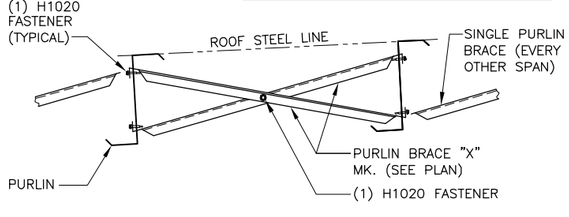
SEE ROOF FRAMING PLAN(S) FOR PURLIN BRACING MARK NUMBERS, QUANTITIES, AND LOCATIONS



INSTALLATION INSTRUCTIONS

1) INSERT THE ANGLES "BACK–TO–BACK" INTO THE FACTORY PUNCHED SLOTS, BEND THE TABS AS SHOWN AND ATTACH WITH (1) H1020 FASTENER PER END.

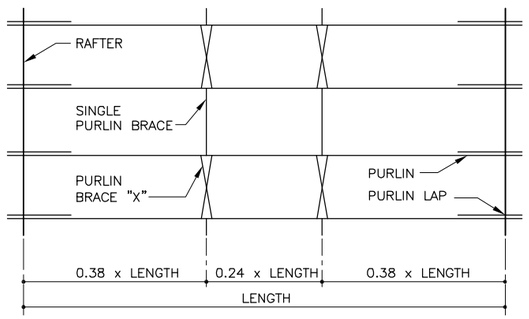
2) CONNECT THE PURLIN BRACES AT THE INTERSECTION WITH (1) H1020 FASTENER



PLAN VIEW OF PURLIN BRACING LOCATIONS PER BAY

1) THERE ARE ALWAYS (2) ROWS OF PURLIN BRACING REQUIRED REGARDLESS OF THE BAY LENGTH.

2) THE PURLIN BRACING IS ALWAYS SPACED AS SHOWN IN THE DETAIL BELOW.



BE0002

PURLIN BRACING ATTACHMENT CFR > 2:12 SLOPE

PURLIN BRACING ATTACHMENT CLASSIC > = 3:12 SLOPE

SEE ROOF FRAMING PLAN(S) FOR PURLIN BRACING MARK NUMBERS, QUANTITIES, AND LOCATIONS

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5–25–11
FINAL ERECTIONS	JSA	AGA			6–7–11

CANAM STEEL BUILDING CORPORATION

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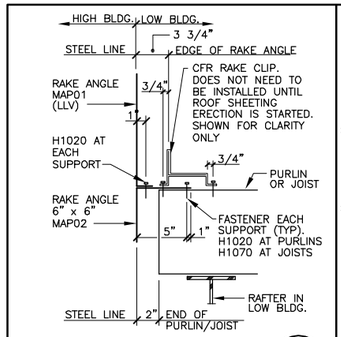
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:

E3 of 14

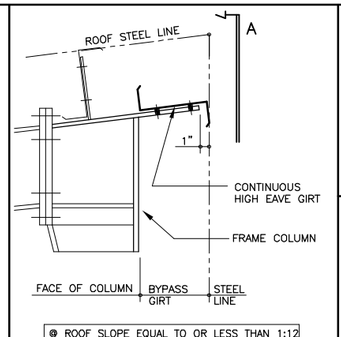


FASTENER PLACEMENT

1 / E4

RAKE PARAPET WITH WALL BELOW, CFR ROOF WITH RAFTER IN LOW BUILDING

BD0110 RAK_PAR5



HIGH EAVE GIRT

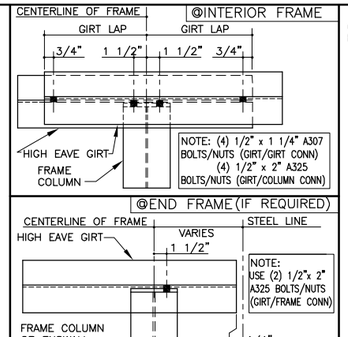
2 / E4

BYPASS GIRT AT HIGH EAVE CONDITION

REFERENCE SECTION CUTS FOR BOLT USAGE REQUIREMENTS

REFERENCE ERECTOR NOTE FOR TYP. WASHER REQUIREMENTS

BC0045



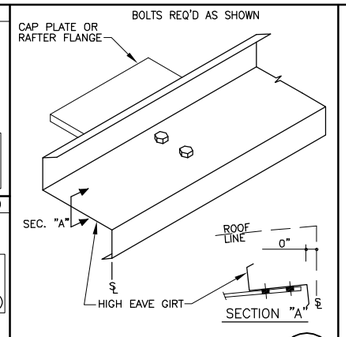
SECTION 'A'

BC0105(E, I)

EAVE ANGLE (IF REQ'D) NOT SHOWN FOR CLARITY

BYPASS @ ALL ROOF SLOPES

REF. ERECTOR NOTE FOR TYP. WASHER REQUIREMENTS



HIGH EAVE GIRT

4 / E4

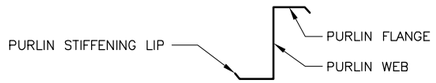
HIGH EAVE CONNECTION AT R.F. ENDWALL

USE (2) 1/2" x 2" A325 BOLTS H0603/NUTS H0300

REFERENCE ERECTOR NOTE FOR TYP. WASHER REQUIREMENTS

BC0080(K)

COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC. ARE SUSPENDED FROM ROOF MEMBERS, CONSULT METAL BUILDING MANUFACTURER ENGINEERING IF THESE CONCENTRATED LOADS EXCEED 200 POUNDS, OR IF INDIVIDUAL MEMBERS ARE LOADED SIGNIFICANTLY MORE THAN OTHERS.



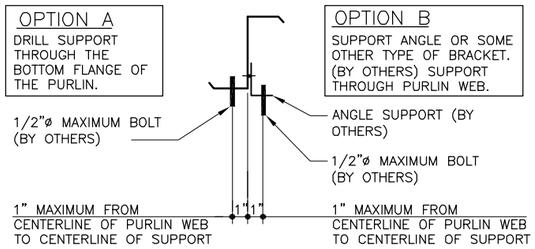
GENERAL RESTRICTION:

UNDER NO CIRCUMSTANCES CAN THE PURLIN STIFFENING LIP BE FIELD MODIFIED FROM THE FACTORY SUPPLIED CONDITION. ALSO DO NOT HANG ANYTHING FROM PURLIN STIFFENING LIP.

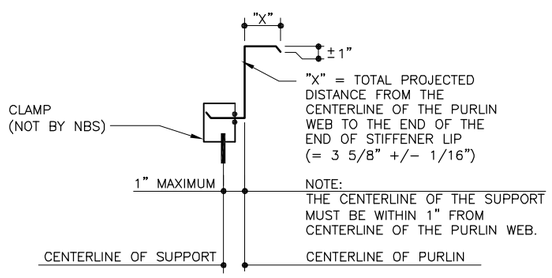
OPTIONS FOR SUPPORT ATTACHMENTS

OPTION A
DRILL SUPPORT THROUGH THE BOTTOM FLANGE OF THE PURLIN.

OPTION B
SUPPORT ANGLE OR SOME OTHER TYPE OF BRACKET. (BY OTHERS) SUPPORT THROUGH PURLIN WEB.



OPTION C:
IF PURLIN FLANGE SUPPORT CLAMPS ARE USED.



PURLIN SUPPORT METHODS

BD0130

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

CANAM STEEL BUILDING CORPORATION

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TELEPHONE: (303) 953-3250
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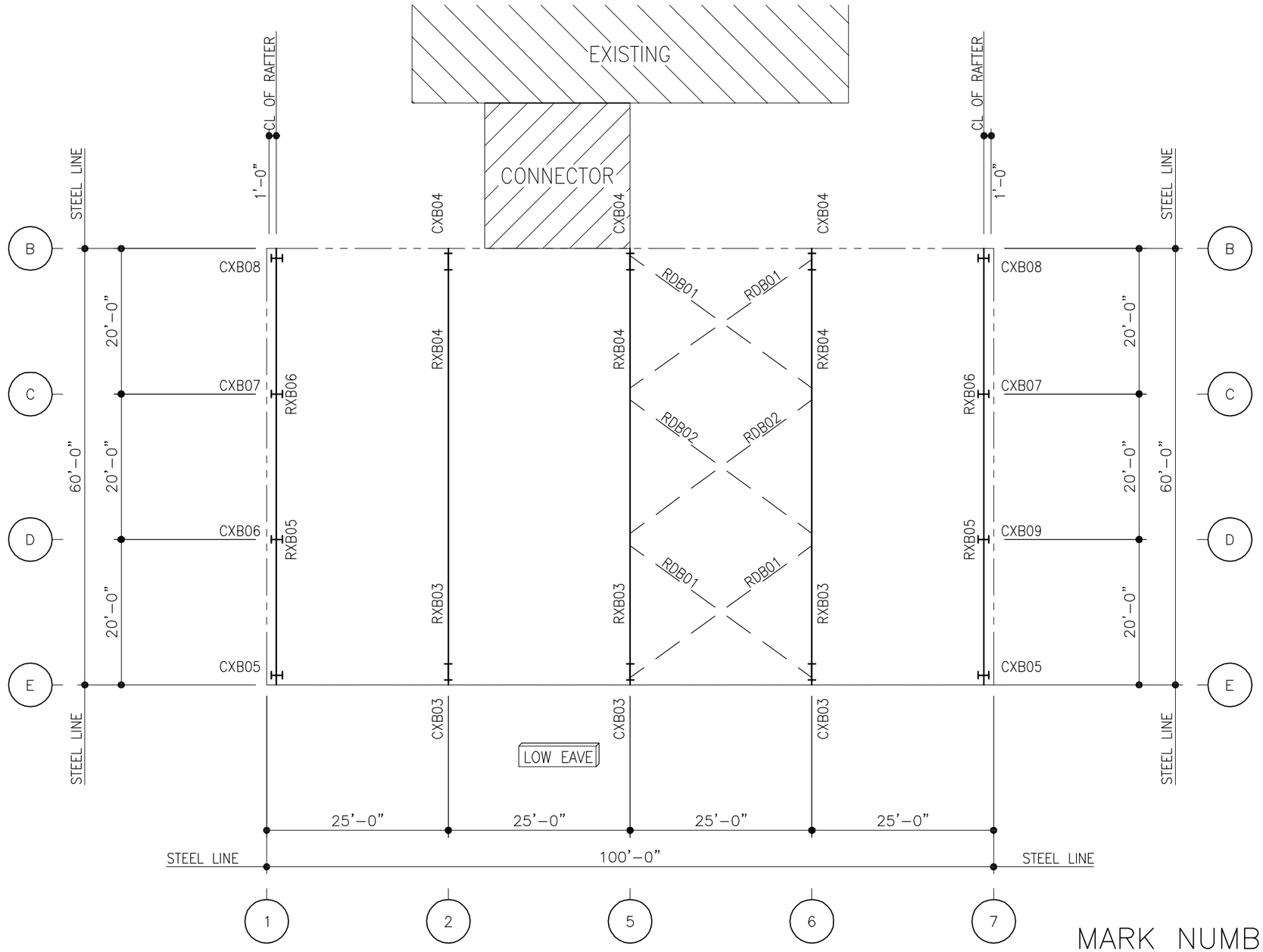
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
E4 of 14



MARK NUMBER AND BRACING PLAN

1) PLACE TAGGED END OF RAFTERS TOWARD THE LOW EAVE.

2) ROD-BRACING: SEE SHEET D1 FOR DETAIL
RDB__ - INDICATES 5/8" ø ROD

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

CANAM STEEL BUILDING CORPORATION
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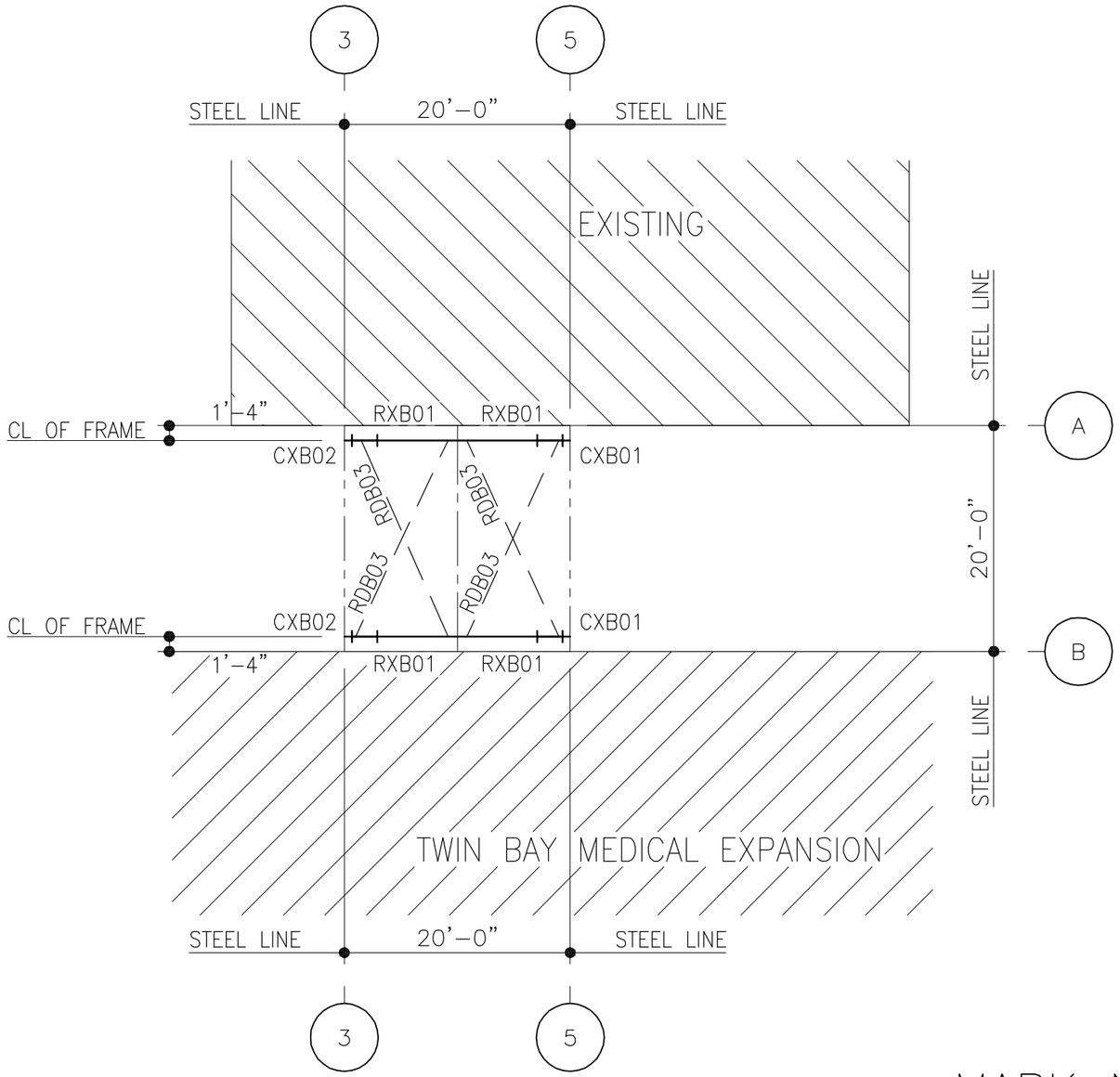
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
E5 of 14



MARK NUMBER AND BRACING PLAN

1) PLACE TAGGED END OF RAFTERS TOWARD THE LOW EAVE.

2) ROD-BRACING: SEE SHEET D1 FOR DETAIL
RDB__ – INDICATES 5/8" ø ROD

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

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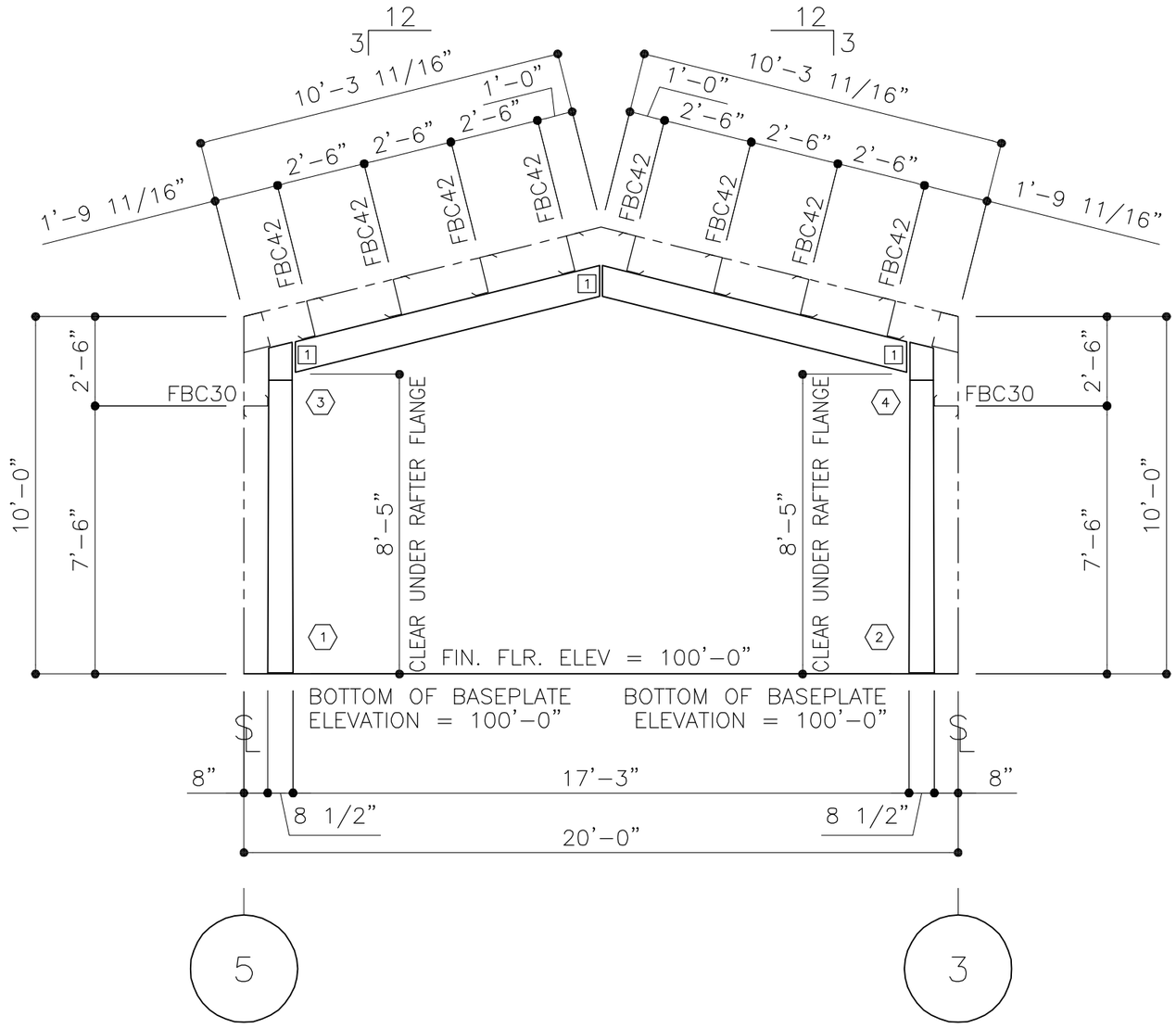
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
E6 of 14



CROSS SECTION @ LINES A & B (F01)

MBR ID⬡	LOW PLATE WIDTH	LOW PLATE THICK	HIGH PLATE WIDTH	HIGH PLATE THICK	OUTSIDE FLANGE WIDTH	OUTSIDE FLANGE THICK	OUTSIDE FLANGE LENGTH	INSIDE FLANGE WIDTH	INSIDE FLANGE THICK	INSIDE FLANGE LENGTH	MEMBER WEB DEPTH1	MEMBER WEB THICK	MEMBER WEB LENGTH	MEMBER WEB DEPTH2
1	8.00	0.38	6.00	0.50	5.00	0.25		5.00	0.25		8.00	0.19		8.00
											8.00	0.22		8.00
2	8.00	0.38	6.00	0.50	5.00	0.25		5.00	0.25		8.00	0.19		8.00
											8.00	0.22		8.00
3	5.00	0.50	5.00	0.50	5.00	0.25		5.00	0.25		10.00	0.19		10.00
4	5.00	0.50	5.00	0.50	5.00	0.25		5.00	0.25		10.00	0.19		10.00

NOTES:

1) FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEET E6 (MARK NUMBER PLAN).
2) FBC___ INDICATES FLANGE BRACING LOCATIONS. FBD___ INDICATES FLANGE BRACING LOCATIONS ON JOIST ROOFS.
3) NS/FS INDICATES THAT FLANGE BRACING IS REQUIRED ON BOTH SIDES OF THE FRAME LINE. NOTE FOR EXPANDABLE ENDWALL RIGID FRAMES: IF FLANGE BRACING IS REQUIRED ON BOTH SIDES OF AN EXPANDABLE ENDFRAME, THE OPPOSITE SIDE FLANGE BRACE WILL HAVE TO BE INSTALLED AT THE TIME OF EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.
4) IF NS/FS FLANGE BRACING IS NOT INDICATED, ONLY ONE FLANGE BRACE IS REQUIRED AND CAN BE LOCATED ON EITHER SIDE OF THE FRAME.
5) "*" INDICATES THE LONG SIDE OF THE INTERIOR COLUMNS. IF THE INTERIOR COLUMNS ARE REQUIRED, ORIENT AND ERECT THOSE COLUMNS ACCORDINGLY.

NOTE: COLUMNS LOCATED AT THE RIDGE ARE TYPICALLY "FLAT-TOP" COLUMNS, UNLESS INDICATED BY THE "*" SYMBOL.

6) RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACH FLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.

BOLT SCHEDULE

CON ID□	BOLT QTY	BOLT DESCRIPTION	BOLT PART#	NUT PART#
1	8	BOLT/NUT 5/8" x 2 1/4" A325	H0610	H0310

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

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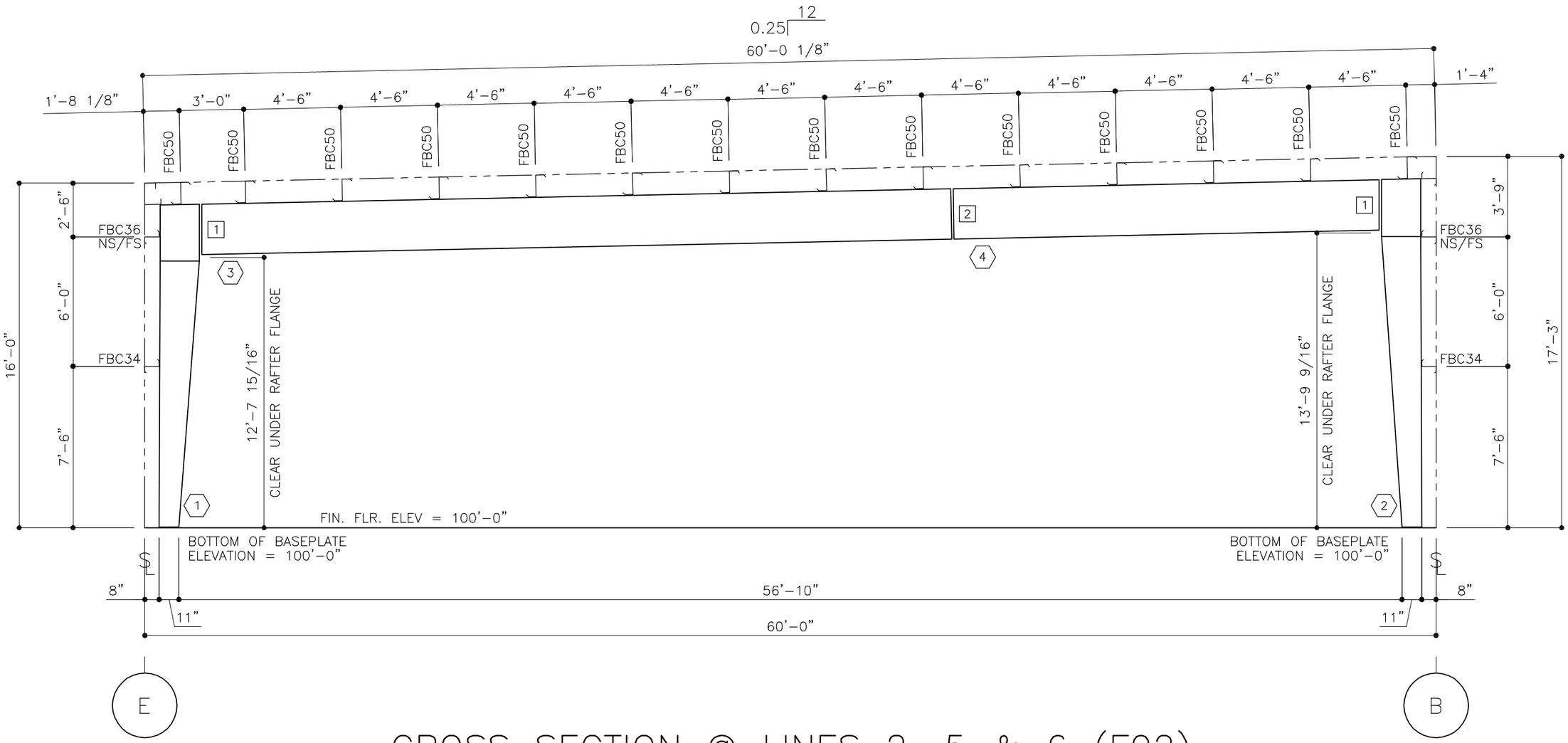
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
E7 of 14



CROSS SECTION @ LINES 2, 5 & 6 (F02)

MBR ID ⬡	LOW PLATE WIDTH	LOW PLATE THICK	HIGH PLATE WIDTH	HIGH PLATE THICK	OUTSIDE FLANGE WIDTH	OUTSIDE FLANGE THICK	OUTSIDE FLANGE LENGTH	INSIDE FLANGE WIDTH	INSIDE FLANGE THICK	INSIDE FLANGE LENGTH	MEMBER WEB DEPTH1	MEMBER WEB THICK	MEMBER WEB LENGTH	MEMBER WEB DEPTH2
1	8.00	0.38	8.00	0.63	8.00	0.50		8.00	0.50		10.00	0.25		22.00
											22.00	0.31		22.00
2	8.00	0.38	8.00	0.63	8.00	0.50		8.00	0.50		10.00	0.25		22.00
											22.00	0.31		22.00
3	6.00	0.63	6.00	0.63	6.00	0.50		6.00	0.50		28.00	0.31		28.00
4	6.00	0.63	6.00	0.75	6.00	0.50		6.00	0.50		28.00	0.31		28.00

NOTES:

1) FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHEET E5 (MARK NUMBER PLAN).
2) FBC___ INDICATES FLANGE BRACING LOCATIONS. FBD___ INDICATES FLANGE BRACING LOCATIONS ON JOIST ROOFS.
3) NS/FS INDICATES THAT FLANGE BRACING IS REQUIRED ON BOTH SIDES OF THE FRAME LINE. NOTE FOR EXPANDABLE ENDWALL RIGID FRAMES: IF FLANGE BRACING IS REQUIRED ON BOTH SIDES OF AN EXPANDABLE ENDFRAME, THE OPPOSITE SIDE FLANGE BRACE WILL HAVE TO BE INSTALLED AT THE TIME OF EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.
4) IF NS/FS FLANGE BRACING IS NOT INDICATED, ONLY ONE FLANGE BRACE IS REQUIRED AND CAN BE LOCATED ON EITHER SIDE OF THE FRAME.
5) "*" INDICATES THE LONG SIDE OF THE INTERIOR COLUMNS. IF THE INTERIOR COLUMNS ARE REQUIRED, ORIENT AND ERECT THOSE COLUMNS ACCORDINGLY.

NOTE: COLUMNS LOCATED AT THE RIDGE ARE TYPICALLY "FLAT-TOP" COLUMNS, UNLESS INDICATED BY THE "*" SYMBOL.

6) RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACH FLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.

BOLT SCHEDULE

CON ID □	BOLT QTY	BOLT DESCRIPTION	BOLT PART#	NUT PART#
1	8	BOLT/NUT 1" x 3 1/4" A325	H0640	H0330
2	8	BOLT/NUT 7/8" x 3" A325	H0635	H0325

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

CANAM STEEL BUILDING CORPORATION
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PROJECT NAME:

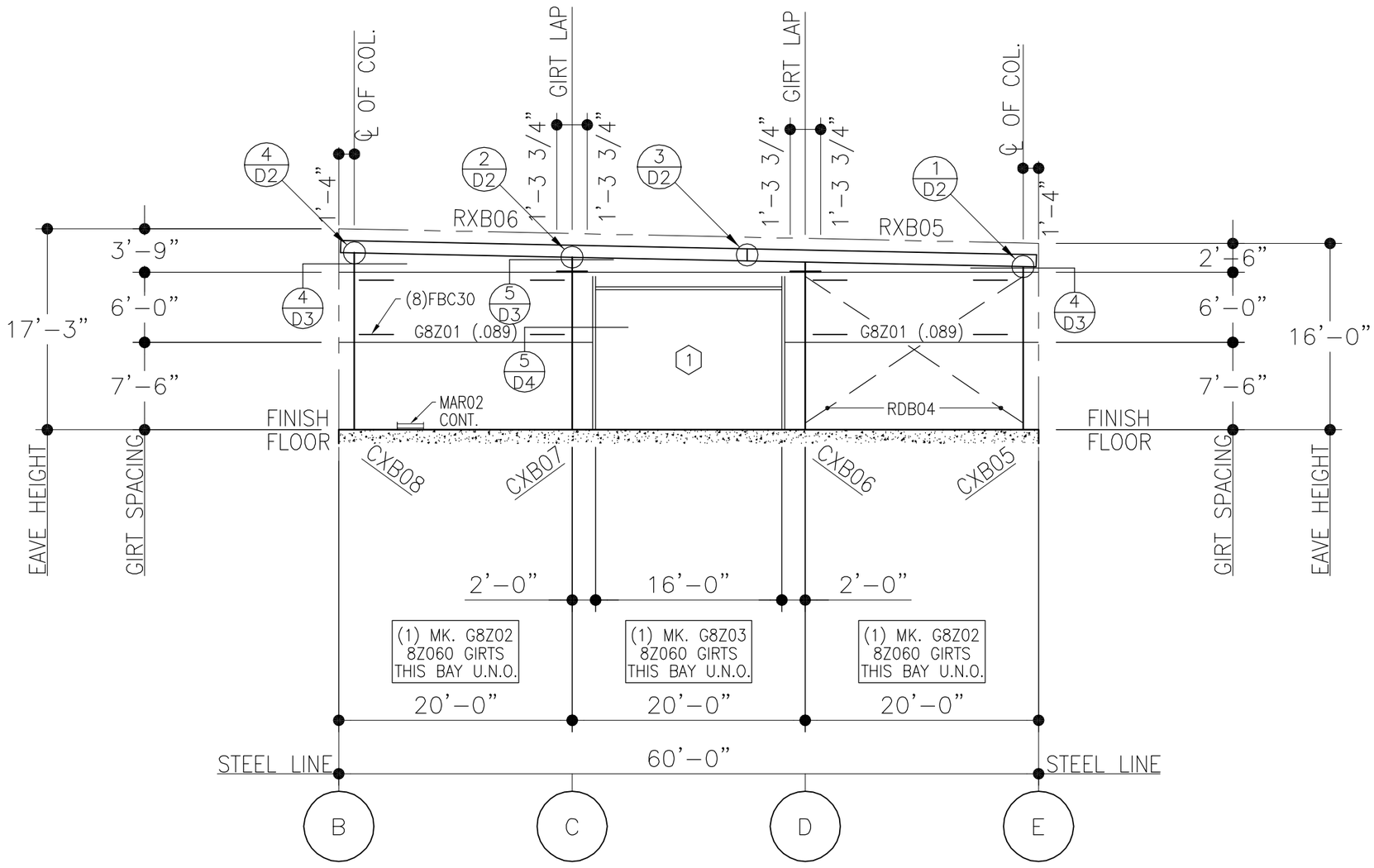
CUSTOMER:

JOB NUMBER:

SHEET NO:
E8 of 14

FRAMED OPENING SCHEDULE

I.D. NUMBER	QTY.	FRAMED OPENING SIZE		FRAMING MARK NUMBERS			SEE DETAIL	SILL HEIGHT A.F.F.
		WIDTH	HEIGHT	JAMBS	HEADER	SILL		
1	1	16'-0"	12'-0"	J8C01(.060)	H8C01(.060)	N/A	1/D4	0'-0"



ENDWALL ELEVATION AT LINE 1 FOR TWIN BAY MEDICAL EXPANSION (M01)

1) RDB__ INDICATES 5/8" DIA ROD BRACING. SEE SHEET D1 FOR DETAIL.
2) CXB__ INDICATES ENDWALL COLUMN: F5.19, W135 AND 8 3/8" TOTAL DEPTH
3) RXB__ INDICATES ENDWALL RAFTER: F5.19, W135 AND 12 3/8" TOTAL DEPTH

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

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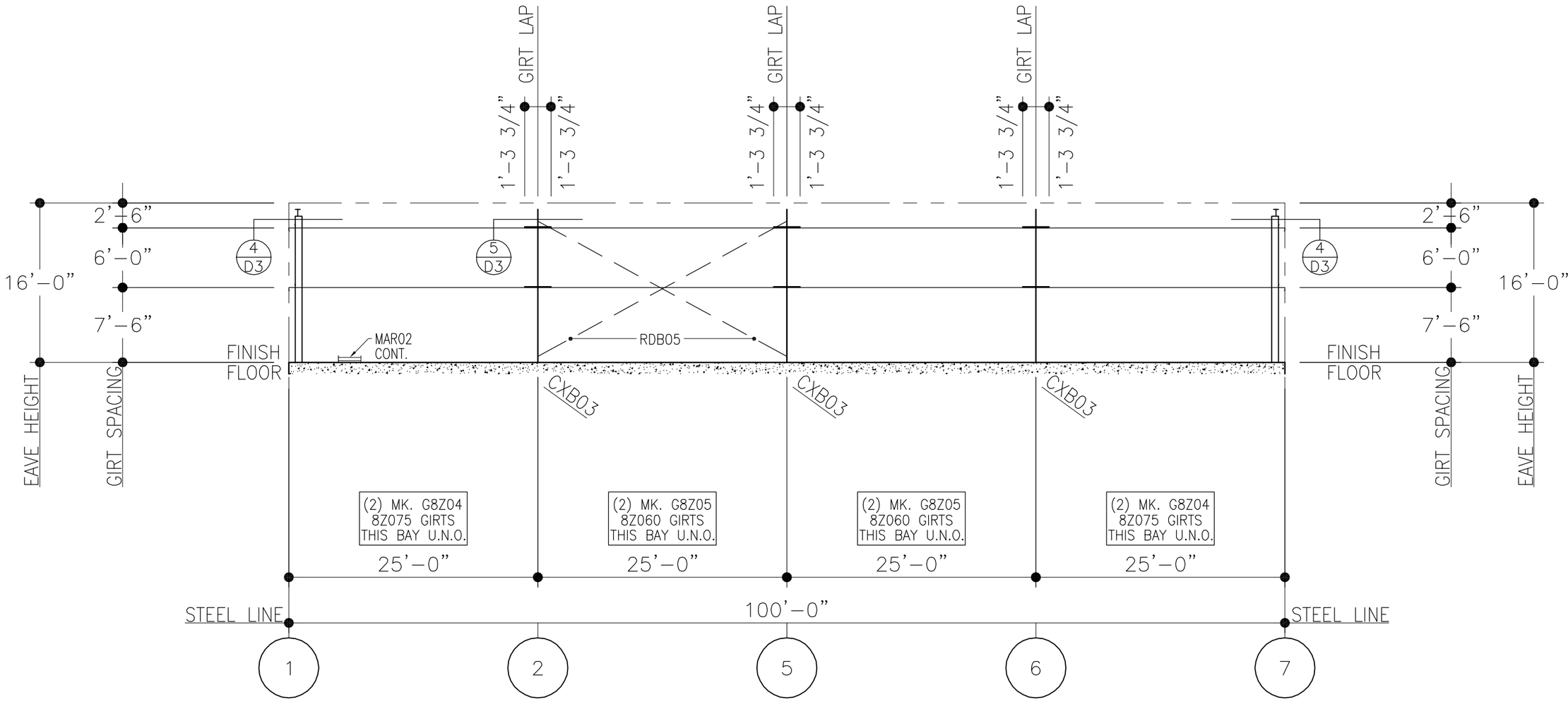
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
E9 of 14



SIDEWALL ELEVATION AT LINE E FOR TWIN BAY MEDICAL EXPANSION (M02)

1) RDB__ INDICATES 5/8" DIA ROD BRACING. SEE SHEET D1 FOR DETAIL.

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

CANAM STEEL BUILDING CORPORATION

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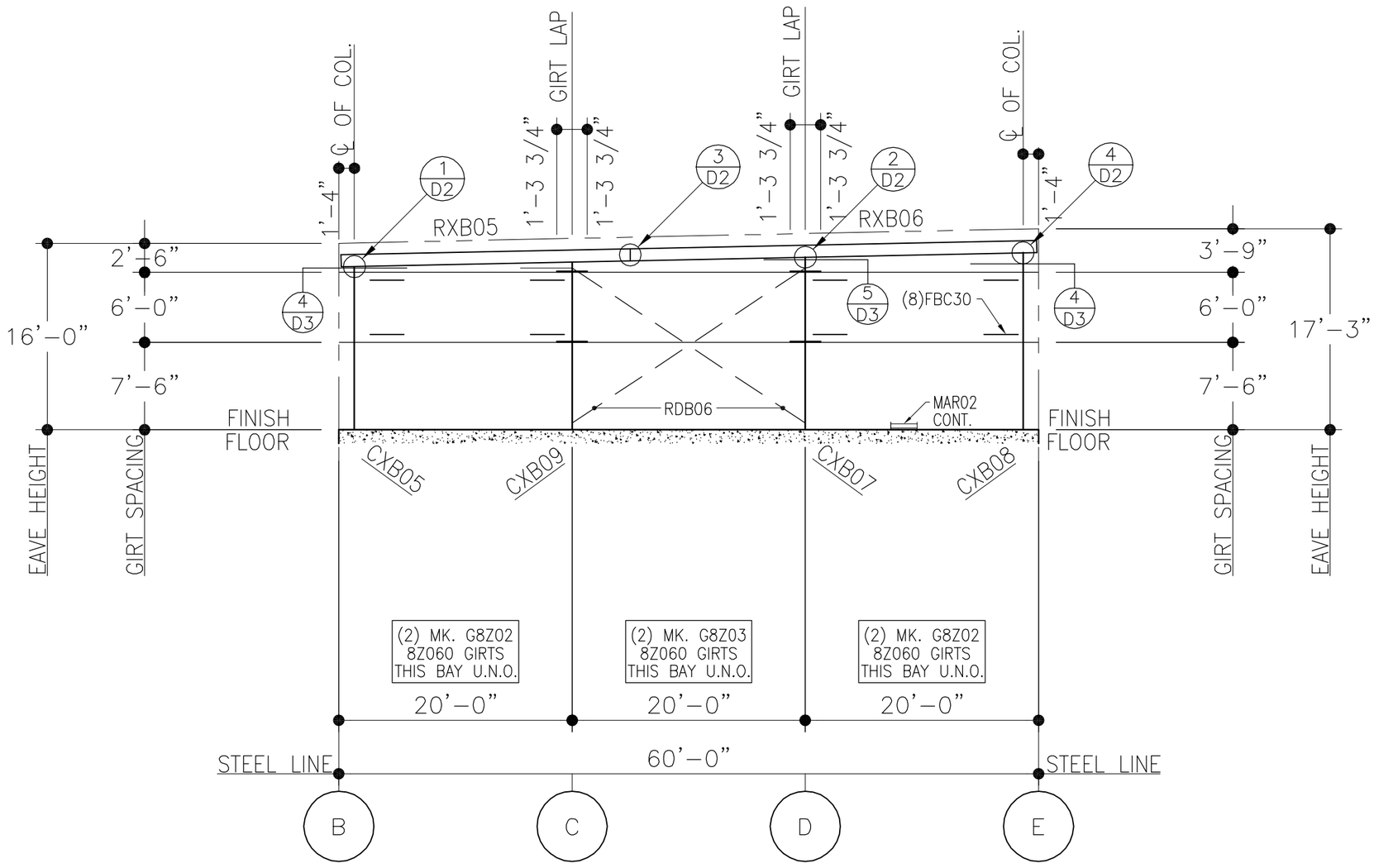
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
E10 of 14



ENDWALL ELEVATION AT LINE 7 FOR TWIN BAY MEDICAL EXPANSION (M03)

1) RDB__ INDICATES 5/8" DIA ROD BRACING. SEE SHEET D1 FOR DETAIL.
2) CXB__ INDICATES ENDWALL COLUMN: F5.19, W135 AND 8 3/8" TOTAL DEPTH
3) RXB__ INDICATES ENDWALL RAFTER: F5.19, W135 AND 12 3/8" TOTAL DEPTH

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

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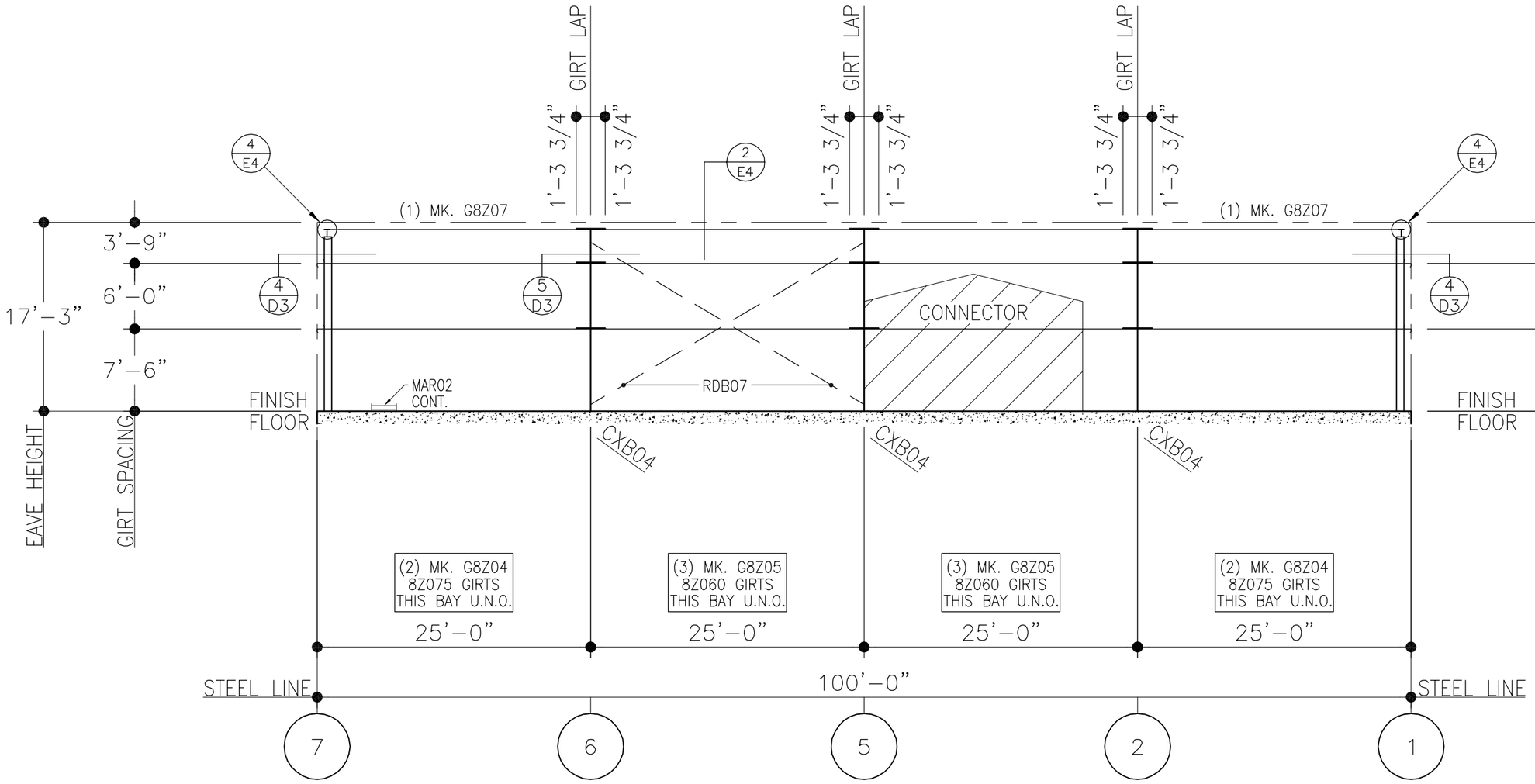
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
E11 of 14



SIDEWALL ELEVATION AT LINE B FOR TWIN BAY MEDICAL EXPANSION (M04)

1) RDB__ INDICATES 5/8" DIA ROD BRACING. SEE SHEET D1 FOR DETAIL.

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

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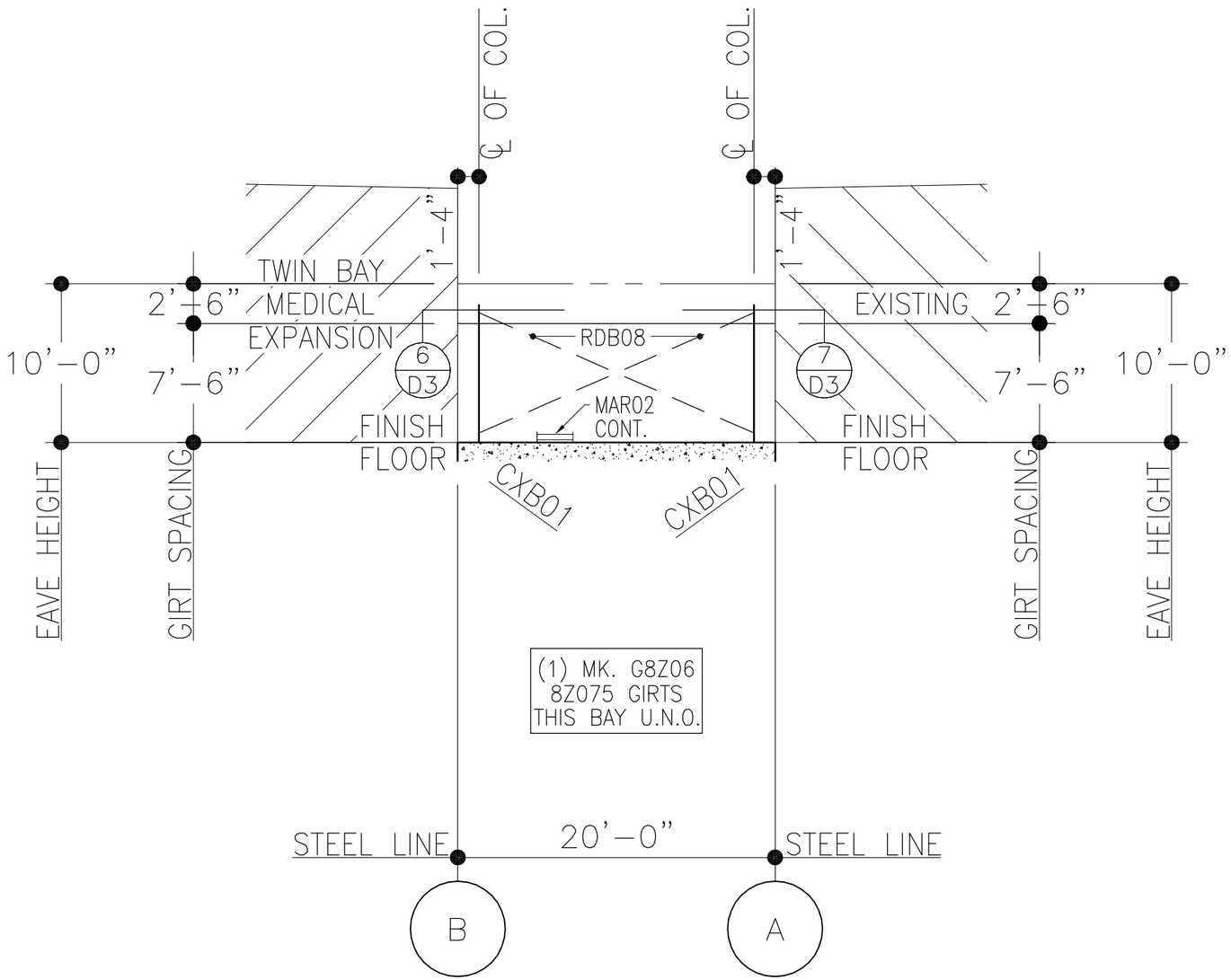
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
E12 of 14



SIDEWALL ELEVATION AT LINE 5 FOR CONNECTOR (M06)

1) RDB__ INDICATES 5/8" DIA ROD BRACING. SEE SHEET D1 FOR DETAIL.

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

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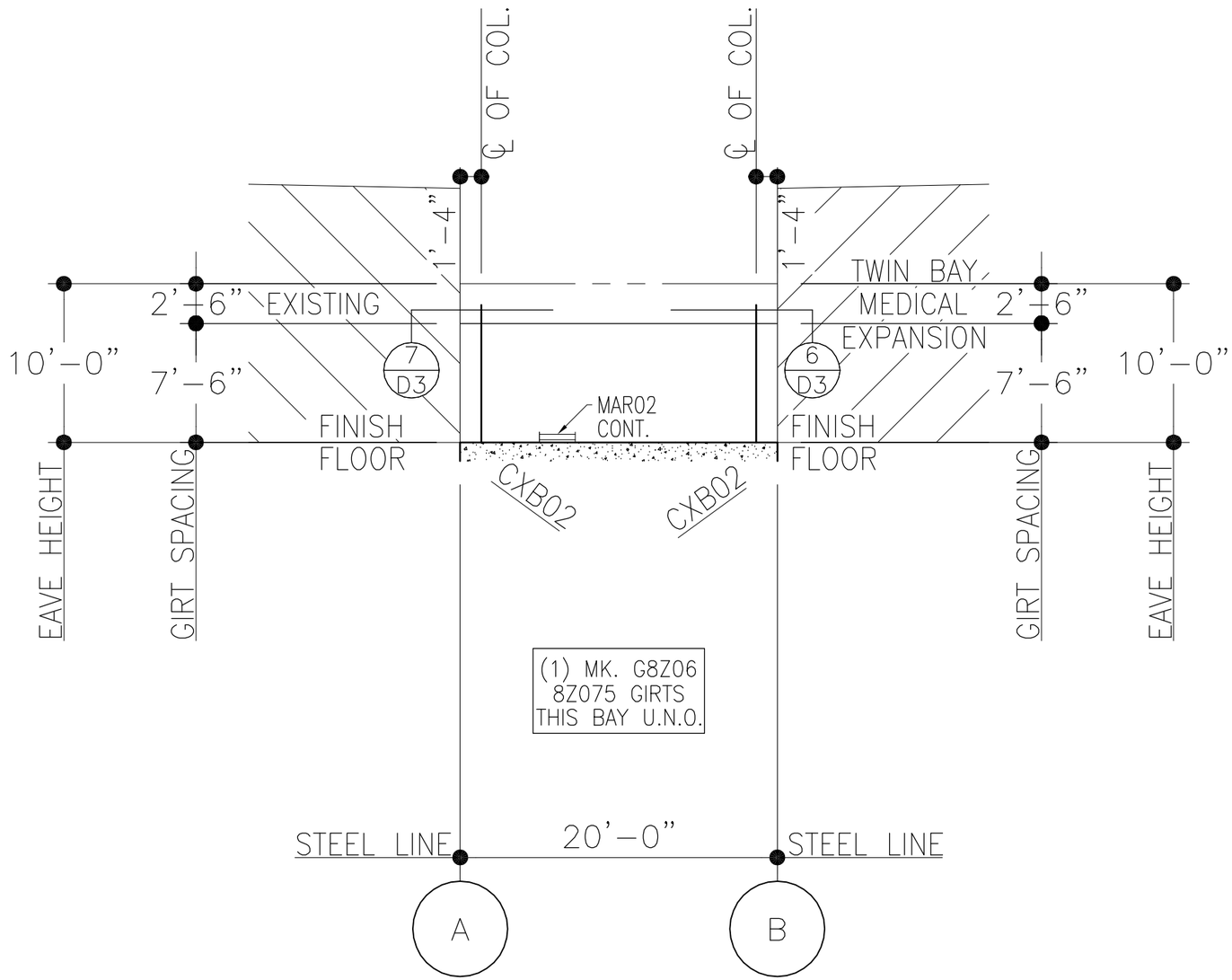
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
E13 of 14



SIDEWALL ELEVATION AT LINE 3 FOR CONNECTOR (M08)

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

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PROJECT NAME:

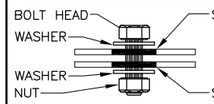
CUSTOMER:

JOB NUMBER:

SHEET NO:
E14 of 14

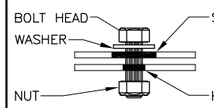
TYPICAL WASHER REQUIREMENTS ERECTOR NOTE

(UNLESS NOTED OTHERWISE ON DRAWINGS)



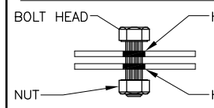
SLOT TO SLOT CONNECTIONS

WASHERS ARE REQUIRED ON BOTH SIDES OF MATERIAL IF SLOTS ARE USED ON BOTH SIDES. (SEE DETAIL AT RIGHT FOR LAPPED ZEE MEMBERS)



SLOT TO HOLE CONNECTIONS

ONE WASHER REQUIRED ON SLOTTED SIDE ONLY.



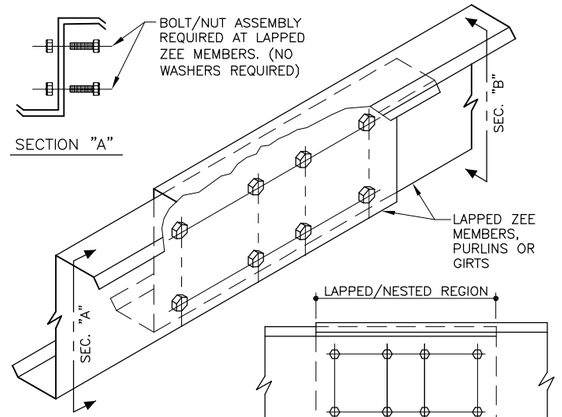
HOLE TO HOLE CONNECTIONS

NO WASHERS ARE REQUIRED WHEN SLOTS ARE NOT USED.

WASHER PART NUMBERS

H0200 – 1/2" FLAT WASHER	H0240 – 1" FLAT WASHER
H0210 – 5/8" FLAT WASHER	H0250 – 1 1/8" FLAT WASHER
H0220 – 3/4" FLAT WASHER	H0260 – 1 1/4" FLAT WASHER
H0230 – 7/8" FLAT WASHER	

AG0001



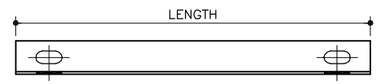
SECTION "B"

TYPICAL FLANGE BRACE MARK NUMBERS

ACTUAL FLANGE BRACES DO NOT HAVE MARK NUMBERS ON THEM

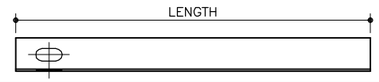
FBC___

INDICATES LENGTH OF FLANGE BRACE IN INCHES



FBD___

INDICATES LENGTH OF FLANGE BRACE IN INCHES

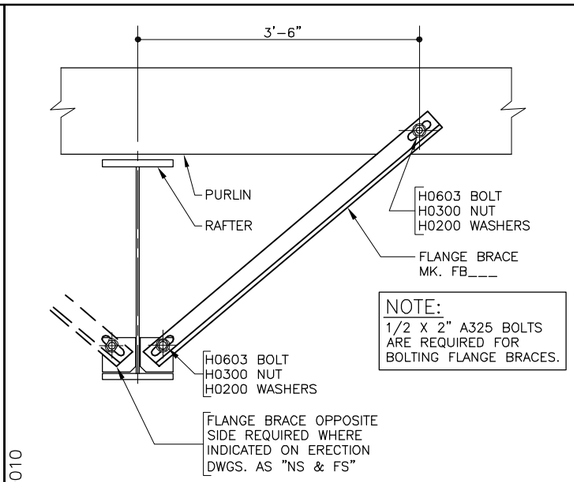


FBE___

COUNTER – SEE CHART

COUNTER	LENGTH
01	35 7/8"
02	37 1/8"
03	49 1/2"
04	50 1/4"

AG0003



AG0010

TYPICAL FLANGE BRACE AT PURLIN & RAFTER

SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS

TYPICAL FIELD WELD REQUIREMENTS ERECTOR NOTE:

(UNLESS NOTED OTHERWISE ON DRAWINGS)

ALL FIELD WELDING MUST BE PERFORMED BY AWS/CWB CERTIFIED WELDERS WHO ARE QUALIFIED FOR THE WELDING PROCESSES AND POSITIONS INDICATED. ALL WORK MUST BE COMPLETED AND INSPECTED IN ACCORDANCE WITH THE APPLICABLE AWS/CWB SPECIFICATIONS. WELD ELECTRODES USED FOR THE SMAW (OR STICK) WELD PROCESS MUST BE 70 KSI/483 MPa MATERIAL AND LOW HYDROGEN CONTENT.

GALVANIZED STEEL FIELD WELDING RECOMMENDATIONS

PREPARATION OF WELD AREA

AWS D-19.0, WELDING ZINC COATED STEEL, CALLS FOR WELDS TO BE MADE ON STEEL THAT IS FREE OF ZINC IN THE AREA TO BE WELDED. FOR GALVANIZED STRUCTURAL COMPONENTS, THE ZINC COATING SHOULD BE REMOVED AT LEAST ONE TO FOUR INCHES (2.5-10 CM) FROM EITHER SIDE OF THE INTENDED WELD ZONE AND ON BOTH SIDES OF THE WORKPIECE. GRINDING BACK THE ZINC COATING IS THE PREFERRED AND MOST COMMON METHOD; BURNING THE ZINC AWAY OR PUSHING BACK THE MOLTEN ZINC FROM THE WELD AREA ALSO ARE EFFECTIVE.

TOUCH-UP OF WELD AREA

WELDING ON GALVANIZED SURFACES DESTROYS THE ZINC COATING ON AND AROUND THE WELD AREA. RESTORATION OF THE AREA WILL BE PERFORMED IN ACCORDANCE WITH ASTM A 780, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS, WHICH SPECIFIES THE USE OF PAINTS CONTAINING ZINC DUST, ZINC-BASED SOLDERS OR SPRAYED ZINC. ALL TOUCHUP AND REPAIR METHODS ARE CAPABLE OF BUILDING A PROTECTIVE LAYER TO THE THICKNESS REQUIRED BY ASTM A 780.

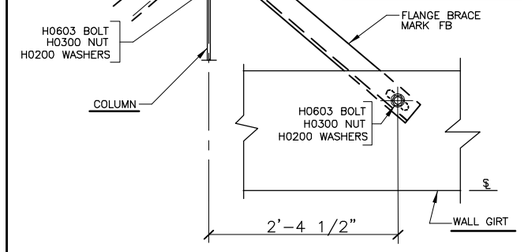
SAFETY & HEALTH

WHEN WELDING DIRECTLY ON GALVANIZED STEEL IS UNAVOIDABLE, OSHA PERMISSIBLE EXPOSURE LIMITS (PELS) MAY BE EXCEEDED AND EVERY PRECAUTION, INCLUDING HIGH-VELOCITY CIRCULATING FANS WITH FILTERS, AIR RESPIRATORS AND FUME-EXTRACTION SYSTEMS SUGGESTED BY AWS, SHOULD BE EMPLOYED. FUMES FROM WELDING GALVANIZED STEEL CAN CONTAIN ZINC, IRON AND LEAD. FUME COMPOSITION TYPICALLY DEPENDS ON THE COMPOSITION OF MATERIALS USED, AS WELL AS THE HEAT APPLIED BY THE PARTICULAR WELDING PROCESS. IN ANY EVENT, GOOD VENTILATION MINIMIZES THE AMOUNT OF EXPOSURE TO FUMES.

PRIOR TO WELDING ON ANY METAL, CONSULT ANSI/ASC Z-49.1, SAFETY IN WELDING, CUTTING AND ALLIED PROCESSES, WHICH CONTAINS INFORMATION ON THE PROTECTION OF PERSONNEL AND THE GENERAL AREA, VENTILATION AND FIRE PREVENTION.

AG0002

INFORMATION COURTESY OF AMERICAN GALVANIZERS ASSOCIATION

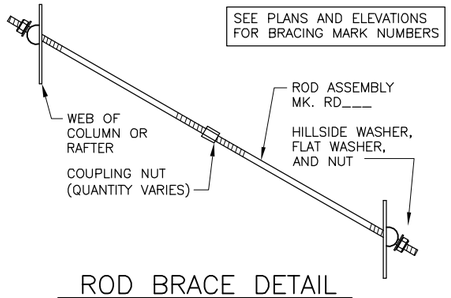


AG0030

TYP FLANGE BRACE @ BU COL & GIRT

NOTE: SEE PLANS AND ELEVATIONS FOR FLANGE BRACE PART MARKS

ROD DIAMETER	MARK NUMBER	HILLSIDE WASHERS	FLAT WASHERS	A307/A325 NUTS	COUPLING NUTS
5/8" ø	RDB___	(2) H0930	(2) H0210	(2) H0310	H0810
3/4" ø	RDC___	(2) H0930	(2) H0220	(2) H0320	H0820
7/8" ø	RDD___	(2) H0930	(2) H0230	(2) H0430	H0830
1" ø	RDE___	(2) H0960	(2) H0240	(2) H0330	H0840
1 1/8" ø	RDF___	(2) H0960	(2) H0250	(2) H0450	H0850
1 1/4" ø	RDG___	(2) H0960	(2) H0260	(2) H0340	H0860



AF0010

ROD BRACE DETAIL

(WEB TO WEB)

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

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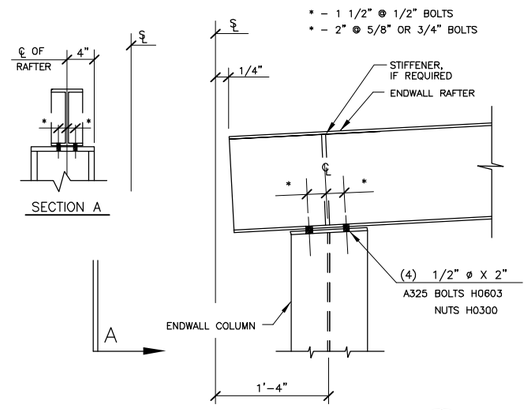
D1 of 4

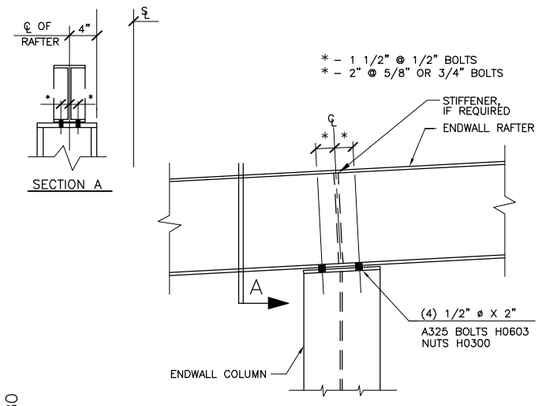
AC0020



EW COL TO RAFTER CONN 1 D2

REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

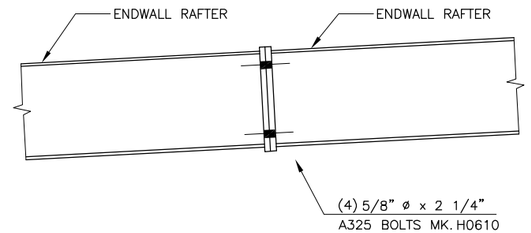
AC0080



EW COL TO RAFTER CONN 2 D2

(CONTINUOUS RAFTER)

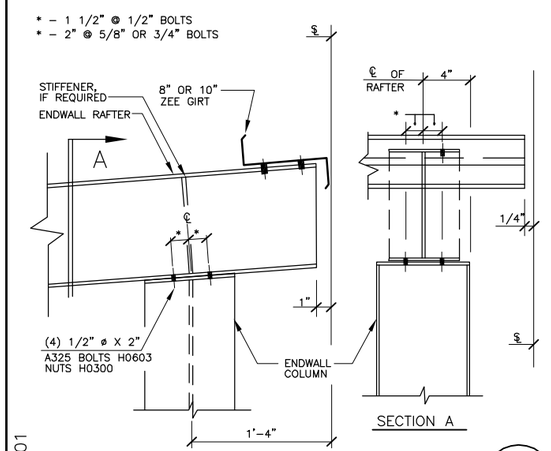
AC0171



INTERMEDIATE ENDWALL RAFTER CONNECTION 3 D2

WITHOUT COLUMN

AC0101



EW COLUMN TO RAFTER CONN 4 D2

ROOF SLOPE EQUAL TO OR LESS THAN 1:12
USE (2) 1/2"ø X 2" A325 BOLTS H0603/NUTS H0300 AT GIRT TO RAFTER CONN
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5–25–11
FINAL ERECTIONS	JSA	AGA			6–7–11

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JOB NUMBER:

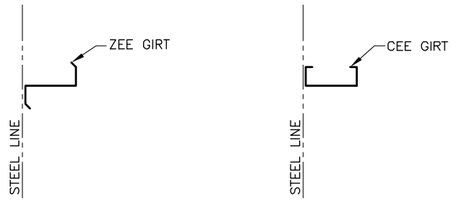
SHEET NO:
D2 of 4

ERECTOR NOTE:

UNLESS SPECIFICALLY NOTED OTHERWISE, STANDARD ZEE GIRT ORIENTATION IS TO HAVE THE GIRT TOED DOWN AT THE STEEL LINE AS SHOWN IN THE DETAIL BELOW.

UNLESS SPECIFICALLY NOTED OTHERWISE, STANDARD CEE GIRT ORIENTATION IS TO HAVE THE GIRT TOED UP AS SHOWN IN THE DETAIL BELOW. STANDARD CLIP ATTACHMENT IS BELOW THE GIRT, HOWEVER SOME DETAILS REQUIRE THAT THE CLIP BE ABOVE THE GIRT OR THAT THE GIRT BE TOED DOWN.

(REFER TO THE GIRT DETAILS FOR SPECIFIC CONNECTION REQUIREMENTS).

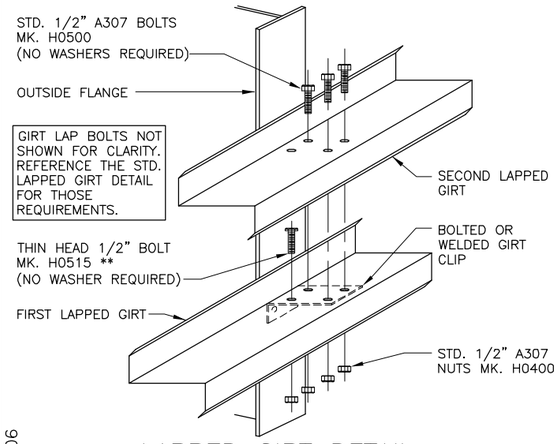


ZEE GIRT ORIENTATION CEE GIRT ORIENTATION

STANDARD GIRT ORIENTATION DETAIL

SEE GIRT DETAILS FOR GIRT CONNECTIONS
(COLUMNS NOT SHOWN)

CC0005

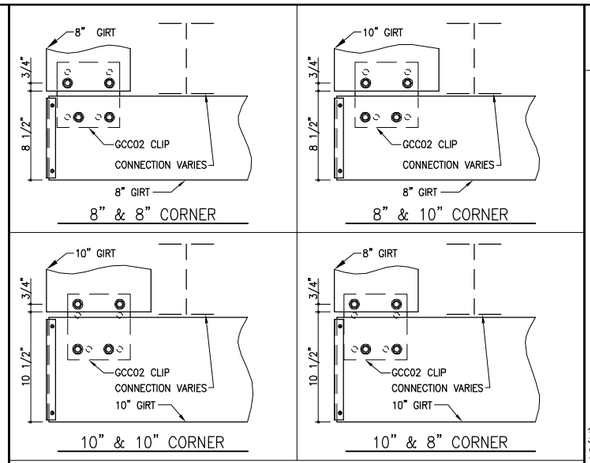


LAPPED GIRT DETAIL

LAPPED GIRTS @ INTERIOR BAY COLUMNS

** THE THIN HEAD 1/2" A307 BOLT MUST BE INSTALLED INTO THE FIRST GIRT AND CLIP OF A LAPPED CONDITION. THE BOLT/NUT ASSEMBLY MUST BE WRENCH TIGHT PRIOR TO THE SECOND LAPPED GIRT BEING INSTALLED.

CC0006



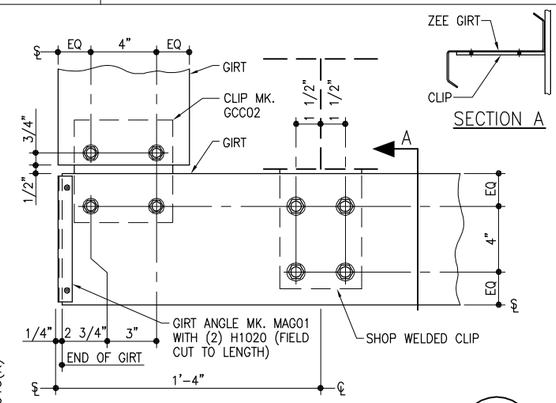
BYPASS GIRT BOLT PLACEMENT DETAIL

REFERENCE WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS
GIRT CLIPS ARE FACTORY PUNCHED TO BE USED WITH MULTIPLE GIRT DEPTHS.
REFER TO THE DETAILS ABOVE TO DETERMINE WHICH HOLES ARE UTILIZED.

CF1001

ERECTOR NOTE

GIRT CLIPS ARE FACTORY PUNCHED TO BE USED WITH MULTIPLE GIRT DEPTHS. REFER TO THE STANDARD BOLT PLACEMENT DETAIL(S) FOR PROPER BOLT PLACEMENT.

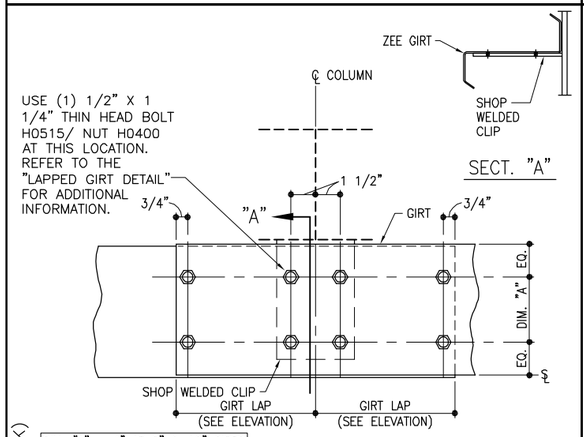


BYPASS GIRT CORNER DETAIL

4
D3

LEFT HAND DETAIL SHOWN, RIGHT HAND OPPOSITE
NOTE: USE (8) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS

CF1010(K)

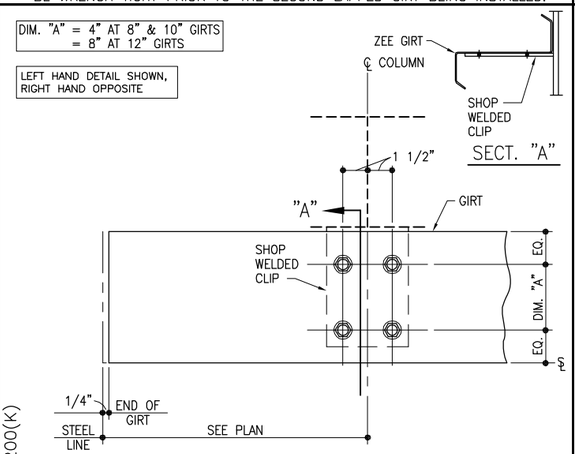


SW OR EW GIRT DETAIL

5
D3

LAPPED BYPASS GIRTS AT INTERIOR BAY COLUMNS
NOTE: USE (7) 1/2"x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

CC1010(K)

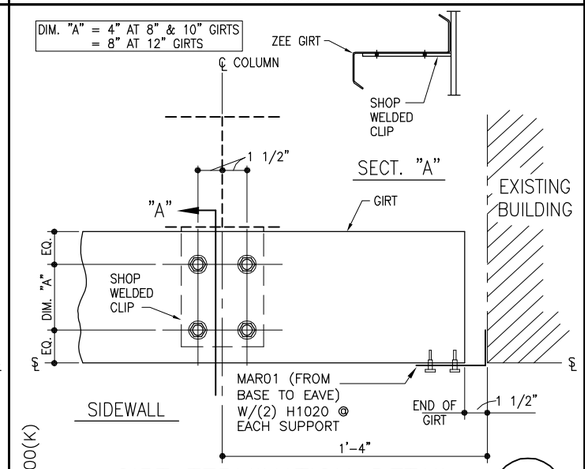


GIRT TERMINATION DETAIL

6
D3

LEFT HAND DETAIL SHOWN, RIGHT HAND OPPOSITE
NOTE: USE (4) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS

CF1200(K)



GIRT TERMINATION DETAIL

7
D3

RIGID FRAME
NOTE: USE (4) 1/2"x 1 1/2" A307 BOLTS H0500/NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

CF1200(K)

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

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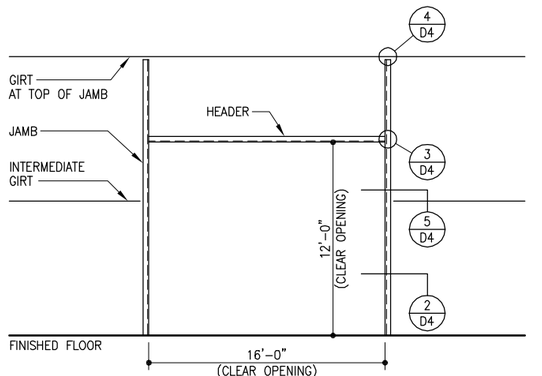
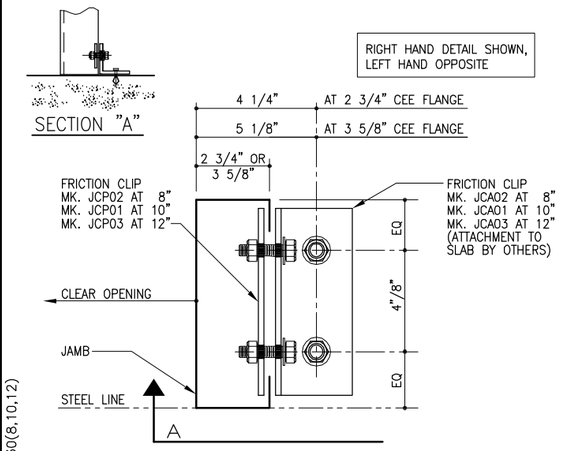
D3 of 4



16' x 12' OVERHEAD DOOR F.O.

1 / D4

CG0001

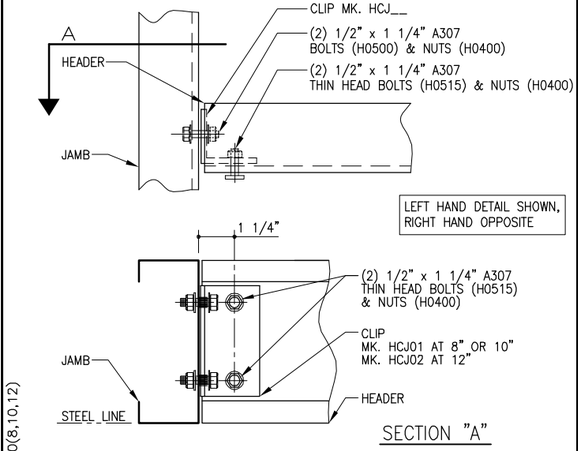


JAMB TO FINISHED FLOOR CONNECTION

NOTE: USE (2) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS

2 / D4

CG0030(8,10,12)



HEADER TO JAMB CONNECTION

NOTE: USE (2) 1/2" x 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS

3 / D4

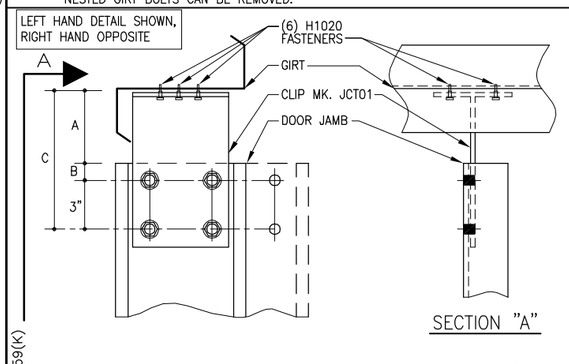
CG0050(8,10,12)

DIM. A= 4" AT 8" & 10" GIRTS
DIM. A= 4-1/4" AT 12" GIRTS

DIM. B= 1" AT 8" & 10" GIRTS
DIM. B= 3/4" AT 12" GIRTS

DIM. C= 8" AT 8" & 10" GIRTS
DIM. C= 8" AT 12" GIRTS

ERECTOR NOTE:
–PRE–DRILL HOLES AT NESTED ZEE GIRTS & DOUBLE CEE GIRTS IF REQUIRED.
–IF THE T–CLIP IS LOCATED IN THE SAME LOCATION AS NESTED GIRT BOLTS, THE NESTED GIRT BOLTS CAN BE REMOVED.

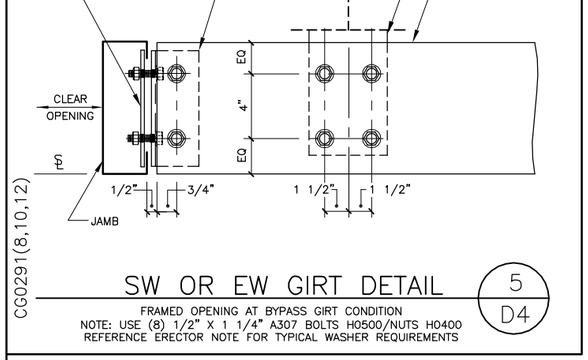


DOOR JAMB TO GIRT CONN

NOTE: USE (4) 1/2"X 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE STANDARD WASHER DETAIL FOR TYPICAL WASHER REQUIREMENTS

4 / D4

CG0059(K)



SW OR EW GIRT DETAIL

FRAMED OPENING AT BYPASS GIRT CONDITION
NOTE: USE (8) 1/2" X 1 1/4" A307 BOLTS H0500/NUTS H0400
REFERENCE ERECTOR NOTE FOR TYPICAL WASHER REQUIREMENTS

5 / D4

CG0291(8,10,12)

ISSUE	DWN	CHK	ENG	P.E.	DATE
PERMITS	JSA	AGA	PMT		5-25-11
FINAL ERECTIONS	JSA	AGA			6-7-11

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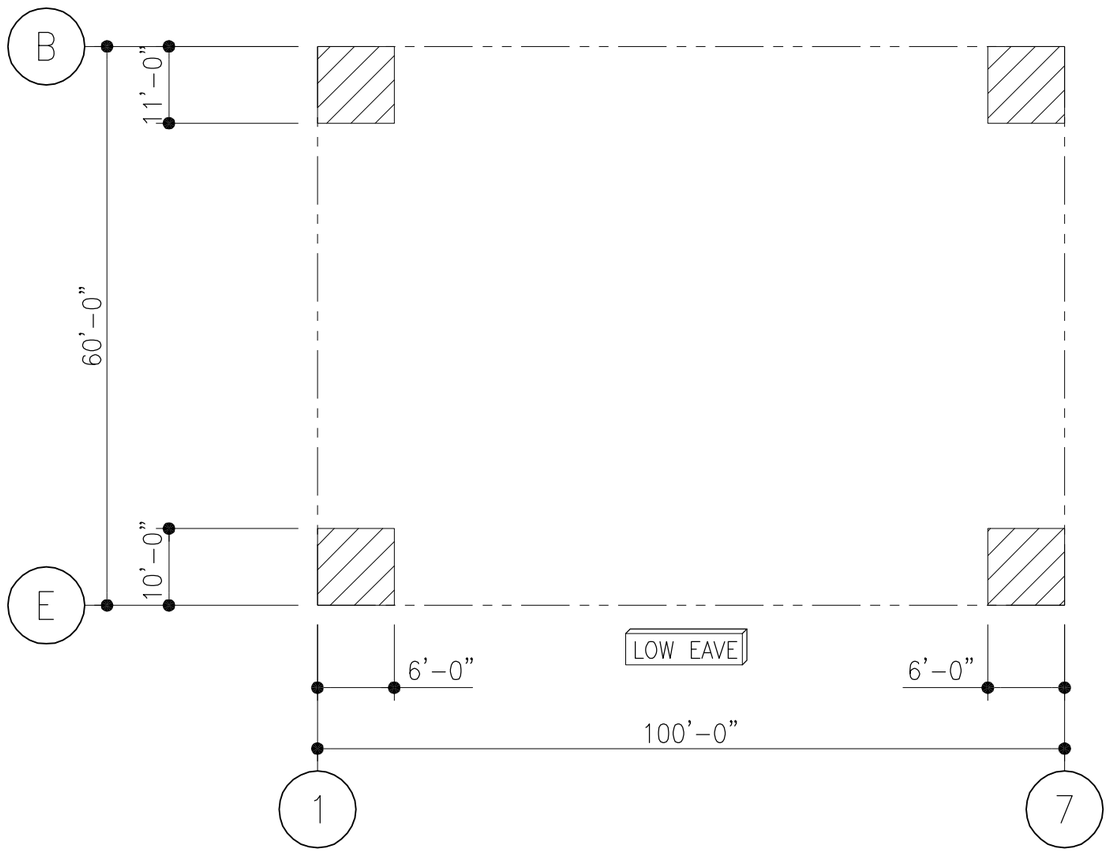
D4 of 4

ERECTOR NOTE:

THIS BUILDING HAS SPECIFIC ROOF CLIP AND FASTENER REQUIREMENTS. PLEASE REVIEW THIS DETAIL PRIOR TO ERECTING THE ROOF PANEL. FAILURE TO FOLLOW THESE SPECIFIC REQUIREMENTS COULD RESULT IN LOSS OF ROOF PANEL(S).

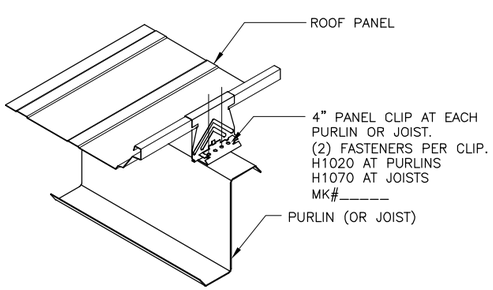


ROOF SEAMING PLAN

1) ROLL LOCK™ U.N.O.
2) INDICATES VISE LOCK™.
3) INDICATES VISE LOCK 360™.

STD. 4" PANEL CLIP ATTACHMENT DETAIL

SEE CFR ROOF ERECTION NOTES FOR PANEL CLIP MARK NUMBER

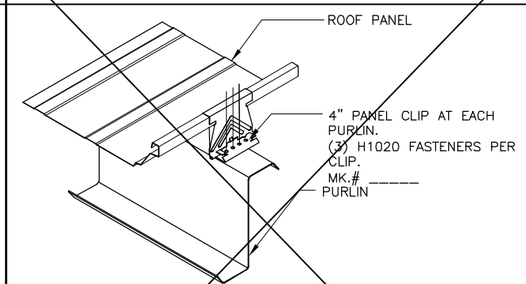


(2) FASTENERS PER CLIP AT PURLIN/JOIST — A

EA1027

STD. 4" PANEL CLIP ATTACHMENT DETAIL

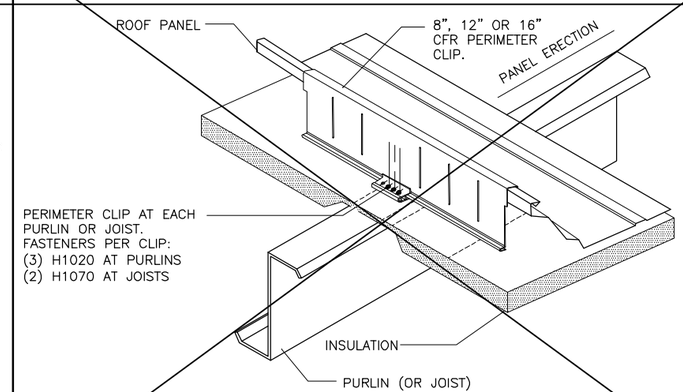
SEE CFR ROOF ERECTION NOTES FOR PANEL CLIP MARK NUMBER



(3) FASTENERS PER CLIP AT PURLIN — B

PERIMETER PANEL CLIP ATTACHMENT DETAIL

SEE CFR ROOF ERECTION NOTES FOR PANEL CLIP MARK NUMBER



(3) FASTENERS PER CLIP AT PURLIN
(2) FASTENERS PER CLIP AT JOIST — C

STD 4" CFR CLIP PART NUMBERS	
MARK #	PART DESCRIPTION
H2500	SHORT FIXED CLIP
H2510	TALL FIXED CLIP
H2520	SHORT SLIDING CLIP
H2530	TALL SLIDING CLIP

CFR PERIMETER CLIP PART NUMBERS	
MARK #	PART DESCRIPTION
H2720	SHORT SLIDING 8" CLIP
H2730	TALL SLIDING 8" CLIP
H2740	SHORT SLIDING 12" CLIP
H2750	TALL SLIDING 12" CLIP
H2760	SHORT SLIDING 16" CLIP
H2770	TALL SLIDING 16" CLIP

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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TELEPHONE: (303) 953-3250
FACSIMILE: (303) 953-3251

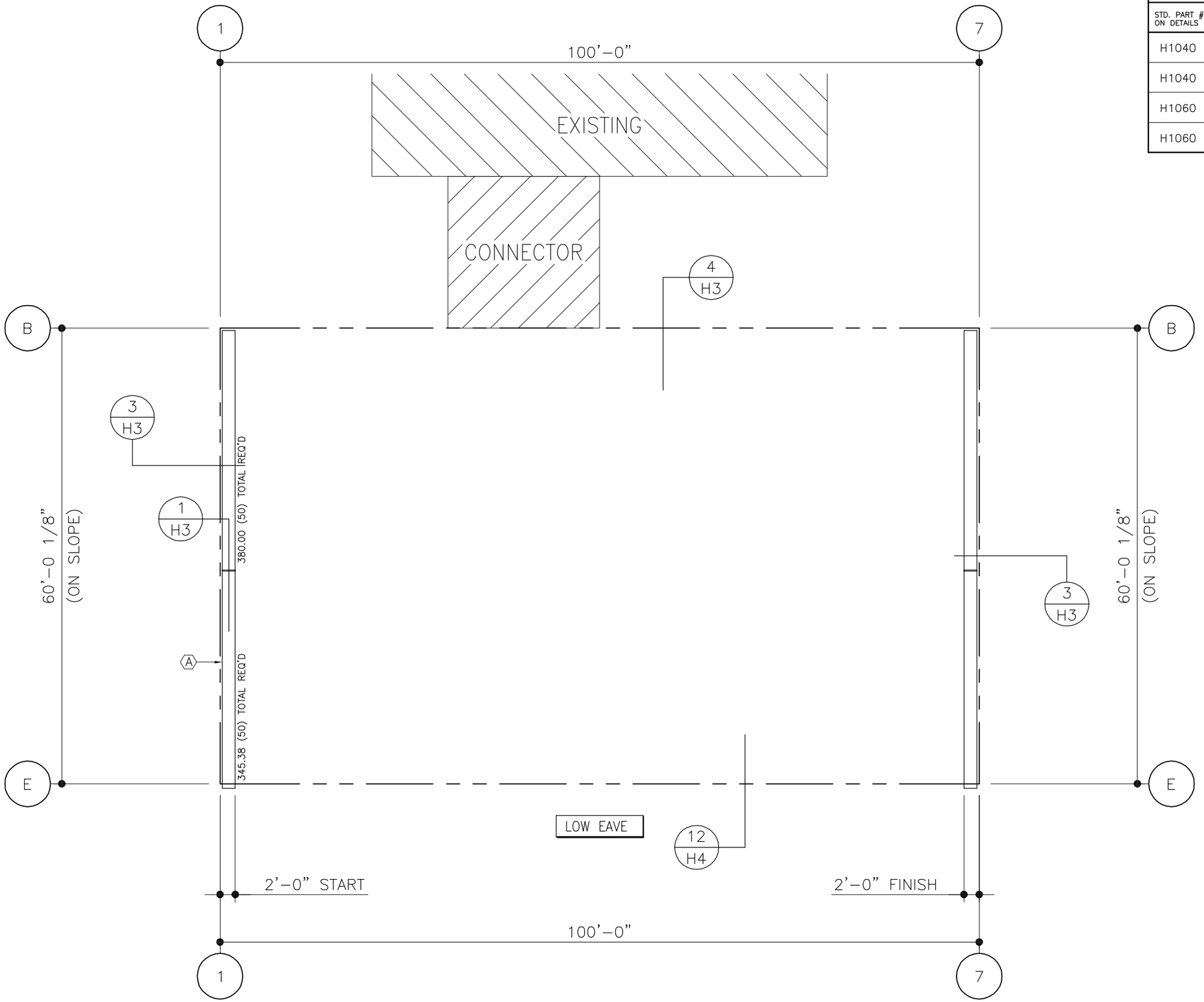
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
G1 of 9

FASTENER SUBSTITUTION CHART			
STD. PART # ON DETAILS	SPECIAL PART #	COLOR	DESCRIPTION
H1040	H1041	PW	WF 12–14 x 1 1/4" TEK 2 W/ WASHER
H1040	H1041	BS	WF 12–14 x 1 1/4" TEK 2 W/ WASHER
H1060	H1061	PW	WF 12–14 x 3/4" SP W/ WASHER
H1060	H1061	BS	WF 12–14 x 3/4" SP W/ WASHER

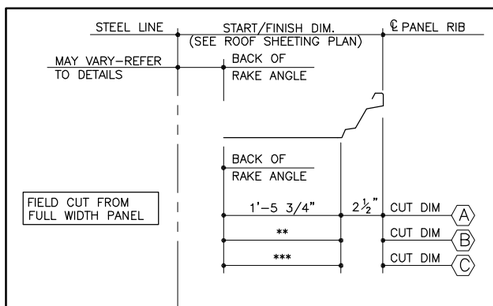


TWIN BAY MEDICAL EXPANSION

ROOF SHEETING PLAN (R01)

PANELS: 24 GA. STANDING SEAM – GALVALUME

NOTE: PRE–DRILLING FOR STRUCTURAL FASTENTERS MAY BE REQUIRED AT PURLIN LAPS



START PANEL WIDTH DETAIL (FIELD CUT)

NOTE: THE FINISH PANEL ALSO NEEDS TO BE CUT TO THE REQUIRED WIDTH FROM A FULL SHEET

WHEN FIELD CUTTING OR MITERING CFR ROOF PANELS, NON–ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS OR TIN–SNIPS SHALL BE USED. ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS, SAWS, SHEARS, OR SCISSORS CAN DAMAGE THE GALVALUME FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS. THE USE OF NON–APPROVED CUTTING DEVICES MAY VOID YOUR FACTORY WARRANTY.

EA1035

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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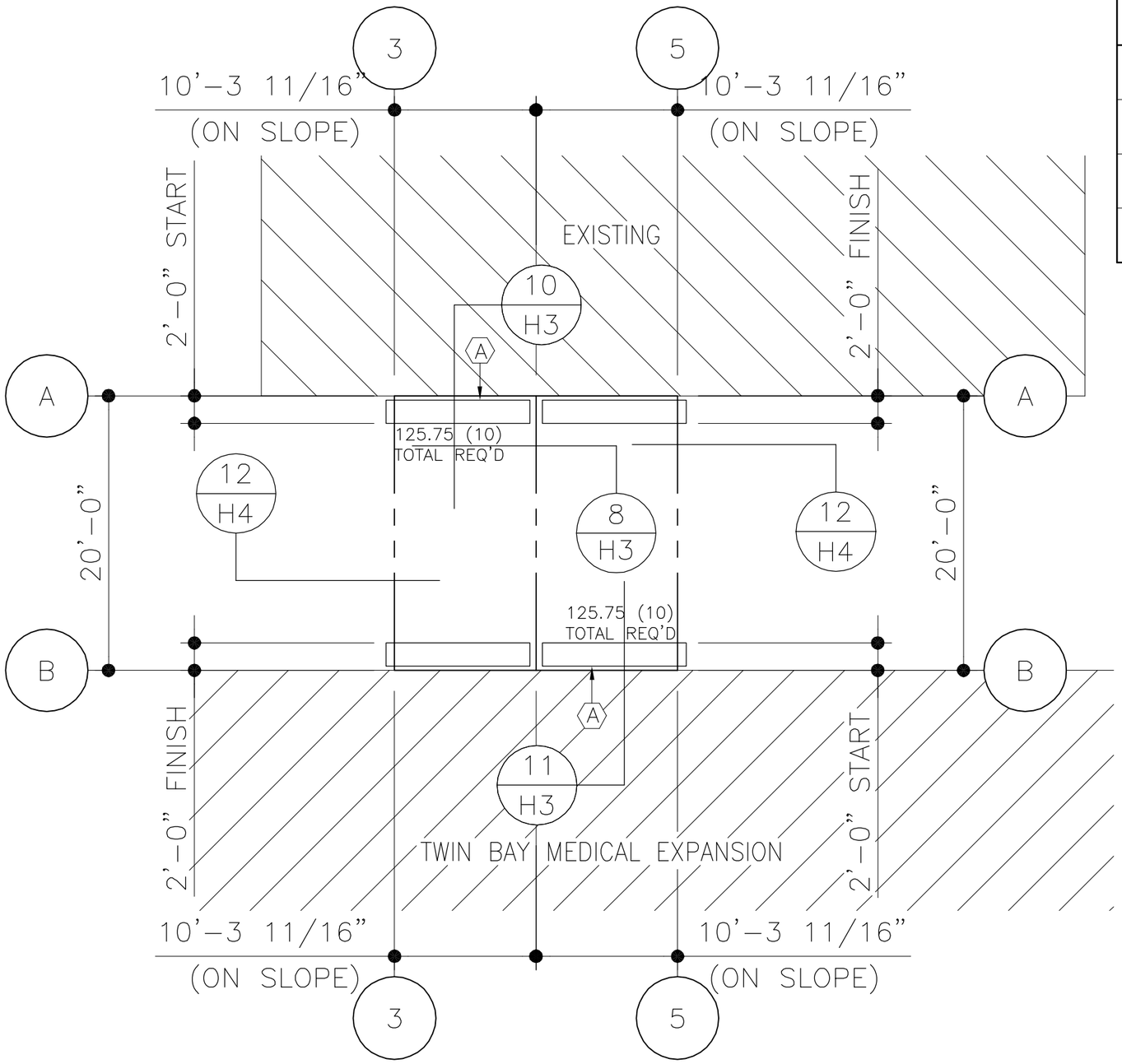
JOB NUMBER:

SHEET NO:
G2 of 9



ROOF SHEETING PLAN (R03/R04)

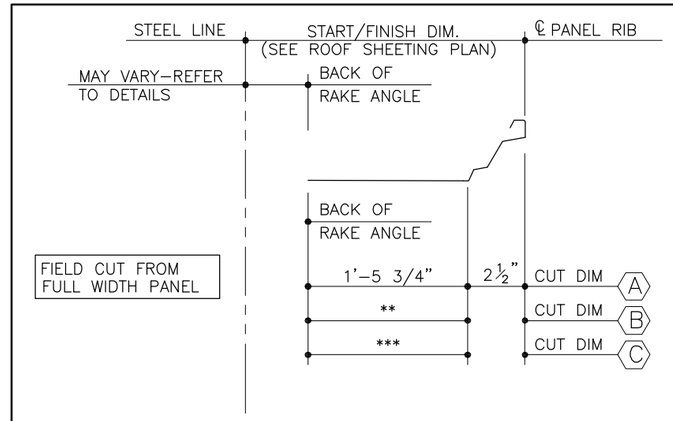
PANELS: 24 GA. STANDING SEAM – GALVALUME

NOTE: PRE-DRILLING FOR STRUCTURAL FASTENTERS MAY BE REQUIRED AT PURLIN LAPS

ROLL LOCK™ SEAMING ONLY ON THIS BUILDING.

FASTENER SUBSTITUTION CHART

STD. PART # ON DETAILS	SPECIAL PART #	COLOR	DESCRIPTION
H1040	H1041	PW	WF 12-14 x 1 1/4" TEK 2 W/ WASHER
H1040	H1041	BS	WF 12-14 x 1 1/4" TEK 2 W/ WASHER
H1060	H1061	PW	WF 12-14 x 3/4" SP W/ WASHER
H1060	H1061	BS	WF 12-14 x 3/4" SP W/ WASHER



START PANEL WIDTH DETAIL (FIELD CUT)

NOTE: THE FINISH PANEL ALSO NEEDS TO BE CUT TO THE REQUIRED WIDTH FROM A FULL SHEET

WHEN FIELD CUTTING OR MITERING CFR ROOF PANELS, NON-ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS OR TIN-SNIPS SHALL BE USED. ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS, SAWS, SHEARS, OR SCISSORS CAN DAMAGE THE GALVALUME FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS. THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID YOUR FACTORY WARRANTY.

EA1035

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
G3 of 9

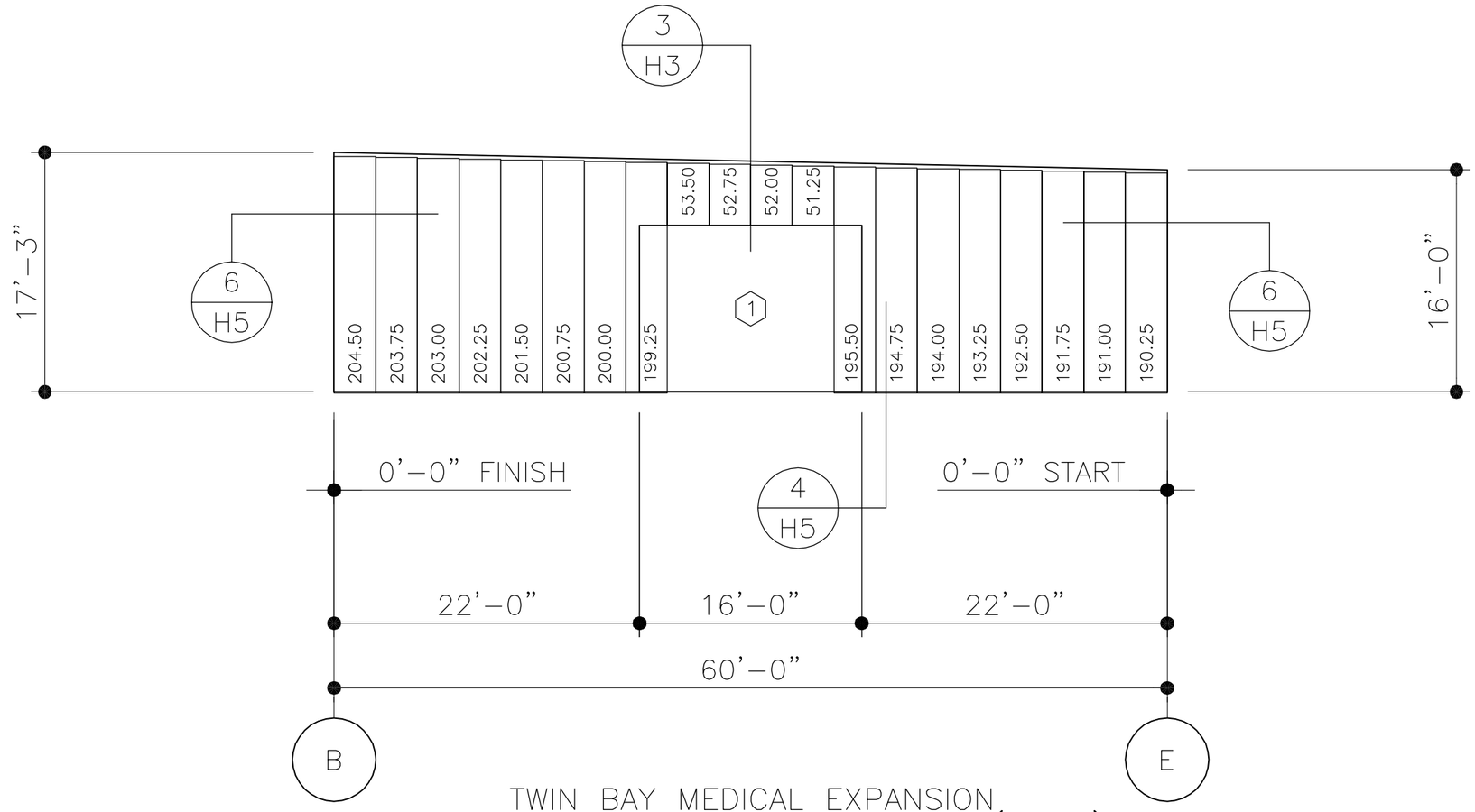
FASTENER SUBSTITUTION CHART

STD. PART # ON DETAILS	SPECIAL PART #	COLOR	DESCRIPTION
H1040	H1041	PW	WF 12–14 x 1 1/4" TEK 2 W/ WASHER
H1040	H1041	BS	WF 12–14 x 1 1/4" TEK 2 W/ WASHER
H1060	H1061	PW	WF 12–14 x 3/4" SP W/ WASHER
H1060	H1061	BS	WF 12–14 x 3/4" SP W/ WASHER

FRAMED OPENING SCHEDULE

ID NUMBER	QTY	SIZE		TRIM REQUIREMENTS			COVER TRIM REQ'MENTS	
		WIDTH	HEIGHT	JAMB TRIM	HEAD TRIM	SILL TRIM	JAMB TRIM	HEAD TRIM
1	1	16'–0"	12'–0"	JTA04	HTA07	N/A	CCA02	CCA04

FOR FRAMED OPENING TRIM DETAILS, SEE SHEET H5.



TWIN BAY MEDICAL EXPANSION

WALL SHEETING AT LINE 1 (M01)

PANELS: 26 GA. CLASSIC WALL – POLAR WHITE (SILICONE POLYESTER)

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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PROJECT NAME:

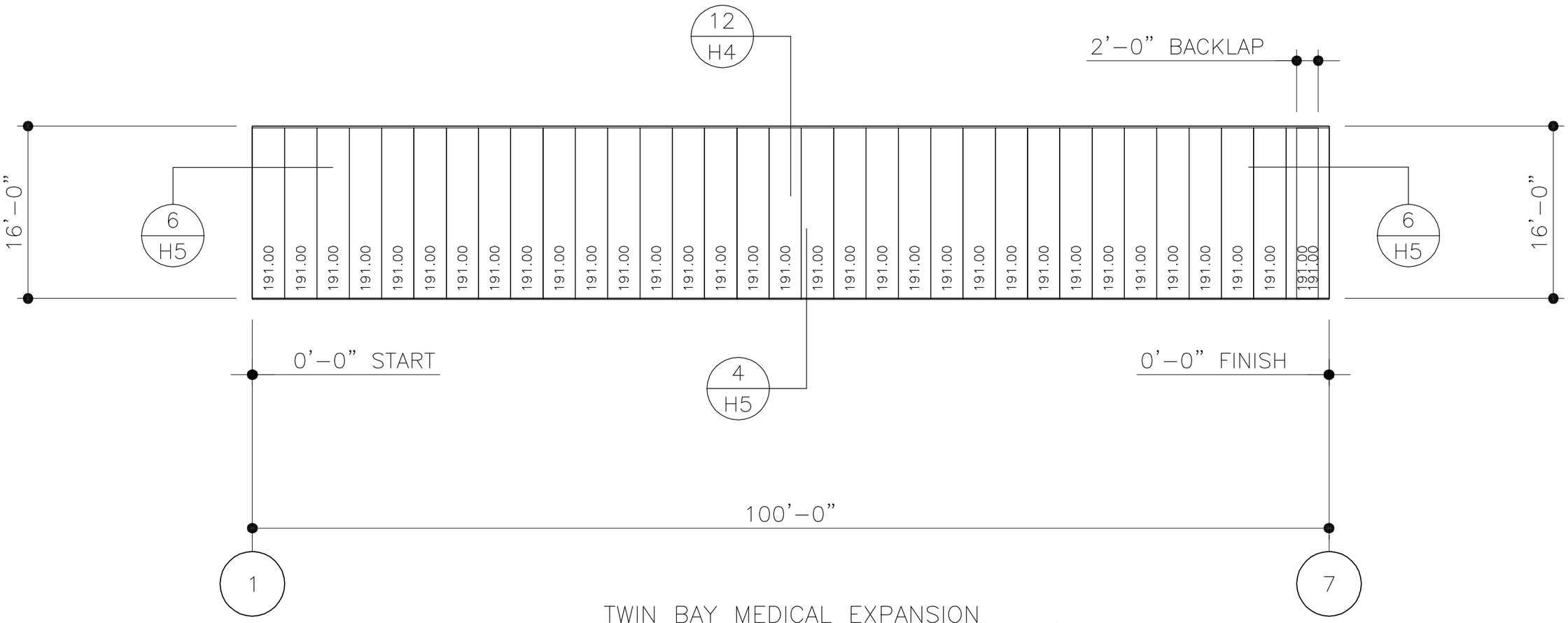
CUSTOMER:

JOB NUMBER:

SHEET NO:
G4 of 9

FASTENER SUBSTITUTION CHART

STD. PART # ON DETAILS	SPECIAL PART #	COLOR	DESCRIPTION
H1040	H1041	PW	WF 12–14 x 1 1/4" TEK 2 W/ WASHER
H1040	H1041	BS	WF 12–14 x 1 1/4" TEK 2 W/ WASHER
H1060	H1061	PW	WF 12–14 x 3/4" SP W/ WASHER
H1060	H1061	BS	WF 12–14 x 3/4" SP W/ WASHER



TWIN BAY MEDICAL EXPANSION

WALL SHEETING AT LINE E (M02)

PANELS: 26 GA. CLASSIC WALL – POLAR WHITE (SILICONE POLYESTER)

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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PROJECT NAME:

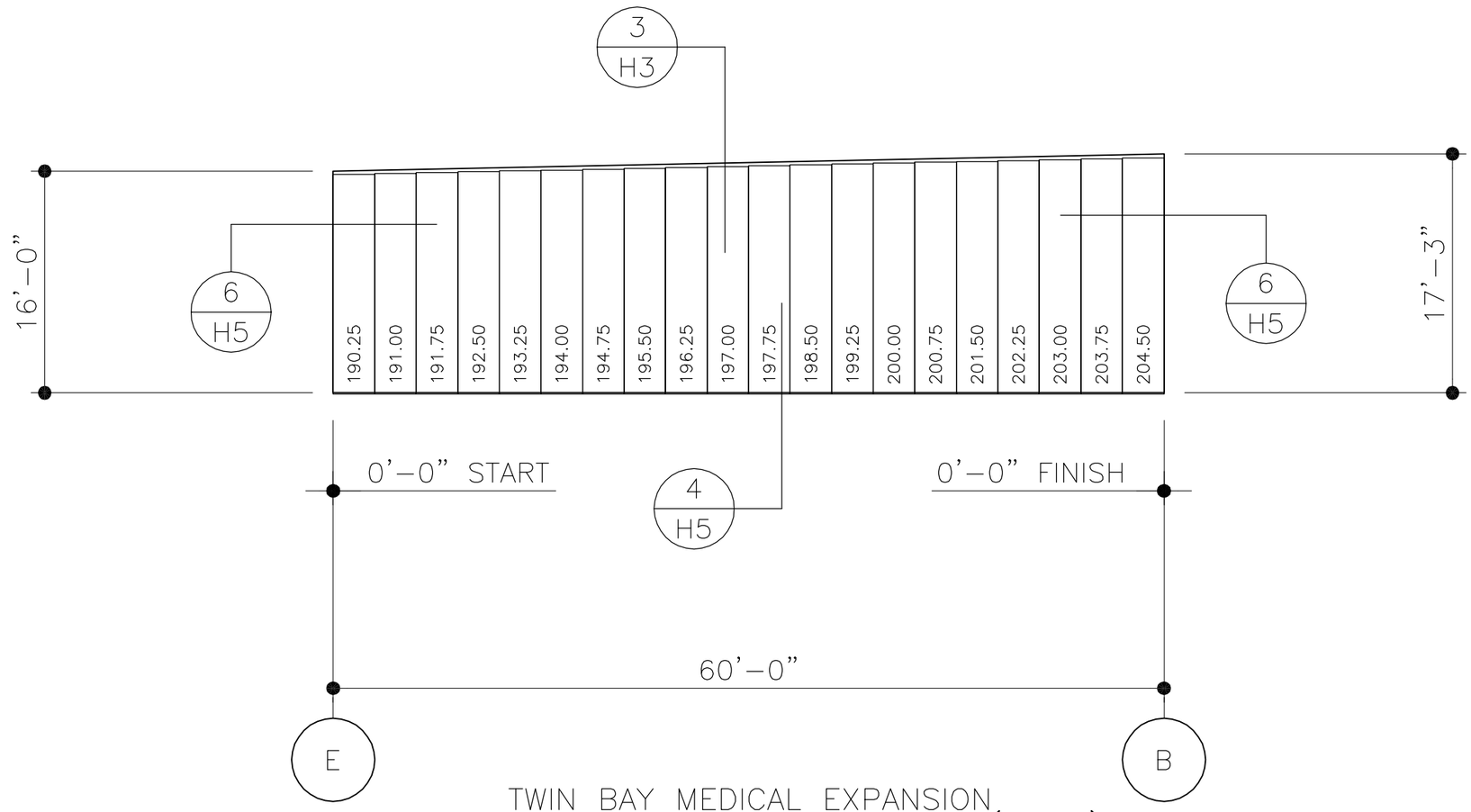
CUSTOMER:

JOB NUMBER:

SHEET NO:
G5 of 9

FASTENER SUBSTITUTION CHART

STD. PART # ON DETAILS	SPECIAL PART #	COLOR	DESCRIPTION
H1040	H1041	PW	WF 12–14 x 1 1/4" TEK 2 W/ WASHER
H1040	H1041	BS	WF 12–14 x 1 1/4" TEK 2 W/ WASHER
H1060	H1061	PW	WF 12–14 x 3/4" SP W/ WASHER
H1060	H1061	BS	WF 12–14 x 3/4" SP W/ WASHER



TWIN BAY MEDICAL EXPANSION

WALL SHEETING AT LINE 7 (M03)

PANELS: 26 GA. CLASSIC WALL – POLAR WHITE (SILICONE POLYESTER)

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

CANAM STEEL BUILDING CORPORATION

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PROJECT NAME:

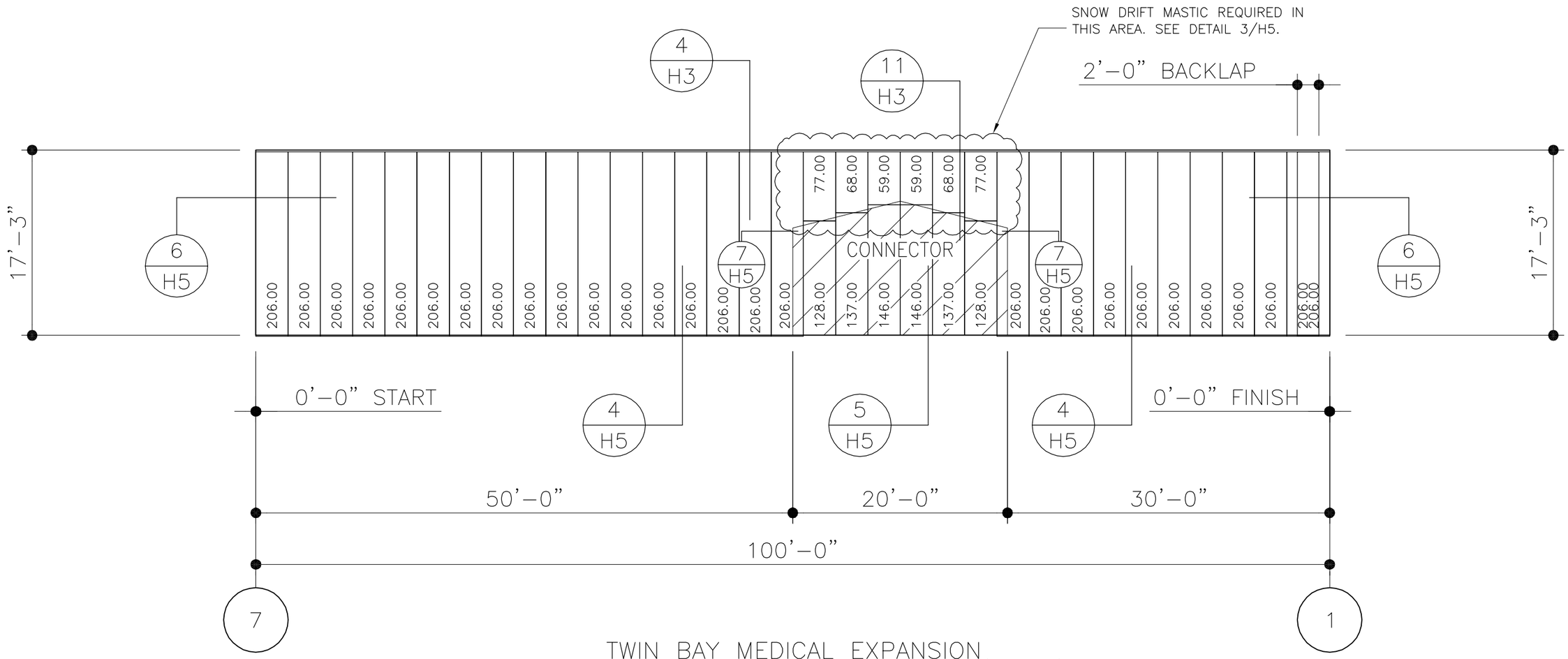
CUSTOMER:

JOB NUMBER:

SHEET NO:
G6 of 9

FASTENER SUBSTITUTION CHART

STD. PART # ON DETAILS	SPECIAL PART #	COLOR	DESCRIPTION
H1040	H1041	PW	WF 12–14 x 1 1/4" TEK 2 W/ WASHER
H1040	H1041	BS	WF 12–14 x 1 1/4" TEK 2 W/ WASHER
H1060	H1061	PW	WF 12–14 x 3/4" SP W/ WASHER
H1060	H1061	BS	WF 12–14 x 3/4" SP W/ WASHER



TWIN BAY MEDICAL EXPANSION

WALL SHEETING AT LINE B (M04)

PANELS: 26 GA. CLASSIC WALL – POLAR WHITE (SILICONE POLYESTER)

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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PROJECT NAME:

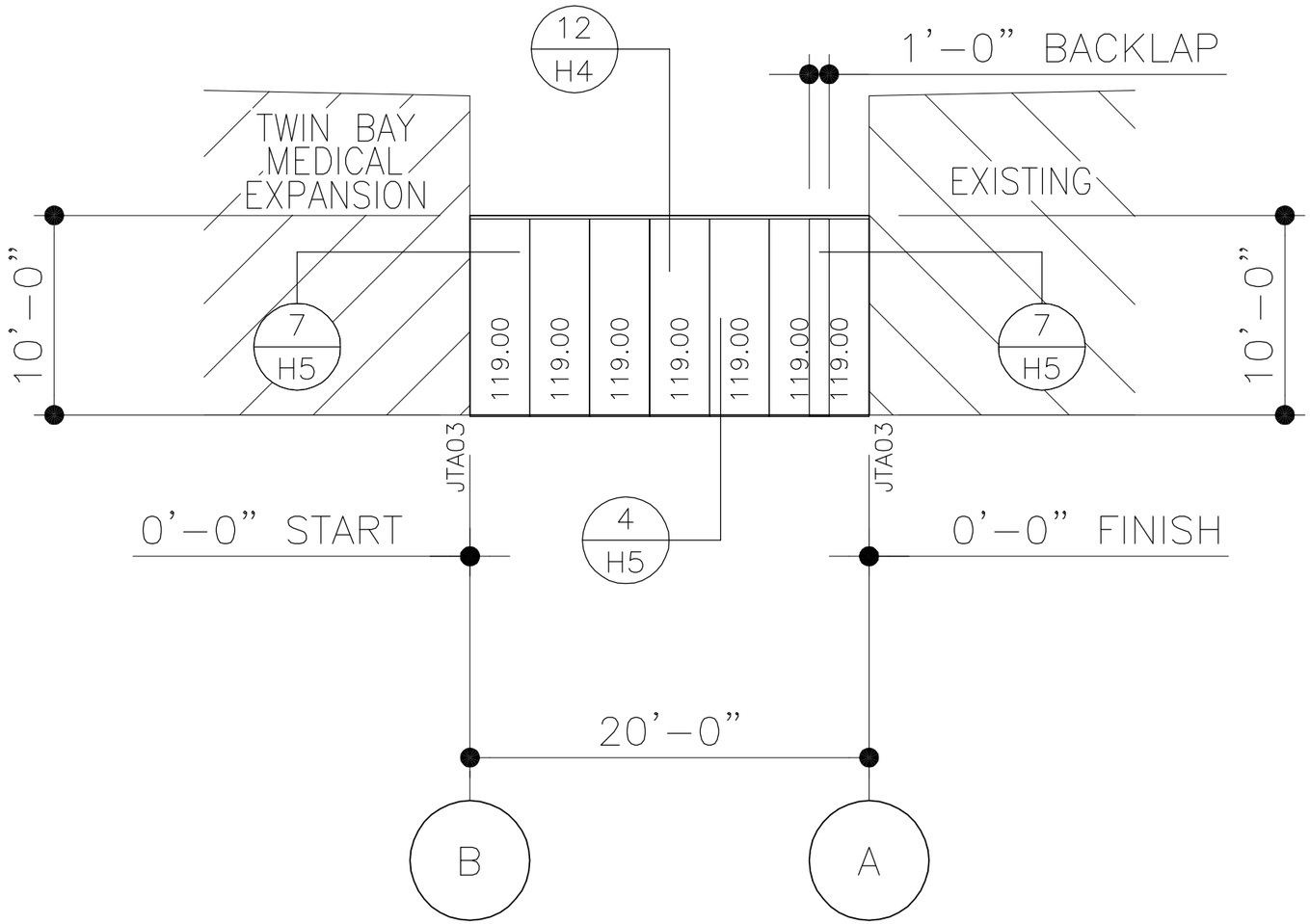
CUSTOMER:

JOB NUMBER:

SHEET NO:
G7 of 9

FASTENER SUBSTITUTION CHART

STD. PART # ON DETAILS	SPECIAL PART #	COLOR	DESCRIPTION
H1040	H1041	PW	WF 12-14 x 1 1/4" TEK 2 W/ WASHER
H1040	H1041	BS	WF 12-14 x 1 1/4" TEK 2 W/ WASHER
H1060	H1061	PW	WF 12-14 x 3/4" SP W/ WASHER
H1060	H1061	BS	WF 12-14 x 3/4" SP W/ WASHER



WALL SHEETING AT LINE 5 (M06)

PANELS: 26 GA. CLASSIC WALL - POLAR WHITE (SILICONE POLYESTER)

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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PROJECT NAME:

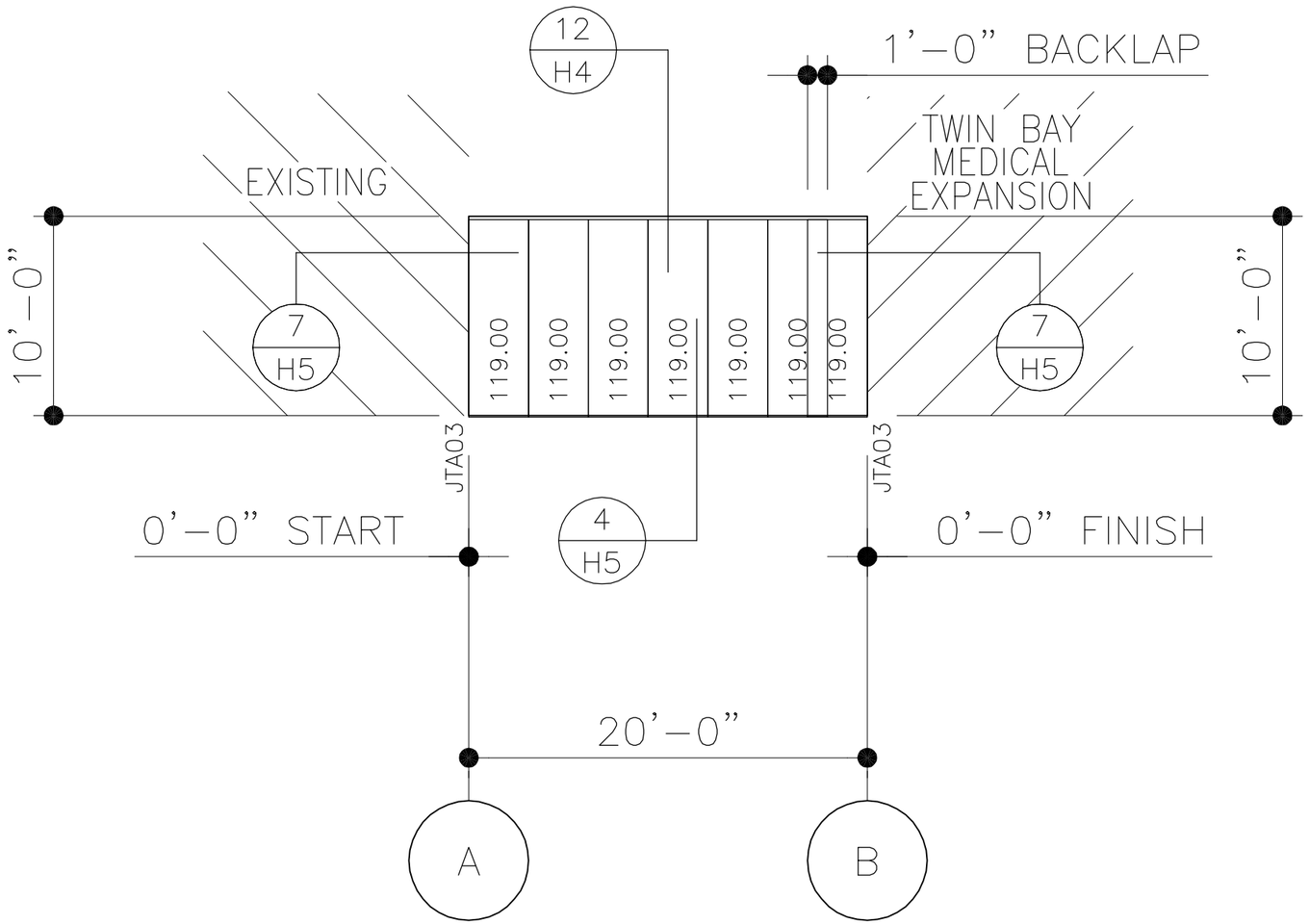
CUSTOMER:

JOB NUMBER:

SHEET NO:
G8 of 9

FASTENER SUBSTITUTION CHART

STD. PART # ON DETAILS	SPECIAL PART #	COLOR	DESCRIPTION
H1040	H1041	PW	WF 12-14 x 1 1/4" TEK 2 W/ WASHER
H1040	H1041	BS	WF 12-14 x 1 1/4" TEK 2 W/ WASHER
H1060	H1061	PW	WF 12-14 x 3/4" SP W/ WASHER
H1060	H1061	BS	WF 12-14 x 3/4" SP W/ WASHER



WALL SHEETING AT LINE 3 (M08)

PANELS: 26 GA. CLASSIC WALL - POLAR WHITE (SILICONE POLYESTER)

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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PROJECT NAME:

CUSTOMER:

JOB NUMBER:

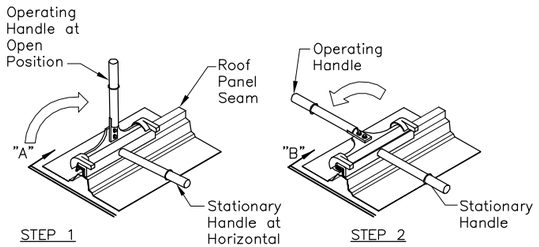
SHEET NO:
G9 of 9

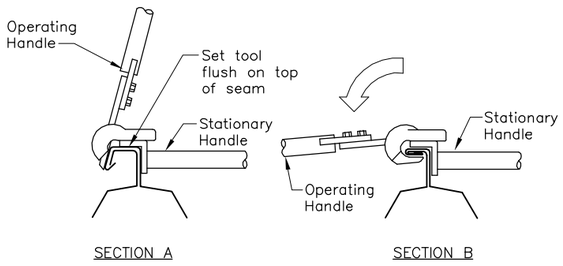
CFR HAND CRIMPING INSTRUCTIONS

IMPORTANT NOTE: THE INSTRUCTIONS ON THE PAGE ONLY ADDRESS THE USE OF THE HAND CRIMPING TOOLS. THE INSTRUCTIONS FOR MECHANICAL SEAMING, IF REQUIRED, ARE OUTLINED IN THE CFR SEAMING MANUAL, WHICH IS INCLUDED WITH THE MECHANICAL SEAMER KIT.

SPECIALIZED SEAMING AND HAND CRIMPING TOOLS
The finished seam of the CFR roof panels requires special seaming tools that are available only through MBM.
CAUTION: The use of other seaming/crimping equipment will result in faulty and/or damaged seams and shall invalidate the roof system's material and weathertightness warranties.

SEAMING TOOL SOURCE
The seaming tools are provided in accordance with the terms and conditions of the contract documents. Contact the Quality Service Representive to arrange scheduling, delivery and return of the seaming tools.





MANUAL CRIMPING TOOL OPERATION

NOMENCLATURE
The detail above identifies the operational parts of the Vise Lock Crimping Tool. This crimping tool is shown for the manually producing the Vise Lock Seam. If your job requires a Vise Lock 360 seam then you will need to manually crimp at the eave of your building with a Vise Lock 360 crimper to start the second pass seamer. Instructions on how to do this operation are in the CFR SEAMER MANUAL.

NOTE: It is now possible to hand crimp small areas of the roof with a Standup Vise Lock 360 Crimper. Contact the Quality Service Representative for purchase information of this tool.

TOOL ORIENTATION TO SEAM
Orient the tool to fit correctly onto the roof panel seam as shown in Section A above.

NOTE: The detail shows a short handled crimping tool, the tool you receive may be the long handled type, with either tool the orientation on the seam is the same.

FORMING THE SEAM
When the tool is correctly positioned on the panel, push the stationary blade solidly against the top of the seam. While holding the stationary handle in the horizontal position, rotate the operating handle down to the horizontal positiion. This will form the seam.

EA1010

CFR SEAMING REQUIREMENTS

THE DESIGN OF THIS STRUCTURE REQUIRES THAT THE FOLLOWING SEAMING METHOD BE UTILIZED AS A MINIMUM:

1) ■ "ROLL LOCK"™ SEAM (SEE NOTE 1 AND 2 BELOW)
2) □ MODIFIED "ROLL LOCK"™ SEAM (SEE DETAIL ON FOLLOWING SHEET)
3) ■ "VISE LOCK"™ SEAM (SEE NOTE 1, 2 AND 3 BELOW)
4) □ "VISE LOCK 360"™ SEAM (SEE NOTE 2 AND 3 BELOW)

NOTE 1: ADDITIONAL SEAMING MAY BE NECESSARY AS SPECIFIED BY THE BUILDER.

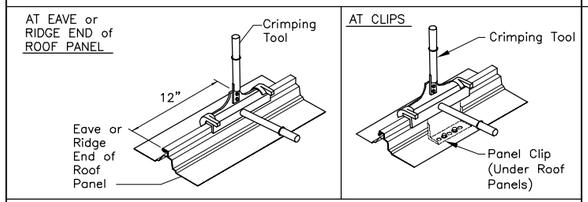
NOTE 2: MULTIPLE SEAMING TYPES MAY BE REQUIRED. REVIEW THE ROOF SEAMING PLAN CAREFULLY FOR SEAMING REQUIREMENTS.

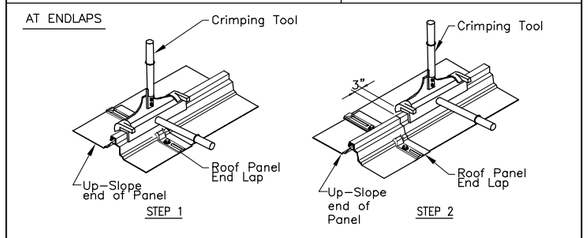
NOTE 3: NOT ALL ROOF SYSTEMS REQUIRE MECHANICAL SEAMING. THE BUYER, OWNER, OR ARCHITECT MAY ELECT TO SPECIFY A MECHANICALLY SEAMED PANEL. OFTEN, FACTORY MUTUAL RATINGS ALSO REQUIRE A SECOND PASS MECHANICAL SEAMER.
SEE IMPORTANT ERECTOR NOTE BELOW ON "VISE LOCK 360" SEAMER REQUIREMENTS.

WHEN TO SEAM
Whenever possible, the installed roof panels should be seamed at the completion of each day's work. If high winds or rain/snow conditions are imminenet, the installed roof panels must be seamed before such conditions occur.
Refer to the project erection drawing Roof Seaming Plan and/or Detail pages to determine what seaming option is required. The above detail conveys the MINIMUM seaming requirements based upon the design of the project. Additional seaming may be necessary as specified by the builder. NOTE: multiple seaming types may be required on a project, review the Roof Seaming Plan and details carefully.
For roofs requiring "Vise Lock"™ or "Vise Lock 360"™ seaming, it may not always be practical to mechanically seam the panels until after the roof installation is complete. In such cases, it may be desirable to temporarily "Roll Lock"™ seam the panels with the Hand Crimping Tool. The panels can then be mechancially seamed at a later date.

IMPORTANT: It shall be the erector's responsibility to apply the "Roll Lock"™ hand crimping method in such a way as to ensure that the panels have been adequately secured until mechanical seaming can occur.

IMPORTANT "Vise Lock 360"™ seamer Note:
In order to achieve a good VL360 seam, the erector must have first successfully seamed the roof with the primary seamer ("Vise Lock"™). Before running the VL360™ seamer, the erector needs to hand crimp the "Vise Lock" seam into the "Vise Lock 360"™ seam. See the CFR seamer erection manual for your specific hand crimping application.
NOTE: It is now possible to hand crimp small areas of the roof with a Standup Vise Lock 360 crimper. Contact the Quality Service Representative for purchase information of this tool.





MANUAL CRIMPING AT EAVE, ENDLAP, RIDGE AND AT EACH CLIP

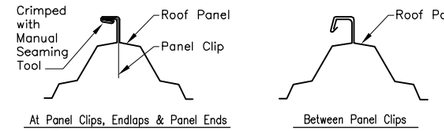
TOOL POSITION AT THE END OF THE ROOF PANEL When hand crimping at the eave or ridge end of the roof panel, crimp panel a full 12" up from the eave and down from the ridge.
TOOL POSITION AT PANEL CLIPS When crimping at a panel clip location, center the tool over the panel clip and crimp that area, as shown in Detail above.

TOOL POSITION AT AN END LAP When crimping at an end lap, the crimping must be done in two steps.
STEP 1 Center the end of the crimping tool over the end lap and seam that area.
STEP 2 Position the end of the crimping tool 3" from the edge of the end lap and seam that area to ensure that the panel clip at this location is also crimped.

CFR SEAM TYPES

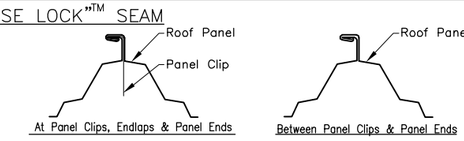
The CFR roof system has three seam type options. The project design and performance requirements govern which seam type is required. Different seam types may be required on specific areas of the roof. In all cases, refer to the Roof Seaming Plan in erection drawings set to determine the required seam type and locations.

"ROLL LOCK"™ SEAM



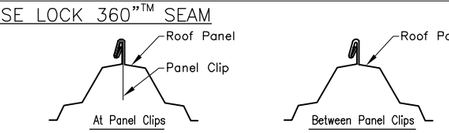
The "Roll Lock" Seam requires the roof panels be crimped with the hand crimping tool only at the panel clips, the eave, the high side of the roof panels, and the end laps. The Motorized Seaming Machine is not required for this seam type.
NOTE: Continually hand crimping along the seam will produce a Vise Lock Seam.

"VISE LOCK"™ SEAM



The "Vise Lock" seam requires crimping the roof panel with the VL Crimping Tool at the starting eave or ridge end of the panel, and at the end laps, then seaming the full length of the roof panels with the Motorized Seaming Machine. Refer to the CFR SEAMING MANUAL for specific instructions. This manual is included in the Mechanical Seamer Kit.

"VISE LOCK 360"™ SEAM



The "Vise Lock 360" seam requires that the panels be previously "Vise Lock" seamed and or hand crimped. Refer to the CFR SEAMING MANUAL for specific motorized seaming instructions. This manual is included in the Motorized Seamer Kit.
NOTE: It is now possible to hand crimp small areas of the roof with a Standup Vise Lock 360 Crimper. Contact the Quality Service Representative for purchase information of this tool.

STEP 1

STEP 2

MANUAL CRIMPING WITH THE STAND-UP VISE LOCK CRIMPER

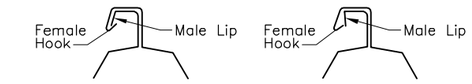
The Manual Crimping procedure for this stand-up Vise Lock crimper is the same procedure as the small Vise Lock hand crimper. This crimper is designed to be used in conjunction with the stand-up Vise Lock 360 crimper. Continunally crimping with this crimper will result in a Vise Lock Seam.

TOOL OPERATION

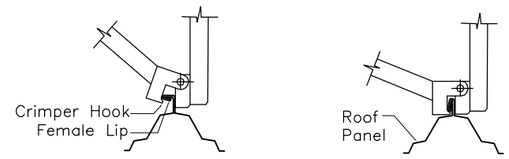
STEP 1 With the handle in the upward position, place the VL crimper on panel rib. Make sure the crimper head is completely down on the top of the panel rib before crimping. Improper placement of crimper on the panel may result in panel and/or crimper damage.

STEP 2 Push down on the handle until it stops. Release and move the crimper approximently 4" and repeat step #1.

CHECK PANEL ASSEMBLY



SIDE LAP FIT-UP
Before seaming and/or crimping, inspect the full length of each roof panel side lap. Check that the lip at the panel's male edge is enclosed by the hook of the adjacent panel's female edge, as shown in the detail above. Any conditions where the male lip is not positioned inside of the female hook must be corrected before attempting to seam/crimp the roof panels.
CAUTION: False seaming may occur where the female lip does not hook the roof panel's male edge. False seamed roof panels cannot provide their designed wind load and weather resistance.
CLIP ALIGNMENT
Before seaming and or crimping, check that each roof panel clip is properly seated in the roof side lap assembly. Any displaced clips must be corrected before attempting to seam the roof panels.
CAUTION: Panel clips that are not properly aligned can cause faulty seaming/crimping and objectionable seam appearance.
SEAM DAMAGE
Before seaming, check that the male and female edges do not have kinks or other distortions. Any such distortions must be corrected before attempting to seam the roof panels.



STEP 1

STEP 2

MANUAL CRIMPING WITH THE STAND-UP VISE LOCK 360 CRIMPER

TOOL OPERATION

Step 1 After the area has been completely seamed or crimped to form the VISE LOCK SEAM, place the VISE LOCK 360 crimper over the area with the handle in the upward position.

Step 2 Push the handle down until it stops. Release handle and move the crimper approximently 4", repeat step #1.

IMPORTANT: If the 360 tool does not form the VISE LOCK 360 seam correctly, then stop and check the seam to see if you have a good contiuous VISE LOCK SEAM. If not, then re-crimp the area with the VISE LOCK CRIMPER.

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

CANAM STEEL BUILDING CORPORATION
BOX 746509, ARVADA, CO 80006
TELEPHONE: (303) 953-3250
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PROJECT NAME:
CUSTOMER:
JOB NUMBER:
SHEET NO: H1 of 5

CFR ROOF SYSTEM ERECTION AND APPLICATION REQUIREMENTS

I. GENERAL ERECTION NOTES

1.1 UNLOADING AND STORING.

1.1.1 CHECK THE QUANTITIES AND CONDITION OF CFR BUNDLES AND TRIM CRATES ON ARRIVAL. NOTE ON THE DELIVERY TICKETS ANY SHORTAGES, DAMAGE OR DISCREPANCIES. MBS BUILDING SYSTEMS SHALL NOT BE LIABLE FOR DAMAGE OR SHORTAGES WHICH ARE NOT NOTED ON THE DELIVERY TICKETS.

1.1.2 EXTREME CARE SHOULD BE EXERCISED WHEN UNLOADING AND HANDLING THE PANEL BUNDLES AND ACCESSORY CRATES TO PREVENT DAMAGE. THE WEIGHT OF THE PANEL BUNDLE IS PRINTED ON THE BUNDLE TAG ON THE END OF EACH BUNDLE. IF THE TAG IS NOT ON THE BUNDLE, YOU MAY CALCULATE THE WEIGHT OF THE BUNDLE WITH THE FORMULA:
(QTY. OF PANELS X BUNDLE LENGTH X 2.5lbs. PER FOOT)

1.1.3 BUNDLES UP TO 25 FEET LONG CAN BE LIFTED WITH A FORKLIFT. BUNDLES OVER 25 FEET IN LENGTH SHALL BE LIFTED WITH A CRANE UTILIZING A SPREADER BAR WITH 4 INCH MINIMUM WIDTH NYLON STRAPS. STRAPS SHOULD BE 15 TO 20 FEET APART. TO AVOID DAMAGE TO THE PANELS, STEEL CABLES, CHAINS, OR CHOKERS SHALL NOT BE USED.

1.1.4 THE CFR PANELS AND ACCESSORIES SHALL BE STORED ON HIGH GROUND, SLOPED TO DRAIN, AND TARPED TO PROTECT FROM MOISTURE FORMATION. THE TARP SHOULD BE OPEN AT EACH END TO ALLOW CONSISTENT AIR FLOW THROUGH THE BUNDLES. THE RECOMMENDED PROCEDURES ARE OUTLINED IN THE CFR ERECTION MANUAL. MBS WILL NOT BE HELD RESPONSIBLE FOR DAMAGE OR DISCOLORATION OF PANELS CAUSED BY IMPROPER STORAGE.

1.2 ERECTION SEQUENCE.

1.2.1 THE CFR ROOF SYSTEM IS DESIGNED TO BE ERECTED FROM EITHER END OF THE BUILDING. IN RARE CASES, DUE TO THE BUILDING LAYOUT, IT MAY BE REQUIRED TO START ERECTION FROM A SPECIFIC END. IN THOSE CASES, THIS WILL BE NOTED AS SUCH ON THE ROOF SHEETING PLAN.

1.2.2 FULL-WIDTH PANELS ARE PROVIDED FOR START PANELS TO BE FIELD CUT TO THE PROPER WIDTH. THIS MAY CAUSE THE RIBS TO BE OUT OF ALIGNMENT ACROSS THE RIDGE.
THIS IS NORMAL PRACTICE FOR THE CFR ROOF SYSTEM AND DOES NOT AFFECT THE PERFORMANCE OF THE ROOF SYSTEM. PLEASE CHECK THE ROOF SHEETING PLAN AND DETAILS FOR DIMENSIONS OF START PANELS PRIOR TO ERECTING THE ROOF.

1.2.3 FOR BUILDINGS WITH ROOF TRANSLUCENT PANELS: IN ORDER TO ALIGN THE TRANSLUCENT PANELS ACROSS THE RIDGE, IT IS SUGGESTED TO ERECT THE ROOF PANELS ON BOTH SIDES OF THE RIDGE FROM THE SAME END OF THE BUILDING – UTILIZING THE SAME WIDTH START PANEL. PANEL RUNS WITH TRANSLUCENT PANELS HAVE BEEN PLACED AS SPECIFIED IN THE ORDER DOCUMENTS.

1.3 COORDINATION WITH OTHER TRADES.

1.3.1 SUPPORTS FOR THE CFR ROOF SYSTEM SHALL BE PROVIDED AND ARE REQUIRED AS SHOWN IN THE SECTIONS AND AS NOTED IN THESE SPECIFICATIONS. ALL NECESSARY CLEARANCE DIMENSIONS FOR PROPER ELEVATIONS RELATIVE TO THE ROOF PANELS HAVE BEEN SHOWN. THE ERECTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE DIMENSIONAL REQUIREMENTS WITH OTHER TRADES ASSOCIATED WITH THE BUILDING ROOF SYSTEM.

1.4 ERECTION CARE.

1.4.1 THE ERECTOR MUST BE SKILLED IN THE ERECTION OF METAL BUILDING SYSTEMS AND IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, FEDERAL, AND STATE CONSTRUCTION AND SAFETY REGULATIONS INCLUDING OSHA REGULATIONS AS WELL AS ANY APPLICABLE REQUIREMENTS OF LOCAL, NATIONAL, OR INTERNATIONAL UNION RULES OR PRACTICES. THE ERECTOR REMAINS SOLELY RESPONSIBLE FOR THE SAFETY AND APPROPRIATENESS OF ALL TECHNIQUES AND METHODS UTILIZED BY ITS CREWS IN THE ERECTION OF THE METAL BUILDING SYSTEM AND/OR THE CFR ROOF SYSTEM. THE ERECTOR IS ALSO RESPONSIBLE FOR SUPPLYING ANY SAFETY DEVICES SUCH AS SCAFFOLDS, RUNWAYS, NETS, ETC. WHICH MAY BE REQUIRED TO SAFELY ERECT THE METAL BUILDING SYSTEM AND/OR CFR ROOF SYSTEM.

1.4.2 THE ERECTOR OF THE CFR ROOF SYSTEM SHALL EXERCISE GREAT CARE AND ATTENTION TO THE DETAILS AS SHOWN ON THESE DRAWINGS AND IN THE CFR ERECTION MANUAL TO INSURE A SECURE AND PROPER FIT OF ALL COMPONENTS. MBS SHALL NOT BE RESPONSIBLE FOR SUPERVISING AND/OR COORDINATING THE ERECTION OF THE CFR ROOF SYSTEM WITH OTHER TRADES.

1.4.3 DUE CONSIDERATION MUST BE GIVEN BY THE ERECTOR TO THE EFFECTS OF THERMAL EXPANSION AND CONTRACTION WHEN ERECTING A ROOF TIE-IN TO AN EXISTING STRUCTURE TO INSURE A SAFE, SECURE, WEATHERTIGHT CONDITION. FLASHING FOR TIE-INS TO EXISTING BUILDINGS IS TYPICALLY NOT INCLUDED AS PART OF THE MATERIAL PROVIDED BY MBS BUILDING SYSTEMS. REFER TO THE SECTIONS AND DETAILS FOR SPECIFIC MATERIALS PROVIDED BY MBS

1.5 FIELD CUTTING OF PANELS.

1.5.1 WHEN FIELD CUTTING OR MITERING CFR ROOF PANELS, NON-ABRASIVE CUTTING TOOLS SUCH AS NIBBLERS, OR TIN-SNIPS SHALL BE USED. ABRASIVE CUTTING TOOLS SUCH AS MECHANICAL GRINDERS, SAWS, SHEARS, OR SCISSORS CAN DAMAGE THE GALVALUME FINISH AND CREATE EXCESS METAL SHAVINGS THAT CAN CORRODE THE PANELS. THE USE OF NON-APPROVED CUTTING DEVICES MAY VOID YOUR FACTORY WARRANTY.

II. DESIGN AND PERFORMANCE CRITERIA

2.1 ROOF SYSTEM.

2.1.1 THE CFR ROOF SYSTEM CONSISTS OF 24 GAGE PANELS WITH A NOMINAL COVERAGE OF 2'-0" AND A PANEL SEAM THAT IS BETWEEN 3 1/2" AND 4 1/2" HIGH DEPENDING ON CLIP TYPE USED. REFER TO THE DETAILS AND SECTIONS FOR SPECIFIC PANEL CLIP TYPE.

2.2 PANEL CLIP SPACING.

2.2.1 THE CFR ROOF SYSTEM USES A CLIP TO ATTACH THE PANELS TO THE ROOF SECONDARY MEMBERS. PANEL CLIP SPACING REQUIREMENTS ARE AS FOLLOWS:
FOR CFR ROOF ON A MBS BUILDING: CLIPS ARE REQUIRED AT EVERY PURLIN AND/OR ROOF JOIST.
FOR CFR ROOF ON A NON-MBS BUILDING: MAXIMUM CLIP SPACING IS TO BE 5'-0" FOR PURLIN ROOFS AND 5'-6" FOR JOIST ROOFS.

II. DESIGN AND PERFORMANCE CRITERIA (CONTINUED)

2.3 PANEL CLIP FASTENING REQUIREMENTS.

2.3.1 MBS STANDARD CLIP FASTENERS ARE DESIGNED TO FASTEN TO A STEEL STRUCTURAL MEMBER OF .060" MINIMUM THICKNESS (16 GA.). TWO FASTENERS ARE REQUIRED TO ENGAGE THE STRUCTURAL MEMBER AT EVERY PANEL CLIP LOCATION. REQUIRED FASTENER PULLOUT VALUES ARE DEPENDENT UPON PROJECT LOCATION, SIZE, BUILDING CODE, AND LOADING. CONSULT MBS ENGINEERING FOR PROJECT-DEPENDENT FASTENER SPECIFICATIONS.

2.4 ROOF TOP UNITS AND CURB SUPPORTS.

2.4.1 THE CFR ROOF SYSTEM IS ELEVATED ABOVE THE TOP OF THE ROOF SECONDARY STRUCTURAL MEMBERS. ROOF CURB SUB-FRAMING MUST BE ELEVATED ABOVE THE SECONDARY MEMBERS TO THE ELEVATION OF THE ROOF PANEL TO AVOID POTENTIAL LEAK PROBLEMS. REFER TO THE DETAILS FOR PROPER DIMENSIONS. SHORT ROOF CLIPS REQUIRE 1/2" OF ELEVATION, WHILE TALL ROOF CLIPS REQUIRE 1 1/2" OF ELEVATION.

2.4.2 THE CFR ROOF SYSTEM IS DESIGNED AS A FLOATING SYSTEM. CURB FRAMING AND FLASHING MUST BE DESIGNED ACCORDINGLY TO ALLOW THE CURB SYSTEM TO FLOAT WITH THE CFR ROOF DURING THERMAL EXPANSION AND CONTRACTION. ROOF CURBS SHALL NOT SPAN THE RIDGE OF A BUILDING.

2.5 INSULATION REQUIREMENTS.

2.5.1 MBS RECOMMENDS THAT INSULATION BE USED IN ALL CFR ROOF APPLICATIONS TO AVOID PROBLEMS WITH CONDENSATION FORMING ON THE UNDERSIDE OF THE SHEETING. THIS ALSO PROVIDES A BUFFER BETWEEN THE PURLINS AND THE CFR ROOF TO ELIMINATE NOISE AND POSSIBLE DAMAGE DUE TO METAL-TO-METAL CONTACT. MBS CAN SUPPLY A NOISE REDUCING FOAM TAPE FOR USE IN LIMITED APPLICATIONS (CANOPIES, ETC.) WHEN INCLUDED AS PART OF THE ROOF ORDER. REFER TO THE DETAILS FOR FOAM TAPE REQUIREMENTS.

2.6 PAINTED CFR ROOF.

2.6.1 PAINTED STANDING SEAM ROOF PANELS ARE OFTEN PROVIDED BY MBS. IN THIS CASE, THE CINCH STRAPS, COMPRESSION HOODS, GUTTER BRACKETS, END DAMS, AND OTHER ACCESSORIES WILL BE PROVIDED IN THEIR NORMAL UNPAINTED FINISH. FIELD PAINTING MAY BE REQUIRED; IF SO, PAINT IS NOT PROVIDED BY MBS.

III. COMPOSITE CFR ROOF SYSTEM

(APPLICABLE FOR COMPOSITE CFR ROOF SYSTEMS)

3.1 PRODUCT DEFINITION.

3.1.1 REFER TO THE SECTIONS AND DETAILS IN THESE DRAWINGS FOR SPECIFIC CLIP FASTENING REQUIREMENTS, INSULATION THICKNESS REQUIREMENTS AND LINER DECK TYPE.

3.1.2 COMPOSITE CFR ROOF WITHOUT THE USE OF A LINER DECK IS NOT A MBS STANDARD PRODUCT APPLICATION. DUE CONSIDERATION MUST BE GIVEN TO THE EFFECTS OF CONDENSATION BY THE ENGINEER OF RECORD OR ARCHITECT WHEN THIS OCCURS. IN ADDITION, GREAT CARE MUST BE TAKEN BY THE ERECTOR TO INSURE THAT THE ROOF SYSTEM IS ERECTED IN A SAFE, QUALITY MANNER.

3.2 VAPOR BARRIER.

3.2.1 VAPOR BARRIER MUST BE USED BETWEEN THE LINER DECKING AND THE INSULATION TO PREVENT CONDENSATION. REFER TO THE ERECTION DRAWING DETAILS.

3.3 INSULATION.

3.3.1 RIGID BOARD INSULATION CAN BE USED IN CONJUNCTION WITH A COMPOSITE CFR ROOF SYSTEM. THE RIGID BOARD INSULATION MUST BE CUT TO ALLOW FREE MOVEMENT OF THE BACK-UP PLATE AT PANEL SPLICES, SINGLE SLOPE HIGH EAVES AND RIDGE LOCATIONS.

3.3.2 UNFACED FIBERGLASS (BATT) INSULATION CAN BE USED IN CONJUNCTION WITH A COMPOSITE CFR ROOF SYSTEM.

IV. CFR ROOF COMPONENTS WITH ENGINEERING

(APPLICABLE FOR CFR ROOF COMPONENTS WITH ENGINEERING ORDERS)

4.1 COMPONENTS WITH ENGINEERING DEFINITION.

4.1.1 IN A CASE WHERE MBS IS PROVIDING THE CFR ROOF SYSTEM TO BE USED IN CONJUNCTION WITH A NON-MBS STRUCTURE, MBS REFERS TO THAT AS A "COMPONENTS WITH ENGINEERING." THIS SIMPLY MEANS THAT MBS SHALL CALCULATE THE QUANTITIES AND LENGTHS FOR THE MATERIAL REQUIRED. MBS IS PERFORMING NO ENGINEERING STUDY OF THE EXISTING STRUCTURE. THE ENGINEER OF RECORD ON THE PROJECT SHALL BE RESPONSIBLE FOR COORDINATING THE CFR ROOF SYSTEM WITH THE OTHER TRADES OF THE PROJECT TO INSURE A SAFE, QUALITY, AND PROPER APPLICATION OF THE ROOF SYSTEM.

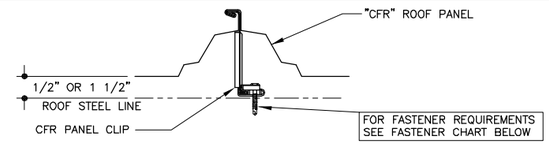
4.2 DIAPHRAGM.

4.2.1 THE MBS ROOF IS DESIGNED TO ACCOMMODATE THERMAL EXPANSION AND CONTRACTION AND WILL NOT ACT AS A DIAPHRAGM FOR RESISTING LATERAL LOAD FORCES OR PROVIDING LATERAL STABILITY TO THE ROOF STRUCTURAL MEMBERS. DUE CONSIDERATION FOR THIS MUST BE ADRESSED BY THE PROJECT ENGINEER OF RECORD. IN ADDITION, THE CFR ROOF, BECAUSE IT IS DESIGNED TO FLOAT, WILL NOT SUPPORT STRUCTURAL MEMBERS LATERALLY. WHEN REPLACING AN EXISTING SCREWDOWN ROOF, ADDITIONAL BRACING MAY BE REQUIRED TO LATERALLY SUPPORT THE MEMBERS. ENGINEERING AND MATERIAL FOR THESE USES SHALL NOT BE PROVIDED BY MBS.

4.3 CLIP FASTENING REQUIREMENTS.

4.3.1 REFER TO PART II, "DESIGN AND PERFORMANCE CRITERIA" FOR CFR ROOF PANEL CLIP FASTENING REQUIREMENTS.

CFR PANEL CLIP ATTACHMENT DETAIL



STANDARD PANEL CLIP ATTACHMENT

WITH SLIDING CLIPS, CARE MUST BE TAKEN TO NOT OVER-DRIVE THE CLIP SCREWS. OVER-DRIVING CAN STRIP THE THREADS AND/OR CAUSE THE CLIP TO NOT SLIDE PROPERLY. USE SCREW GUN WITH TORQUE CONTROL SET TO FUNCTION PROPERLY FOR THE COMBINATION OF FASTENER SIZE, HOLE SIZE, AND MATERIAL THICKNESS.

STANDARD CFR CLIP

STD. 4" CFR CLIP PART NUMBERS	
MARK #	PART DESCRIPTION
H2500	SHORT FIXED CLIP
H2510	TALL FIXED CLIP
H2520	SHORT SLIDING CLIP
H2530	TALL SLIDING CLIP

STD. CLIP FASTENER REQUIREMENTS
NON-FM JOBS
(2) FASTENERS PER CLIP H1070 AT JOISTS H1020 AT PURLINS
FM 1-60 JOBS
(2) FASTENERS PER CLIP H1070 AT JOISTS H1020 AT PURLINS
FM 1-90 THRU FM 1-120 JOBS
(2) H1070 AT JOISTS (3) H1020 AT PURLINS

CFR PERIMETER CLIP

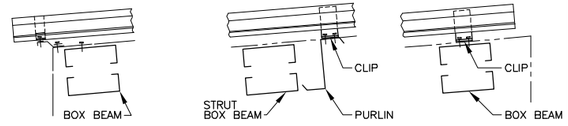
CFR PERIMETER CLIP PART NUMBERS	
MARK #	PART DESCRIPTION
H2720	SHORT SLIDING 8" CLIP
H2730	TALL SLIDING 8" CLIP
H2740	SHORT SLIDING 12" CLIP
H2750	TALL SLIDING 12" CLIP
H2760	SHORT SLIDING 16" CLIP
H2770	TALL SLIDING 16" CLIP

PERIMETER CLIP FASTENER REQUIREMENTS
PURLINS – (3) H1020
JOISTS – (2) H1070

SPECIAL CONDITON AT A COLD-FORMED BOX BEAM

IF THIS PROJECT HAS A COLD-FORMED BOX BEAM:

1) AT THE LOW EAVE, DO NOT ATTACH ROOF CLIPS TO THE BOX BEAM.
2) AT A STRUT LINE (ADJACENT TO A PURLIN), DO NOT ATTACH ROOF CLIPS TO THE BOX BEAM. (NOTE: THE STRUT LINE COULD BE AT THE HIGH EAVE).
3) AT THE HIGH EAVE, THAT IS NOT ADJACENT TO A PURLIN, DO ATTACH ROOF CLIPS TO THE BOX BEAM.



SPECIAL CONDITON AT A STRONG-BACK EAVE BEAM

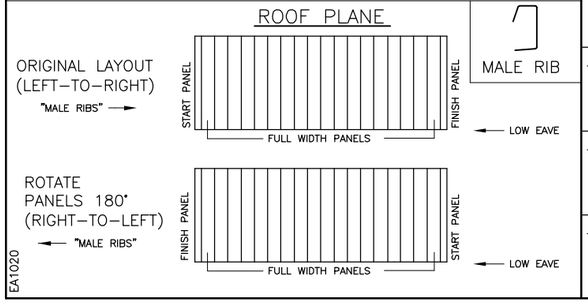
IF THIS PROJECT HAS AN EAVE BEAM WITH (2) PURLINS, AS SHOWN, DO NOT ATTACH ROOF CLIPS TO THE "SECOND" PURLIN.

ROOF SHEETING ERECTOR NOTES

1.) THE ROOF SHEETING PLAN IS SHOWN WITH THE ROOF PANELS BEING ERECTED FROM "LEFT-TO-RIGHT". IF THE DESIRE IS TO ERECT THE ROOF PANELS FROM "LEFT-TO-RIGHT", FOLLOW THE ROOF SHEETING PLAN AS SHOWN. IF THE DESIRE IS TO ERECT THE ROOF PANELS FROM "RIGHT-TO-LEFT", FOLLOW THE INSTRUCTIONS SHOWN BELOW.

2.) START & FINISH PANEL DIMENSIONS SHOWN BELOW ARE FOR EXAMPLE ONLY.

3.) WHEN SETTING BUNDLES OF PANELS ON THE ROOF, THE "MALE RIB" MUST ALWAYS BE AWAY FROM THE END OF THE BUILDING WHERE THE SHEETING WILL BEGIN.

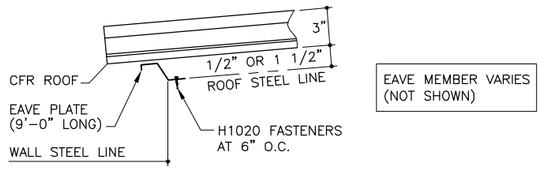


EA1020

STANDARD FASTENER SCHEDULE

H1000	17-14 x 1 1/4" WITH WASHER SELF TAPPING 3/8"ø HEAD	H1042	12-14 x 7/8" WITHOUT WASHER SELF DRILLING 5/16"ø HEAD	H1070	12-24 x 1 1/2" WITHOUT WASHER SELF DRILLING 3/8"ø HEAD 1/2" THK MAX DRILLING CAPACITY
H1020	1/4-14 x 1 1/4" WITHOUT WASHER SELF DRILLING 3/8"ø HEAD 3/16" THK MAX DRILLING CAPACITY	H1045	12-14 x 2" WITHOUT WASHER SELF DRILLING 5/16"ø HEAD	H1080	11/32" x 1 1/4" WITH WASHER GOOF SCREW SELF TAPPING 3/8"ø HEAD
H1030	12-14 x 1 1/4" WITH WASHER SELF DRILLING 3/8"ø HEAD	H1047	12-14 x 2" WITH WASHER SELF DRILLING 5/16"ø HEAD	H1100	1/8" x 3/16" STAINLESS STEEL BLIND POP RIVET
H1035	12-14 x 1 1/2" WITH WASHER SELF DRILLING 3/8"ø HEAD	H1050	12-14 x 3/4" SHARP POINT WITH WASHER SELF TAPPING 3/8"ø HEAD	H1110	3/8"ø STAINLESS GROMMET FASTENER
H1040	12-14 x 1 1/4" WITHOUT WASHER SELF DRILLING 5/16"ø HEAD	H1060	12-14 x 3/4" SHARP POINT WITHOUT WASHER SELF TAPPING 5/16"ø HEAD	H1220	12-14 x 1" WITHOUT WASHER SELF DRILLING PHILLIPS HEAD
H1041	12-14 x 1 1/4" WITH WASHER SELF DRILLING 5/16"ø HEAD	H1061	12-14 x 3/4" SHARP POINT WITH WASHER SELF TAPPING 5/16"ø HEAD		

CFR EAVE PLATE DETAIL



EAVE MEMBER VARIES (NOT SHOWN)

EAVE PLATE PART NUMBERS WITH SCULPTURED RAKE TRIM			
AT SHORT CLIPS		AT TALL CLIPS	
PART #	EAVE TRIM DETAIL	PART #	EAVE TRIM DETAIL
EPA03	SIMPLE EAVE OR EAVE GUTTER	EPB03	SIMPLE EAVE OR EAVE GUTTER
EPD01	LOW EAVE EXTENSION	EPE01	LOW EAVE EXTENSION
EPD	SCULPTURED EAVE	EPE	SCULPTURED EAVE

EAVE PLATE PART NUMBERS WITH SIMPLE EAVE & SIMPLE RAKE			
AT SHORT CLIPS		AT TALL CLIPS	
PART #	ROOF SLOPE	PART #	ROOF SLOPE
EPA03	< OR = 4:12	EPB03	< OR = 4:12
EPD01	> 4:12, < OR = 11:12	EPE01	> 4:12, < OR = 11:12
EPD02	12:12	EPE02	12:12

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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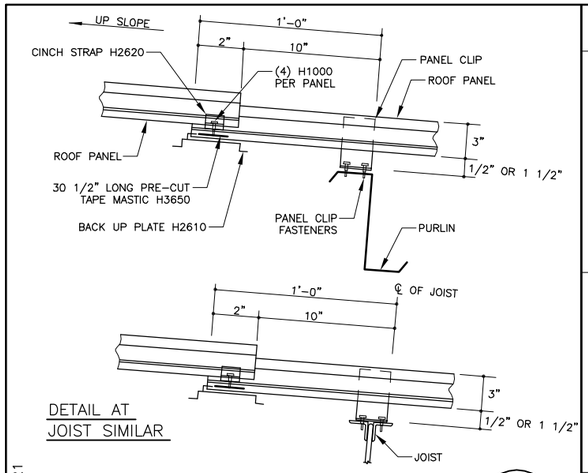
PROJECT NAME:

CUSTOMER:

JOB NUMBER:

SHEET NO:
H2 of 5



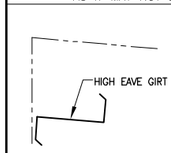
DETAIL AT JOIST SIMILAR

"CFR" PANEL SPLICE

1 H3

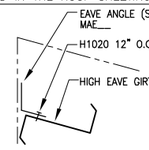
EA1021

THIS DETAIL REPRESENTS STANDARD EAVE CONDITIONS. NOT ALL OPTIONS SHOWN IN THIS DETAIL WILL BE USED ON THIS PROJECT. ENTIRE EAVE MEMBER SHOWN HERE, AS IT MAY NOT BE FULLY REPRESENTED IN THE ROOF SHEETING DETAILS.



■ HIGH EAVE GIRT

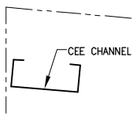
CLASSIC, CFR, COMPOSITE CFR OR VR16-II ROOF SYSTEM WITH HIGH EAVE GIRT AT A ROOF SLOPE <=1:12.



PART NUMBER	ROOF SLOPE
MAE01	1:12
MAE02	2:12
MAE03	3:12
MAE04	4:12
MAE05	5:12
MAE06	6:12

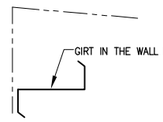
☐ HIGH EAVE GIRT

CLASSIC, CFR, COMPOSITE CFR OR VR16-II ROOF SYSTEM WITH HIGH EAVE GIRT AT A ROOF SLOPE >1:12.



☐ CEE CHANNEL

CLASSIC, CFR, COMPOSITE CFR OR VR16-II ROOF SYSTEM WITH EAVE STRUT AND OR CEE CHANNEL.



☐ GIRT IN THE WALL

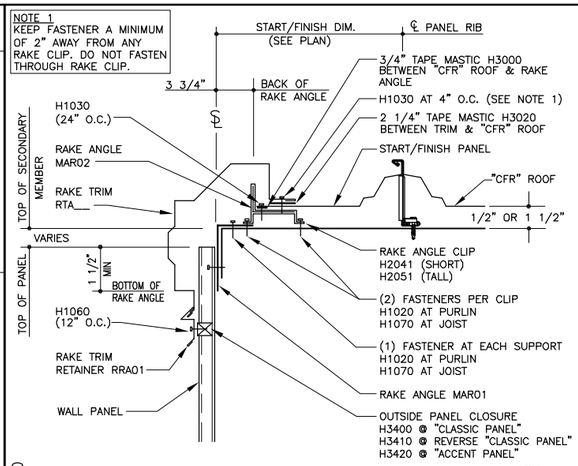
CLASSIC, CFR, COMPOSITE CFR OR VR16-II ROOF SYSTEM WITH A GIRT IN THE WALL PLANE.

DX1430, EX1430, EJX430, FX1430

SECONDARY HIGH EAVE MEMBER OPTIONS

REFER TO ROOF SHEETING AND WALL SHEETING DETAILS FOR SHEETING, TRIM AND ACCESSORY ATTACHMENTS

NOTE 1
KEEP FASTENER A MINIMUM OF 2" AWAY FROM ANY RAKE CLIP. DO NOT FASTEN THROUGH RAKE CLIP.



EE1010

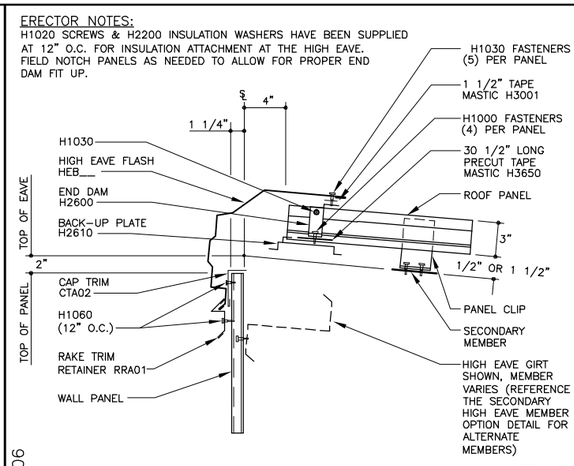
SCULPTURED RAKE DETAIL

3 H3

"CFR" ROOF

SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

ERECTOR NOTES:
H1020 SCREWS & H2200 INSULATION WASHERS HAVE BEEN SUPPLIED AT 12" O.C. FOR INSULATION ATTACHMENT AT THE HIGH EAVE. FIELD NOTCH PANELS AS NEEDED TO ALLOW FOR PROPER END DAM FIT UP.



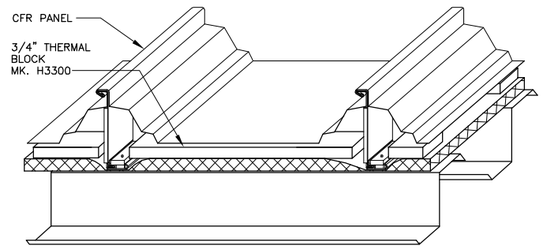
EH1006

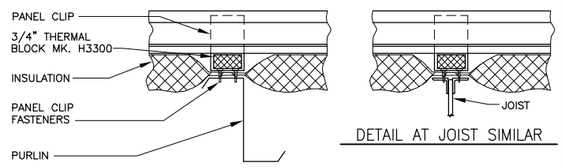
SCULPTURED HIGH EAVE DETAIL

4 H3

"CFR" ROOF

SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS





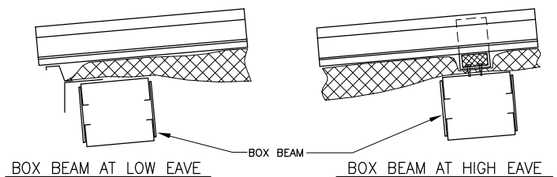
DETAIL AT JOIST SIMILAR

THERMAL BLOCK DETAIL AT TALL CFR CLIPS

5 H3

CFR ROOF WITH BATT INSULATION

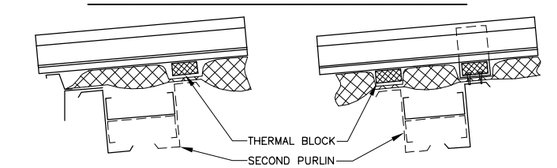
SPECIAL CONDITION AT A BOX BEAM



BOX BEAM AT LOW EAVE

BOX BEAM AT HIGH EAVE

SPECIAL CONDITION AT AN EAVE BEAM



EAVE BEAM AT LOW EAVE

EAVE BEAM AT HIGH EAVE

IF THIS PROJECT HAS AN EAVE BEAM WITH (2) PURLINS, AS SHOWN, DO NOT ATTACH ROOF CLIPS TO THE "SECOND" PURLIN. HOWEVER, THERMAL BLOCKS ARE PROVIDED FOR INSTALLATION AT THE SECOND PURLIN.

INSULATION TIE-OFF AT THE EAVES VARIES BASED ON THE EAVE CONDITION. REFER TO THE ROOF PANEL ERECTION MANUAL FOR DETAILS.

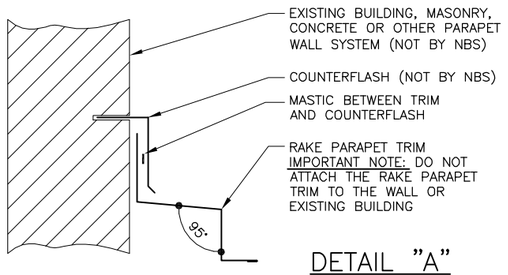
EA1022

NOTES:
ALWAYS BEGIN THE RAKE PARAPET TRIM INSTALLATION STARTING AT THE LOW EAVE AND WORK TOWARD THE HIGH EAVE OR RIDGE.

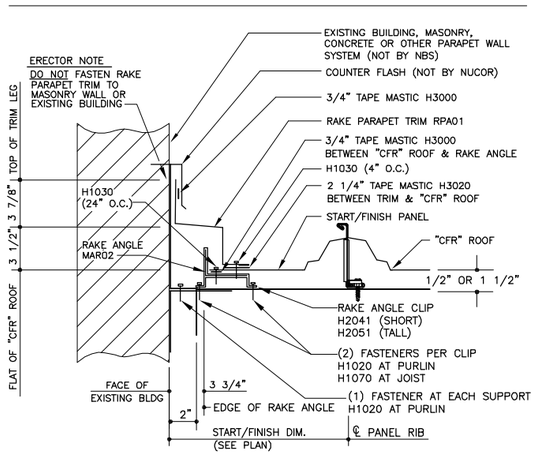
THE RAKE PARAPET TRIM IS DESIGNED TO HAVE "POSITIVE DRAINAGE" ONTO THE ROOF. THIS IS TO HELP ALLEVIATE THE POSSIBILITY OF WATER PONDING ON THE TRIM. SEE DETAIL "A" BELOW.

FASTEN THE RAKE PARAPET TRIM TO THE ROOF PANEL AT 4" ON CENTER, MAKING SURE THAT NO FASTENERS HIT ANY OF THE RAKE CLIP LOCATIONS. KEEP FASTENER A MINIMUM OF 2" AWAY FROM ANY RAKE CLIP. DO NOT ATTACH THE TRIM TO THE WALL.

REFER TO THE CFR ERECTION MANUAL FOR ADDITIONAL TRIM LAP INFORMATION AND DETAILS.



DETAIL "A"



EF1030

RAKE PARAPET DETAIL

10 H3

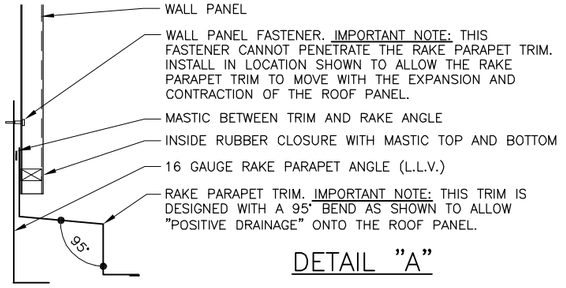
"CFR" ROOF AT MASONRY WALL OR EXISTING BUILDING

NOTES:
ALWAYS BEGIN THE RAKE PARAPET TRIM INSTALLATION STARTING AT THE LOW EAVE AND WORK TOWARD THE HIGH EAVE OR RIDGE.

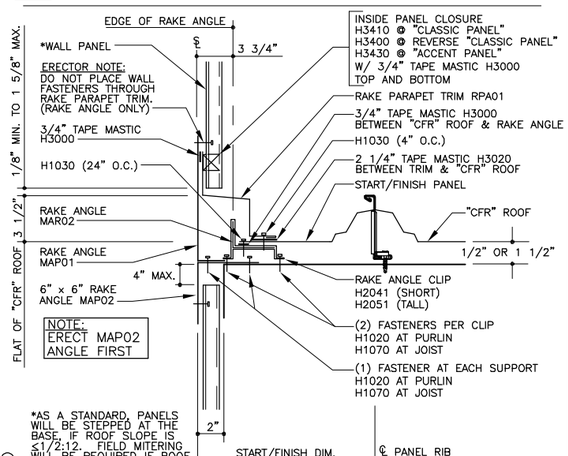
THE RAKE PARAPET TRIM IS DESIGNED TO HAVE "POSITIVE DRAINAGE" ONTO THE ROOF. THIS IS TO HELP ALLEVIATE THE POSSIBILITY OF WATER PONDING ON THE TRIM. SEE DETAIL "A" BELOW.

FASTEN THE RAKE PARAPET TRIM TO THE ROOF PANEL AT 4" ON CENTER, MAKING SURE THAT NO FASTENERS HIT ANY OF THE RAKE CLIP LOCATIONS. KEEP FASTENER A MINIMUM OF 2" AWAY FROM ANY RAKE CLIP.

REFER TO THE CFR ERECTION MANUAL FOR ADDITIONAL TRIM LAP INFORMATION AND DETAILS.



DETAIL "A"



EF1060

RAKE PARAPET DETAIL

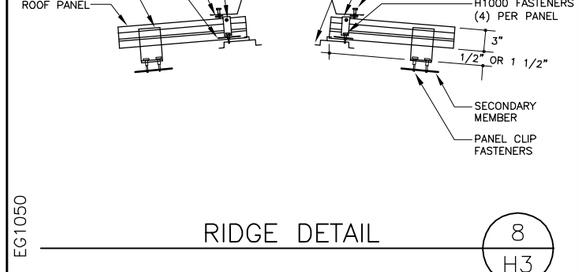
11 H3

RAFTER IN LOW BUILDING, "CFR" ROOF

SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

ERECTOR NOTE:
H1020 FASTENERS AT PURLINS/H1070 FASTENERS AT JOISTS & H2200 INSULATION WASHERS HAVE BEEN SUPPLIED AT 12" O.C. FOR INSULATION ATTACHMENT AT THE RIDGE.

RIDGE CAP OPTIONS	
ROOF SLOPE	MARK NUMBER
≤ 2:12	RGB__
> 2:12 & ≤ 4:12	RGD__



EG1050

RIDGE DETAIL

8 H3

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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CUSTOMER:

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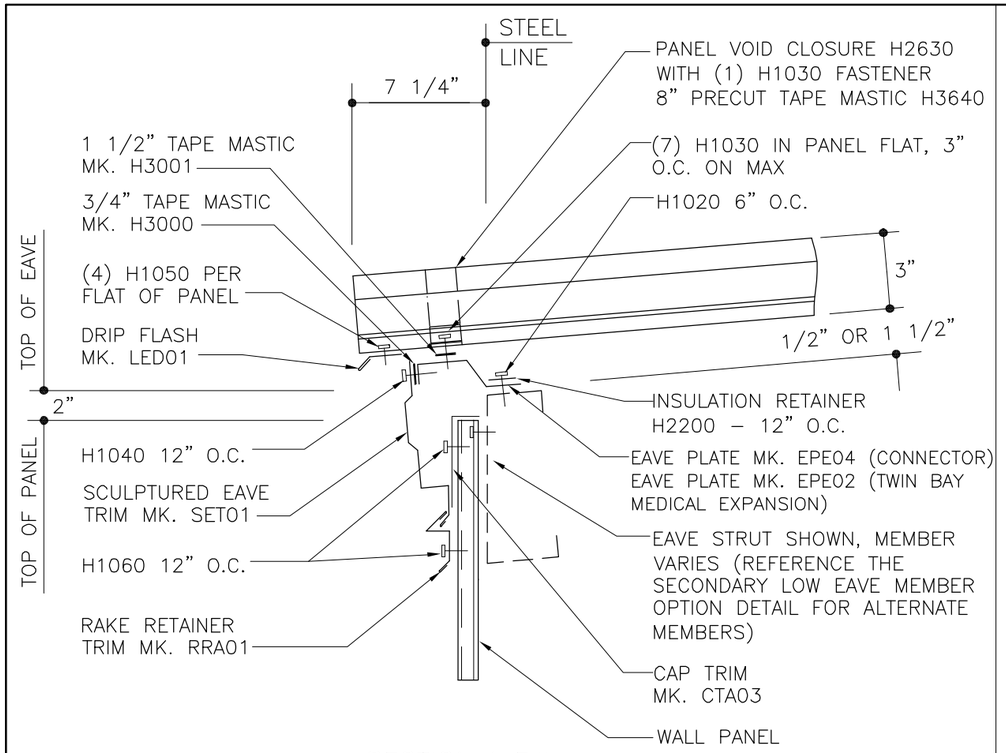
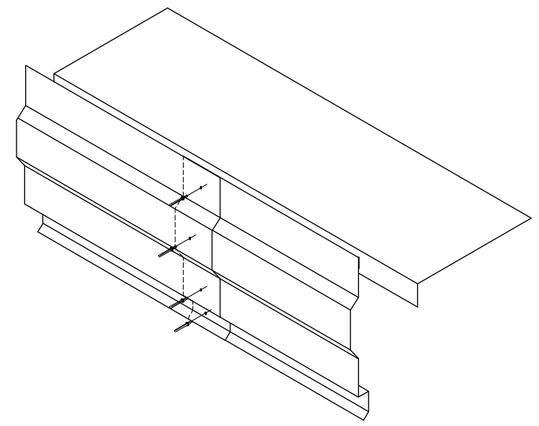
H3 of 5



SECTION VIEW



SCULPTURED EAVE TRIM SPLICE

APPLY A CONTINUOUS BEAD OF TUBE CAULK (MK. H3152) TO THE END OF THE ADJOINING TRIM PIECE AND LAP 1". FASTEN WITH (4) COLORED POP RIVETS (MK. H1100) AS SHOWN.

FOLLOW THE CFR ERECTION MANUAL WITH THE FOLLOWING EXCEPTIONS AT SCULPTURED EAVE TRIM APPLICATIONS:

1) WALL CAP TRIM MUST BE ERECTED FIRST PRIOR TO INSTALLING THE SCULPTURED EAVE TRIM.

2) EAVE PLATE AND INSULATION MUST BE FASTENED PRIOR TO INSTALLING THE SCULPTURED EAVE TRIM.

3) APPLY 3/4" TAPE MASTIC TO THE VERTICAL LEG OF THE EAVE PLATE.

4) EXTEND SCULPTURED EAVE TRIM 2 1/4" PAST ENDWALL STEEL LINE (1" PAST EDGE OF WALL CORNER TRIM). COPE BOTTOM VERTICAL LEG FLUSH WITH EDGE OF CORNER TRIM. FASTEN TRIM TO EAVE PLATE WITH H1040 12" O.C.

5) APPLY A CONTINUOUS BEAD OF TUBE CAULK (H3152) AROUND PERIMETER OF CORNER CAP, CLOSE TO INSIDE EDGE.

6) INSERT CORNER CAP INTO SCULPTURED RAKE TRIM LEAVING 1/2" EXPOSURE ALL AROUND. FASTEN WITH (3) H1100 COLORED POP RIVETS AT FRONT ONLY.

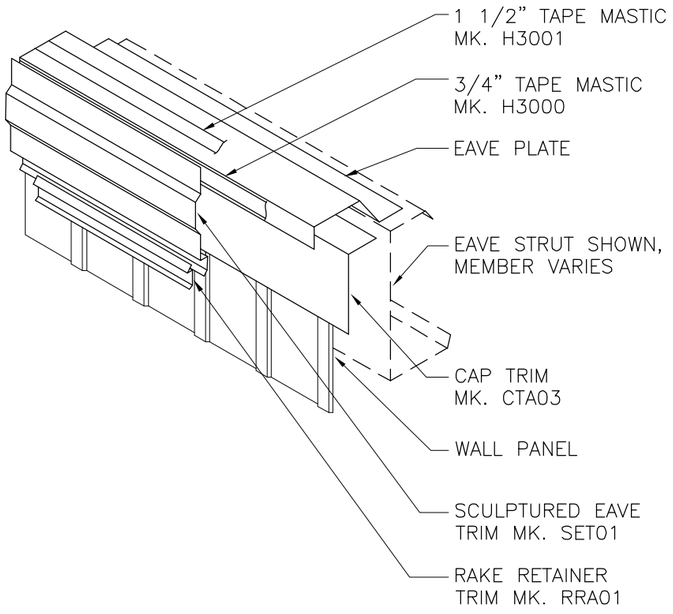
7) INSTALL THE RAKE CAP AT THE RAKE EDGE OF THE SCULPTURED EAVE TRIM AND 1/2" FROM THE FIRST VERTICAL FACE OF THE SCULPTURED EAVE (AS SHOWN AT LEFT). UTILIZE TUBE CAULK (MK. H3152) AROUND THE PERIMETER OF EDGE OF THE RAKE CAP.

8) APPLY A BEAD OF TUBE CAULK (MK. H3152) 1 1/2" FROM THE FACE OF THE EAVE TRIM ALONG THE RAKE SIDE OF THE CORNER CAP. THIS BEAD SHOULD INCLUDE BOTH THE TOP & BOTTOM EDGES OF THE CORNER CAP.

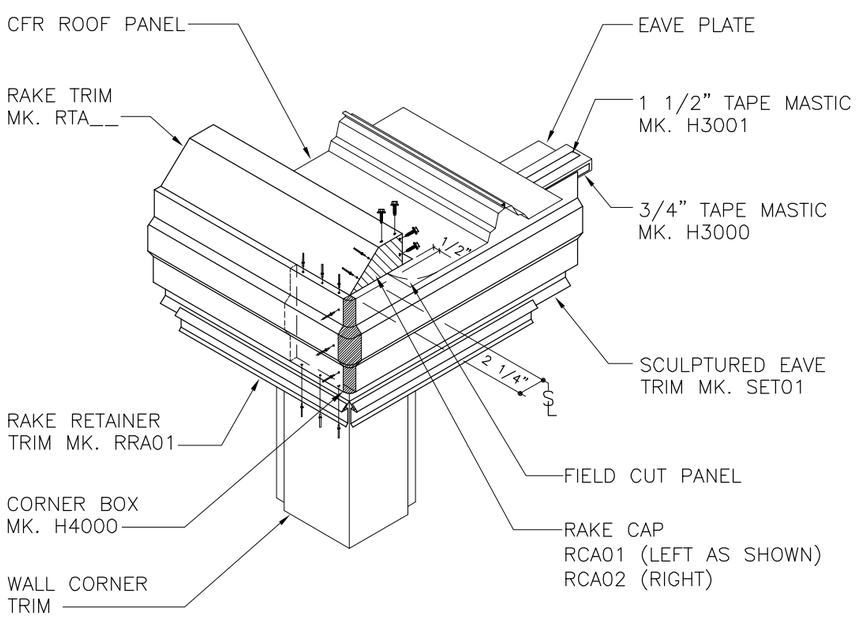
9) INSTALL THE RAKE TRIM RTA__ PER THE ERECTION MANUAL, 1/2" FROM THE FACE OF THE SCULPTURED EAVE TRIM.

10) FASTEN THE CORNER CAP AND THE RAKE CAP AS SHOWN AT LEFT, WITH (11) COLORED POP RIVETS (MK. H1100) & (4) COLORED, SELF–TAPPING SCREWS (MK. H1050).

11) INSTALL THE RAKE RETAINER TRIM PER THE ERECTION MANUAL.



ISOMETRIC VIEW AT LOW EAVE



ISOMETRIC VIEW AT CORNER

	FASTENER
	POP RIVET

SCULPTURED EAVE TRIM DETAIL

SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

12 / H4

EC1010

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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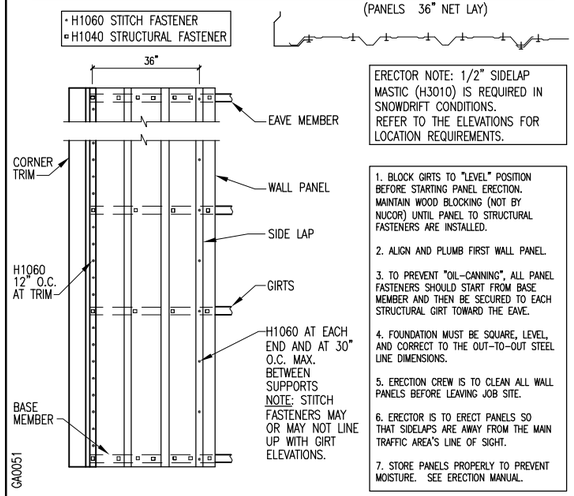
H4 of 5

"CLASSIC PANEL" ERECTION NOTES

- H1060 STITCH FASTENER
- H1040 STRUCTURAL FASTENER



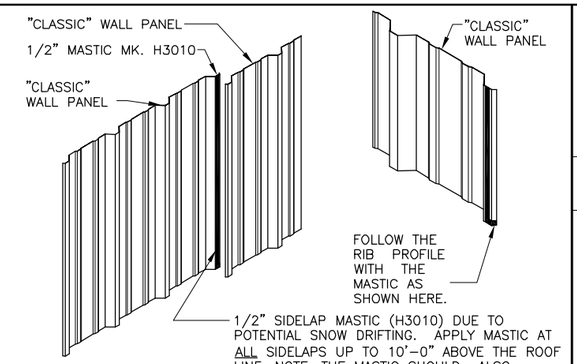
ERECTOR NOTE: 1/2" SIDELAP MASTIC (H3010) IS REQUIRED IN SNOWDRIFT CONDITIONS. REFER TO THE ELEVATIONS FOR LOCATION REQUIREMENTS.

1. BLOCK GIRTS TO "LEVEL" POSITION BEFORE STARTING PANEL ERECTION. MAINTAIN WOOD BLOCKING (NOT BY NUCOR) UNTIL PANEL TO STRUCTURAL FASTENERS ARE INSTALLED.
2. ALIGN AND PLUMB FIRST WALL PANEL.
3. TO PREVENT "OIL-CANNING", ALL PANEL FASTENERS SHOULD START FROM BASE MEMBER AND THEN BE SECURED TO EACH STRUCTURAL GIRT TOWARD THE EAVE.
4. FOUNDATION MUST BE SQUARE, LEVEL, AND CORRECT TO THE OUT-TO-OUT STEEL LINE DIMENSIONS.
5. ERECTION CREW IS TO CLEAN ALL WALL PANELS BEFORE LEAVING JOB SITE.
6. ERECTOR IS TO ERECT PANELS SO THAT SIDELAPS ARE AWAY FROM THE MAIN TRAFFIC AREA'S LINE OF SIGHT.
7. STORE PANELS PROPERLY TO PREVENT MOISTURE. SEE ERECTION MANUAL.

STANDARD FASTENER SCHEDULE

H1000	17-14 x 1 1/4" WITH WASHER SELF TAPPING 3/8"ø HEAD	H1042	12-14 x 7/8" WITHOUT WASHER SELF DRILLING 5/16"ø HEAD	H1070	12-24 x 1 1/2" WITHOUT WASHER SELF DRILLING 3/8"ø HEAD 1/2" THK MAX DRILLING CAPACITY
H1020	1/4-14 x 1 1/4" WITHOUT WASHER SELF DRILLING 3/8"ø HEAD 3/16" THK MAX DRILLING CAPACITY	H1045	12-14 x 2" WITHOUT WASHER SELF DRILLING 5/16"ø HEAD	H1080	11/32" x 1 1/4" WITH WASHER GOOF SCREW SELF TAPPING 3/8"ø HEAD
H1030	12-14 x 1 1/4" WITH WASHER SELF DRILLING 3/8"ø HEAD	H1047	12-14 x 2" WITH WASHER SELF DRILLING 5/16"ø HEAD	H1100	1/8" x 3/16" STAINLESS STEEL BLIND POP RIVET
H1035	12-14 x 1 1/2" WITH WASHER SELF DRILLING 3/8"ø HEAD	H1050	12-14 x 3/4" SHARP POINT WITH WASHER SELF TAPPING 3/8"ø HEAD	H1110	3/8"ø STAINLESS GROMMET FASTENER
H1040	12-14 x 1 1/4" WITHOUT WASHER SELF DRILLING 5/16"ø HEAD	H1060	12-14 x 3/4" SHARP POINT WITHOUT WASHER SELF TAPPING 5/16"ø HEAD	H1220	12-14 x 1" WITHOUT WASHER SELF DRILLING PHILLIPS HEAD
H1041	12-14 x 1 1/4" WITH WASHER SELF DRILLING 5/16"ø HEAD	H1061	12-14 x 3/4" SHARP POINT WITH WASHER SELF TAPPING 5/16"ø HEAD		

GA0003



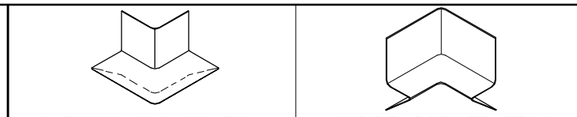
NOTE: "CLASSIC" PANEL SHOWN FOR REFERENCE ONLY. DETAIL APPLIES TO ALL PANEL TYPES.

PANEL SIDELAP DETAIL AT POTENTIAL SNOW DRIFT AREAS

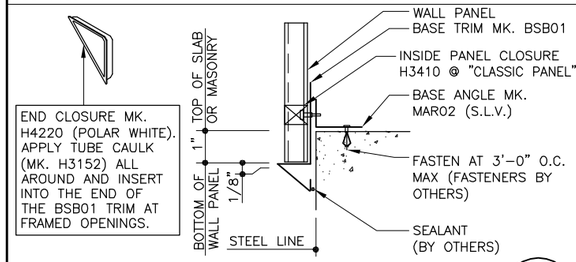
SEE WALL SHEETING ELEVATIONS FOR LOCATIONS

3 / H5

GA0001



ERECTOR NOTE:
UNTIL WALL PANELS ARE INSTALLED, (3) H1040 SCREWS ARE TO BE USED FOR TEMPORARY INSTALLATION OF THE BASE TRIM.



BASE TRIM DETAIL

BASE TRIM WITH ANGLE
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

4 / H5

GB0020

ERECTOR NOTE:
UNTIL WALL PANELS ARE INSTALLED, (3) H1040 SCREWS ARE TO BE USED FOR TEMPORARY INSTALLATION OF THE BASE TRIM.

BASE TRIM DETAIL

BASE TRIM WITH ANGLE
SEE WALL SHEETING ERECTION NOTES FOR WALL PANEL FASTENER LOCATIONS

5 / H5

GB0020

NOTE 1
FILLER TRIM MK. MFB01 (SHOWN) IS NOT REQUIRED WHERE START/FINISH DIMENSION IS LESS THAN OR EQUAL TO 3 1/2". SEE ELEVATIONS

OUTSIDE CORNER DETAIL

"CLASSIC WALL"

6 / H5

GC0021

INSIDE CORNER TRANSITION DETAIL

"CLASSIC WALL" @ MASONRY OR EXISTING BUILDING

7 / H5

GC0081

JAMB DETAIL

"CLASSIC WALL"

9 / H5

GD0020

REFER TO SECTION 8.0 OF THE WALL SHEETING ERECTION MANUAL FOR FURTHER DETAIL AND PANEL PREPARATION INFORMATION

HEADER DETAIL

FOR ALL STANDARD WALL PANEL TYPES

10 / H5

GD0040

FRAMED OPENING COVER TRIM DETAIL

SILL SHOWN, HEAD AND JAMBS SIMILAR

GD0005

ISSUE	DWN	CHK	ENG	P.E.	DATE
FINAL ERECTIONS	JSA	AGA			6-7-11

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H5 of 5