

BUILDER/CONTRACTOR RESPONSIBILITIES

STAR'S STANDARD PRODUCT SPECIFICATIONS APPLY AND UNLESS STIPULATED OTHERWISE IN THE ORDER DOCUMENTS, STAR'S DESIGN, FABRICATION, QUALITY CRITERIA STANDARDS AND TOLERANCES WILL GOVERN.

THE BUILDER/CONTRACTOR OR A/E FIRM IS RESPONSIBLE FOR OVERALL PROJECT COORDINATION. THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR ERECTION OF STEEL AND ALL ASSOCIATED WORK IN COMPLIANCE WITH STAR DRAWINGS. TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSE WORK OR OTHER ELEMENTS REQUIRED FOR ERECTION WILL BE DETERMINED, FURNISHED AND INSTALLED BY THE BUILDER/CONTRACTOR. ALL INTERFACE AND COMPATIBILITY OF ANY MATERIALS NOT FURNISHED BY STAR ARE THE RESPONSIBILITY OF AND TO BE COORDINATED BY THE BUILDER/CONTRACTOR OR A/E FIRM. UNLESS SPECIFIC DESIGN CRITERIA CONCERNING ANY INTERFACE BETWEEN MATERIALS IS FURNISHED AS PART OF THE ORDER DOCUMENTS, STAR ASSUMPTIONS WILL GOVERN. WHERE DISCREPANCIES EXIST BETWEEN STAR DRAWINGS AND THE PLANS OF OTHER TRADES, STAR DRAWINGS SHALL GOVERN. THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL OTHER PROJECT PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE REQUIREMENTS OF ANY GOVERNING BUILDING AUTHORITIES. THE BUILDER/CONTRACTOR MUST SECURE ALL REQUIRED APPROVALS AND PERMITS FROM THE APPROPRIATE AGENCY AS REQUIRED.

THESE DRAWINGS, SUPPORTING STRUCTURAL CALCULATIONS AND DESIGN CERTIFICATION ARE BASED ON ORDER DOCUMENTS AS OF THE DATE OF THESE DRAWINGS. THESE DOCUMENTS SHALL DESCRIBE THE MATERIAL SUPPLIED BY STAR BUILDING SYSTEMS AS OF THE DATE OF THESE DRAWINGS. ANY CHANGES TO THE ORDER DOCUMENTS AFTER THIS DATE WILL VOID THESE DRAWINGS, SUPPORTING STRUCTURAL CALCULATIONS AND DESIGN CERTIFICATION. THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE GOVERNING BUILDING AUTHORITY OF ALL CHANGES TO THE ORDER DOCUMENTS WHICH RESULT IN CHANGES TO THE DRAWINGS, SUPPORTING STRUCTURAL CALCULATIONS AND DESIGN CERTIFICATION.

THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR APPLYING AND OBSERVING ALL PERTINENT SAFETY RULES AND REGULATIONS AND OSHA STANDARDS AS APPLICABLE.

SUPPLYING DESIGN DATA AND DRAWINGS SEALED BY A LICENSED ENGINEER, FOR MATERIALS SUPPLIED BY STAR, DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT STAR OR ANY OF ITS AGENTS OR EMPLOYEES IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR THE CONSTRUCTION PROJECT. NEITHER STAR NOR ANY OF ITS AGENTS OR EMPLOYEES IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR THE CONSTRUCTION PROJECT. THESE DRAWINGS AND DESIGN DATA ARE SEALED AS CERTIFICATION THAT THE MATERIALS FURNISHED BY STAR ARE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE ORDER DOCUMENTS. DESIGN CONSIDERATIONS OF ANY MATERIALS NOT FURNISHED BY STAR AND FOR THE OVERALL PROJECT ARE THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR AND DESIGN PROFESSIONALS OTHER THAN STAR UNLESS SPECIFICALLY INDICATED OTHERWISE.

APPROVAL OF STAR DRAWINGS AND DESIGN DATA AFFIRMS THAT STAR HAS CORRECTLY INTERPRETED AND APPLIED THE REQUIREMENTS OF THE ORDER DOCUMENTS AND CONSTITUTES BUILDER/CONTRACTOR'S ACCEPTANCE OF STAR'S INTERPRETATION OF THE ORDER DOCUMENTS AND OF STAR'S STANDARD PRODUCT SPECIFICATIONS, INCLUDING ITS DESIGN, FABRICATION, AND QUALITY CRITERIA STANDARDS AND TOLERANCES.

MASONRY AND TILT-UP CONCRETE WALLS BY OTHERS ARE PRESUMED TRUE, PLUMB AND LEVEL.

THE BUILDER/CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF ALL SHIPMENTS RECEIVED. SHORTAGES MUST BE REPORTED TO STAR WITHIN 30 DAYS OF DELIVERY.

WHERE SHOWN IN STAR'S STRUCTURAL CALCULATIONS, LATERAL STABILITY OF ENDWALLS AND LONGITUDINAL STABILITY OF SIDEWALLS RELY ON DIAPHRAGM ACTION OF THE WALL PANELS PROVIDED BY STAR. REMOVAL OF THESE WALL PANELS CAN RESULT IN LESS THAN THE MINIMUM LENGTH OF WALL PANELS REQUIRED AND WILL VOID ALL WARRANTIES AND CERTIFICATIONS SUPPLIED BY STAR AS THEY APPLY TO THIS CONDITION. THE FIELD INSTALLATION OF X-BRACING OR OTHER MEANS TO PROVIDE LATERAL STABILITY MAY BE REQUIRED AS A RESULT OF THE REMOVAL OF WALL PANELS.

MATERIALS

MATERIAL PROPERTIES OF STEEL BAR, PLATE AND SHEET USED IN THE FABRICATION OF BUILT-UP PRIMARY AND SECONDARY STRUCTURAL FRAMING MEMBERS CONFORM TO ASTM A529, ASTM A572, ASTM A1011 SS, OR ASTM A1011 HSLAS WITH A MINIMUM YIELD POINT OF 50 KSI.

MATERIAL PROPERTIES OF HOT ROLLED STRUCTURAL SHAPES CONFORM TO ASTM A992, ASTM A529, OR ASTM A572 WITH A MINIMUM SPECIFIED YIELD POINT OF 50 KSI. HOT ROLLED ANGLES, OTHER THAN FLANGE BRACES, CONFORM TO ASTM A36 MINIMUM.

HOLLOW STRUCTURAL SHAPES CONFORM TO ASTM A500 GRADE B. MINIMUM YIELD POINT IS 42 KSI FOR ROUND HSS AND 46 KSI FOR RECTANGULAR HSS.

MATERIAL PROPERTIES OF COLD-FORMED LIGHT GAGE STEEL MEMBERS CONFORM TO THE REQUIREMENTS OF ASTM A1011 SS GRADE 55, OR ASTM A1011 HSLAS CLASS 1 GRADE 55, WITH A MINIMUM YIELD POINT OF 55 KSI.

SPECIFICATIONS

MATERIALS SUPPLIED BY STAR BUILDING SYSTEMS FOR THIS BUILDING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ORDER DOCUMENTS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS SUCH AS, BUT NOT LIMITED TO, CUTTING OR REMOVAL OF GIRTS, ROD BRACING, OR FLANGE BRACES SHOWN ON THESE ERECTION DRAWINGS OR THE ADDITION OF OTHER CONSTRUCTION MATERIAL OR LOADS WILL VOID ALL WARRANTIES AND CERTIFICATIONS SUPPLIED BY STAR AS THEY APPLY TO THIS CONDITION. ANY STRUCTURAL FIELD MODIFICATIONS MUST BE UNDER THE DIRECTION OF A LICENSED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER. STAR BUILDING SYSTEMS WILL ASSUME NO RESPONSIBILITY FOR LOADS OTHER THAN THOSE SPECIFIED IN THE ORDER DOCUMENTS.

MATERIALS HAVE BEEN DESIGNED WITH STAR BUILDING SYSTEMS' STANDARD DESIGN PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES:

AMERICAN INSTITUTE OF STEEL CONSTRUCTION: "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", ALLOWABLE STRESS DESIGN.
AMERICAN IRON AND STEEL INSTITUTE: "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", ALLOWABLE STRESS DESIGN.
THE BUILDING CODE AS SPECIFIED ON THE ENGINEERING DESIGN CRITERIA SHEET.
METAL BUILDING MANUFACTURER'S ASSOCIATION: "LOW RISE BUILDING SYSTEMS MANUAL".

STAR BUILDING SYSTEMS LOCKEFORD, CA PLANT HAS BEEN ISSUED A CERTIFICATE OF APPROVAL NUMBER 11B3 BY THE DEPARTMENT OF BUILDING AND SAFETY OF THE CITY OF LOS ANGELES AS AN APPROVED FABRICATOR OF STRUCTURAL STEEL.

ALL STAR PLANTS ARE ACCREDITED BY THE INTERNATIONAL ACCREDITATION SERVICE (IAS) UNDER THEIR FABRICATOR INSPECTION PROGRAM. ACCREDITATION NUMBERS ARE FA-277 FOR THE LOCKEFORD, CA PLANT, FA-175 FOR THE MONTICELLO, IA PLANT, AND FA-407 FOR THE ELIZABETHTON, TN PLANT. SPECIAL INSPECTIONS ARE NOT REQUIRED, PER 1701.7 OF THE 1997 UNIFORM BUILDING CODE, AND 1704.2.2 OF THE 2000 INTERNATIONAL BUILDING CODE.

STAR BUILDING SYSTEMS FACILITIES AT OKLAHOMA CITY, OK, LOCKEFORD, CA, MONTICELLO, IA, AND ELIZABETHTON, TN ARE CERTIFIED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION IN CATEGORY MB.

ALL WELDING IS PERFORMED IN ACCORDANCE WITH AWS D1.1. UNLESS OTHERWISE CALLED FOR ON THE ORDER DOCUMENTS.

UNLESS NOTED ON THE ERECTION DRAWINGS, NO FIELD WELDING IS REQUIRED. WHERE FIELD WELDING IS SPECIFIED THE BUILDER/CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE METHODS AND PROCEDURES TO FULFILL WELD REQUIREMENTS. STAR BUILDING SYSTEMS IS NOT RESPONSIBLE FOR WELDMENT SURFACE PREPARATION EXCEPT AS SPECIFIED IN THE ORDER DOCUMENTS.

INSPECTION/JOBSITE

SPECIAL SHOP AND ALL FIELD INSPECTIONS AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR UNLESS SPECIFIED OTHERWISE IN THE ORDER DOCUMENTS.

FIELD INSPECTION MAY BE SPECIFIED BY THE APPLICABLE BUILDING CODE AND/OR THE STATE OR LOCAL JURISDICTION, NOT BY STAR.

STAR BUILDING SYSTEMS IS NOT RESPONSIBLE FOR GENERAL SITE SUITABILITY, JOB SITE INSPECTION, OR ERECTION MONITORING. SITE SPECIFIC CONDITIONS ARE THE RESPONSIBILITY OF THE BUILDER/CONTRACTOR.

ENGINEERING DESIGN CRITERIA

BUILDING CODE
BUILDING END USE
CLASSIFICATION OF BUILDING

IBC 2003
COMMERCIAL
STANDARD
CATEGORY 11

IMPACT LOADS

NONE

DEAD LOAD (STAR MATERIAL)
(AVERAGE WEIGHT OF PANELS + PURLINS)
COLLATERAL LOADS

4.0 PSF
3.0 PSF (TOTAL)
0.0 PSF

SPRINKLER
CEILING (NON-PLASTER)
LIGHTS
OTHER

0.0 PSF
0.0 PSF
0.0 PSF
3.0 PSF

FIXED SERVICE EQUIPMENT
DESIGNED ROOF LIVE LOAD
FRAMES

NONE
30.0 PSF (PURLINS)

SPECIAL PATTERN LIVE LOAD COMBINATION

DL + COLLATERAL + 20.0 PSF LIVE LOAD

SPECIAL UNIFORM LIVE LOAD COMBINATION

DL + COLLATERAL + 30.0 PSF LIVE LOAD

GROUND SNOW LOAD

30.0 PSF

SNOW EXPOSURE FACTOR

1.0 PARTIALLY EXPOSED

THERMAL FACTOR

1.0 HEATED

IMPORTANCE FACTOR, SNOW

1.0

ROOF SNOW LOAD

21.0 PSF

SLOPE FACTOR

1.0

SLOPED ROOF SNOW LOAD

21.0 PSF

WIND SPEED

90.0 MPH, 3 SECOND GUST

IMPORTANCE FACTOR, WIND

1

WIND EXPOSURE

B

BUILDING DESIGNED

ENCLOSED

INTERNAL PRESSURE COEFFICIENTS

0.18 +/- GCPI

SEISMIC ACCELERATION VALUES

SS = 27.40% GRAVITY

S1 = 9.30% GRAVITY

D

SOIL SITE CLASS

SEISMIC DESIGN PARAMETERS

SDS = 0.29

SD1 = 0.15

IMPORTANT FACTOR, SEISMIC

1

SEISMIC DESIGN CATEGORY

C

ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
BASIC SEISMIC FORCE RESISTING SYSTEM (NOT SPECIFICALLY DETAILED FOR SEISMIC)
THE FOLLOWING SEISMIC FORCE RESISTING SYSTEMS ARE USED:
ORDINARY STEEL MOMENT FRAMES (R=3, CS=0.09) AT COLUMN LINES 1-6
ORDINARY STEEL BRACED FRAMES (R=3, CS=0.09) AT COLUMN LINES 7
ORDINARY STEEL BRACED FRAMES (R=3, CS=0.09) AT SIDEWALLS A,C

DEFLECTION NOTES

THE MATERIAL SUPPLIED BY STAR HAS BEEN DESIGNED WITH THE FOLLOWING MINIMUM DEFLECTION CRITERIA. THE ACTUAL DEFLECTION MAY BE LESS DEPENDING ON ACTUAL LOAD AND ACTUAL MEMBER LENGTH. THE FRAME SIDESWAY FOR WIND LOADING IS BASED ON A 10 YEAR MEAN OCCURRENCE WIND INTERVAL.

ROOF PURLINS

LIVE _____ L / 240

SNOW _____ L / 240

WIND _____ L / 240

TOTAL GRAVITY_L / 240

WALL PANELS

TOTAL WIND _____ L / 60

WALL GIRTS

TOTAL WIND _____ L / 90

ENDWALL COLUMNS

TOTAL WIND _____ L / 90

FRAME/PORTAL FRAME SIDESWAY

FRAME LIVE _____ H / 60

FRAME SNOW _____ H / 60

FRAME WIND _____ H / 60

FRAME SEISMIC _____ H / 50

FRAME CRANE _____ H / NA

FRAME TOTAL WIND _____ H / 60

FRAME TOTAL SEISMIC _____ H / 50

FRAME TOTAL GRAVITY _____ H / 60

PORTAL TOTAL WIND _____ H / NA

PORTAL TOTAL SEISMIC _____ H / NA

ALL DEFLECTION AND SIDESWAY LIMITS SHOWN ARE AT SERVICE LOADS UNLESS INDICATED OTHERWISE.

BUILDING DESCRIPTION

NOMINAL SIZE: WIDTH LENGTH EAVE HEIGHT ROOF SLOPE
(LOW SIDE)

BUILDING "A" 240'-0 X 300'-0 X 28'-0 1:12

GENERAL NOTES

- 1) ROOF PANEL 24 GA. MBCI DOUBLE-LOK --- GALVALUME/ALUMZINC
- 2) CANOPY ROOF PANEL 26 GA. DURA-RIB --- GALVALUME/ALUMZINC
- 3) WALL PANEL 26 GA. DURA-RIB --- HAWAIIAN BLUE
- 4) EAVE GUTTER 26 GA. --- POLAR WHITE
- 5) DOWNSPOUT 26 GA. --- POLAR WHITE
- 6) EAVE FLASH 26 GA. --- POLAR WHITE
- 7) GABLE FLASH 26 GA. --- POLAR WHITE
- 8) ALL OTHER FLASH 26 GA. --- HAWAIIAN BLUE

ENGINEERING NOTES

"BRACING SIZE" AS NOTED ON ENGINEERING DOCUMENTS AND ERECTION DRAWINGS DENOTES THREAD DIAMETER FOR ROD BRACING AND WIRE STRAND CABLE DIAMETER FOR WIRE STRAND CABLE BRACING.

ALL BOLTED JOINTS WITH A325 TYPE 1 BOLTS ARE SPECIFIED AS SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, JUNE 23, 2000". PRETENSIONING METHODS, INCLUDING TURN-OF-NUT AND CALIBRATED WRENCH ARE NOT REQUIRED.

THE MATERIAL SUPPLIED BY STAR BUILDING SYSTEMS HAS BEEN DESIGNED FOR A UNIFORM LIVE LOAD OF 30.0 PSF AND A PATTERN LIVE BASED ON 20.0 PSF.

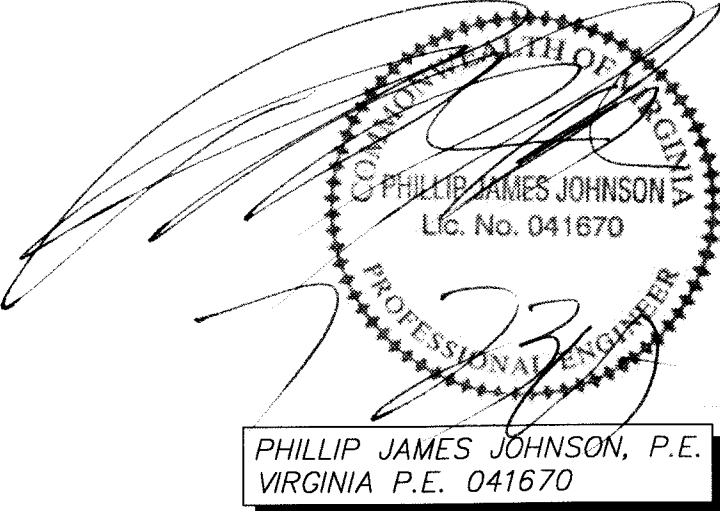
STAR IS NOT RESPONSIBLE FOR SNOW ACCUMULATION LOADS IMPOSED ON THE EXISTING STRUCTURE DUE TO DRIFTING, SLIDING SNOW AND UNBALANCED SNOW LOADINGS.

THE MATERIAL SUPPLIED BY STAR BUILDING SYSTEMS IS NOT DESIGNED TO RESIST ANY VERTICAL, LATERAL OR LONGITUDINAL LOADING FROM THE EXISTING STRUCTURE BY OTHERS.

THE EXPANDABLE FRAME AT BUILDING "A" AT GRID LINE "1" HAS BEEN DESIGNED FOR A FUTURE EXPANSION WITH A MAXIMUM DISTANCE OF 50'0 FT. BETWEEN CENTERLINE OF FRAME IN ENDWALL AND FUTURE FRAME

WIND LOADS FOR COMPONENTS NOT PROVIDED BY BUILDING MANUFACTURER		INTERIOR ZONE		END ZONE	
OPENING SIZE (FT)	AREA (SQ FT)	SUCTION COEF.	PRESSURE COEF.	SUCTION COEF.	PRESSURE COEF.
3	3	-1.28	1.18	-1.58	1.18
		-15.79	14.56	-19.49	14.56
3	7	-1.23	1.13	-1.46	1.13
		-15.14	13.91	-18.05	13.91
6	7	-1.17	1.07	-1.36	1.07
		-14.49	13.25	-16.74	13.25
8	10	-1.13	1.03	-1.26	1.03
		-13.88	12.65	-15.52	12.65
10	12	-1.09	0.99	-1.20	0.99
		-13.50	12.26	-14.76	12.26
12	14	-1.07	0.97	-1.14	0.97
		-13.18	11.95	-14.12	11.95
14	16	-1.05	0.95	-1.10	0.95
		-12.91	11.68	-13.58	11.68
16	20	-1.02	0.92	-1.05	0.92
		-12.57	11.34	-12.90	11.34
20	25	-0.98	0.88	-0.98	0.88
		-12.09	10.86	-12.09	10.86

- NOTES:
1. ABOVE VALUES ARE BASED ON WIND ENCLOSURE AS ENCLOSED
 2. IF ROOF SLOPE IS LESS THAN 10 DEGREES, VALUES MAY BE REDUCED 10%.
 3. ENDZONE IS DEFINED 11.2 FT FROM BUILDING CORNERS.
 4. COEF. IS RESULTANT OF [GCP-GCPI].
 5. THE SIZES SHOWN ARE TYPICAL SIZES AND MAY NOT BE PRESENT.
 6. FOR SIZES NOT SHOWN, CHOOSE A SIZE WITH SMALLER AREA.
 7. ALL DOORS, WINDOWS, AND OTHER ACCESSORIES NOT SUPPLIED BY THE BUILDING MANUFACTURER SHALL BE DESIGNED TO WITHSTAND THE APPLICABLE WIND LOADS AND ARE NOT CONSIDERED AS OPENINGS WHEN DETERMINING IF THE BUILDING IS ENCLOSED.



THESE DRAWINGS AND THE METAL BUILDING THEY REPRESENT ARE THE PRODUCT OF STAR BUILDING SYSTEMS OR A DIVISION OF ITS AFFILIATE NO BUILDING SYSTEMS - 8600 SOUTH INTERSTATE 35, OKLAHOMA CITY OK 73149. THE ENGINEER WHOSE SEAL APPEARS HEREON IS EMPLOYED BY EITHER STAR BUILDING SYSTEMS OR A DIVISION OF ITS AFFILIATE NO BUILDING SYSTEMS AND IS NOT THE ENGINEER OF RECORD FOR THIS PROJECT.

FINAL DRAWING



STAR BUILDING SYSTEMS

A RobertsonCeco Company

BUILDER: PRICE BUILDINGS INC

ROCKY MOUNT, VA

CUSTOMER: CHIP LAWRENCE

ROANOKE, VA

JOB NO.

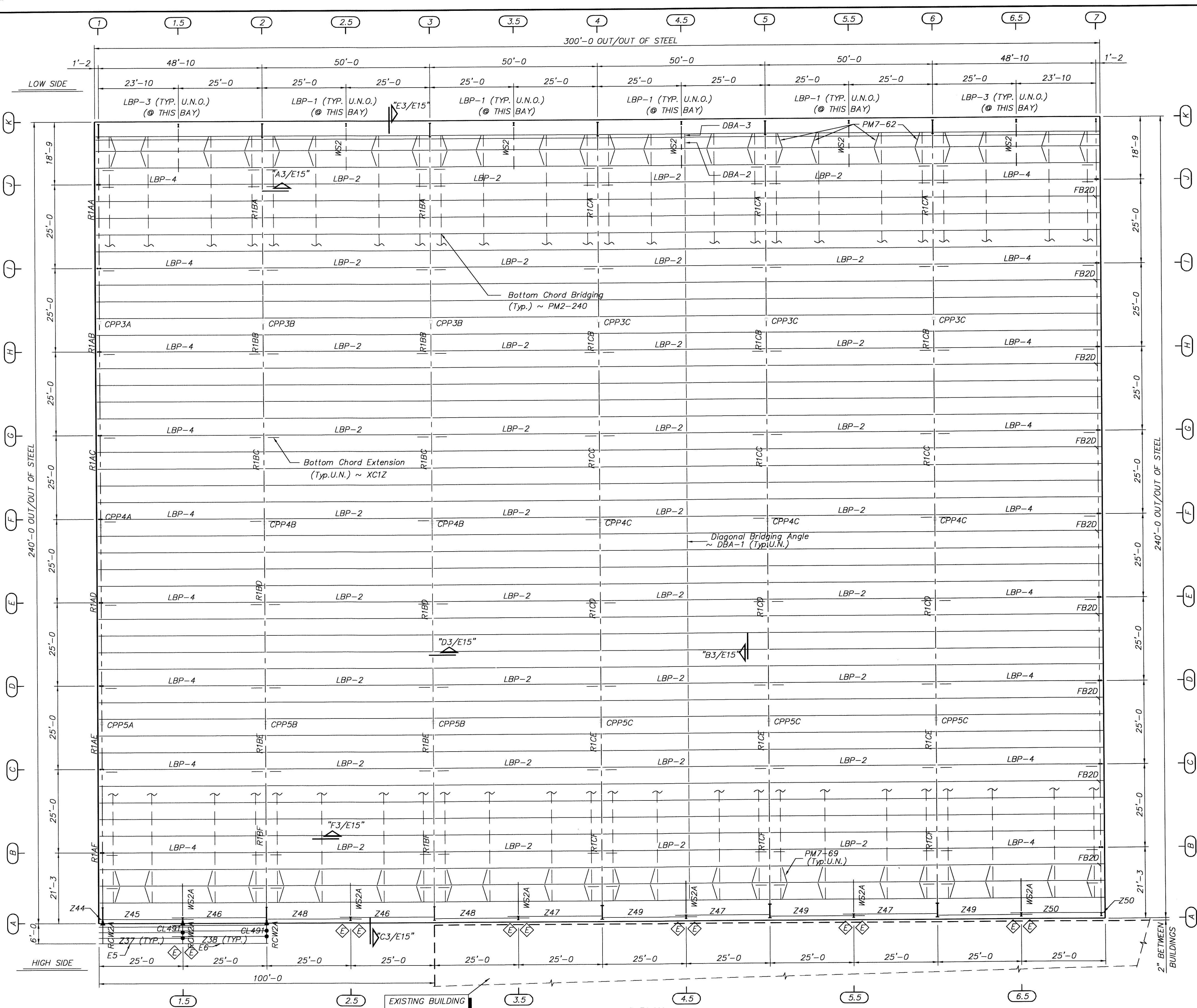
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MEMBER

MBMA

DRAWING NO.

E1



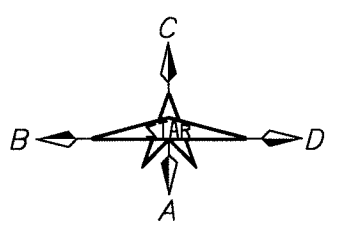
LBP_ DENOTES: LONG BAY PURLIN
BOLT AND FIELD WELD TO RAFTER

NOTE:
* SEE SHT. E15 FOR LONG BAY PROFILE.
* SEE SHT. E15 FOR LOCATIONS OF BOTTOM
CHORD BRIDGING, DIAGONAL BRIDGINGS...

PHILLIP JAMES JOHNSON, P.E.
VIRGINIA P.E. 041670

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INTERSTATE 35, OKLAHOMA CITY, OK 73149. THE ENGINEER
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FOR THIS PROJECT.

FINAL DRAWING

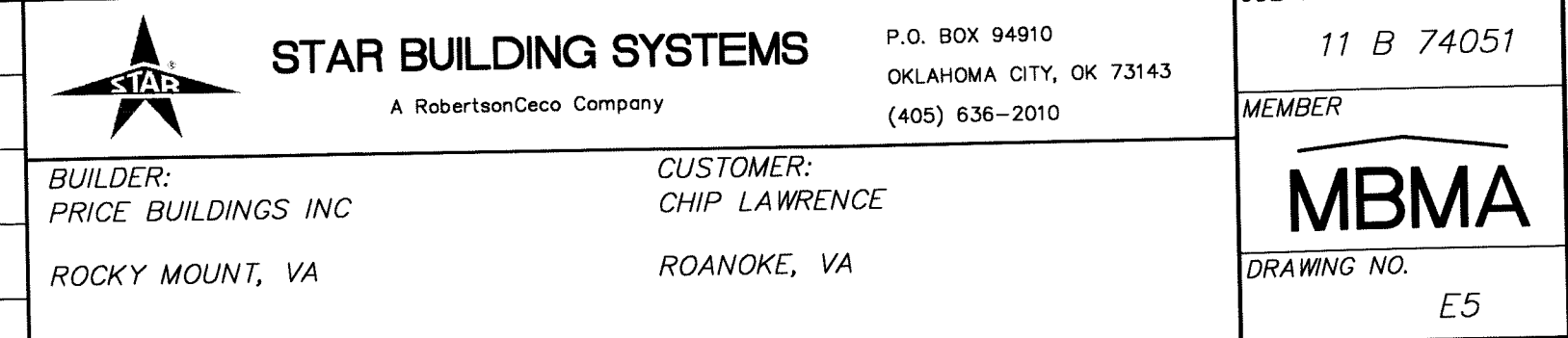


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2. THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING MATERIALS FOR THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE STAR ERECTION GUIDES, AND INDUSTRY STANDARDS.

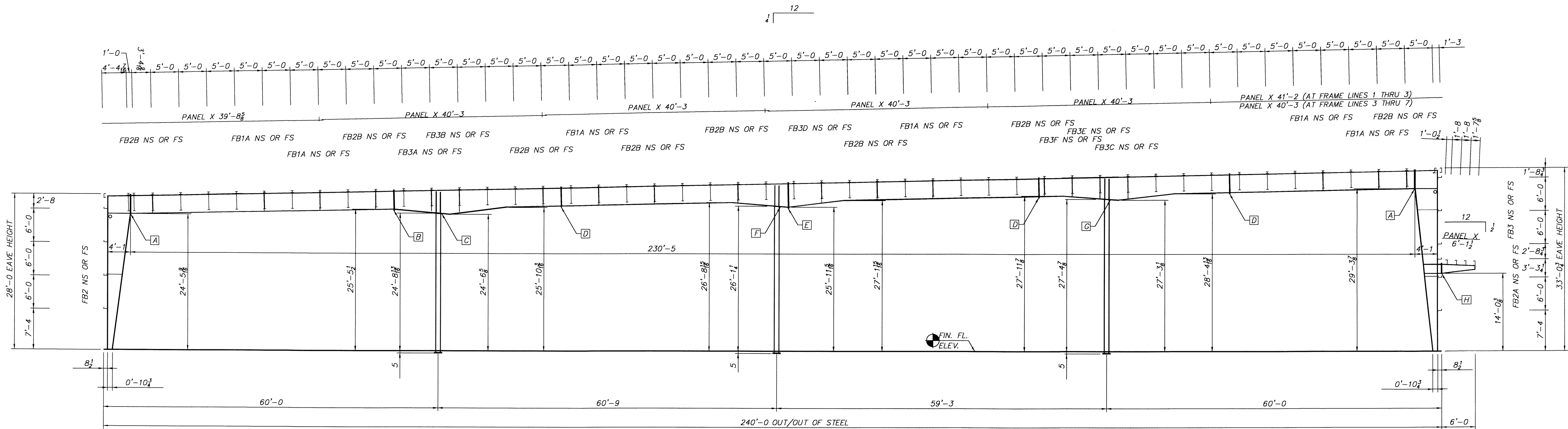
FINAL DRAWINGS FOR PHASE "1"	BKR	07/23/07

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TEK	7/23/07
NOT TO SCALE	

STAR BUILDING SYSTEMS A RobertsonCeco Company		P.O. BOX 94910 OKLAHOMA CITY, OK 73143 (405) 636-2010
BUILDER: PRICE BUILDINGS INC ROCKY MOUNT, VA		CUSTOMER: CHIP LAWRENCE ROANOKE, VA
JOB NO. 11 B 74051 (0075414)		MEMBER MBMA DRAWING NO. E3



GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND
MAY VARY DUE TO CONDITIONS (DEFLECTION).
VERTICAL CLEARANCE DIMENSIONS ARE FROM
FINISHED FLOOR REFERENCE ELEVATION.



CROSS SECTION AT FRAME LINE "1"
PHASE 1

WALL SHEETING ~ PHASE 2

FLANGE BRACES	
PIECE MARK	MATERIAL
FB1_	ANGLE 1 1/4" X 1 1/4" X 3/8"
FB2_	ANGLE 2" X 2" X 3/8"
FB3_	ANGLE 2 1/2" X 2 1/2" X 3/8"

SPlice BOLT TABLE				
CONN.	QTY.	SIZE	TYPE	HARDENED REVELED WASHERS
A	(14)	3/4" X 2 1/2"	A325 B&N	0
B	(16)	3/4" X 2 1/2"	A325 B&N	0
C	(4)	3/4" X 2 1/2"	A325 B&N	4
D	(16)	3/4" X 2	A325 B&N	0
E	(18)	3/4" X 2 1/2"	A325 B&N	0
F	(4)	1/2" X 1 3/4"	A325 B&N	4
G	(4)	1/2" X 2	A325 B&N	4
H	(6)	3/4" X 2	A325 B&N	0

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FINAL DRAWINGS FOR PHASE "1"

BKR 07/23/07

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TEK
DATE
7/23/07

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STAR BUILDING SYSTEMS

A RobertsonCeco Company

BUILDER:
PRICE BUILDINGS INC
ROCKY MOUNT, VA

CUSTOMER:
CHIP LAWRENCE
ROANOKE, VA

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FINAL DRAWING

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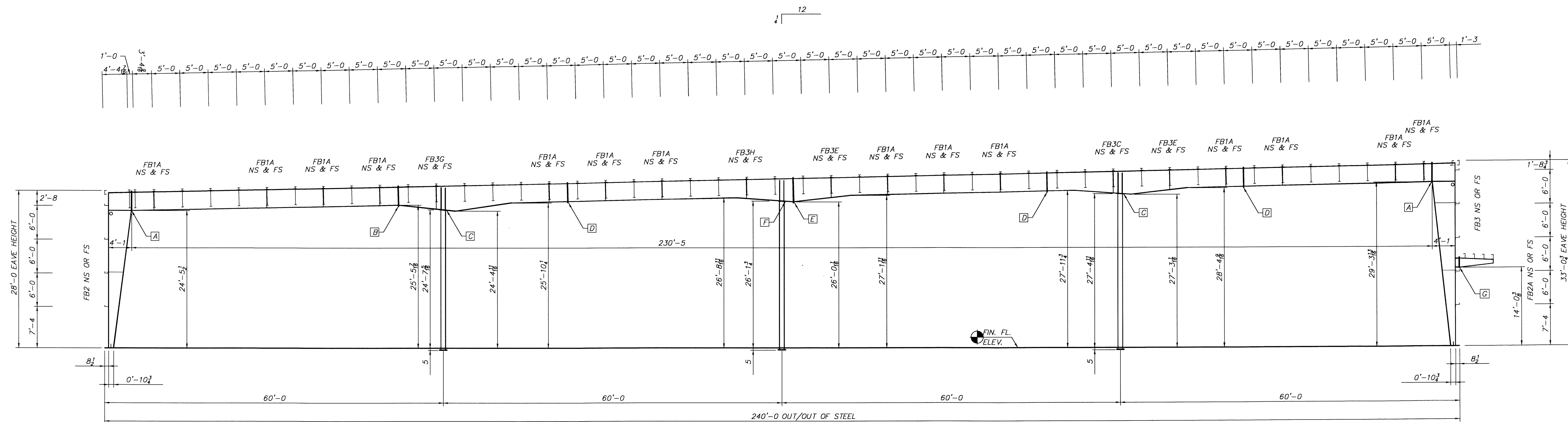
MEMBER

MBMA

DRAWING NO.

E8

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MAY VARY DUE TO CONDITIONS (DEFLECTION).
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FINISHED FLOOR REFERENCE ELEVATION.



CROSS SECTION AT FRAME LINES "2"

PHASE 1

WALL SHEETING ~ PHASE 2

FLANGE BRACES	
PIECE MARK	MATERIAL
FB1_	ANGLE $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$
FB2_	ANGLE $2 \times 2 \times \frac{1}{8}$
FB3_	ANGLE $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{8}$

SPLICE BOLT TABLE					
CONN.	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	(14)	$\frac{3}{4}$ X 2 $\frac{1}{2}$	A325 B&N	0	0
B	(16)	$\frac{3}{4}$ X 2 $\frac{1}{2}$	A325 B&N	0	0
C	(4)	$\frac{1}{2}$ X 2	A325 B&N	4	0
D	(16)	$\frac{3}{4}$ X 2	A325 B&N	0	0
E	(18)	$\frac{3}{4}$ X 2 $\frac{1}{2}$	A325 B&N	0	0
F	(4)	$\frac{1}{2}$ X 1 $\frac{1}{2}$	A325 B&N	4	0
G	(6)	$\frac{3}{4}$ X 2	A325 B&N	0	0

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[illegible]

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NOT TO SCALE		

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STAR BUILDING SYSTEMS

A RobertsonCeco Company

BUILDER:

ROCKY MOUNT, VA

CUSTOMER:

ROANOKE, VA

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FINAL DRAWING

PHILLIP JAMES JOHNSON, P.E.
VIRGINIA P.E. 041670

JOB NO.

11 B 74051

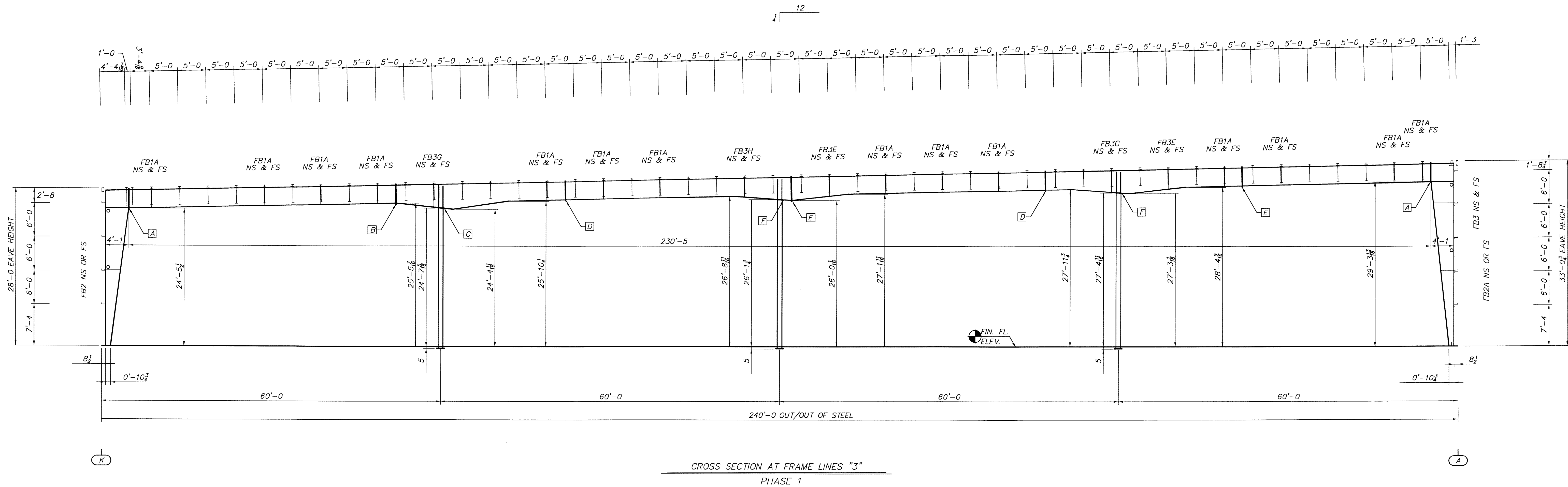
MEMBER

MBMA

DRAWING NO.

E9

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND
MAY VARY DUE TO CONDITIONS (DEFLECTION).
VERTICAL CLEARANCE DIMENSIONS ARE FROM
FINISHED FLOOR REFERENCE ELEVATION.



WALL SHEETING ~ PHASE 2

FLANGE BRACES	
PIECE MARK	MATERIAL
FB1__	ANGLE $1\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{8}$
FB2__	ANGLE $2 \times 2 \times \frac{1}{8}$
FB3__	ANGLE $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{16}$

SPlice Bolt Table					
CONN.	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	(14)	$\frac{3}{4}$ X 2 $\frac{1}{2}$	A325 B&N	0	0
B	(16)	$\frac{3}{4}$ X 2 $\frac{1}{2}$	A325 B&N	0	0
C	(4)	$\frac{1}{2}$ X 2	A325 B&N	4	0
D	(16)	$\frac{3}{4}$ X 2	A325 B&N	0	0
E	(18)	$\frac{3}{4}$ X 2 $\frac{1}{2}$	A325 B&N	0	0
F	(4)	$\frac{1}{2}$ X 1 $\frac{1}{4}$	A325 B&N	4	0
G	(6)	$\frac{1}{2}$ X 2	A325 B&N	0	0

NOTES:

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2. THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING MATERIALS FOR THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE STAR ERECTION GUIDES, AND INDUSTRY STANDARDS.

[illegible]

CHECKED

NOT TO SCALE



STAR BUILDING SYSTEMS

A RobertsonCeco Company

BUILDER:
PRICE BUILDINGS INC
ROCKY MOUNT, VA

CUSTOMER:
CHIP LAWRENCE
ROANOKE, VA

THESE DRAWINGS AND THE METAL BUILDING THEY REPRESENT ARE THE PRODUCT OF STAR BUILDING SYSTEMS OR A DIVISION OF ITS AFFILIATE NCI BUILDING SYSTEMS - 8600 SOUTH INTERSTATE 35, OKLAHOMA CITY OK 73149. THE ENGINEER WHOSE SEAL APPEARS HEREON IS EMPLOYED BY EITHER STAR BUILDING SYSTEMS OR A DIVISION OF ITS AFFILIATE NCI BUILDING SYSTEMS AND IS NOT THE ENGINEER OF RECORD FOR THIS PROJECT.

FINAL DRAWING

JOB NO.

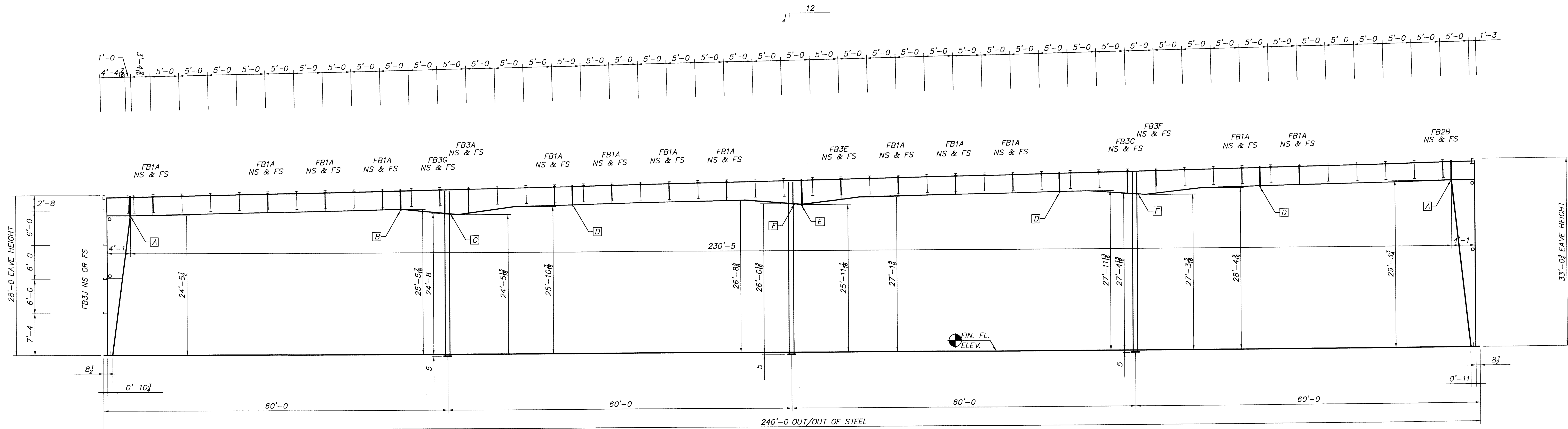
MEMBER



DRAWING NO.

E10

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND
MAY VARY DUE TO CONDITIONS (DEFLECTION).
VERTICAL CLEARANCE DIMENSIONS ARE FROM
FINISHED FLOOR REFERENCE ELEVATION.



CROSS SECTION AT FRAME LINES "4" THRU "6"

FRAME LINE "4" (PHASE 1)
FRAME LINE "5" (PHASE 2)
FRAME LINE "6" (PHASE 2)

WALL SHEETING ~ PHASE 2

FLANGE BRACES	
PIECE MARK	MATERIAL
FB1_	ANGLE 1 1/4" X 1 1/4" X 1/8"
FB2_	ANGLE 2" X 2" X 1/8"
FB3_	ANGLE 2 1/2" X 2 1/2" X 1/8"

SPlice BOLT TABLE					
CONN.	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	(14)	3/4" X 2 1/2"	A325 B&N	0	0
B	(16)	3/4" X 2 1/2"	A325 B&N	0	0
C	(4)	1/2" X 2"	A325 B&N	4	0
D	(16)	3/4" X 2"	A325 B&N	0	0
E	(18)	3/4" X 2 1/2"	A325 B&N	0	0
F	(4)	1/2" X 1 1/2"	A325 B&N	4	0

NOTES:

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REV.	DESCRIPTION	DATE
1	FINAL DRAWINGS FOR PHASE "1"	BKR 07/23/07
2		
3		
4		
5		
6		
7		
8		
9		
10		

CHECKED	DATE
TEK	7/23/07
NOT TO SCALE	

STAR BUILDING SYSTEMS A RobertsonCeco Company		P.O. BOX 94910 OKLAHOMA CITY, OK 73143 (405) 636-2010
BUILDER: PRICE BUILDINGS INC ROCKY MOUNT, VA		CUSTOMER: CHIP LAWRENCE ROANOKE, VA
JOB NO. 11 B 74051		MEMBER MBMA DRAWING NO. E11

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PHILLIP JAMES JOHNSON, P.E.
VIRGINIA P.E. 041670

A schematic diagram of a wing plate assembly. It shows a vertical rectangular frame with a central vertical rod. Two horizontal plates, labeled 'WING PLATE', are mounted on the rod. The rod is labeled 'SINGLE OR DOUBLE CLEVIS RODS'. The assembly is supported by two vertical posts at the base, which are mounted on a horizontal base plate.

Diagram illustrating the assembly of a rod brace. The components shown are:

- ROD BRACE
- BURR THREADS AFTER FINAL TIGHTENING
- SLOPE WASHER
- FLAT WASHER
- HEX NUT

Technical drawing illustrating a roof framing detail, showing the connection between a building steel line, sheeting angle, endwall column extension, and long-bay purlin.

Labels and Dimensions:

- BUILDING STEEL LINE
- SHEETING ANGLE V20, V21 OR V22 W/(2) SCREWS (SD125T5) AT EACH LONG BAY PURLIN
- CLIP PC71L (TO BE PLACED ON THE UPSIDE OF THE COLUMN EXTENSION WEB)
- (4) $\frac{3}{4}$ " ϕ X $1\frac{1}{2}$ " A325 BOLTS
- ENDWALL COLUMN EXTENSION
- 1'-2
- (2) $\frac{1}{2}$ " ϕ A325 BOLTS WITH ONE WASHER EA. (TYP.)
- LONG-BAY PURLIN
- FLANGE BRACE
- FRAME RAFTER

Technical drawing showing a side elevation and a detail view of a roof-to-wall connection.

Side Elevation Labels:

- BUILDING STEEL LINE
- SHEETING ANGLE V20, V21 OR V22 W/(2) SCREWS (SD125T5) AT EACH LONG BAY PURLIN
- CLIP PC71 (TO BE PLACED ON THE OUTSIDE OF THE COLUMN EXTENSION WEB)
- (4) $\frac{3}{4}$ " \varnothing \times $1\frac{1}{2}$ " A325 BOLTS
- ENDWALL COLUMN EXTENSION
- 1'-2"

Detail View Labels:

- (2) $\frac{1}{2}$ " \varnothing A325 BOLTS WITH ONE WASHER EA. (TYP.)
- LONG-BAY PURLIN
- FLANGE BRACE
- FRAME RAFTER


Technical drawing showing a cross-section of a roof truss structure, detailing the connection of an endwall column extension to the main truss members.

Labels and Dimensions:

- 1/4"**: Dimension for the endwall column extension.
- BUILDING STEEL LINE**: Indicated by a dashed line.
- SHEETING ANGLE V20, V21 OR V22 W/(2) SCREWS (SD125T5) AT EACH BAR JOIST**: Label for the sheeting angle.
- CLIP PC71L (TO BE PLACED ON THE UPSIDE OF THE COLUMN EXTENSION WEB)**: Label for the clip.
- (4) 3/4" ϕ X 1 1/2" A325 BOLTS**: Label for the bolts connecting the column extension to the main truss.
- 1'-2**: Dimension for the main truss span.
- 3/2" ϕ A325 BOLTS WITH ONE WASHER EA. (TYP.)**: Label for the bolts connecting the main truss members.
- LONG-BAY PURLINE**: Label for the purline.
- (2) 3/2" ϕ X A325 BOLTS**: Label for the bolts connecting the main truss members.
- BOTTOM CHORD EXTENSION**: Label for the extension of the bottom chord.
- FRAME RAFTER**: Label for the rafter.



* ALSO LAST PURLIN @ WIND STRUT

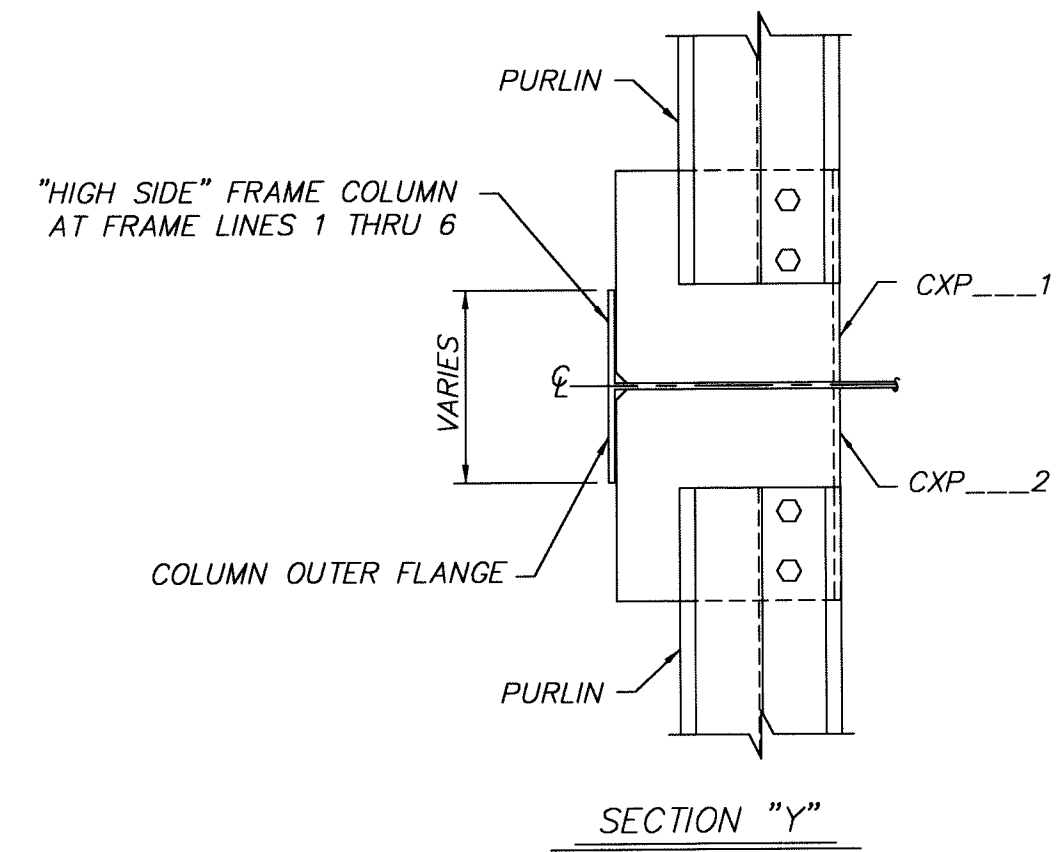
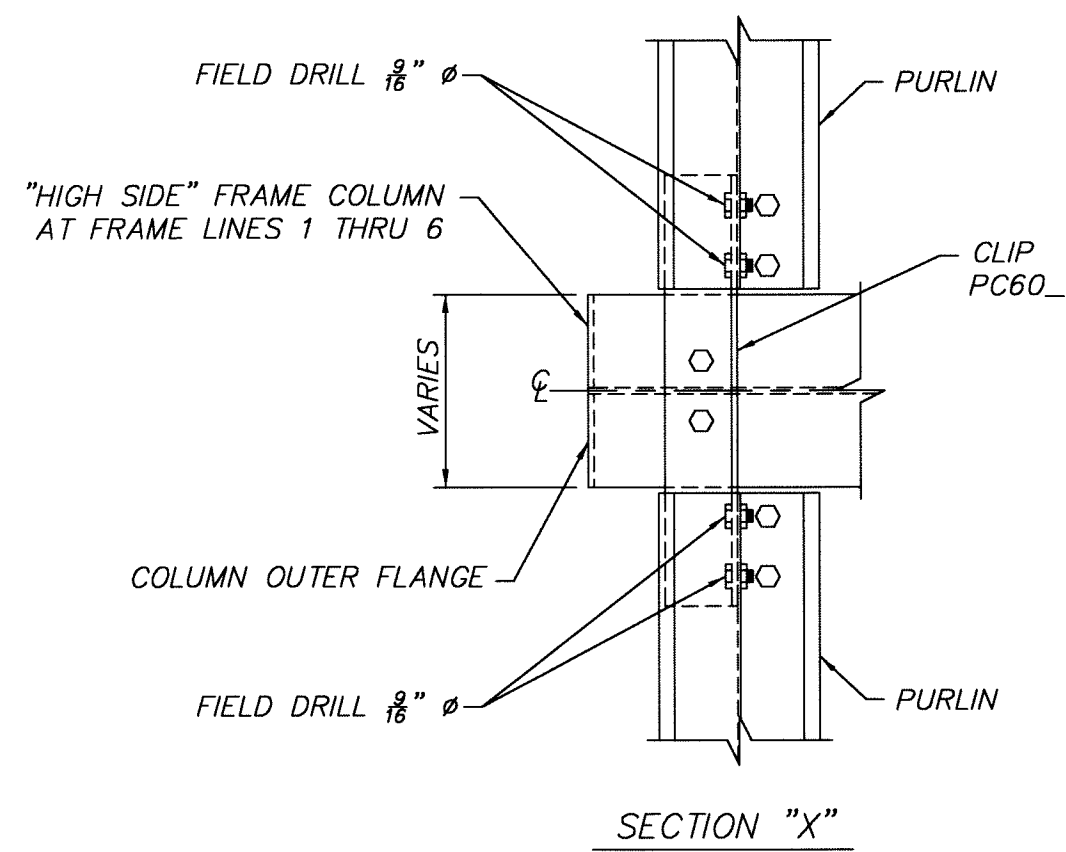
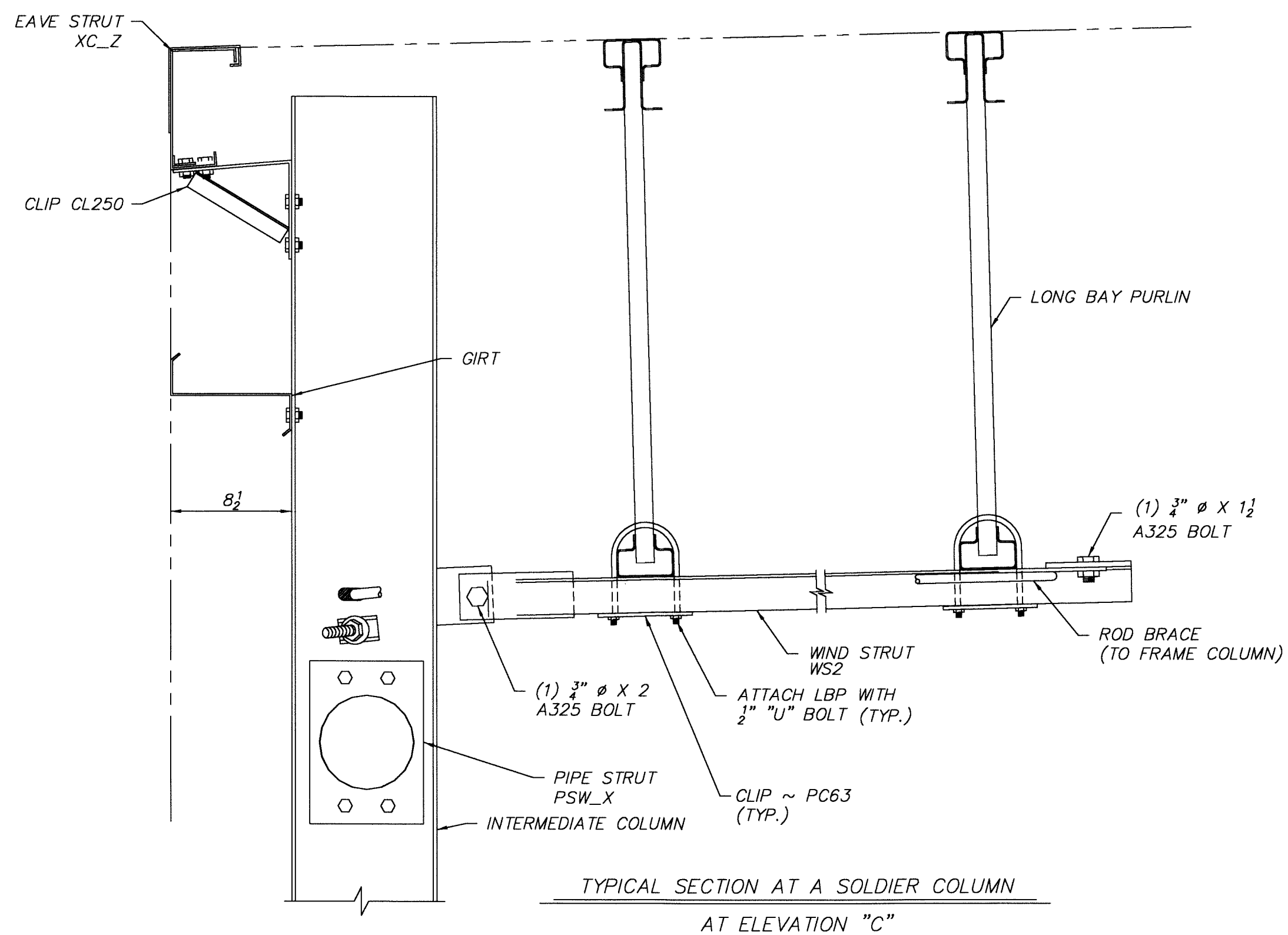
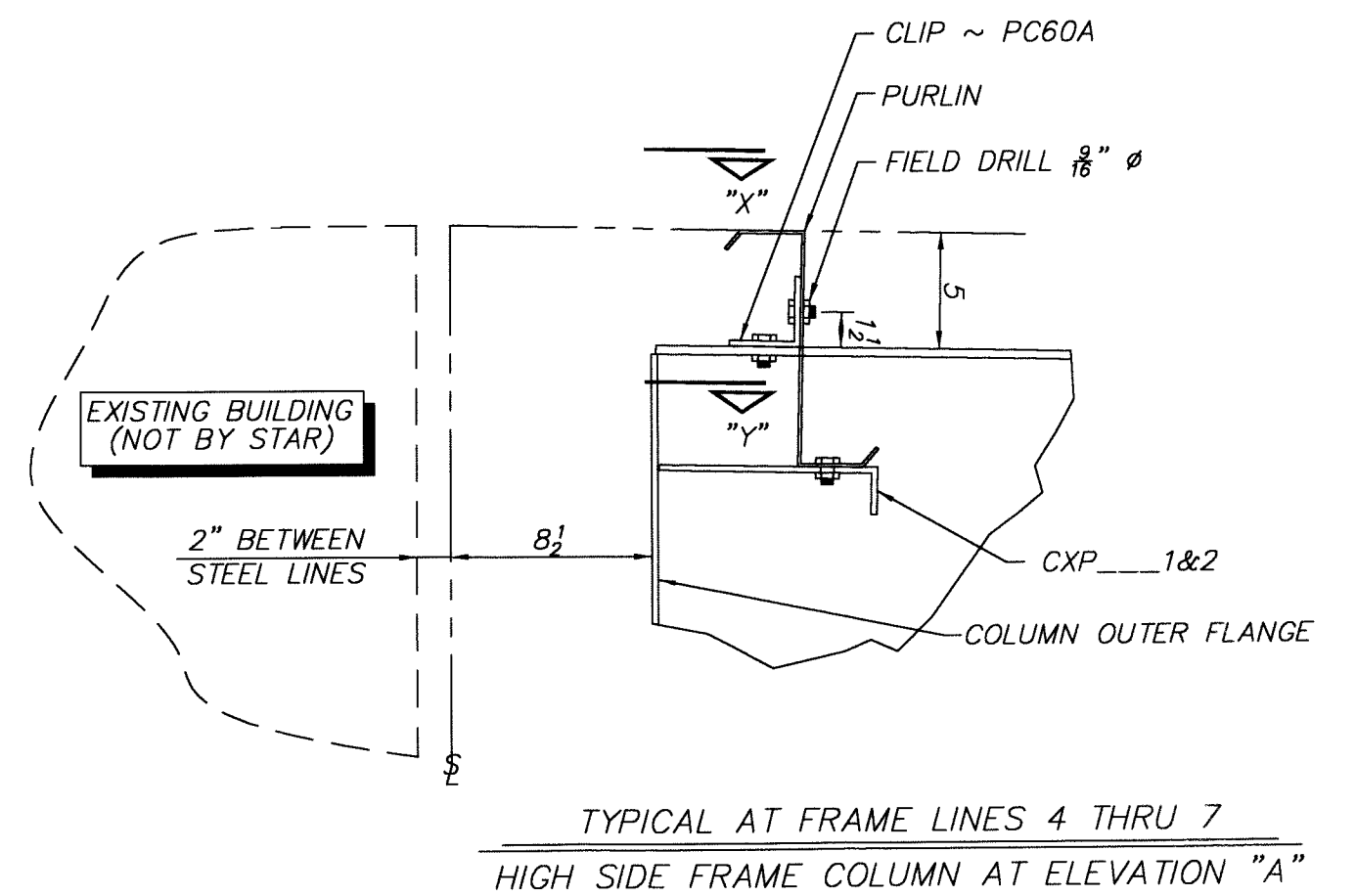
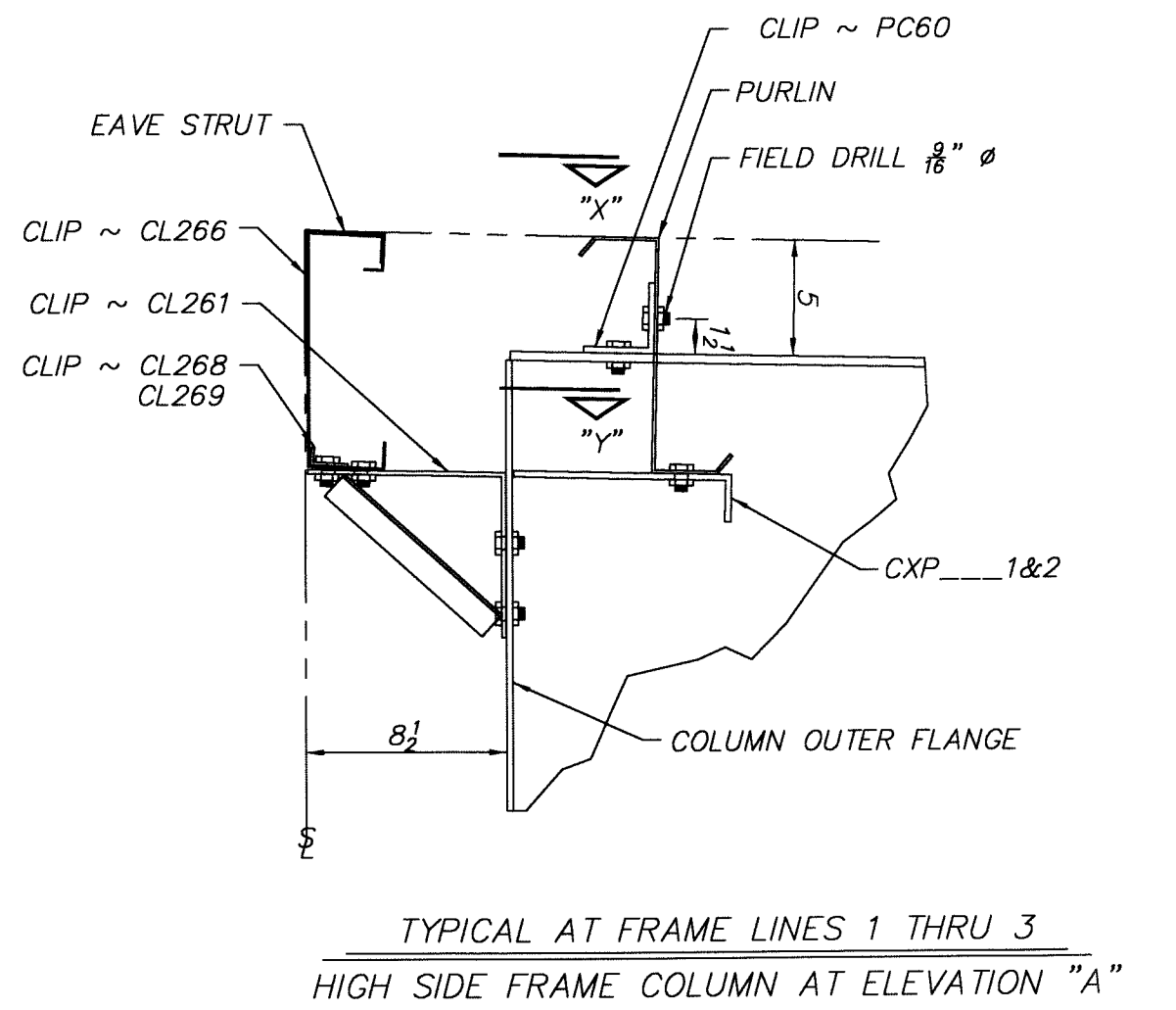
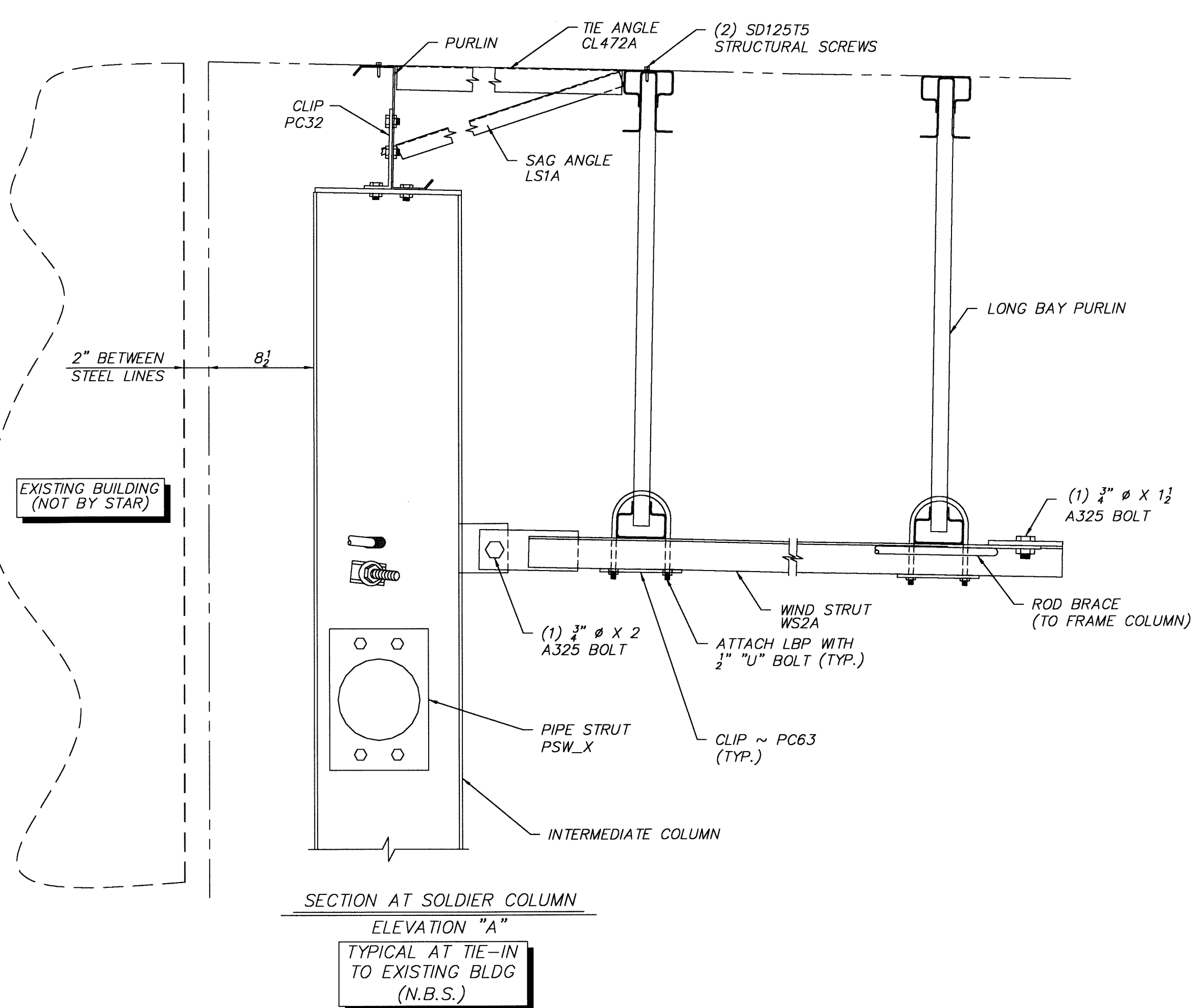
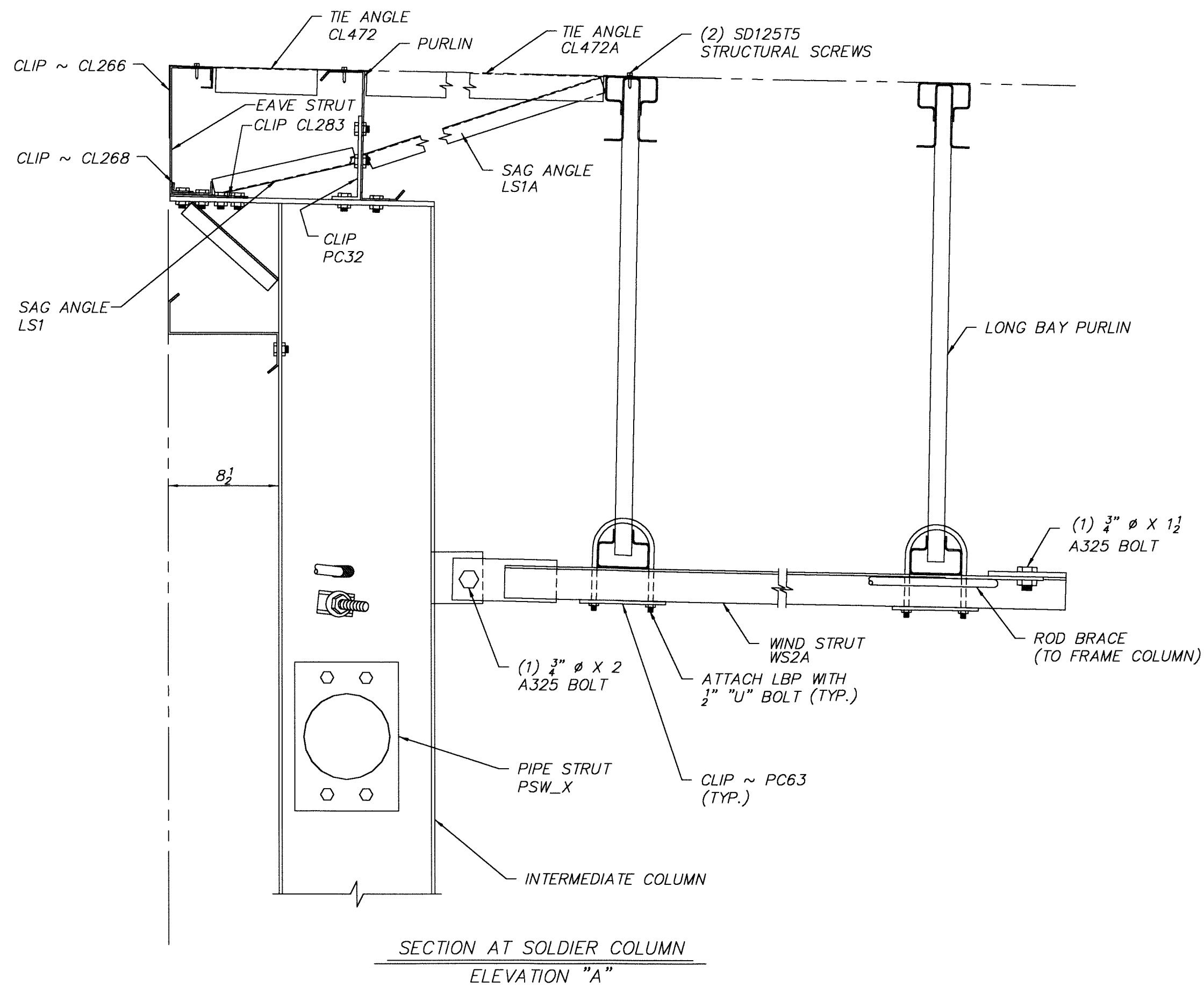
PURLIN

PURLIN WEB STIFFENER WHEN REQUIRED BY DESIGN. SEE ERECTION DRAWINGS FOR LOCATIONS AS DENOTED BY THE SYMBOL .

RAFTER

PHILLIP JAMES JOHNSON, P.E.
VIRGINIA P.E. 041670

NOTES:		/A/ FINAL DRAWINGS FOR PHASE "1"		BKR 07/23/07		 STAR BUILDING SYSTEMS A RobertsonCeco Company		P.O. BOX 94910 OKLAHOMA CITY, OK 73143 (405) 636-2010		11 B 74051 MEMBER  DRAWING NO. E12	
1. THIS DRAWING, INCLUDING THE INFORMATION HERE, REMAINS THE PROPERTY OF STAR BUILDING SYSTEMS A ROBERTSONCECO COMPANY AND IS PROVIDED SOLELY FOR THE PURPOSE OF ERECTING THE MATERIAL DESCRIBED IN THE APPLICABLE ORDER DOCUMENTS AND SHALL NOT BE MODIFIED, REPRODUCED, OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF STAR BUILDING SYSTEMS.						BUILDER: PRICE BUILDINGS INC ROCKY MOUNT, VA		CUSTOMER: CHIP LAWRENCE ROANOKE, VA			
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						NOT TO SCALE					

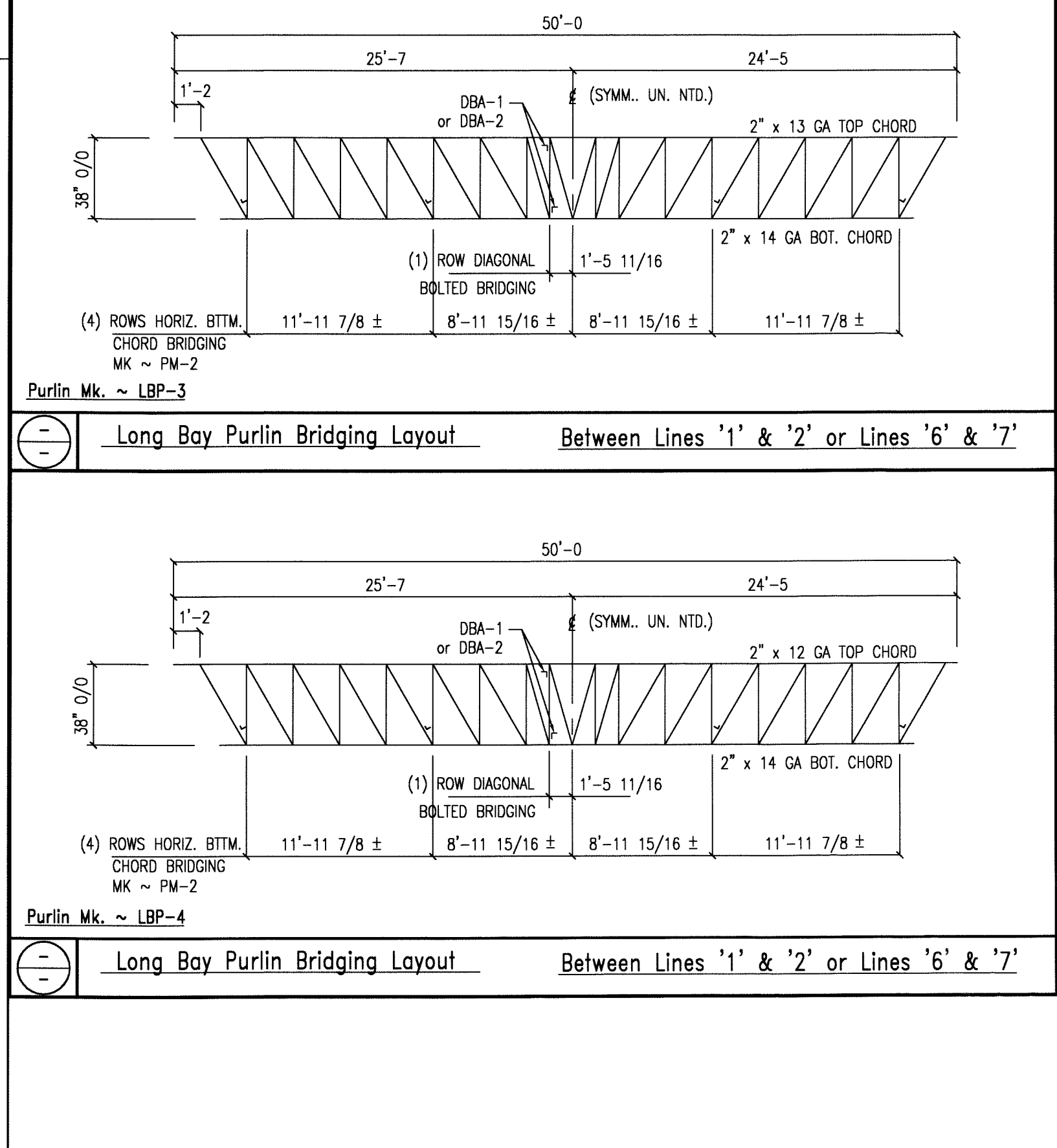
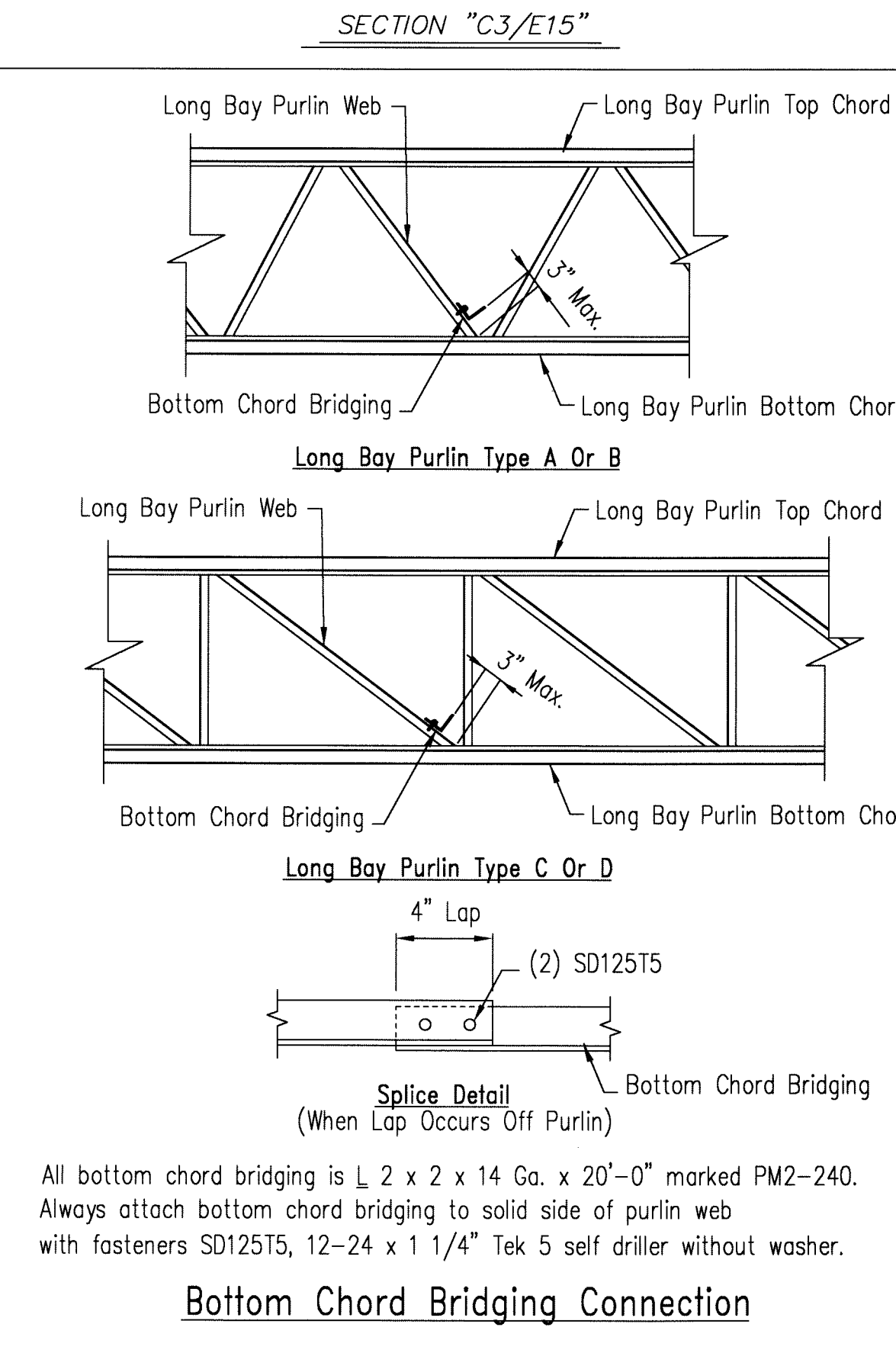
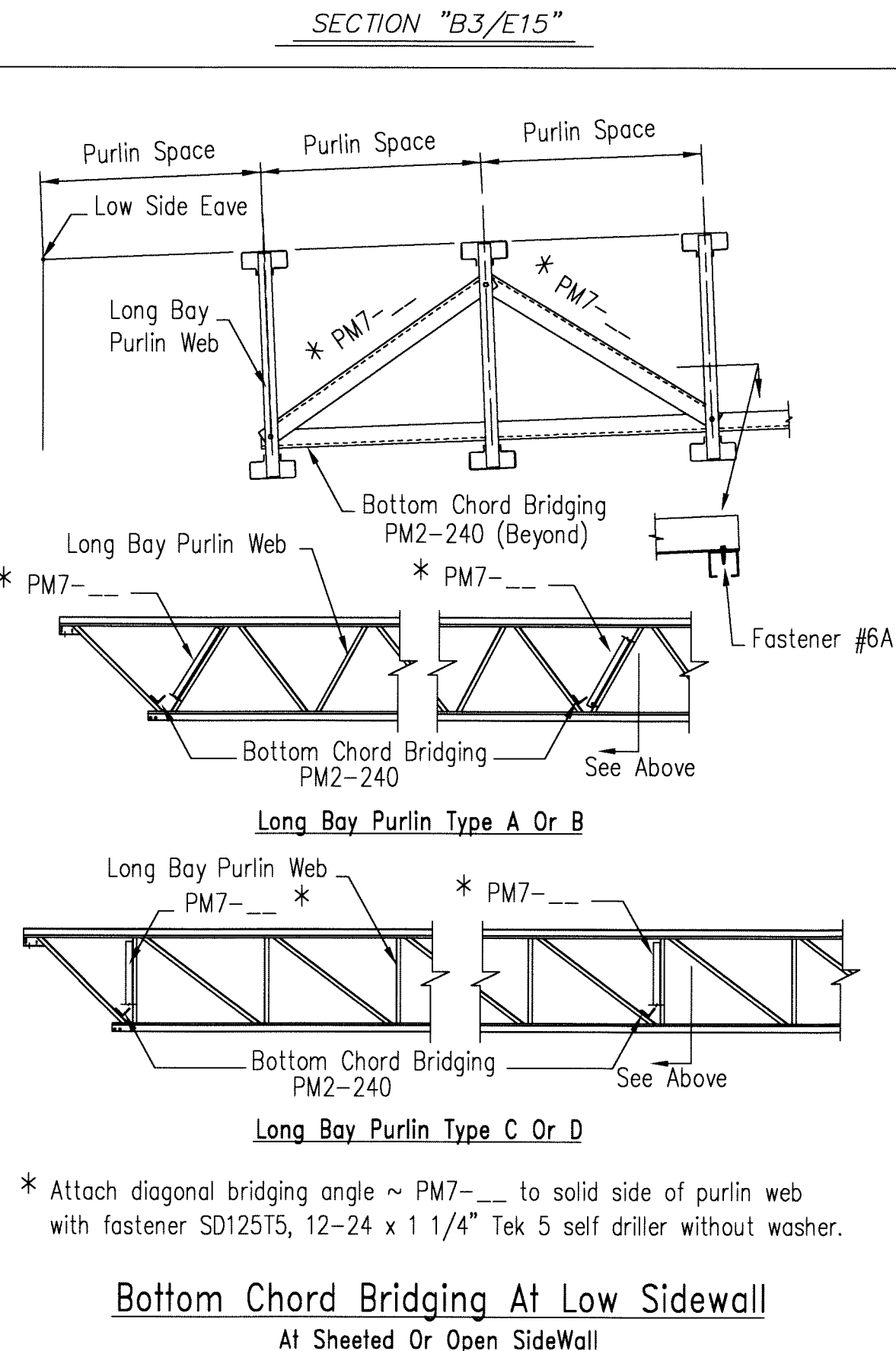
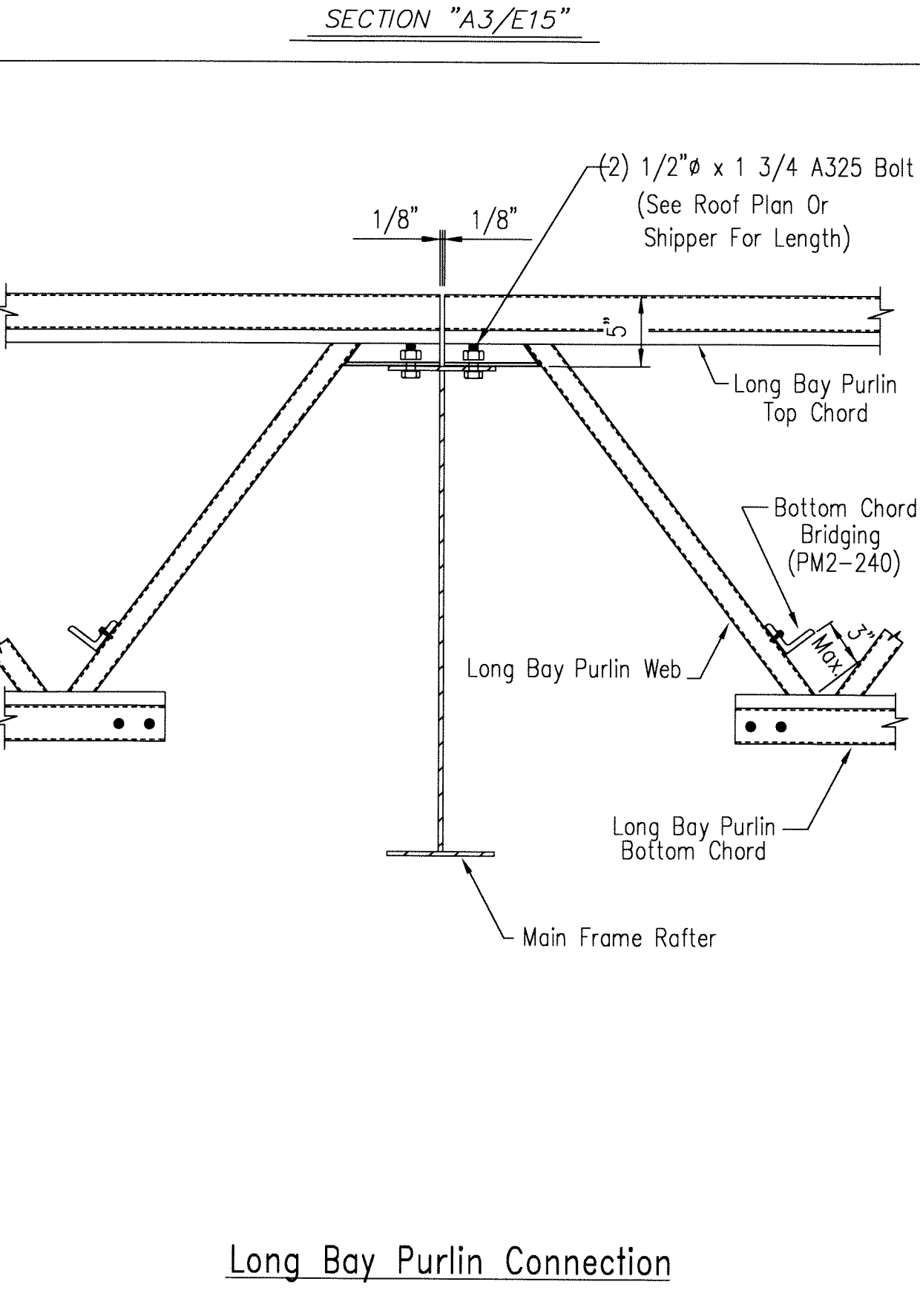
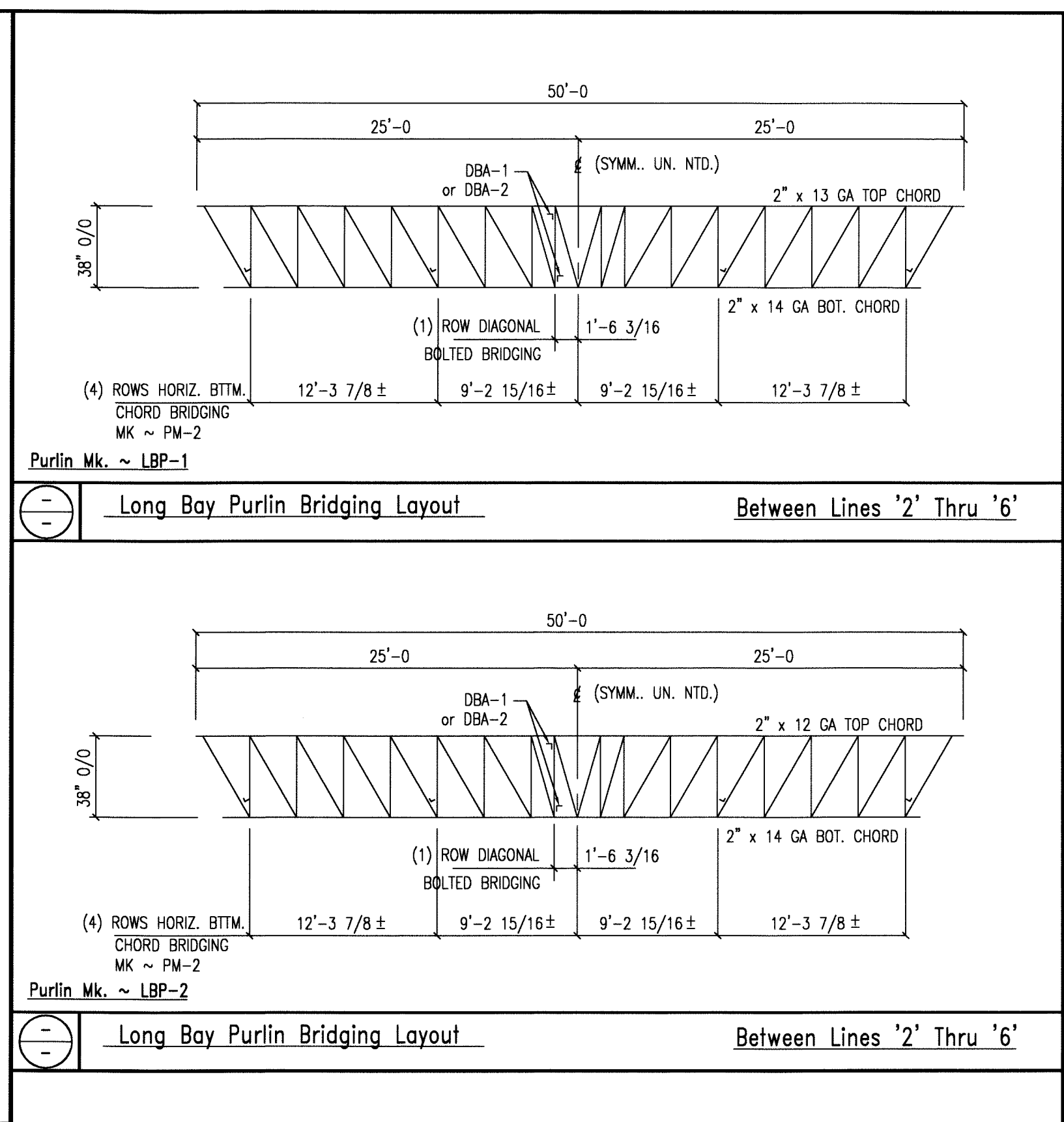
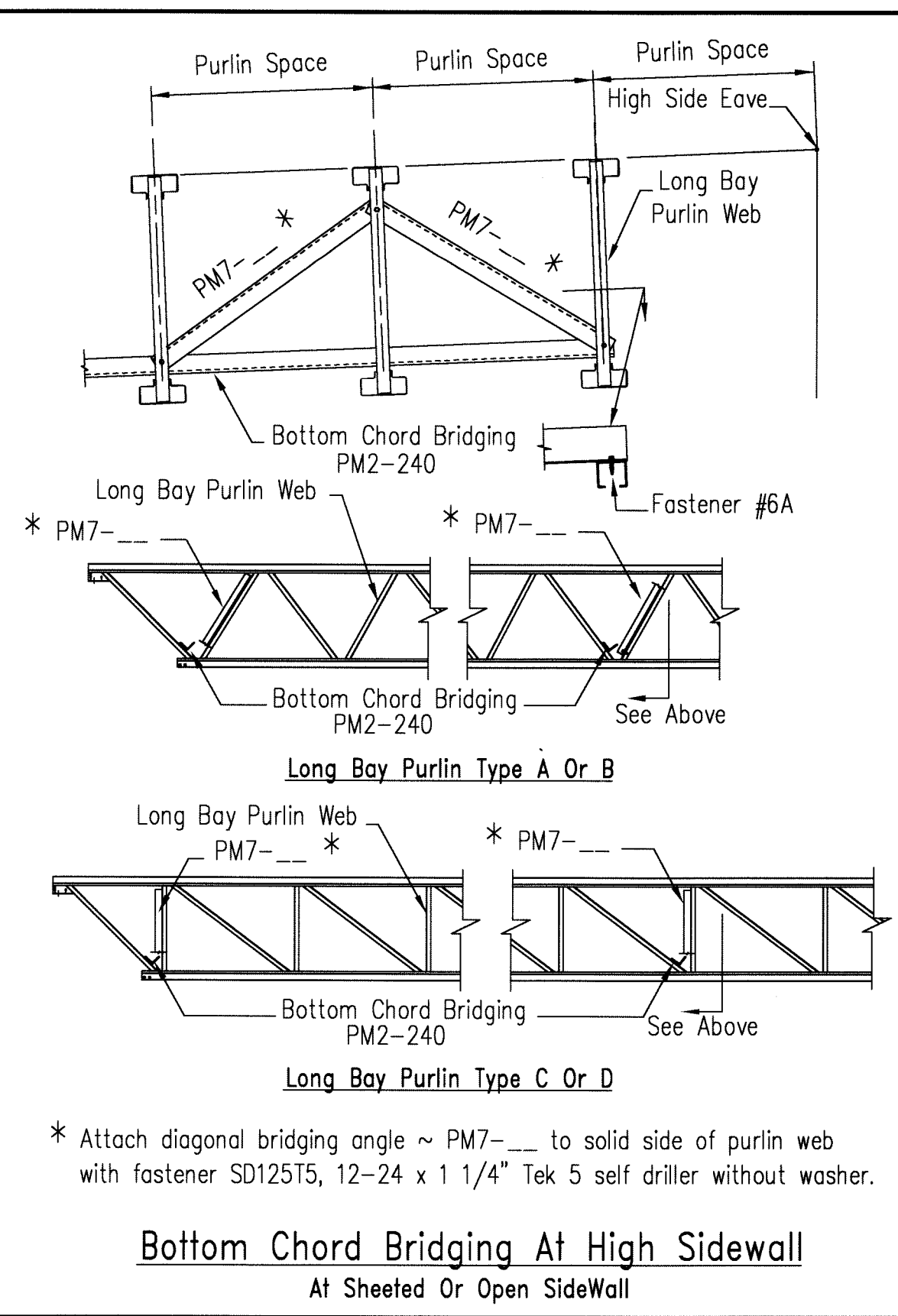
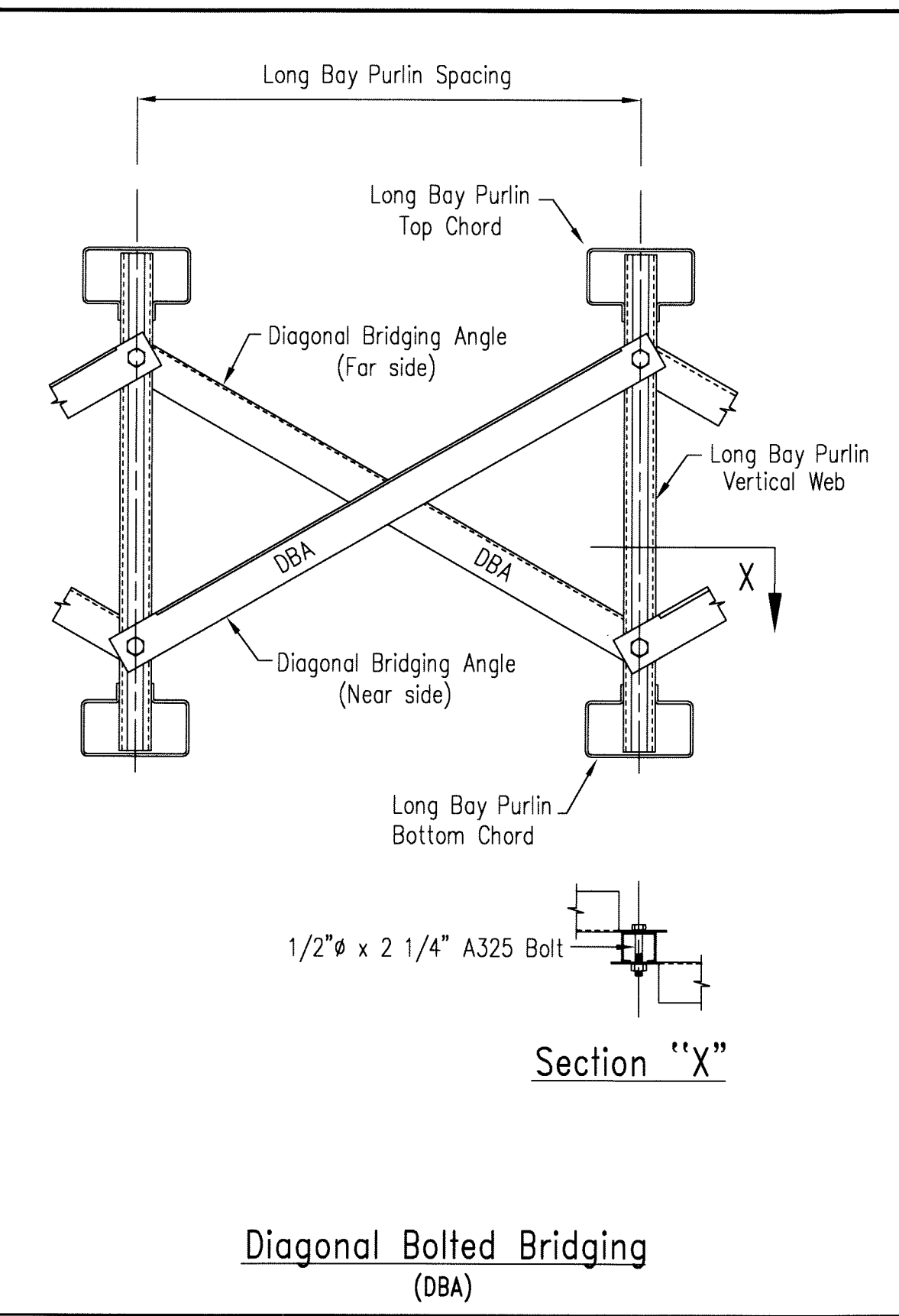
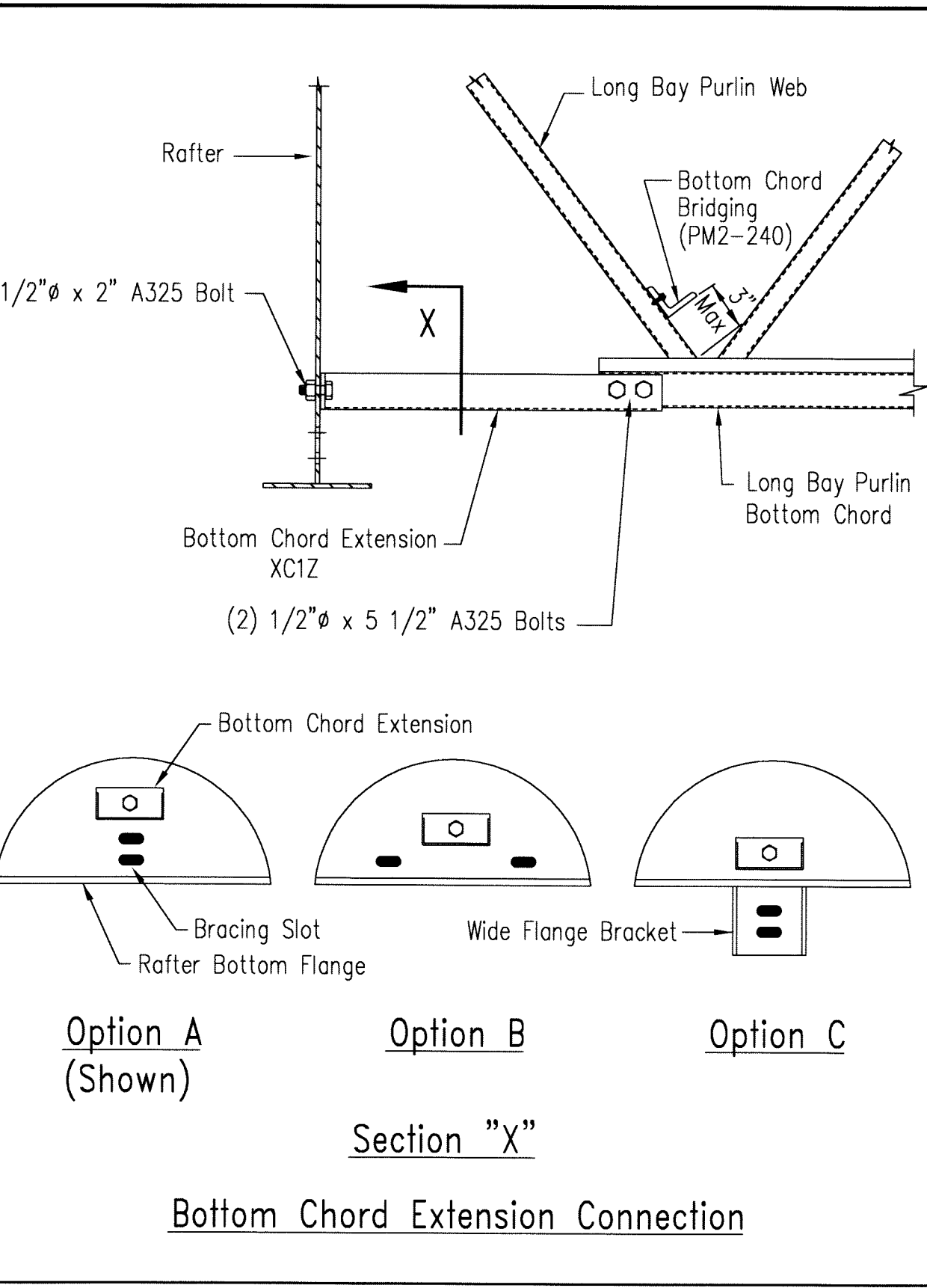


PHILLIP JAMES JOHNSON, P.E.
VIRGINIA P.E. 041670

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FINAL DRAWING

<p>NOTES:</p> <p>1. THIS DRAWING, INCLUDING THE INFORMATION HERE, REMAINS THE PROPERTY OF STAR BUILDING SYSTEMS, A ROBERTSON CECO COMPANY AND IS PROVIDED SOLELY FOR THE PURPOSE OF ERECTING THE MATERIAL DESCRIBED IN THE APPLICABLE ORDER DOCUMENTS; AND SHALL NOT BE MODIFIED, REPRODUCED, OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF STAR BUILDING SYSTEMS.</p> <p>2. THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING MATERIALS FOR THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE STAR ERECTION GUIDES, AND INDUSTRY STANDARDS.</p>	<p>FINAL DRAWINGS FOR PHASE "1"</p> <p>BKR 07/23/07</p> <p>CHECKED TEK DATE 7/23/07</p> <p>NOT TO SCALE</p>	<p>STAR BUILDING SYSTEMS</p> <p>A RobertsonCeco Company</p> <p>BUILDER: PRICE BUILDINGS INC</p> <p>ROCKY MOUNT, VA</p>	<p>CUSTOMER: CHIP LAWRENCE</p> <p>ROANOKE, VA</p>	<p>P.O. BOX 94910</p> <p>OKLAHOMA CITY, OK 73143</p> <p>(405) 636-2010</p>	<p>JOB NO. 11 B 74051</p> <p>MEMBER MBMA</p> <p>DRAWING NO. E13</p>
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SECTION "A3/E15"

SECTION "B3/E15"

SECTION "C3/E15"

SECTION "D3/E15"

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PHILLIP JAMES JOHNSON, P.E.
OKLAHOMA CITY, OK 73149
VIRGINIA P.E. 041670

STAR BUILDING SYSTEMS
A RobertsonCeco Company

BUILDER: PRICE BUILDINGS INC
ROCKY MOUNT, VA

CUSTOMER: CHIP LAWRENCE
ROANOKE, VA

MBMA
DRAWING NO. E15/L

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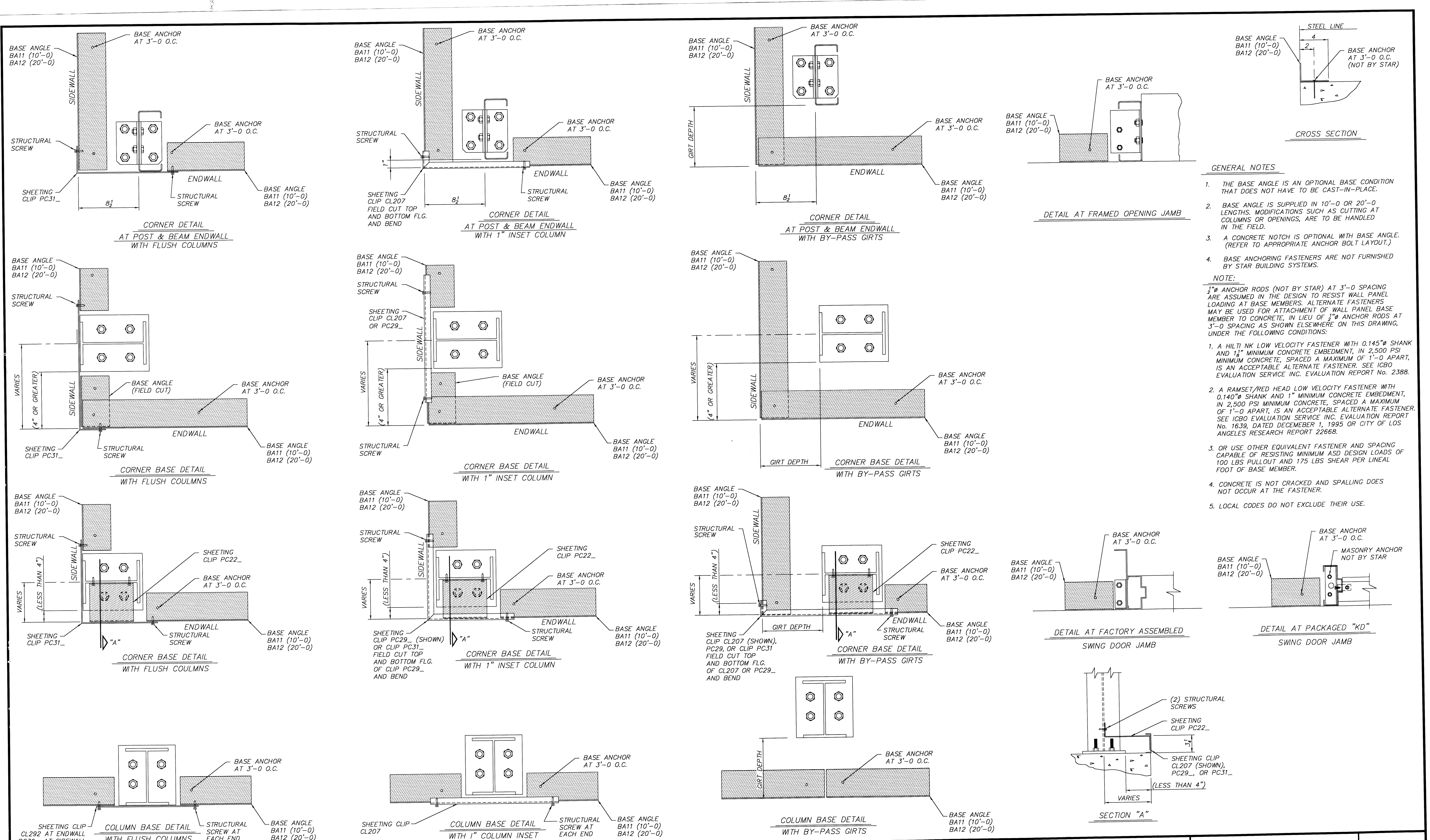
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REVISED	FINAL DRAWINGS FOR PHASE 1	BKR	07/23/07

CHECKED	DATE
TEK	7/23/07
NOT TO SCALE	

STAR BUILDING SYSTEMS A RobertsonCeco Company	P.O. BOX 94910 OKLAHOMA CITY, OK 73143 (405) 636-2010
BUILDER: PRICE BUILDINGS INC ROCKY MOUNT, VA	CUSTOMER: CHIP LAWRENCE ROANOKE, VA

JOB NO. 11 B 74051 (Q075414)
MEMBER MBMA
DRAWING NO. E15/L



- GENERAL NOTES**
1. THE BASE ANGLE IS AN OPTIONAL BASE CONDITION THAT DOES NOT HAVE TO BE CAST-IN-PLACE.
 2. BASE ANGLE IS SUPPLIED IN 10'-0" OR 20'-0" LENGTHS. MODIFICATIONS SUCH AS CUTTING AT COLUMNS OR OPENINGS, ARE TO BE HANDLED IN THE FIELD.
 3. A CONCRETE NOTCH IS OPTIONAL WITH BASE ANGLE. (REFER TO APPROPRIATE ANCHOR BOLT LAYOUT.)
 4. BASE ANCHORING FASTENERS ARE NOT FURNISHED BY STAR BUILDING SYSTEMS.
- NOTE:**
- 1"Ø ANCHOR RODS (NOT BY STAR) AT 3'-0" SPACING ARE ASSUMED IN THE DESIGN TO RESIST WALL PANEL LOADING AT BASE MEMBERS. ALTERNATE FASTENERS MAY BE USED FOR ATTACHMENT OF WALL PANEL BASE MEMBER TO CONCRETE, IN LIEU OF 1"Ø ANCHOR RODS AT 3'-0" SPACING AS SHOWN ELSEWHERE ON THIS DRAWING, UNDER THE FOLLOWING CONDITIONS:
1. A HILTI NK LOW VELOCITY FASTENER WITH 0.145"Ø SHANK AND 1 1/8" MINIMUM CONCRETE EMBEDMENT, IN 2,500 PSI MINIMUM CONCRETE, SPACED A MAXIMUM OF 1'-0" APART, IS AN ACCEPTABLE ALTERNATE FASTENER. SEE ICBO EVALUATION SERVICE INC. EVALUATION REPORT No. 1639, DATED DECEMBER 1, 1995 OR CITY OF LOS ANGELES RESEARCH REPORT 22668.
 2. A RAMSET/RED HEAD LOW VELOCITY FASTENER WITH 0.140"Ø SHANK AND 1" MINIMUM CONCRETE EMBEDMENT, IN 2,500 PSI MINIMUM CONCRETE, SPACED A MAXIMUM OF 1'-0" APART, IS AN ACCEPTABLE ALTERNATE FASTENER. SEE ICBO EVALUATION SERVICE INC. EVALUATION REPORT No. 1639, DATED DECEMBER 1, 1995 OR CITY OF LOS ANGELES RESEARCH REPORT 22668.
 3. OR USE OTHER EQUIVALENT FASTENER AND SPACING CAPABLE OF RESISTING MINIMUM ASD DESIGN LOADS OF 100 LBS PULLOUT AND 175 LBS SHEAR PER LINEAL FOOT OF BASE MEMBER.
 4. CONCRETE IS NOT CRACKED AND SPALLING DOES NOT OCCUR AT THE FASTENER.
 5. LOCAL CODES DO NOT EXCLUDE THEIR USE.

REVISIONS		BY	DATE
1	Deleted "Detail at Standard Swing Door Jamb"	RGB	
2	Changed Anchor Bolt to Anchor Rod	RGB	

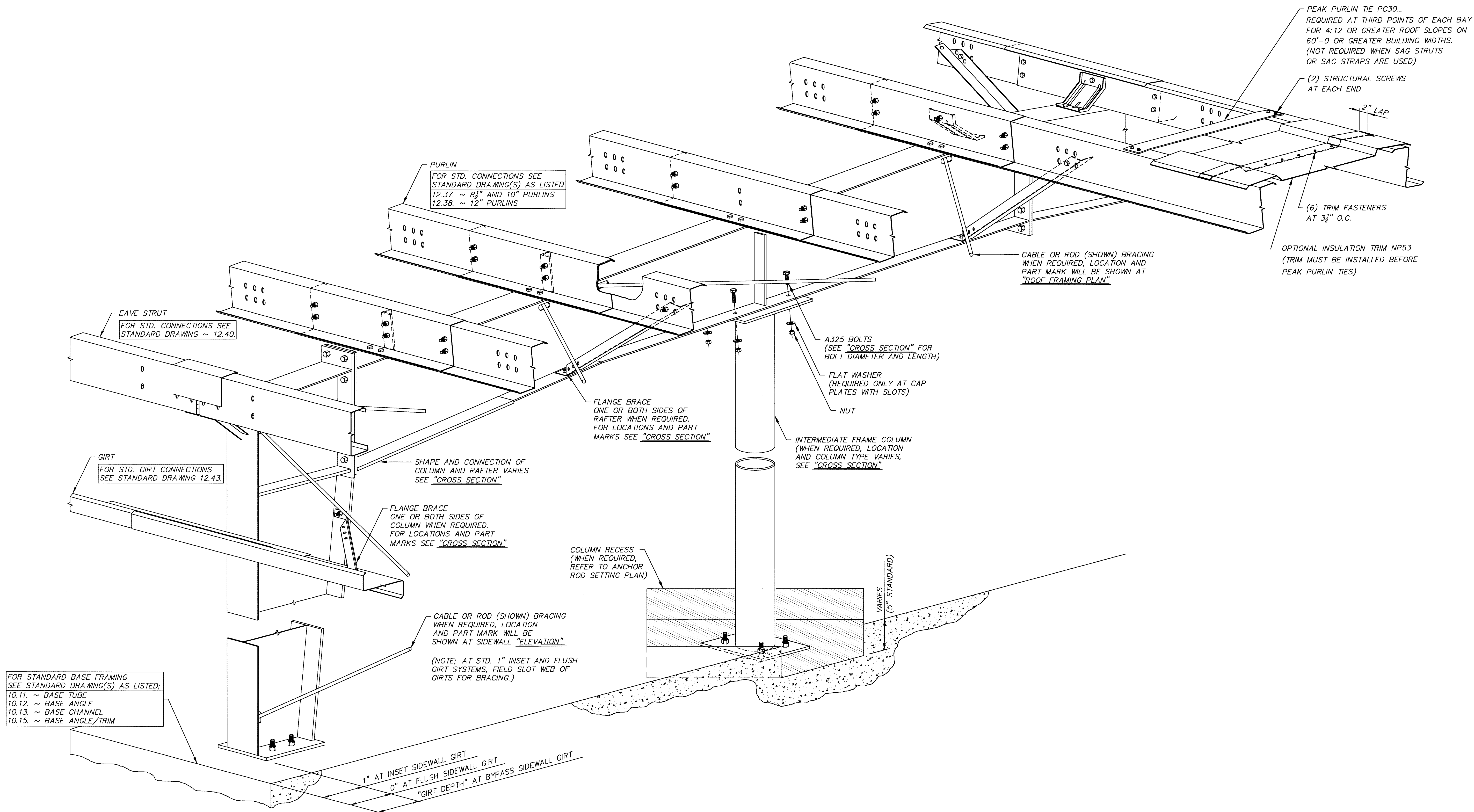
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THIS DRAWING IS NOT TO SCALE

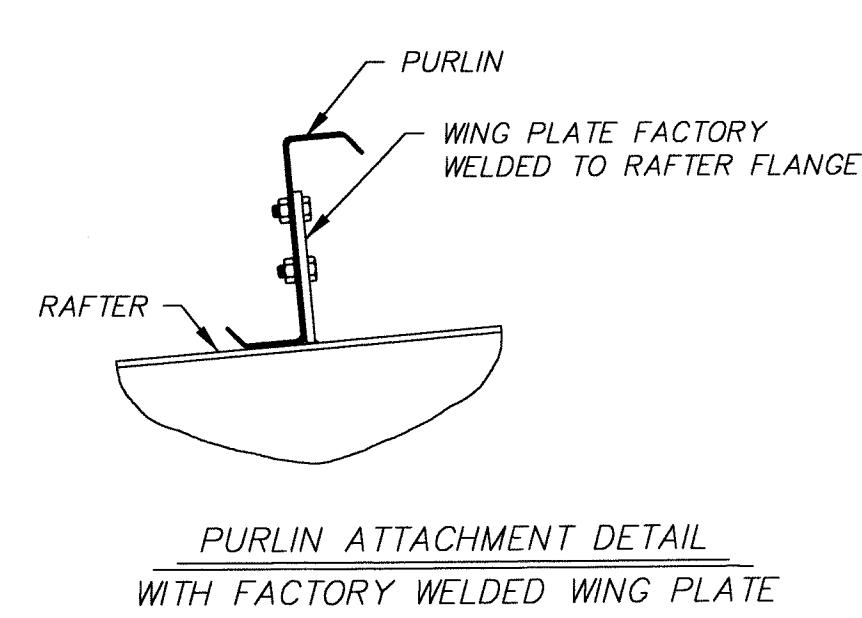
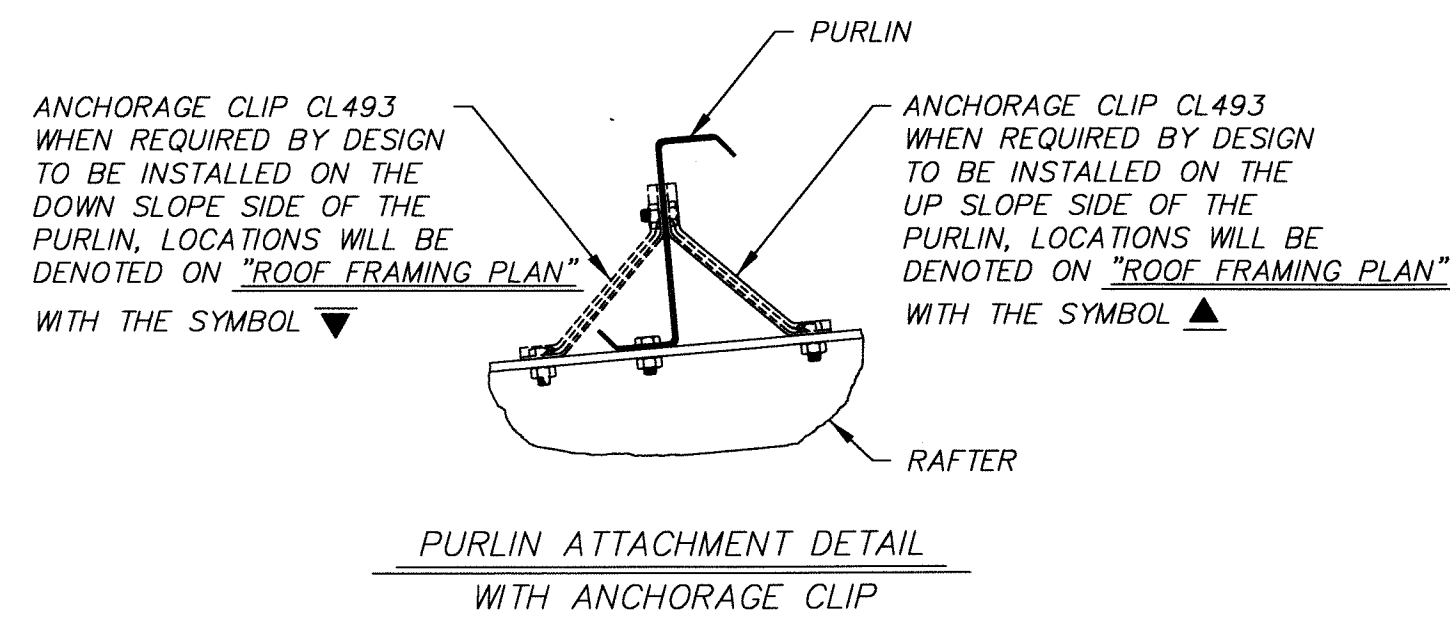
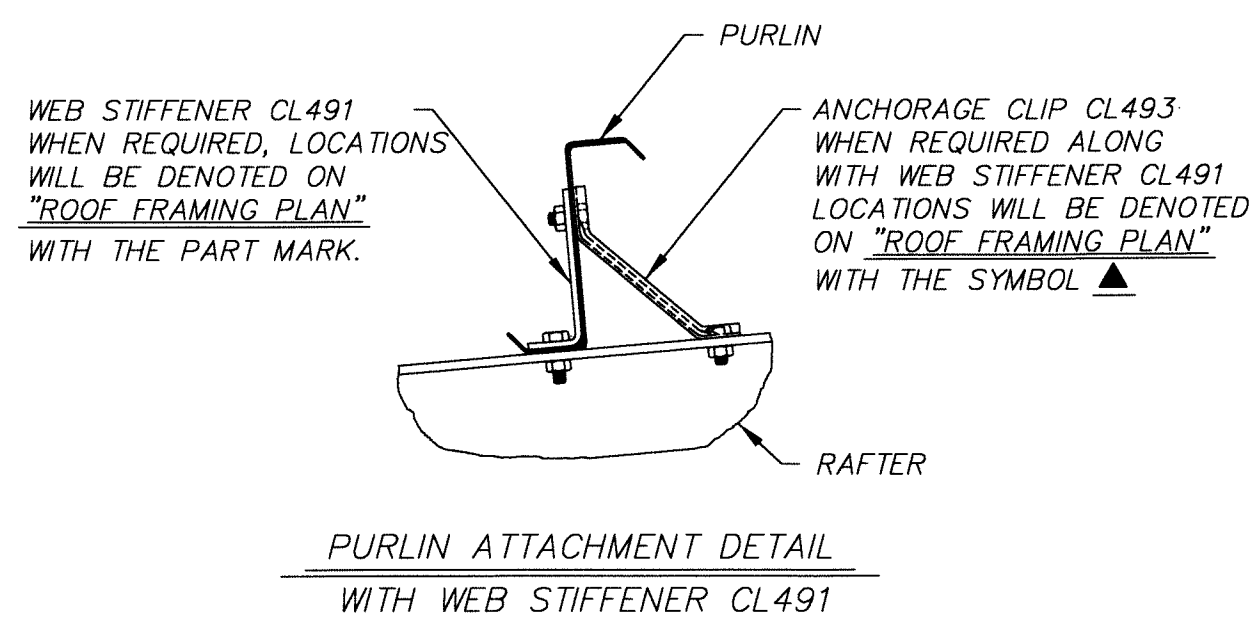
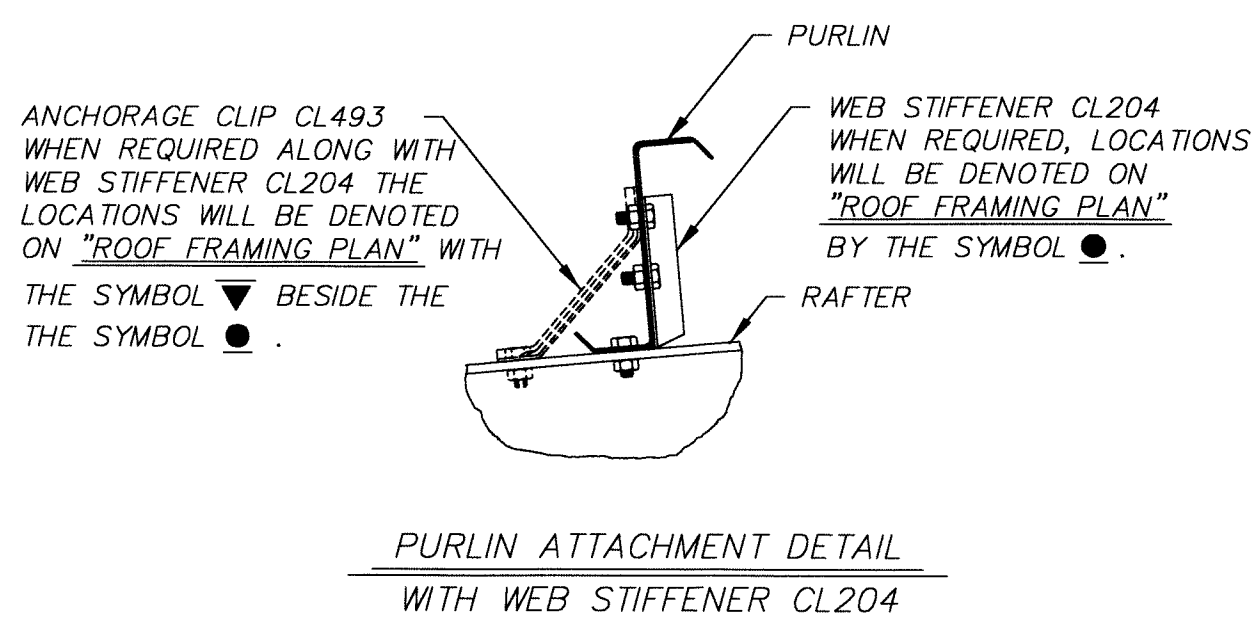
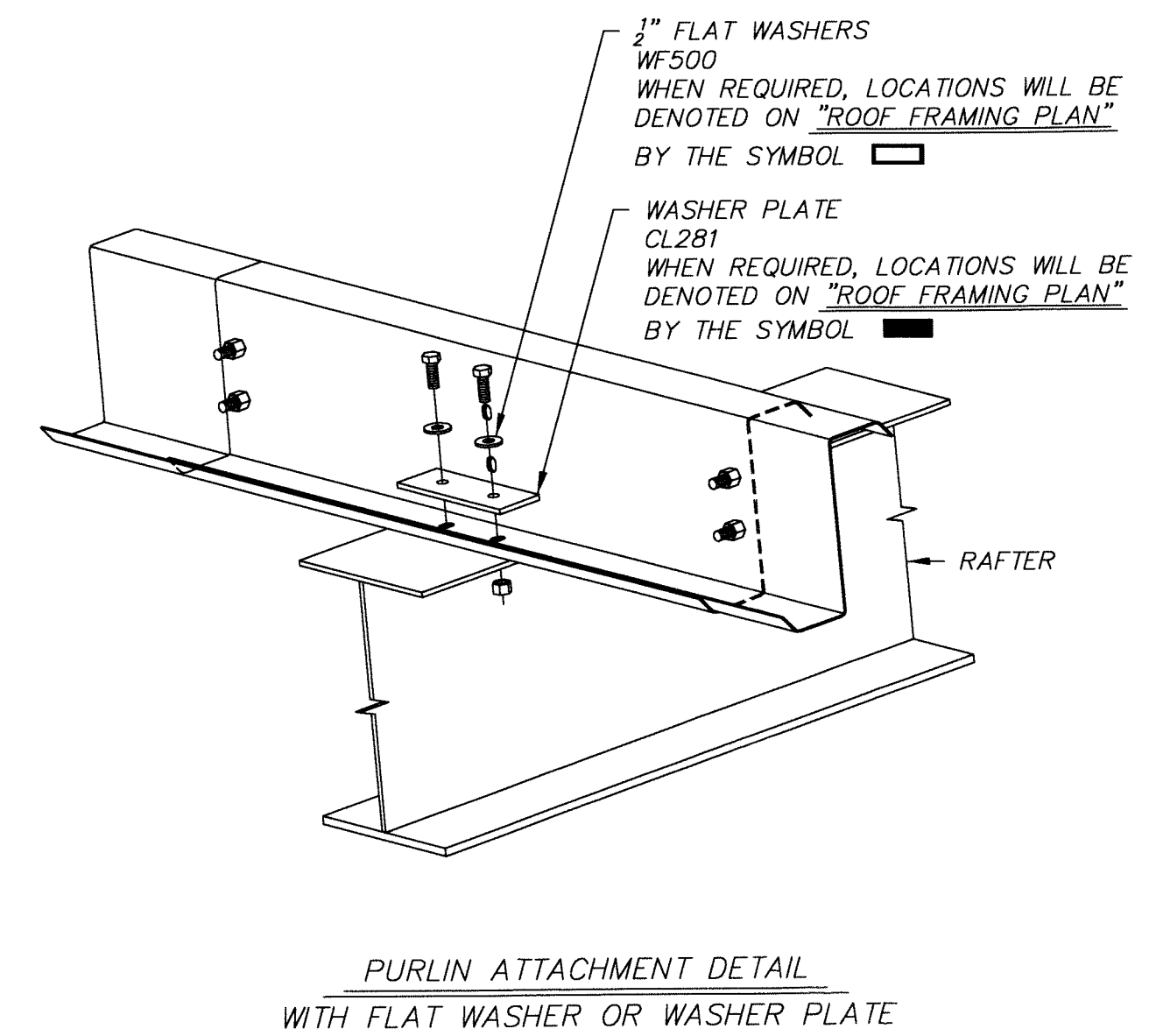
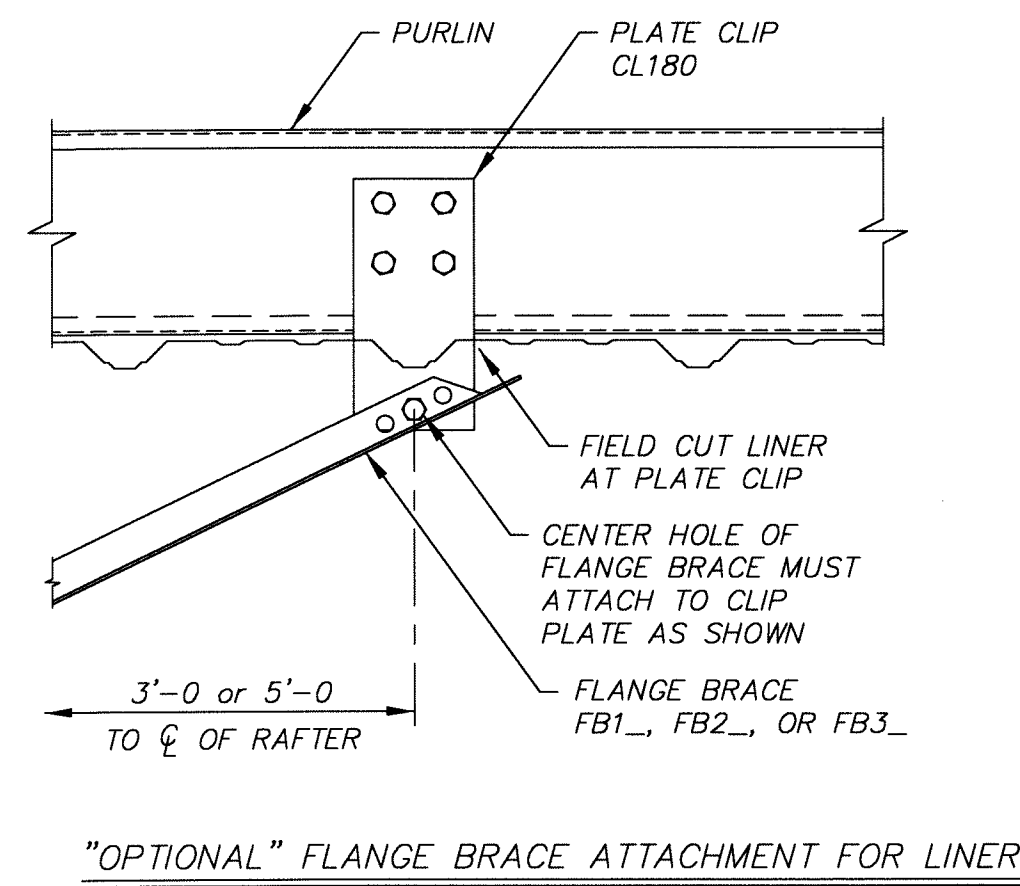
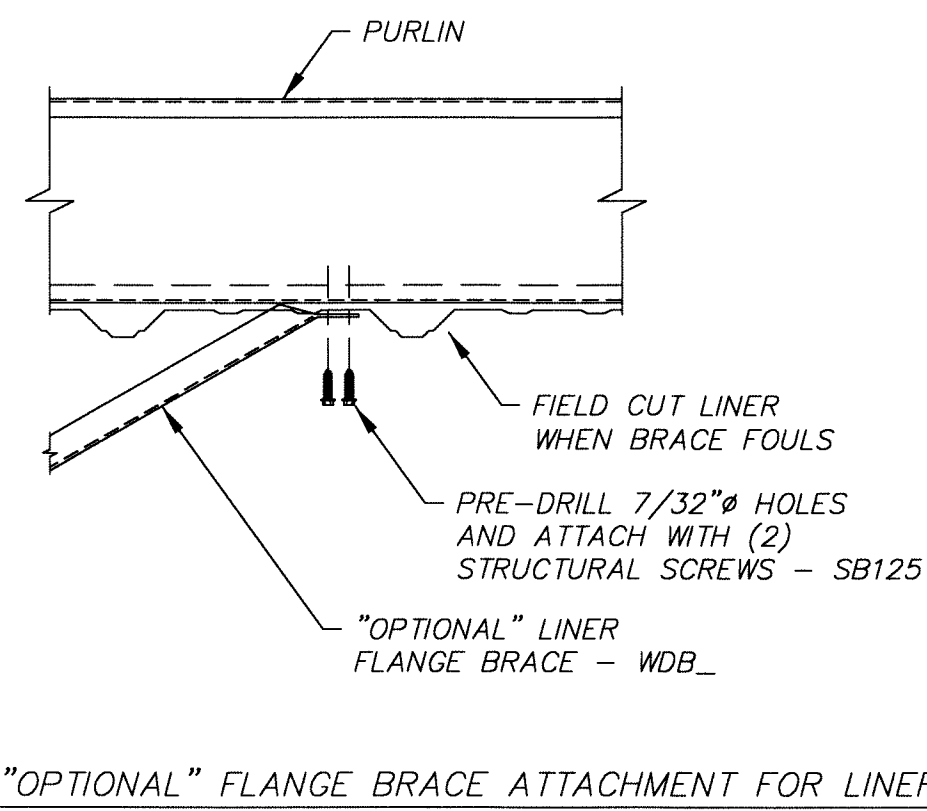
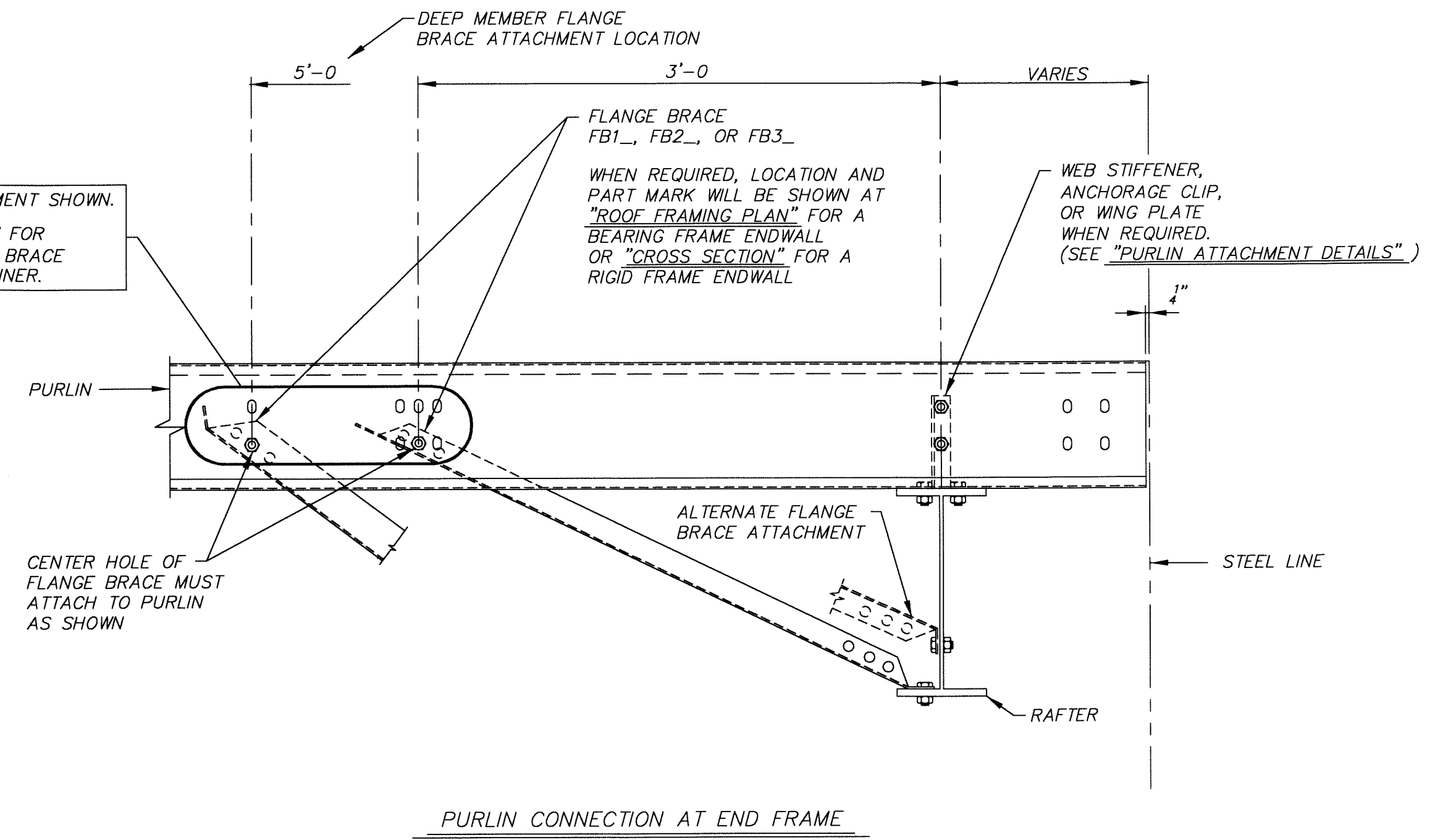
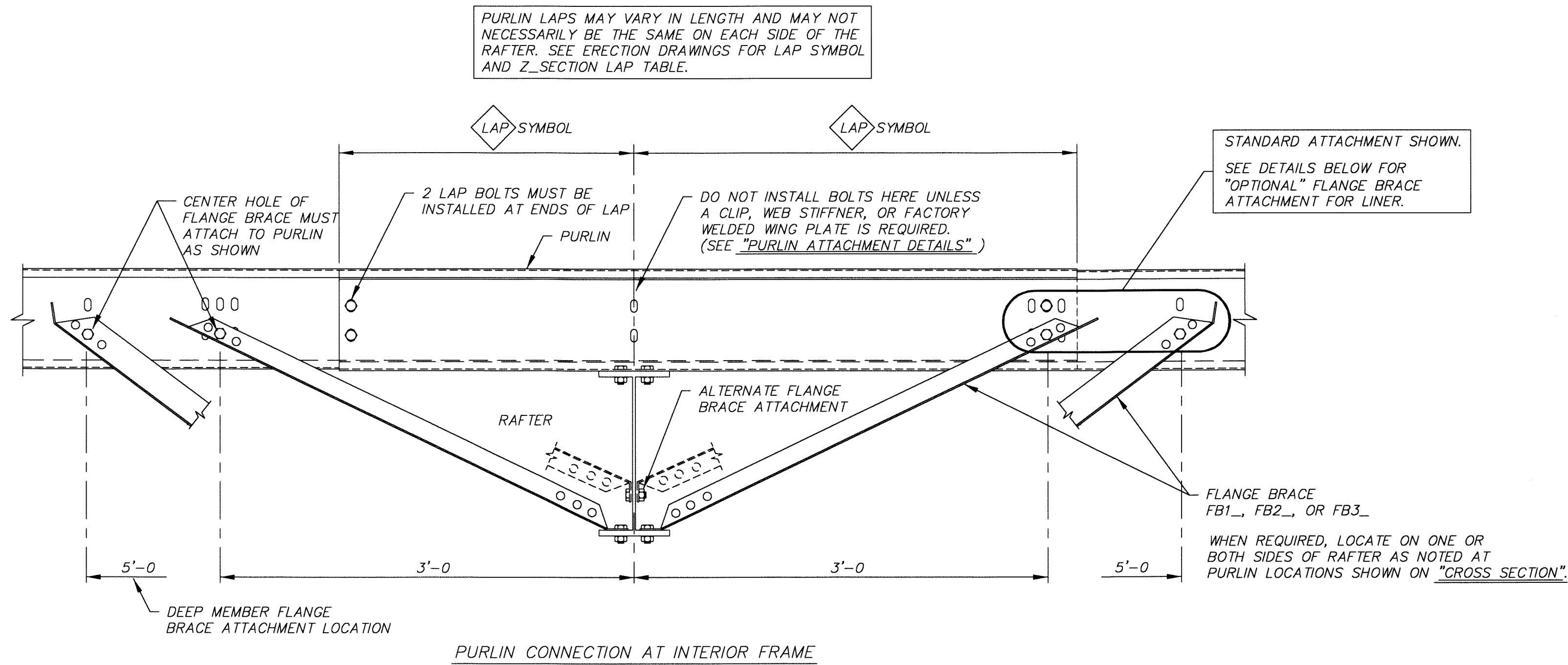
DRN. BY	DATE
JH	7-17-91
CHK. BY	DATE

STAR BUILDING SYSTEMS

a Robertson Ceco company

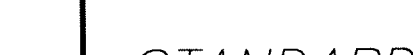


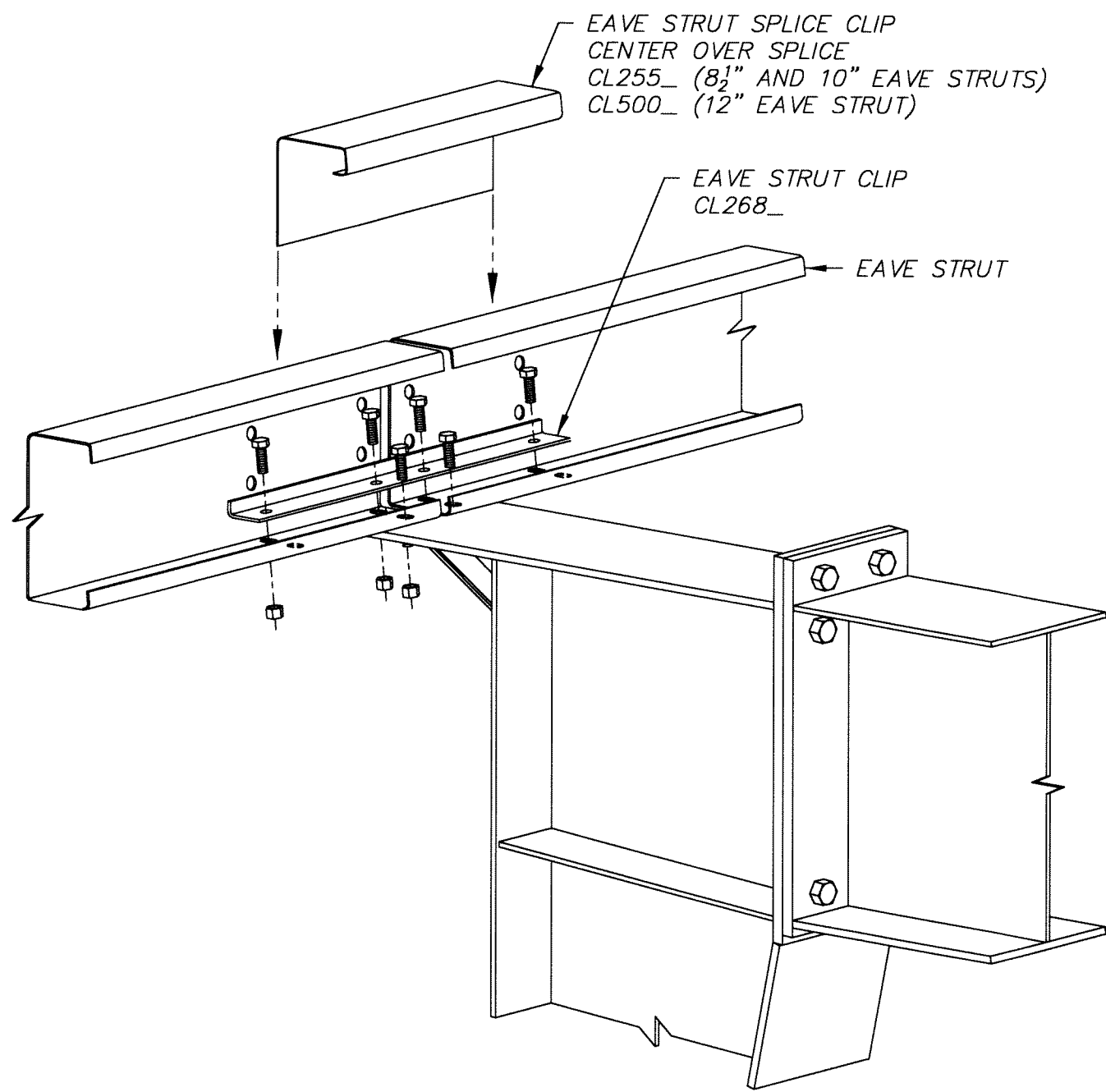
REVISIONS		BY	DATE	NOTES	DRN. BY	DATE	<div>STAR BUILDING SYSTEMS</div> <div>a Robertson Ceco company</div>	<div>ROOF AND SIDEWALL FRAMING</div>	<div>12.30.00</div> <div>08/13/06</div>
				THIS DRAWING IS NOT TO SCALE.	RGB				
					CHK. BY				



NOTES

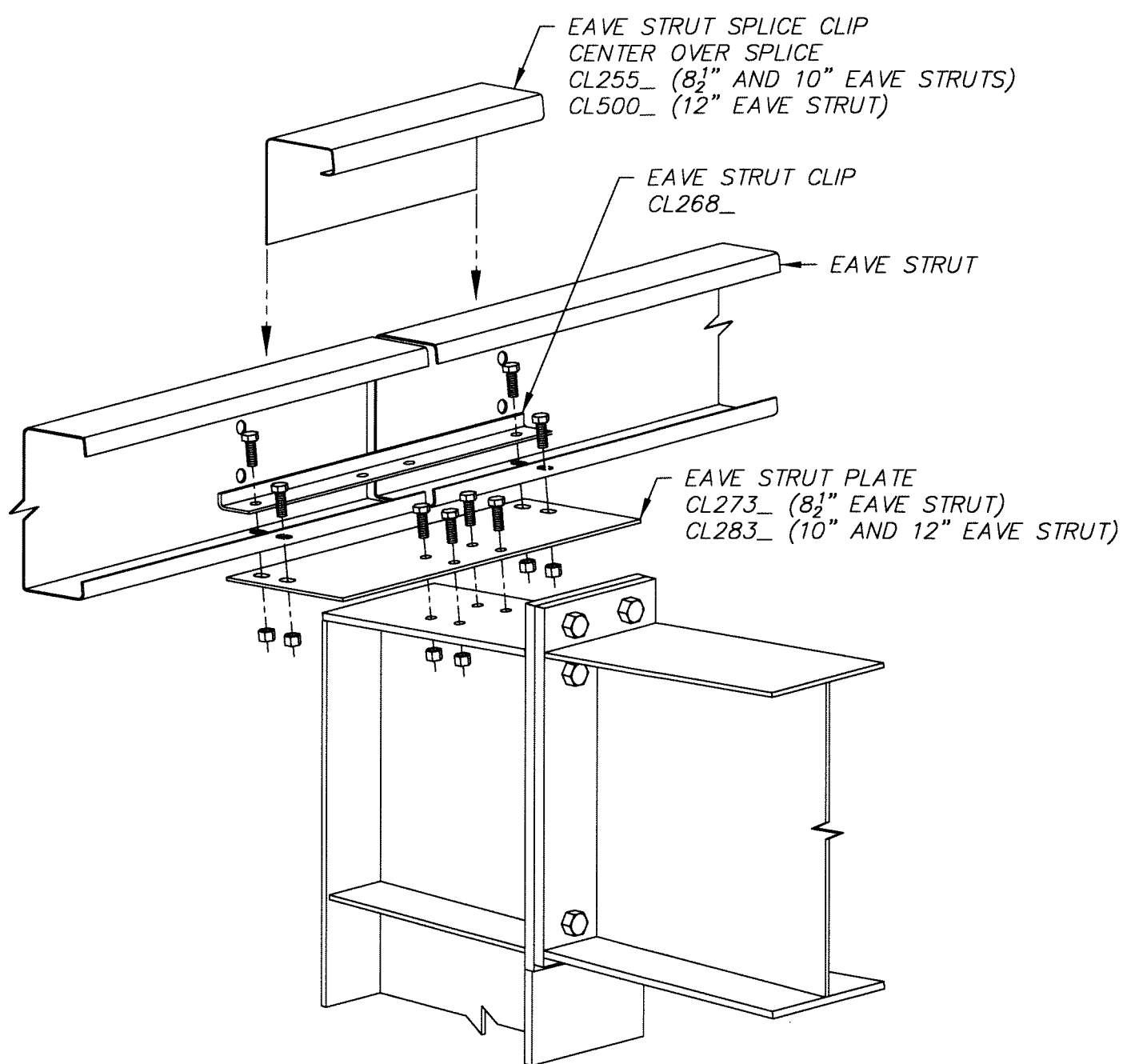
- ALL BOLTS TO BE 1/2" A325 UNLESS NOTED. FOR REQUIRED LENGTH REFER TO GRIP TABLE ON CUSTOM ERECTION DRAWINGS.

REVISIONS		BY	DATE	NOTES		DRN. BY	DATE	<div>STAR BUILDING SYSTEMS</div> <div>a Robertson Ceco company</div> <div></div>	STANDARD 8 ₂ " AND 10"	12.37.00
				THIS DRAWING IS NOT TO SCALE		RGB			PURLIN CONNECTIONS	
						CHK. BY	DATE			
										08/13/06



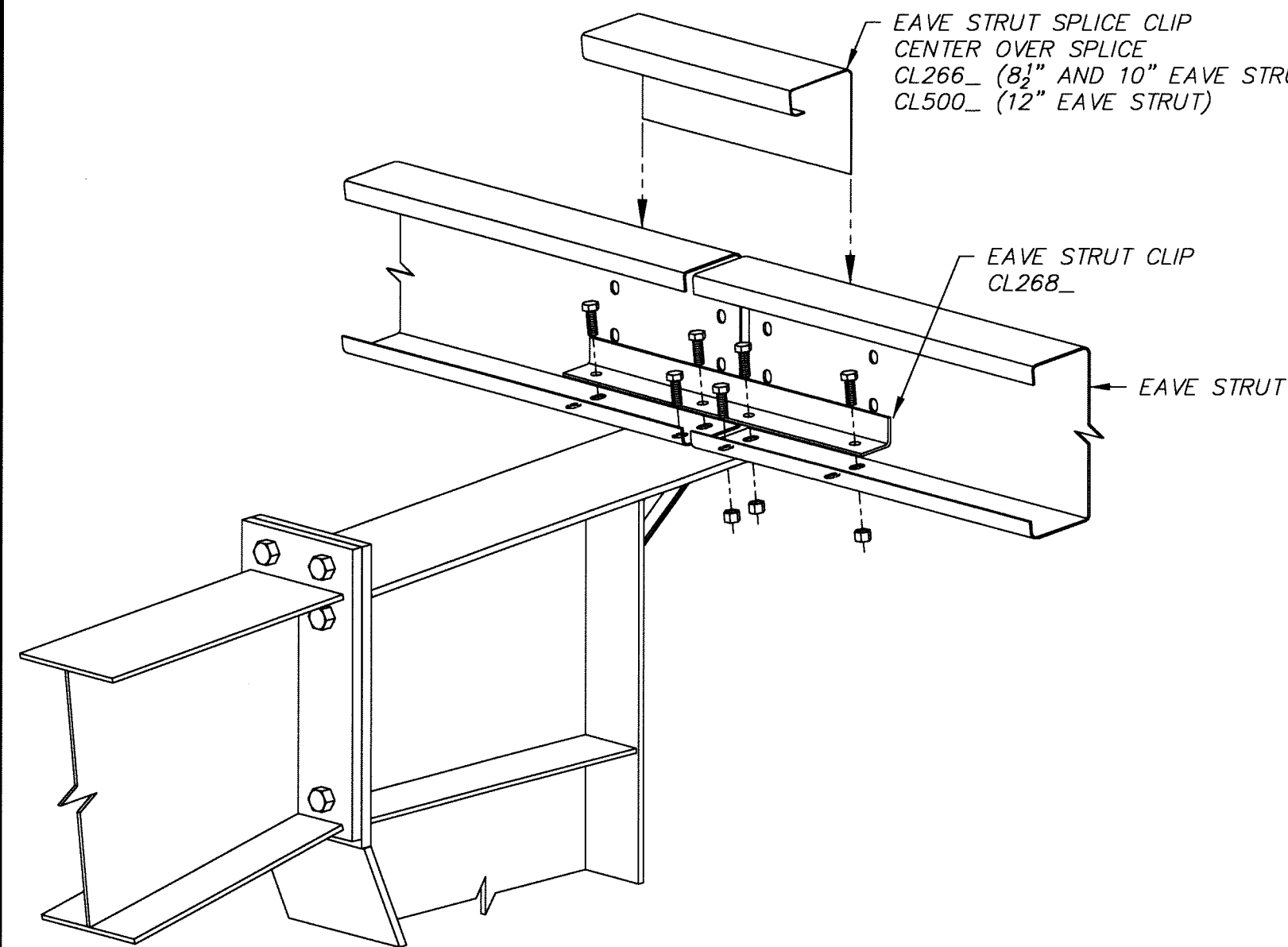
SHAPE AND CONNECTION OF COLUMN AND RAFTER VARIES. SEE "CROSS SECTION".

EAVE STRUT CONNECTION AT INTERIOR FRAME
LOW EAVE - BYPASS GIRT SYSTEM



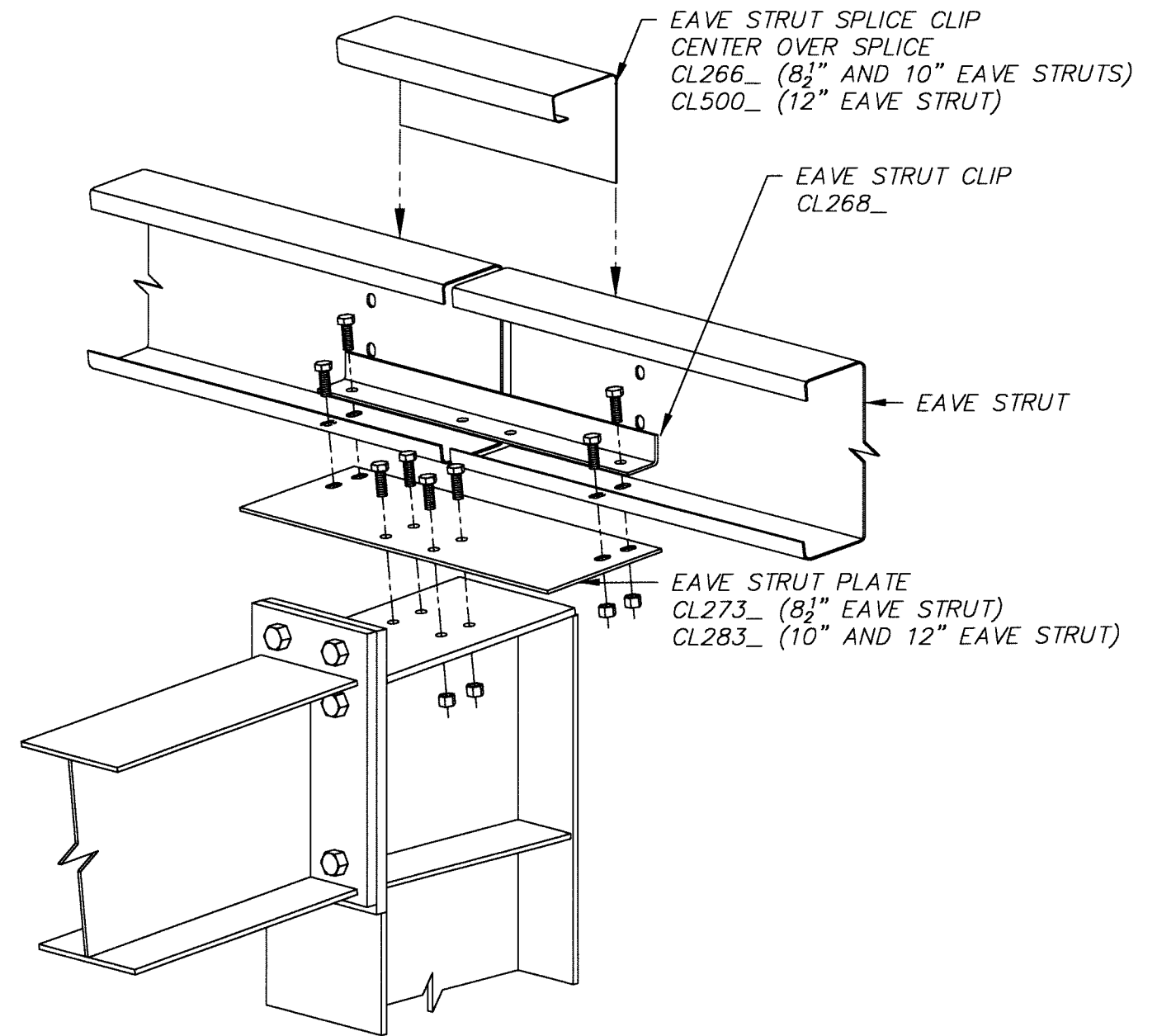
SHAPE AND CONNECTION OF COLUMN AND RAFTER VARIES. SEE "CROSS SECTION".

EAVE STRUT CONNECTION AT INTERIOR FRAME
LOW EAVE - FLUSH AND 1"INSET GIRT SYSTEMS



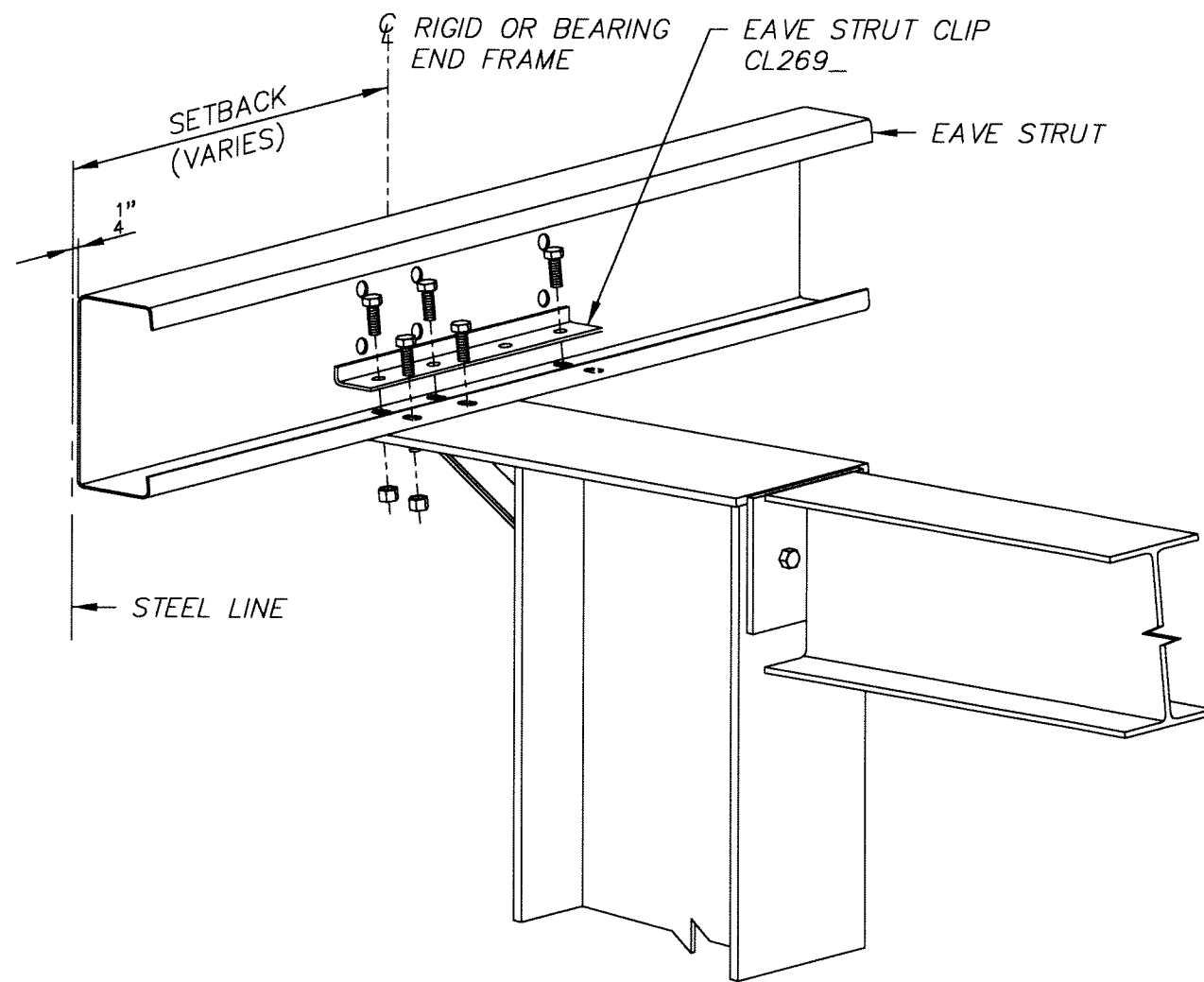
SHAPE AND CONNECTION OF COLUMN AND RAFTER VARIES. SEE "CROSS SECTION".

EAVE STRUT CONNECTION AT INTERIOR FRAME
HIGH EAVE - BYPASS GIRT SYSTEM



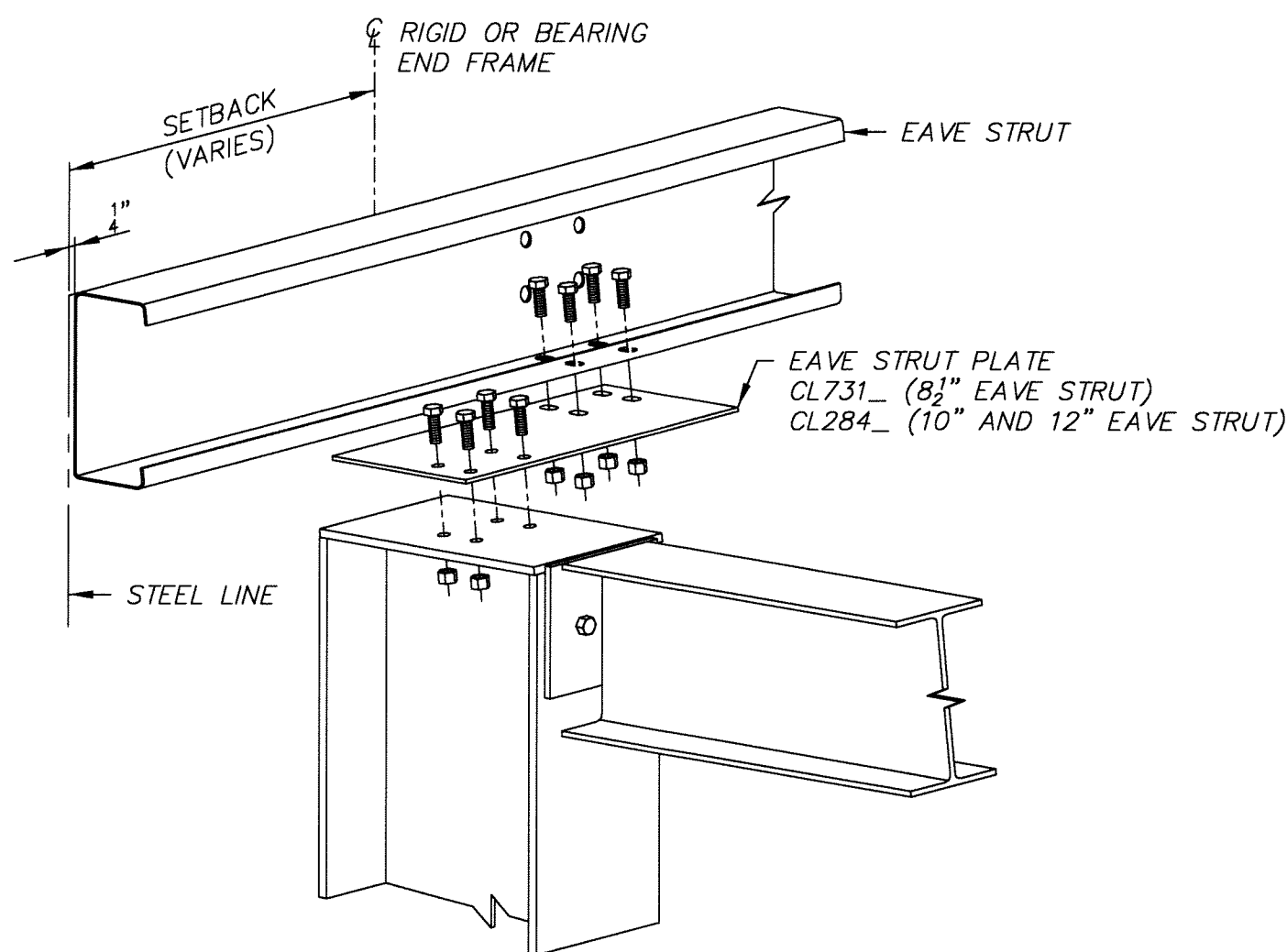
SHAPE AND CONNECTION OF COLUMN AND RAFTER VARIES. SEE "CROSS SECTION".

EAVE STRUT CONNECTION AT INTERIOR FRAME
HIGH EAVE - FLUSH AND 1"INSET GIRT SYSTEMS



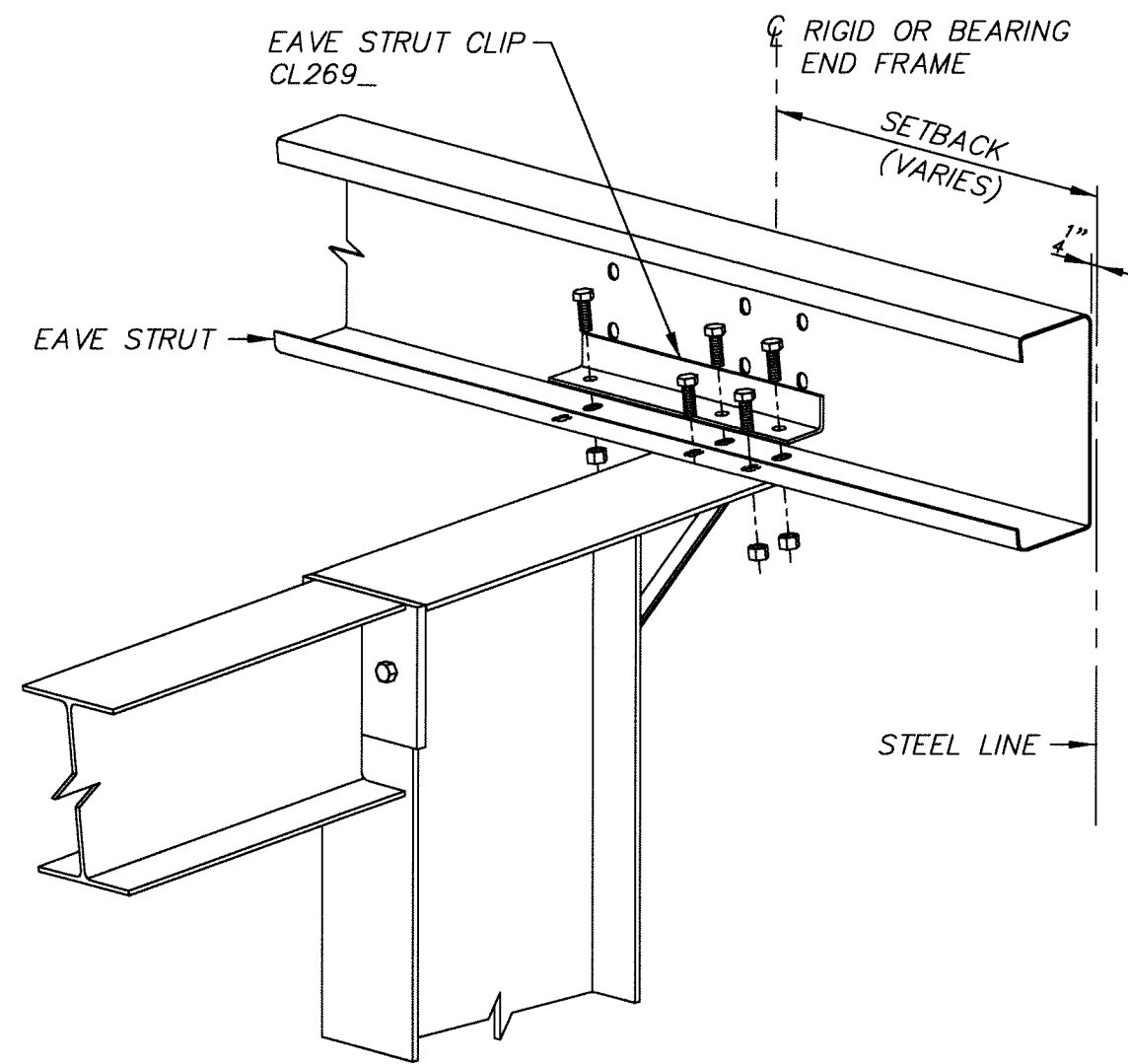
SHAPE AND CONNECTION OF COLUMN AND RAFTER VARIES. FOR RIGID FRAME, SEE "CROSS SECTION". FOR BEARING FRAME, SEE ENDWALL "ELEVATIONS".

EAVE STRUT CONNECTION AT END FRAME
LOW EAVE - BYPASS GIRT SYSTEM



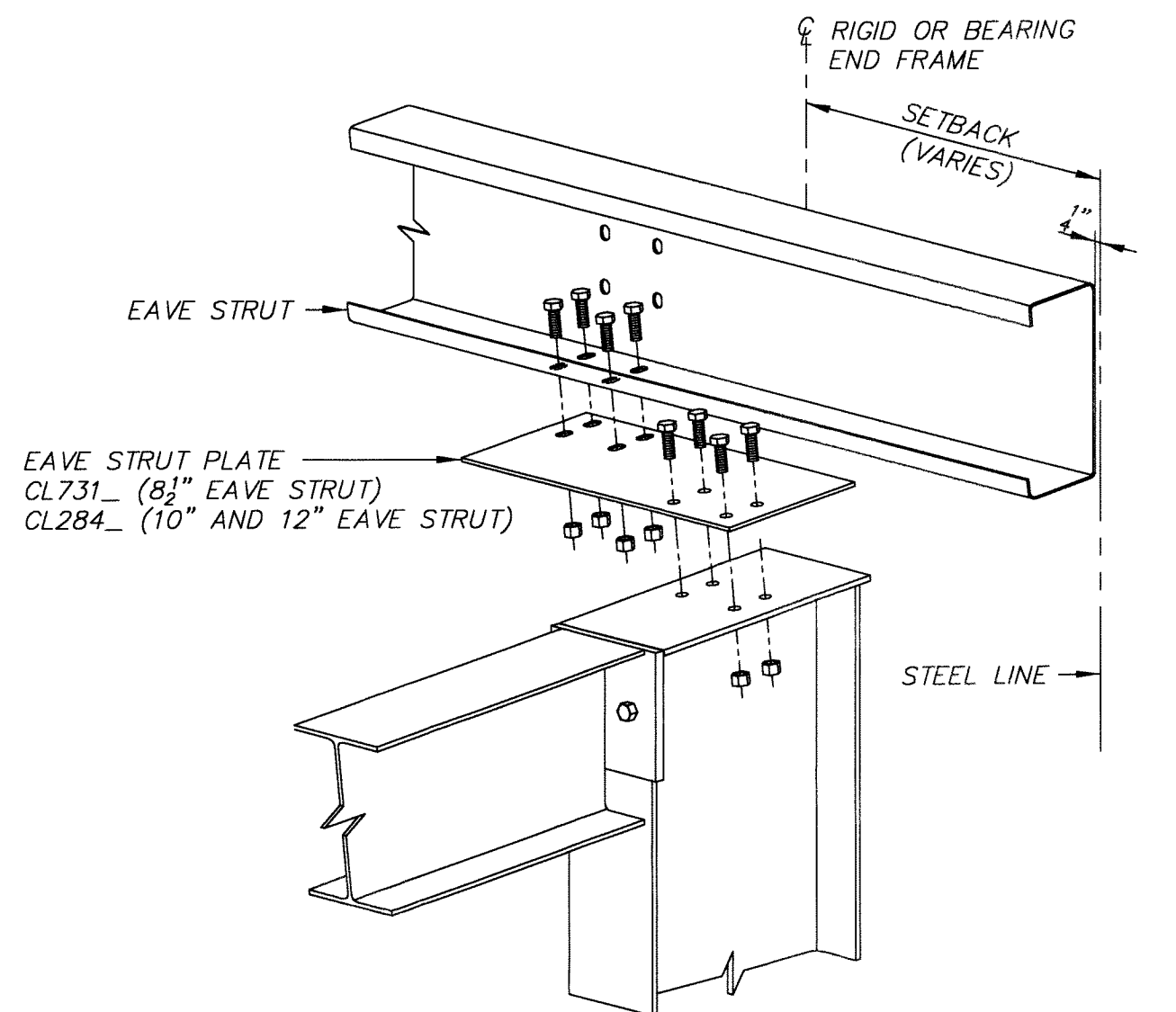
SHAPE AND CONNECTION OF COLUMN AND RAFTER VARIES. FOR RIGID FRAME, SEE "CROSS SECTION". FOR BEARING FRAME, SEE ENDWALL "ELEVATIONS".

EAVE STRUT CONNECTION AT END FRAME
LOW EAVE - FLUSH AND 1"INSET GIRT SYSTEMS



SHAPE AND CONNECTION OF COLUMN AND RAFTER VARIES. FOR RIGID FRAME, SEE "CROSS SECTION". FOR BEARING FRAME, SEE ENDWALL "ELEVATIONS".

EAVE STRUT CONNECTION AT END FRAME
HIGH EAVE - BYPASS GIRT SYSTEM



SHAPE AND CONNECTION OF COLUMN AND RAFTER VARIES. FOR RIGID FRAME, SEE "CROSS SECTION". FOR BEARING FRAME, SEE ENDWALL "ELEVATIONS".

EAVE STRUT CONNECTION AT END FRAME
HIGH EAVE - FLUSH AND 1"INSET GIRT SYSTEMS

NOTES

1. ALL BOLTS TO BE 1/2" A325 UNLESS NOTED. FOR REQUIRED LENGTH REFER TO GRIP TABLE ON CUSTOM ERECTION DRAWINGS.

REVISIONS

BY

DATE

NOTES

THIS DRAWING IS NOT TO SCALE

DRN. BY

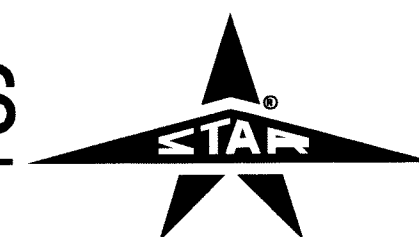
DATE

CHK. BY

DATE

STAR BUILDING SYSTEMS

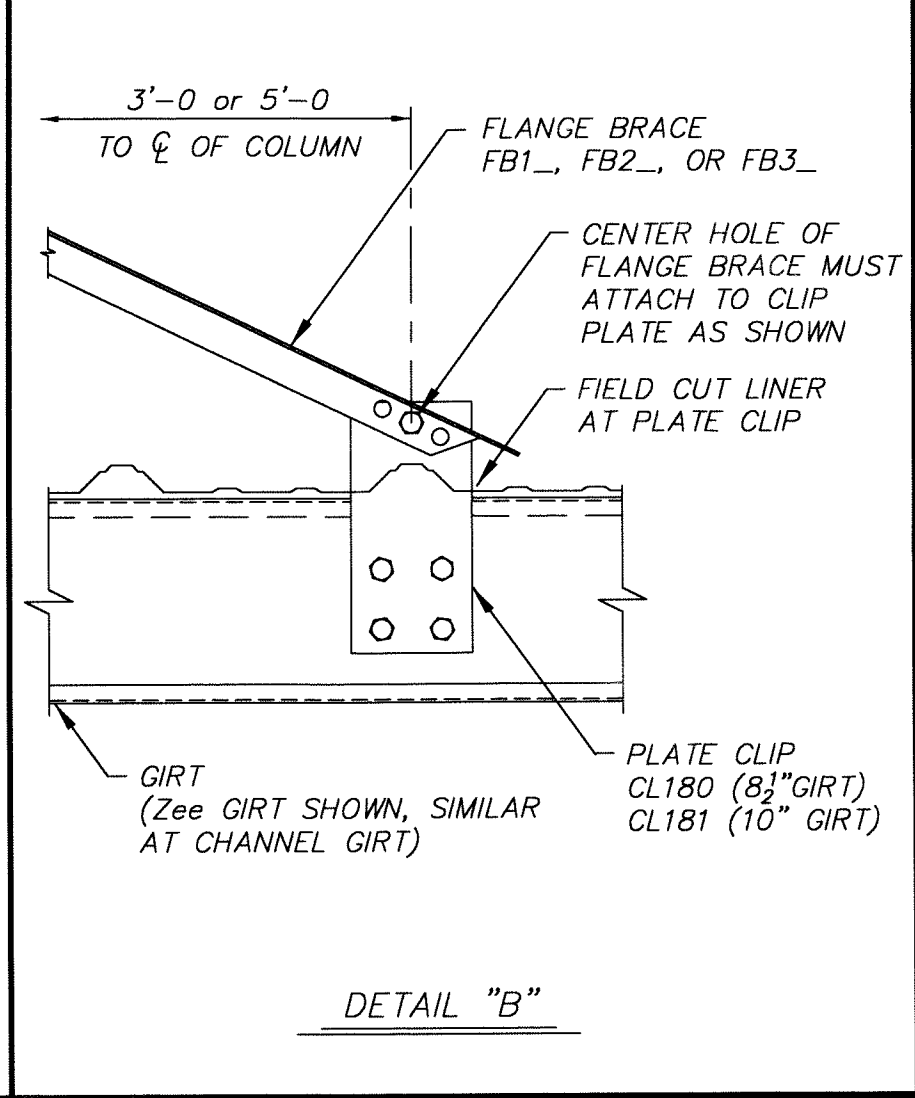
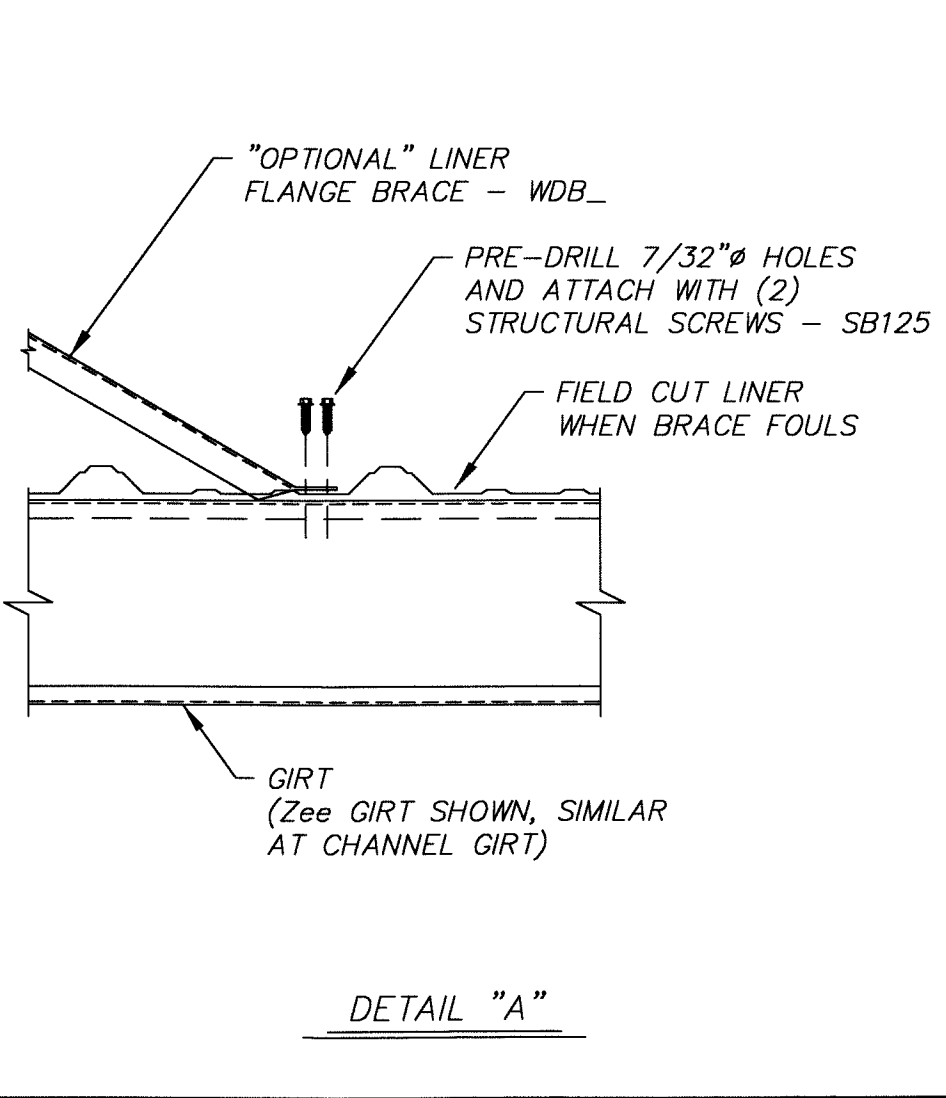
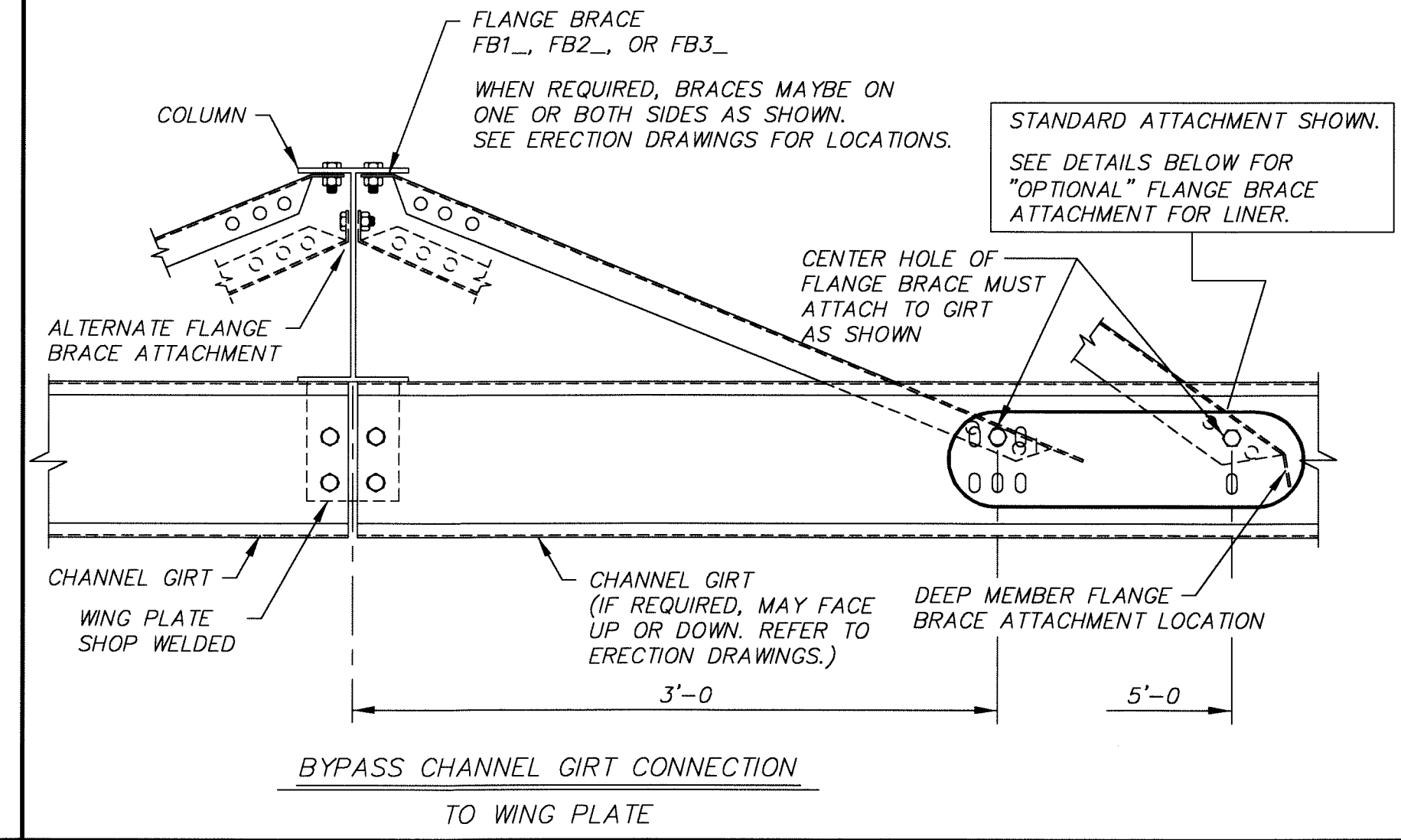
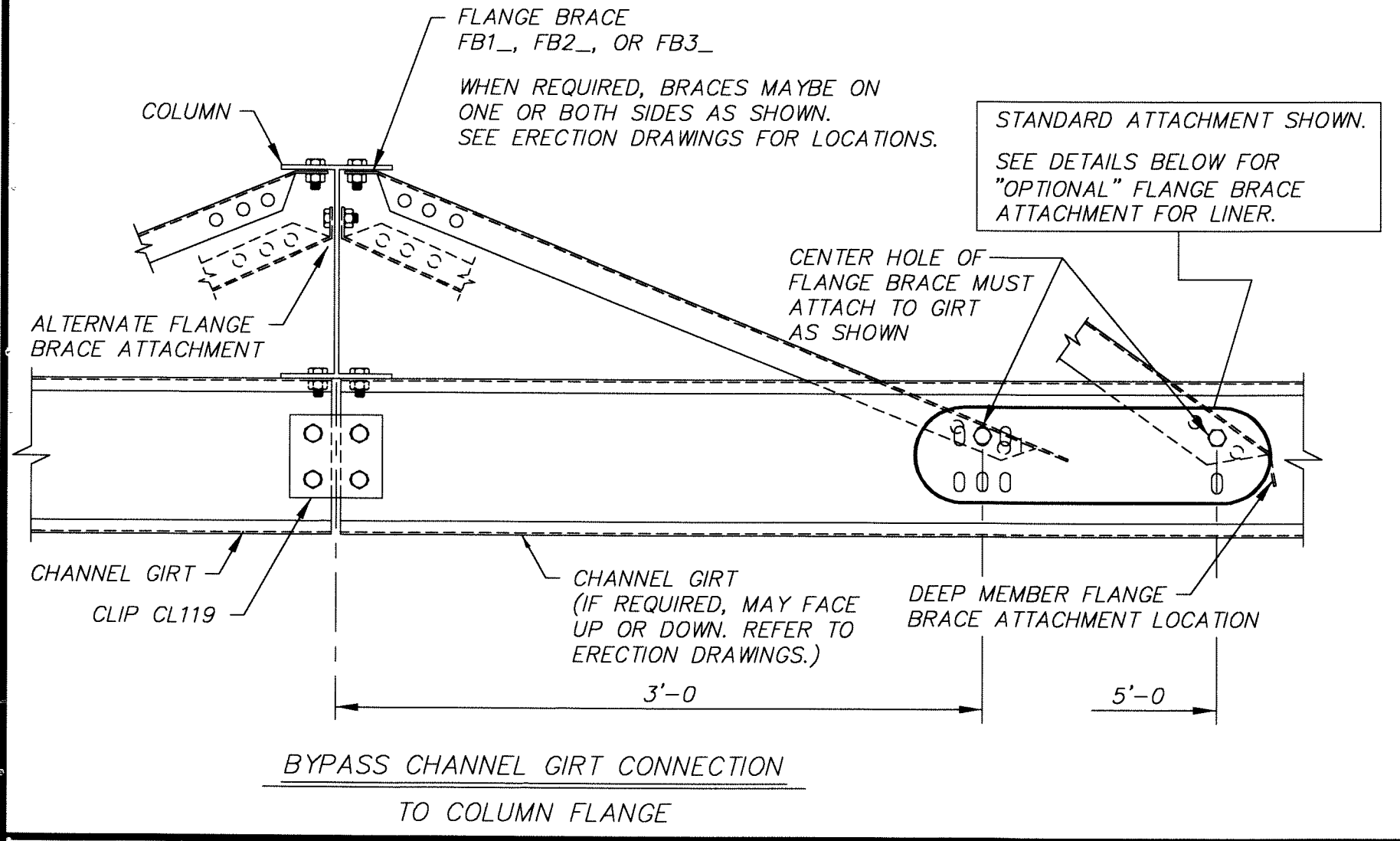
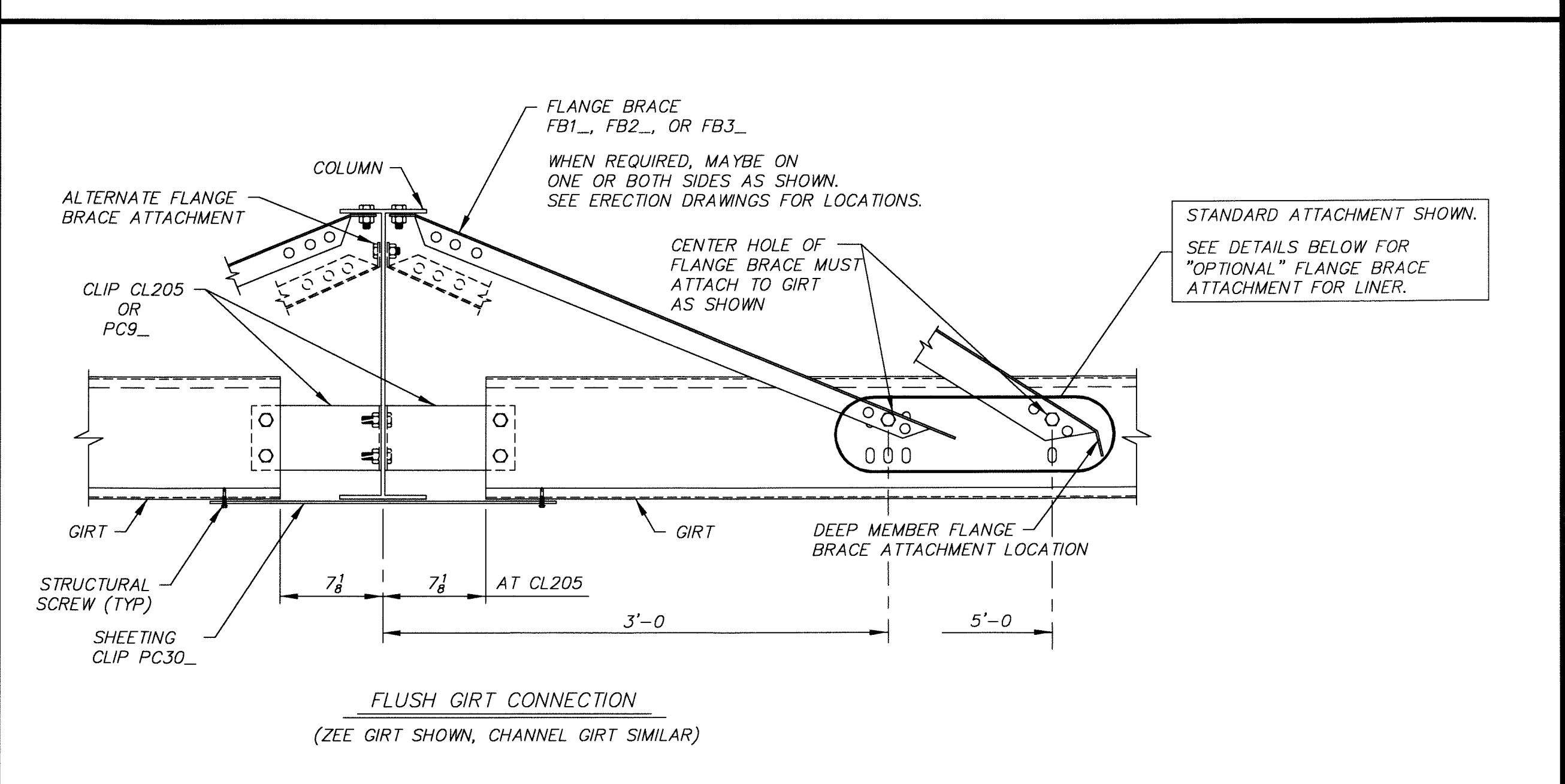
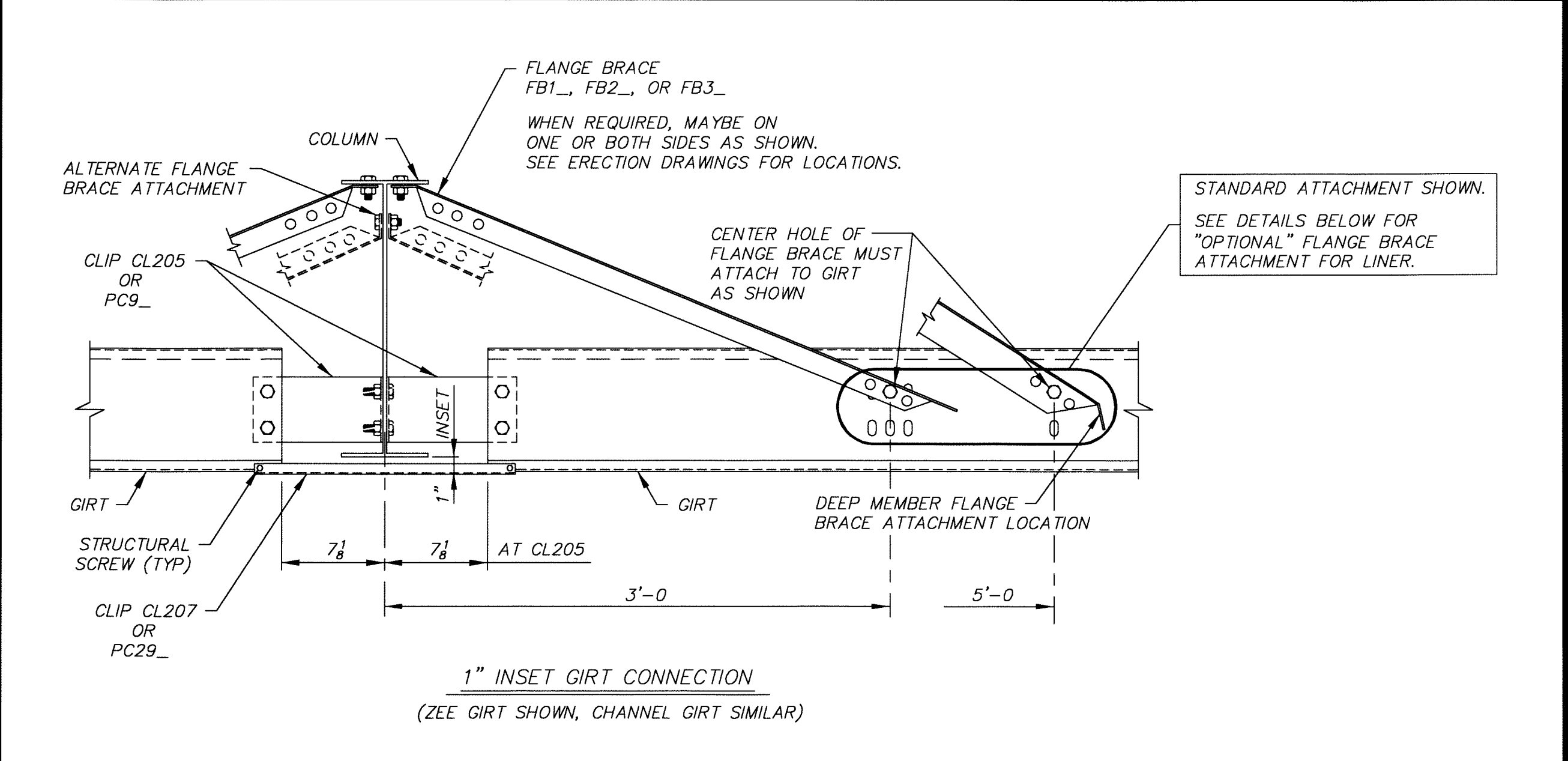
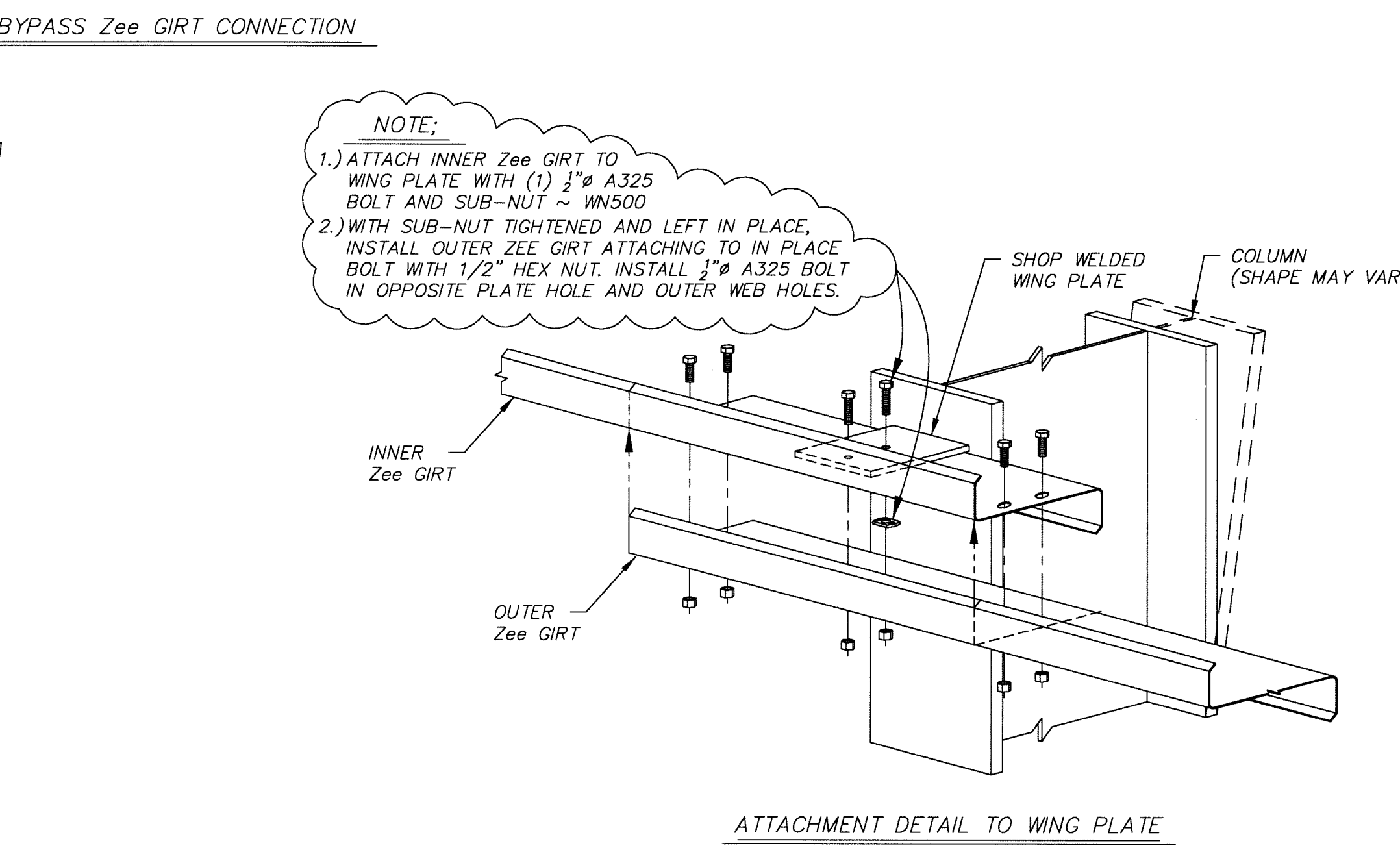
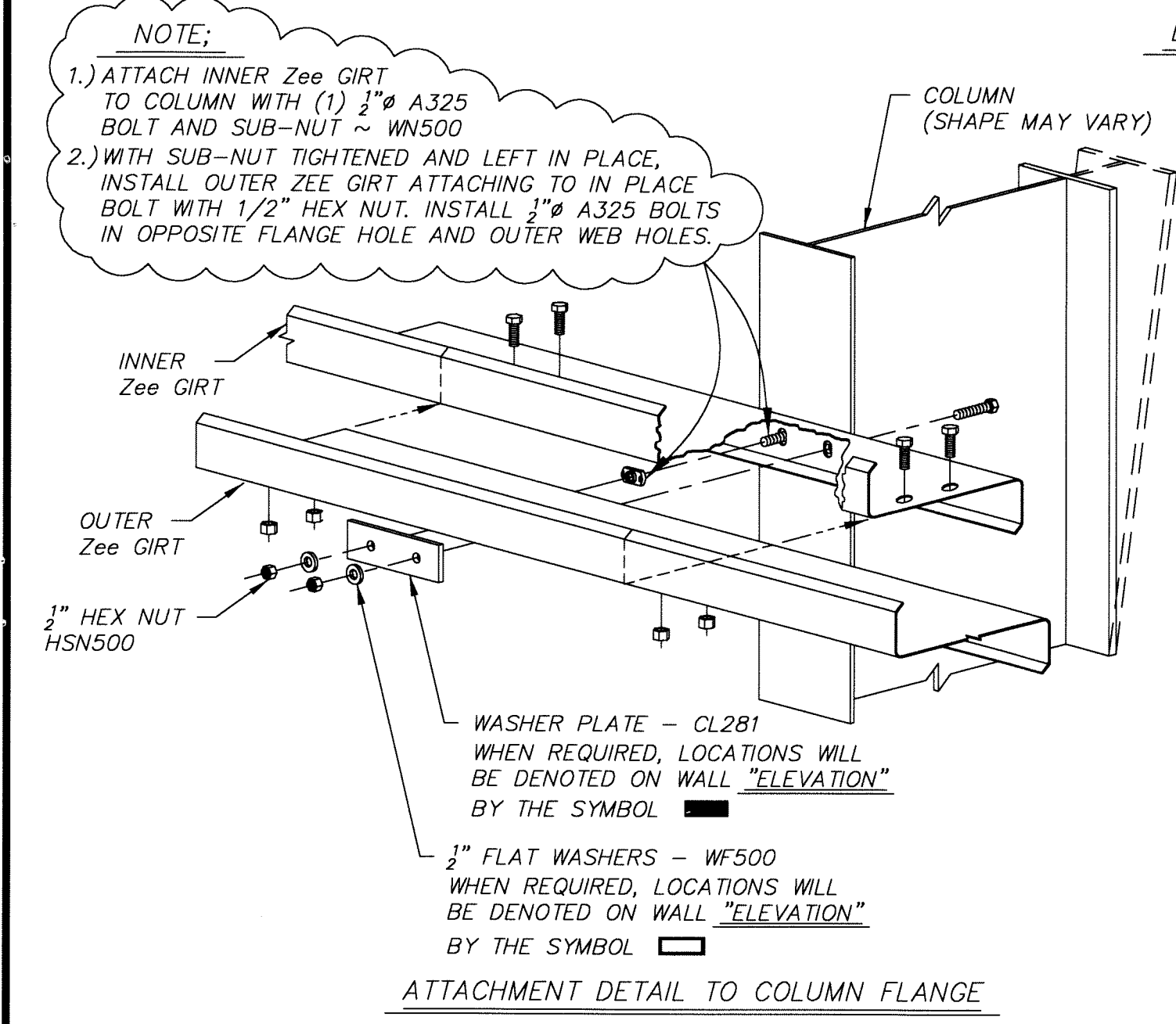
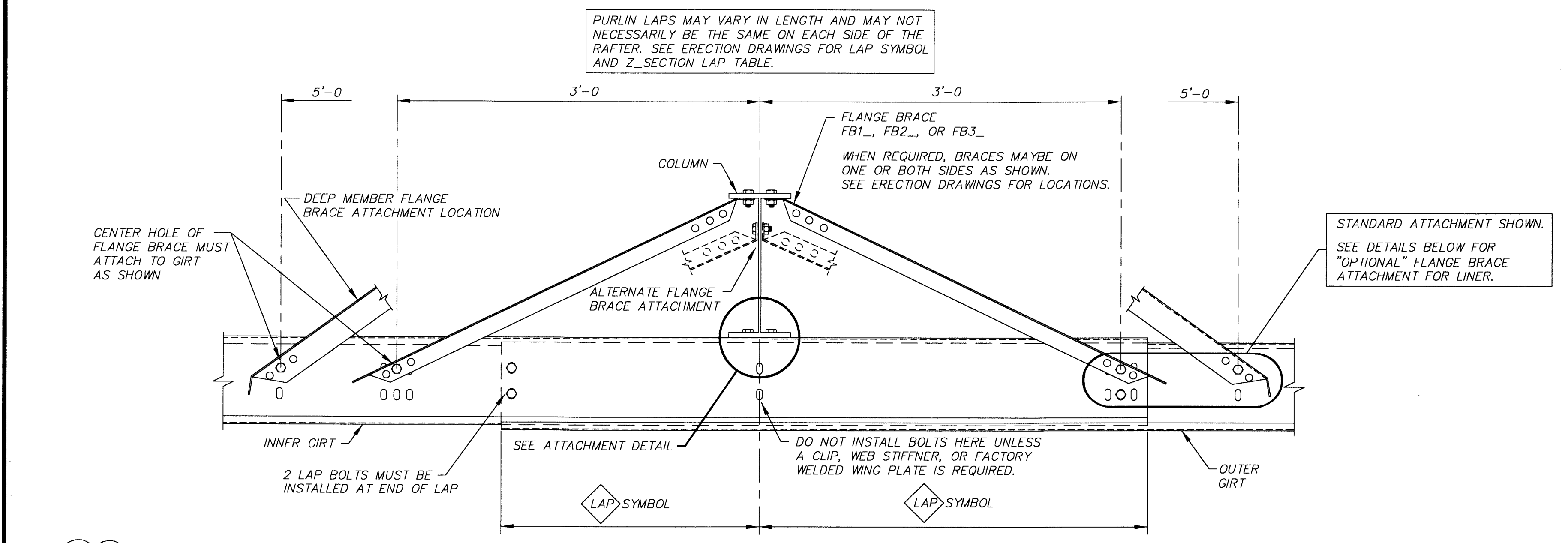
a Robertson Ceco company



STANDARD EAVE STRUT CONNECTIONS

12.40.00

08/13/06



NOTES

1. ALL BOLTS TO BE 3/4" A325 UNLESS NOTED. FOR REQUIRED LENGTH REFER TO GRIP TABLE ON CUSTOM ERECTION DRAWINGS.

REVISIONS	BY	DATE	NOTES

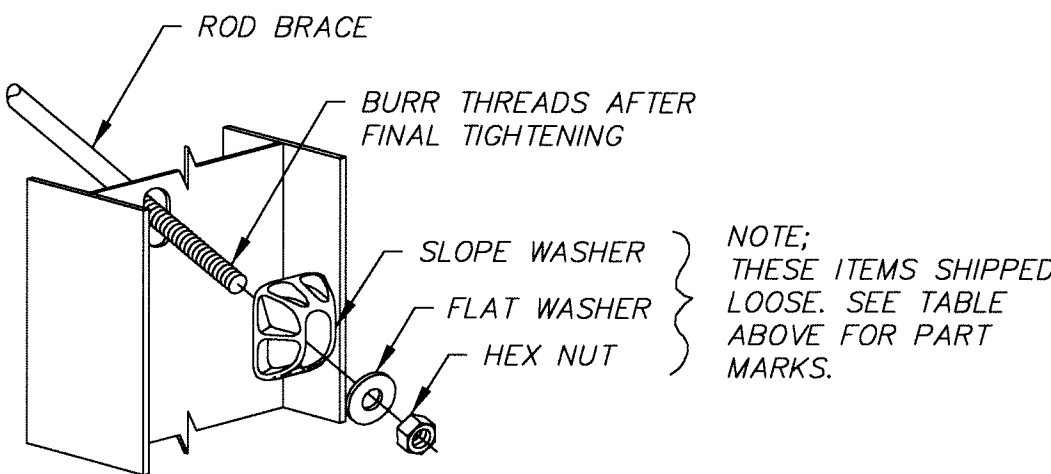
THIS DRAWING IS NOT TO SCALE

DRN. BY
RGB
CHK. BY
DATE

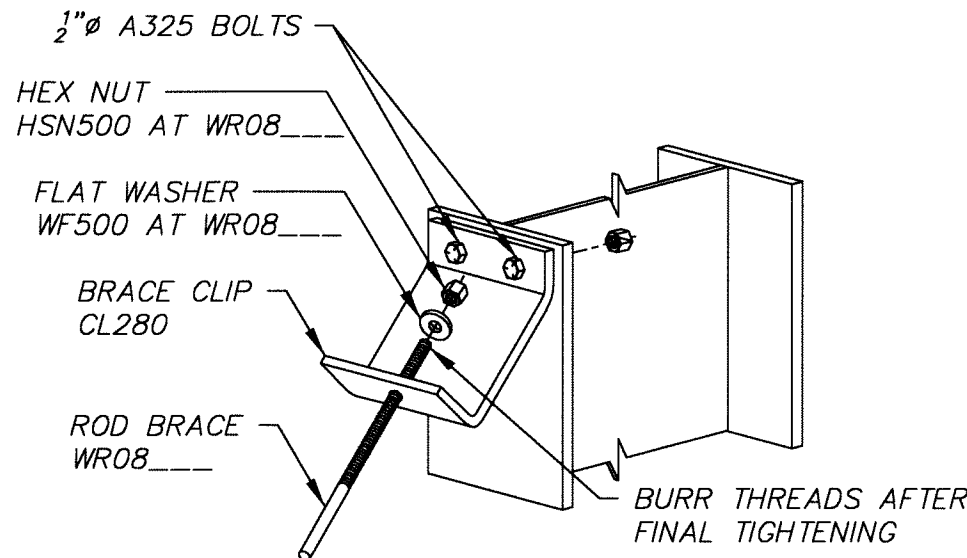
DATE

STAR BUILDING SYSTEMS
a Robertson Ceco company

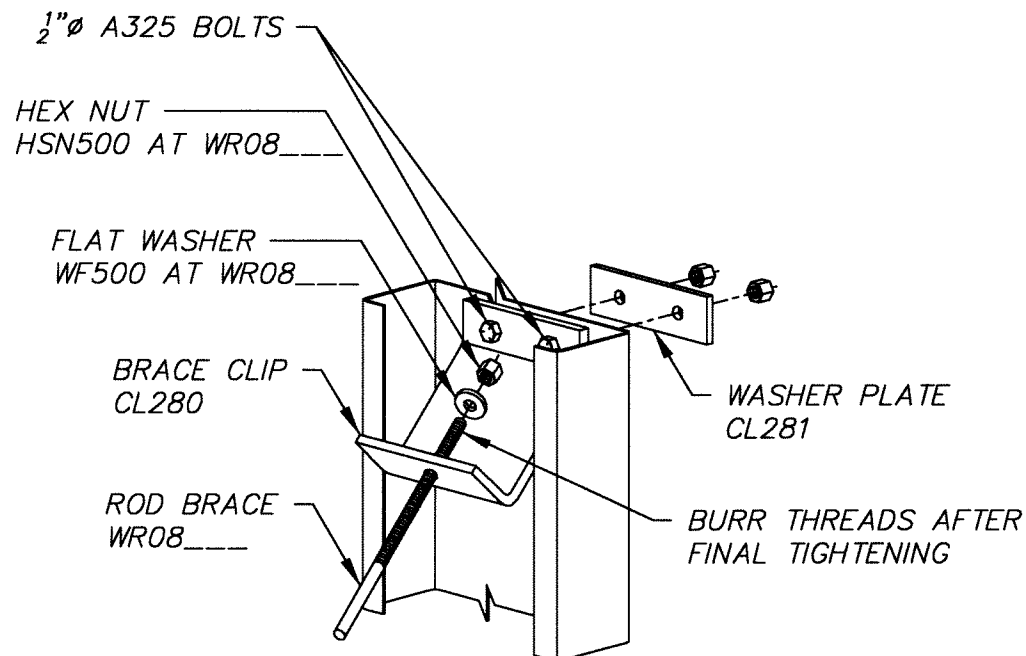
PART MARKS FOR ROD BRACE				
THREAD SIZE	ROD BRACE	SLOPE WASHER	FLAT WASHER	HEX NUT
$\frac{1}{2}$ " \varnothing	WR08_____	WS110	WF500	HSN500
$\frac{3}{8}$ " \varnothing	WR10_____	WS110	WF625	HSN625
$\frac{3}{4}$ " \varnothing	WR12_____	WS120	WF750	HSN750
$\frac{7}{8}$ " \varnothing	WR14_____	WS120	WF875	HSN875
1" \varnothing	WR16_____	WS130	WF1000	HSN1000



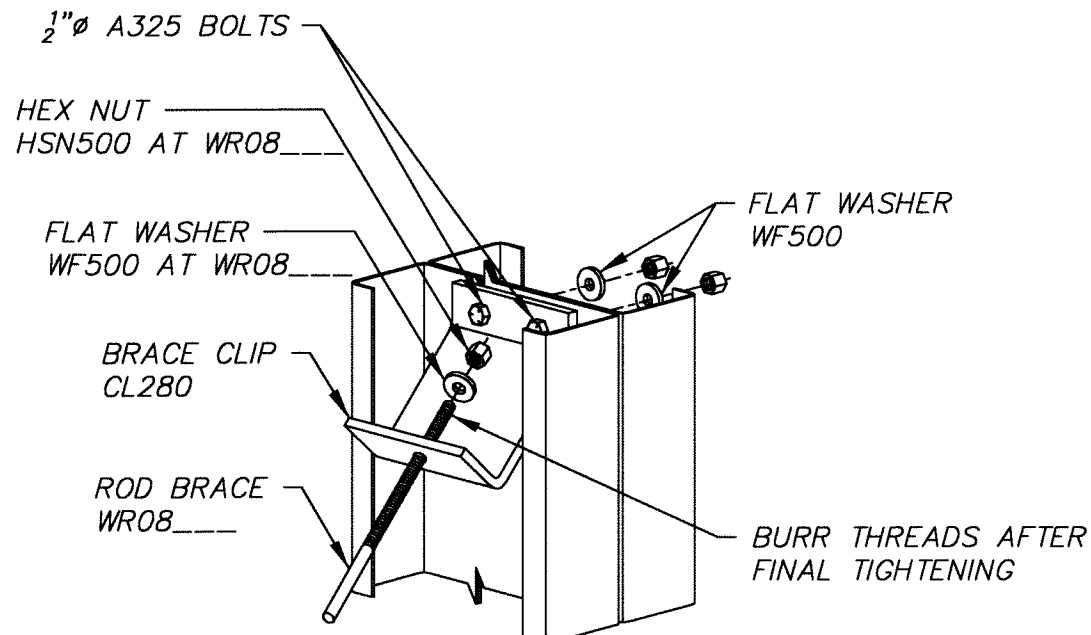
ROD BRACE ATTACHMENT
AT WEB



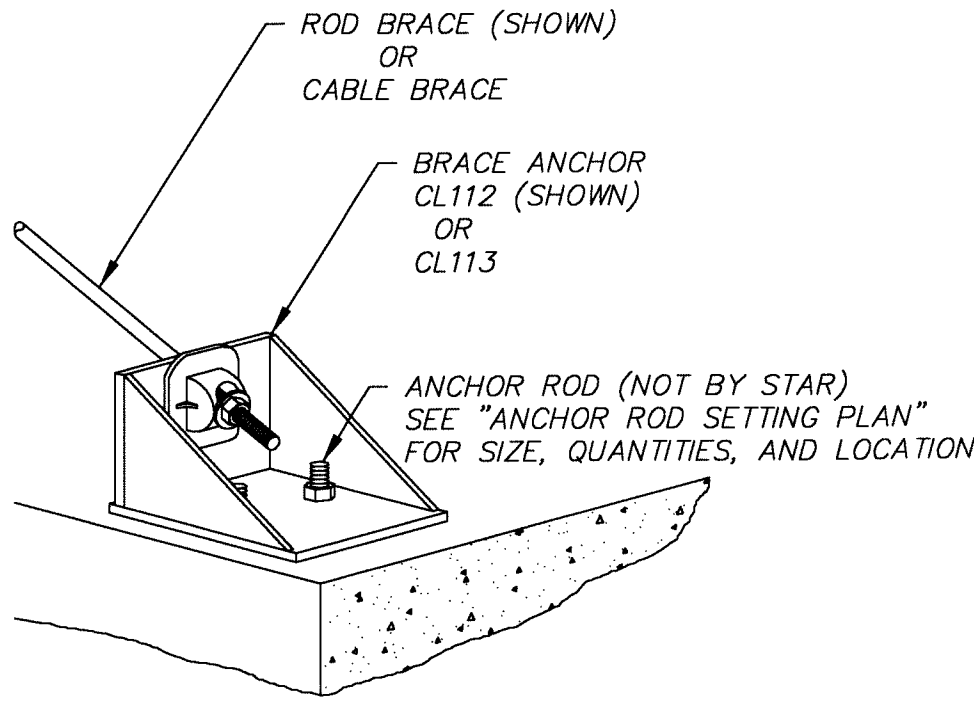
ROD BRACE ATTACHMENT
AT FLANGE



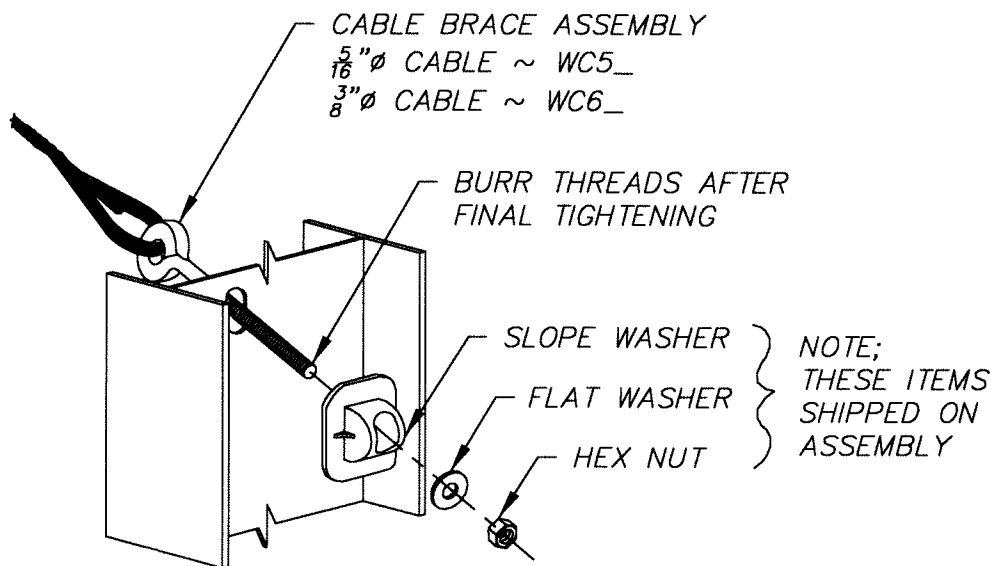
ROD BRACE ATTACHMENT
AT SINGLE CEE COLUMN



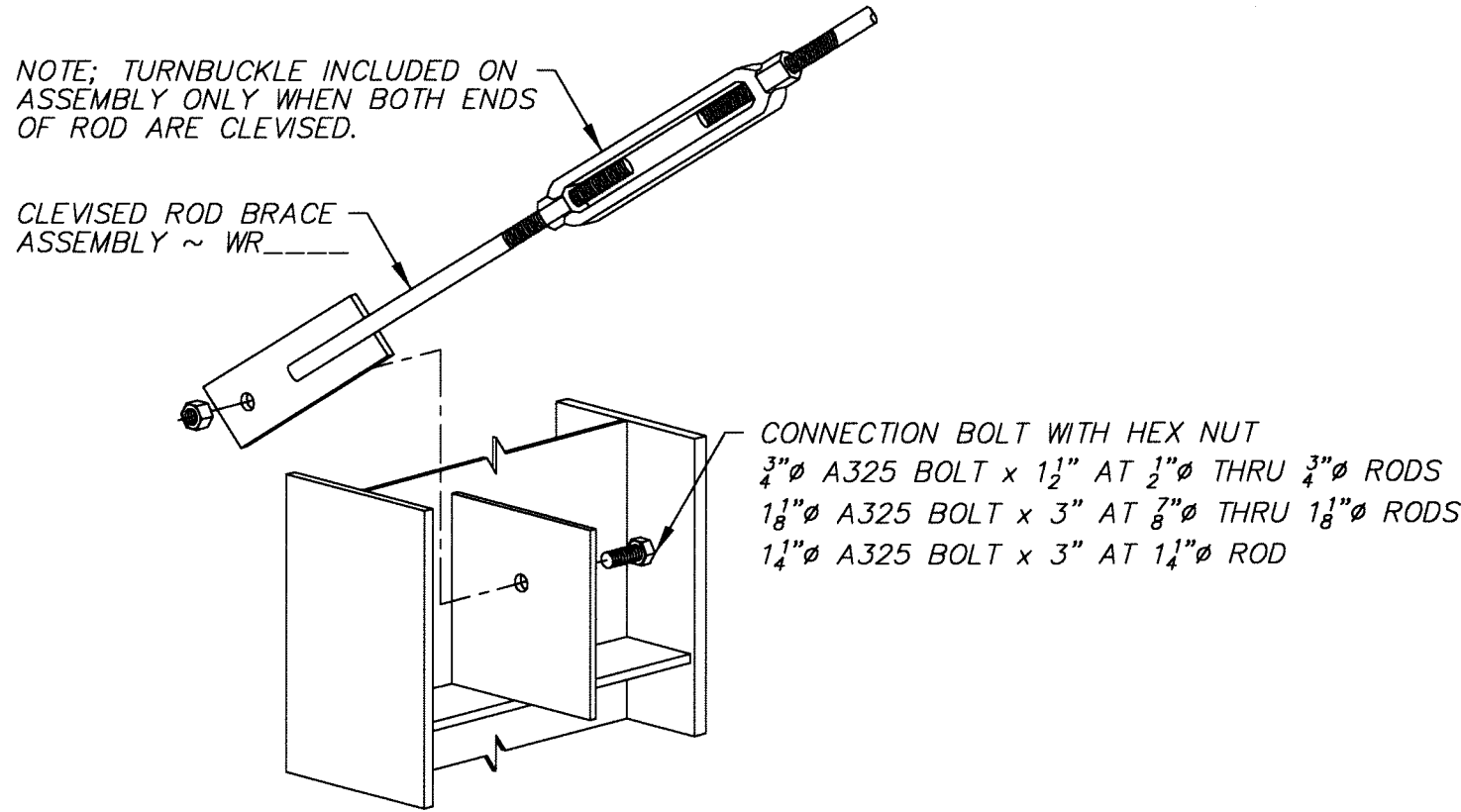
ROD BRACE ATTACHMENT
AT DOUBLE CEE COLUMN



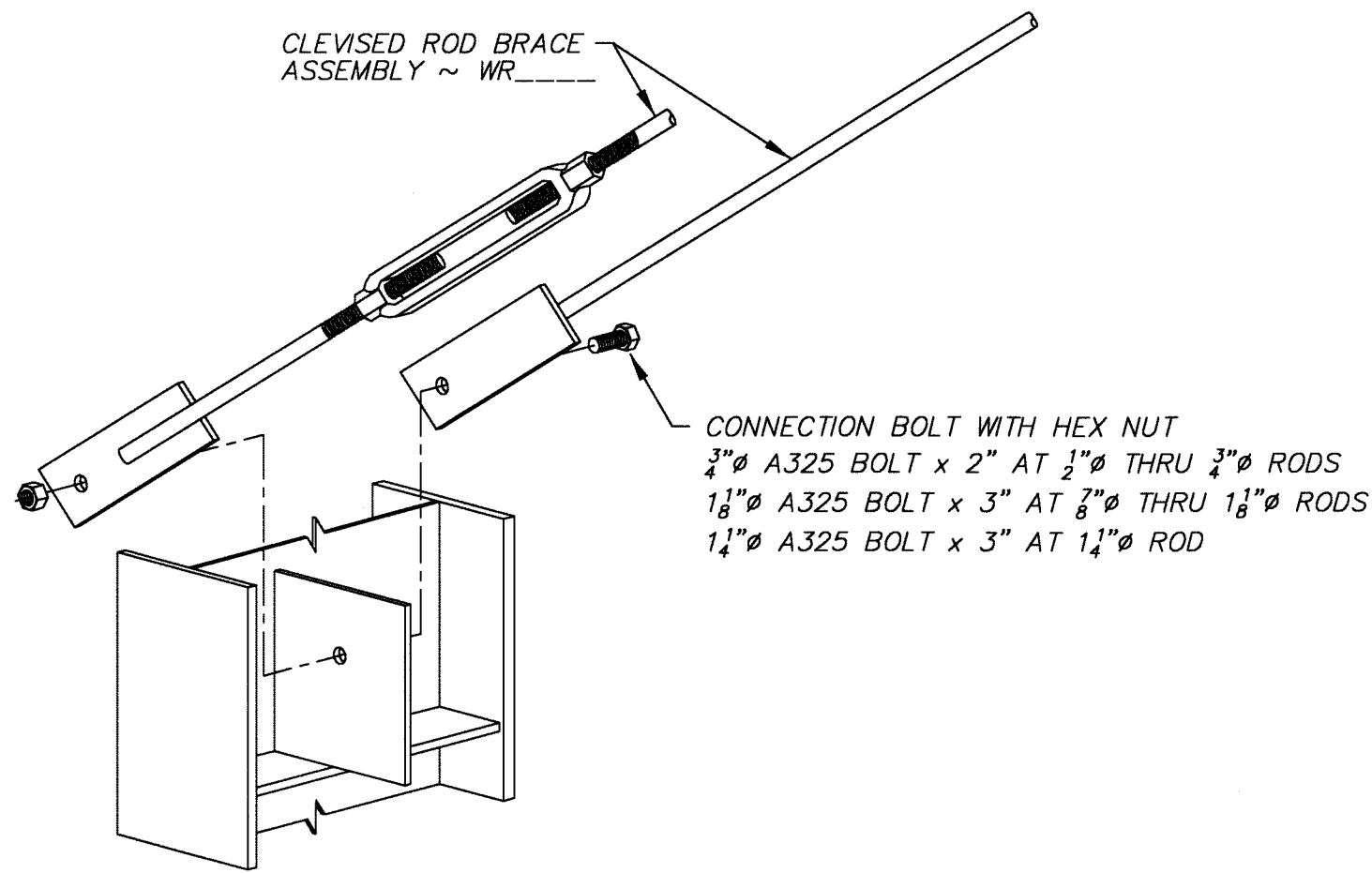
ROD AND CABLE BRACE ATTACHMENT
AT BRACE ANCHOR



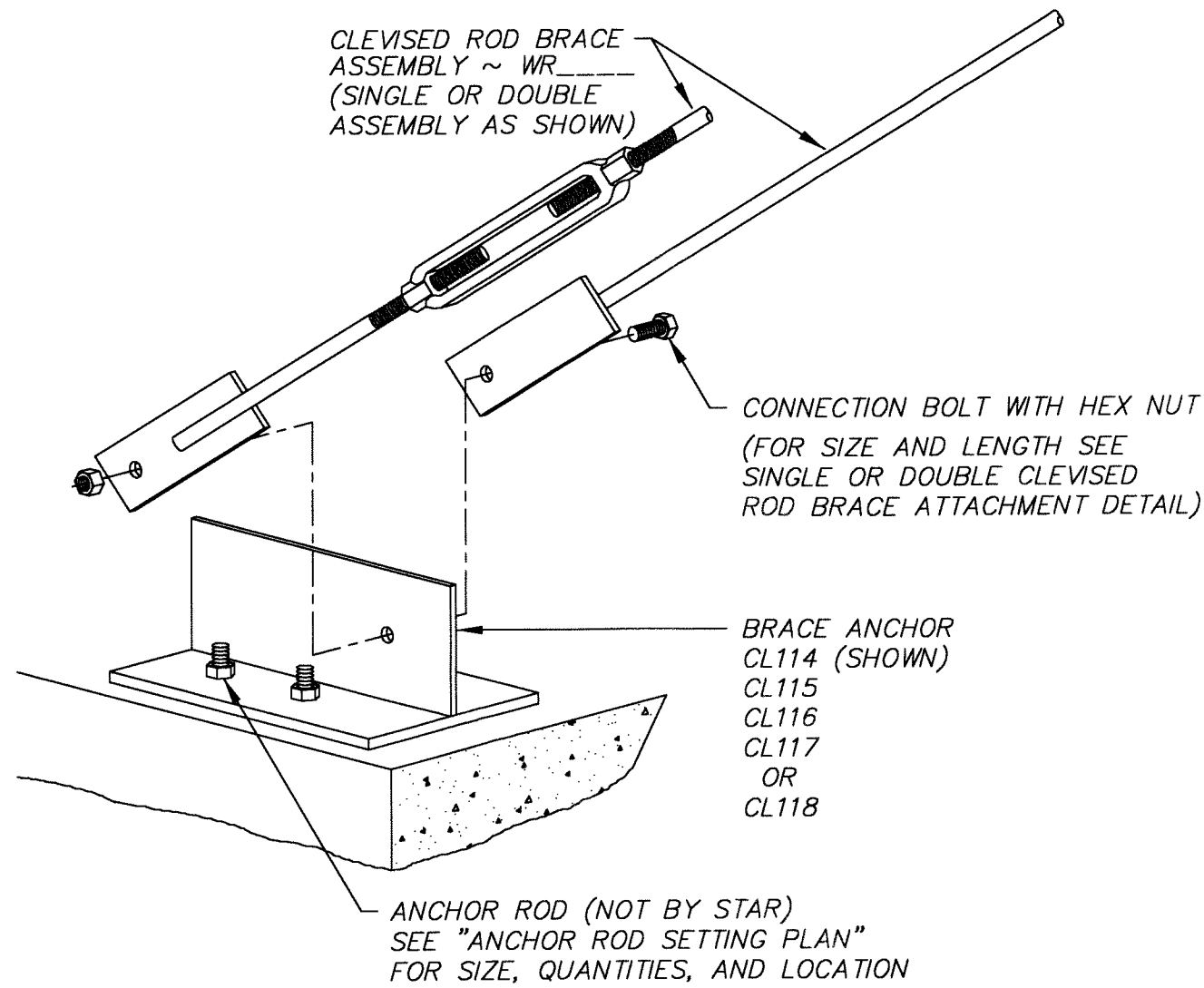
CABLE BRACE ATTACHMENT
AT WEB



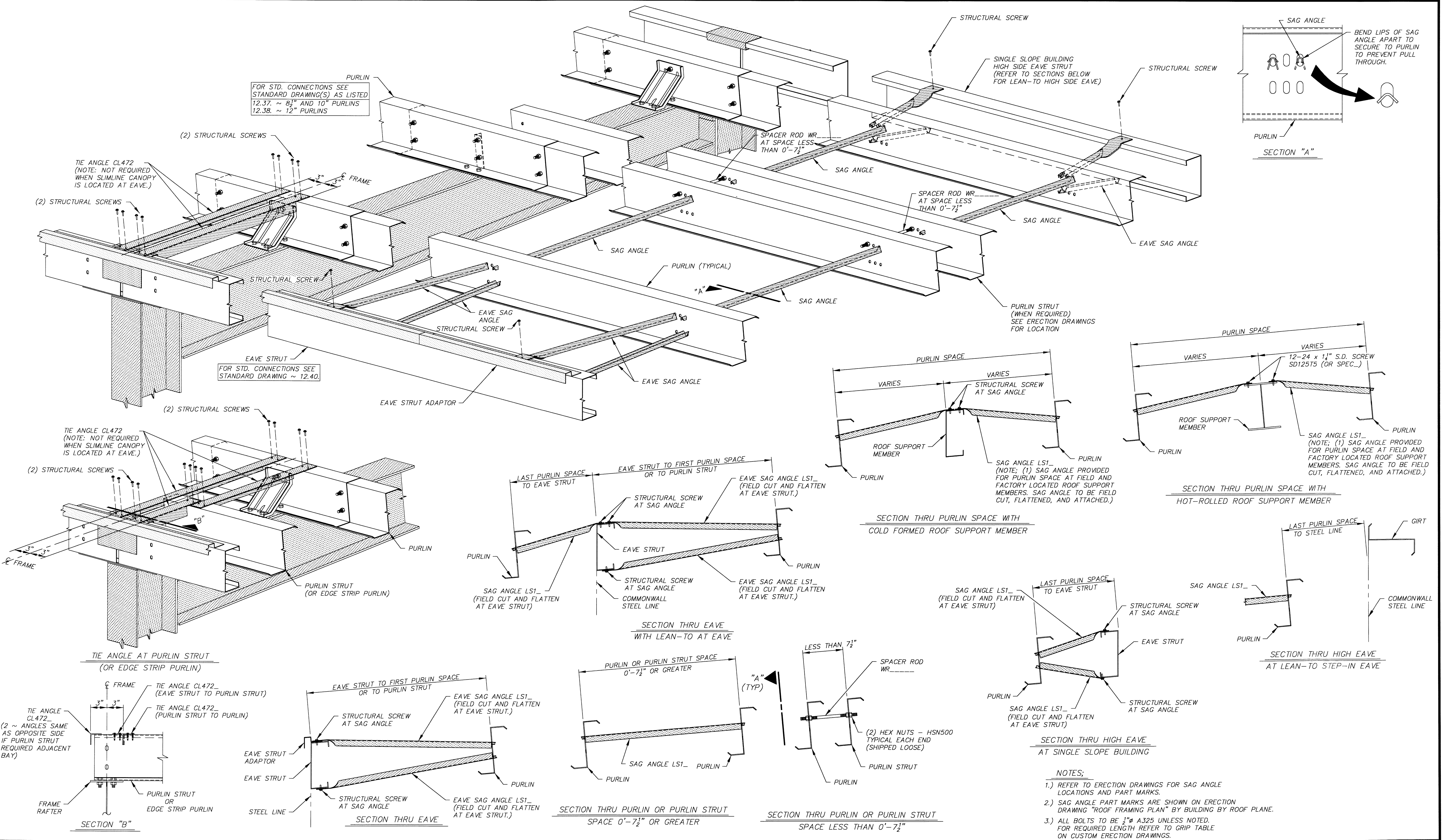
SINGLE CLEVISED ROD BRACE ATTACHMENT
DETAIL SHOWN VARIES



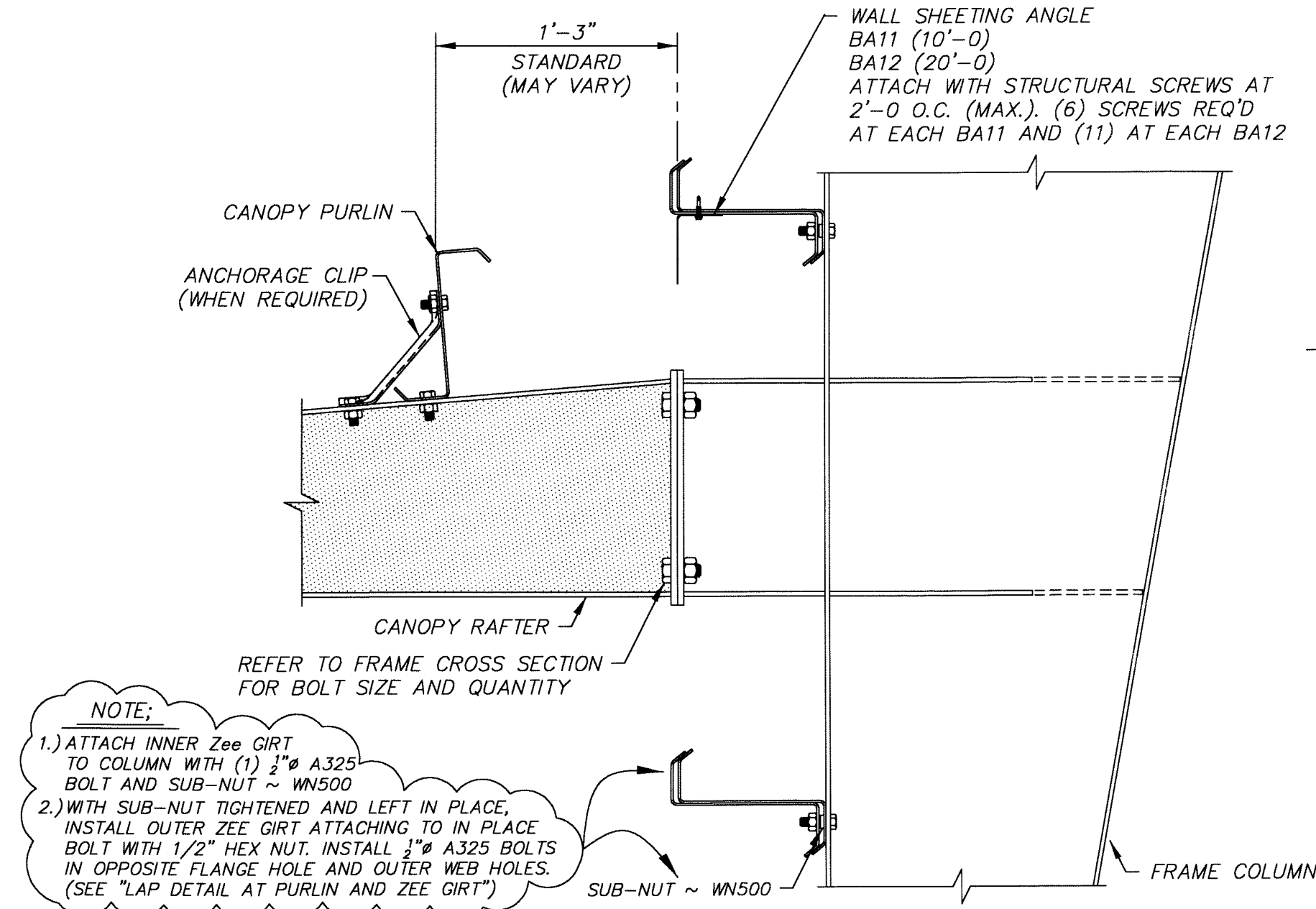
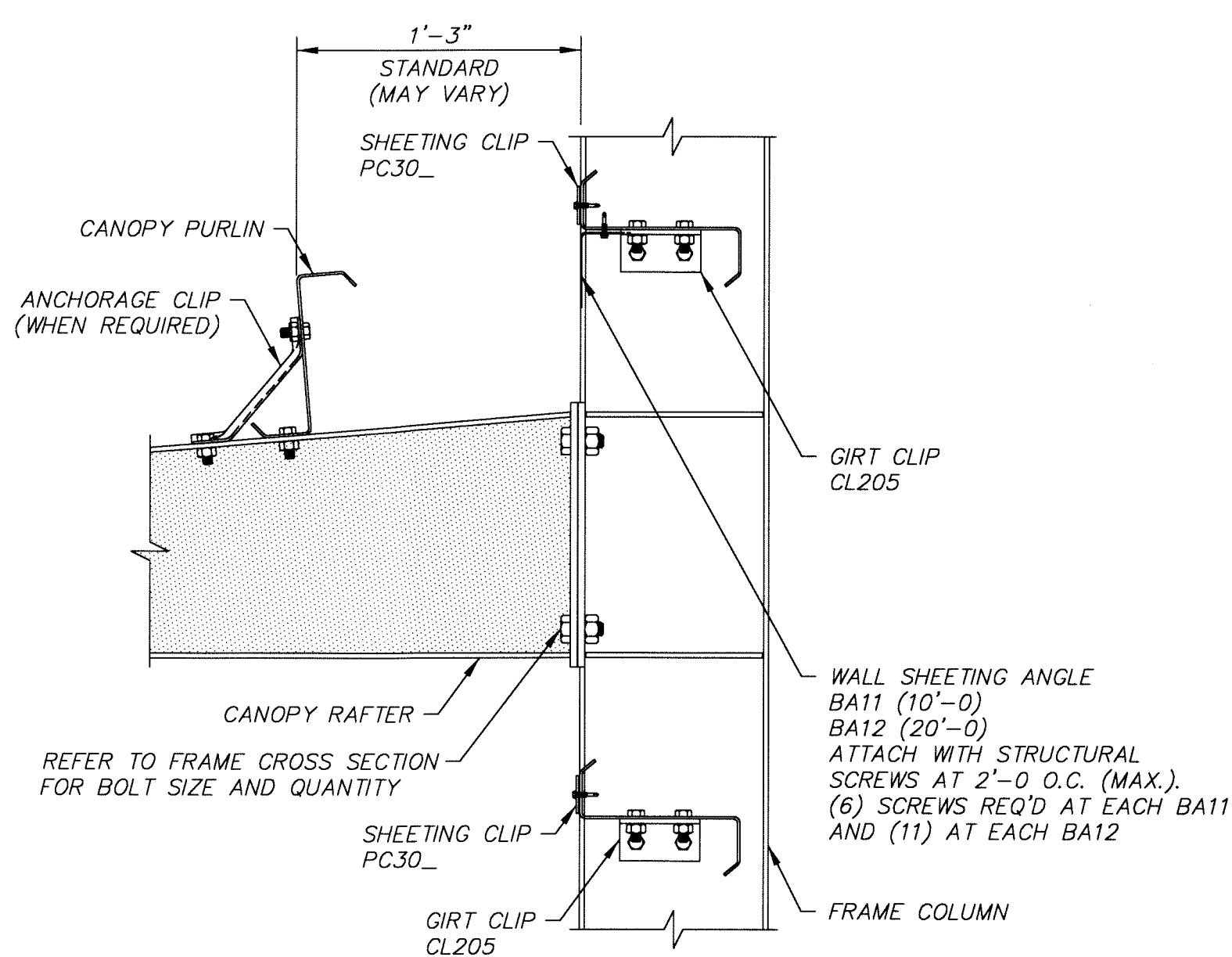
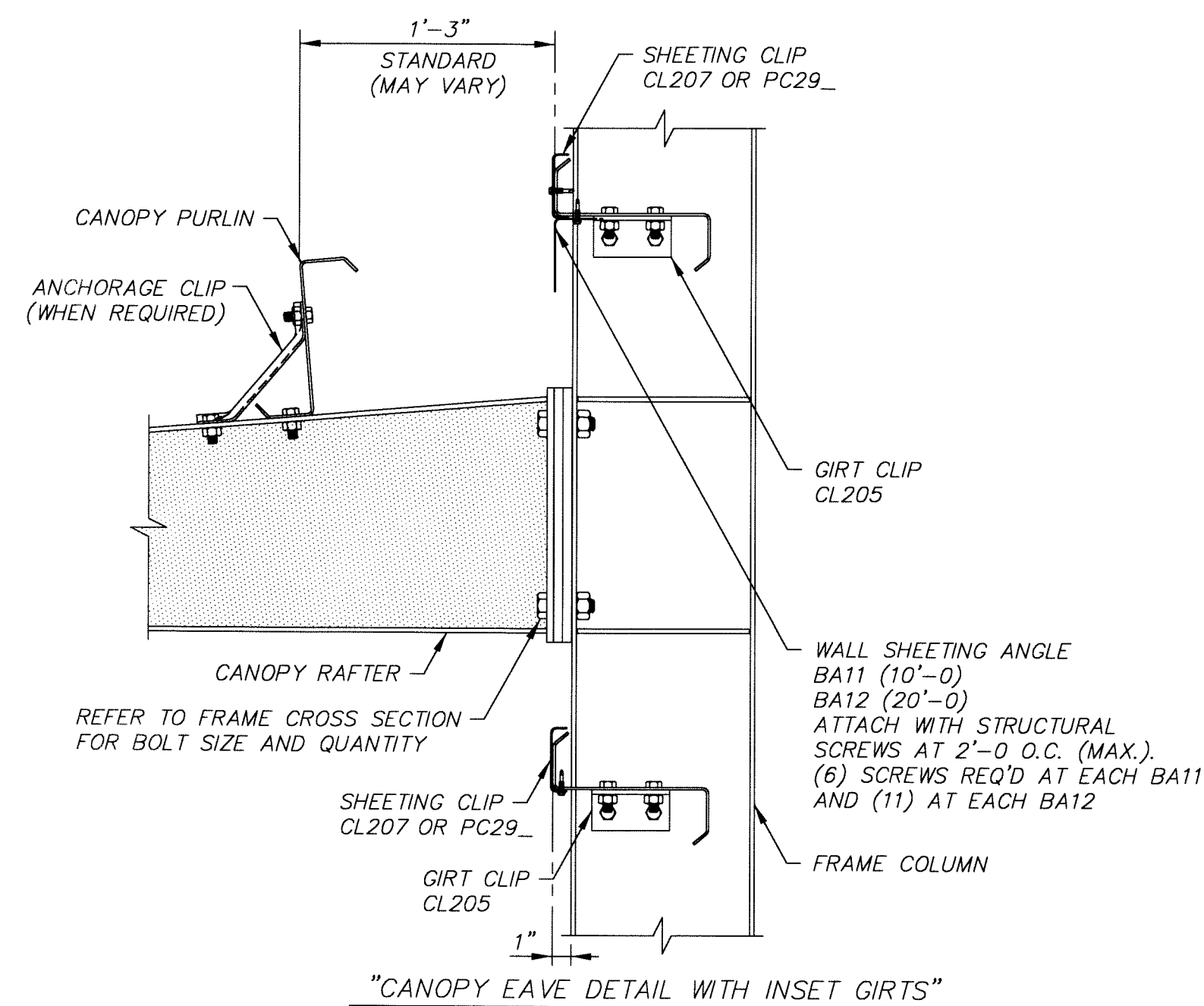
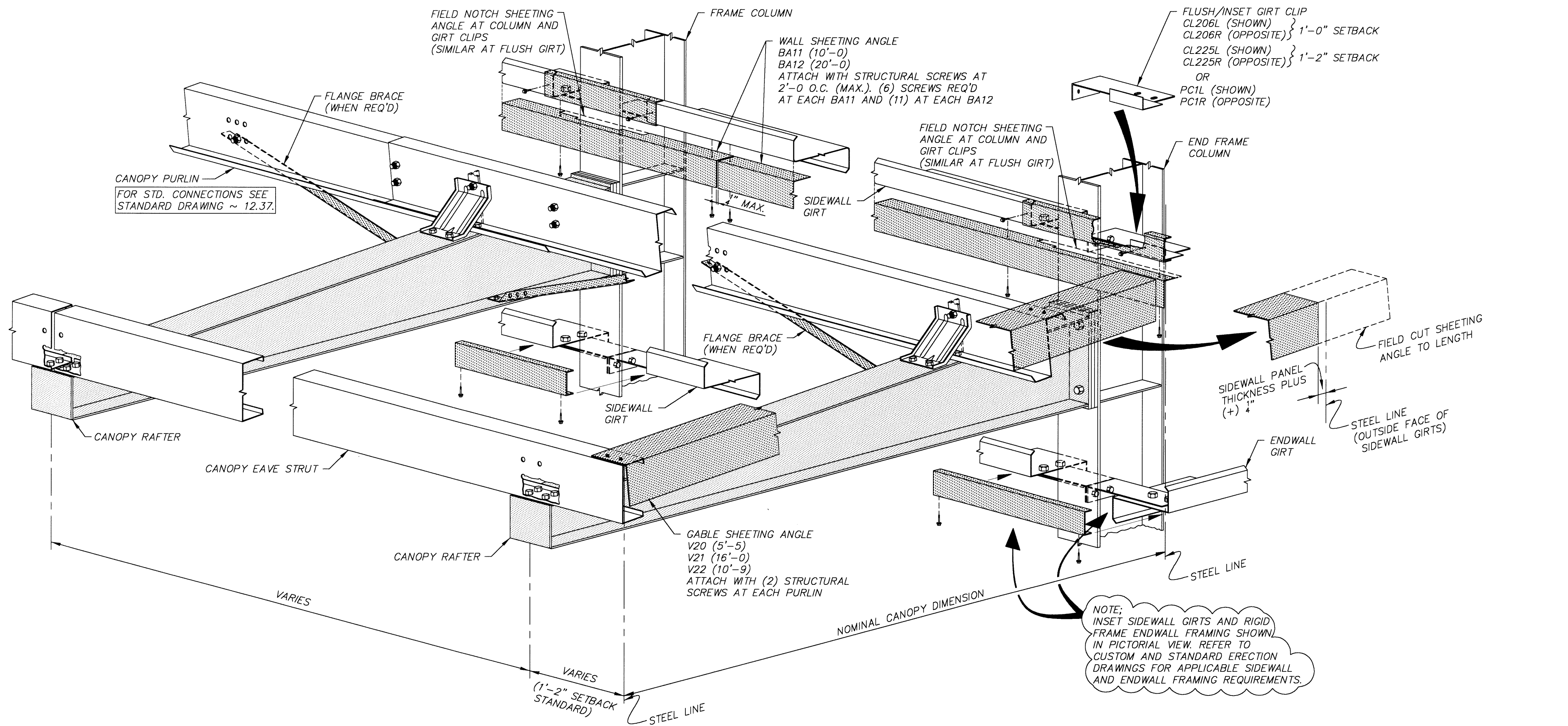
DOUBLE CLEVISED ROD BRACE ATTACHMENT
DETAIL SHOWN VARIES



CLEVISED ROD BRACE ATTACHMENT
AT BRACE ANCHOR

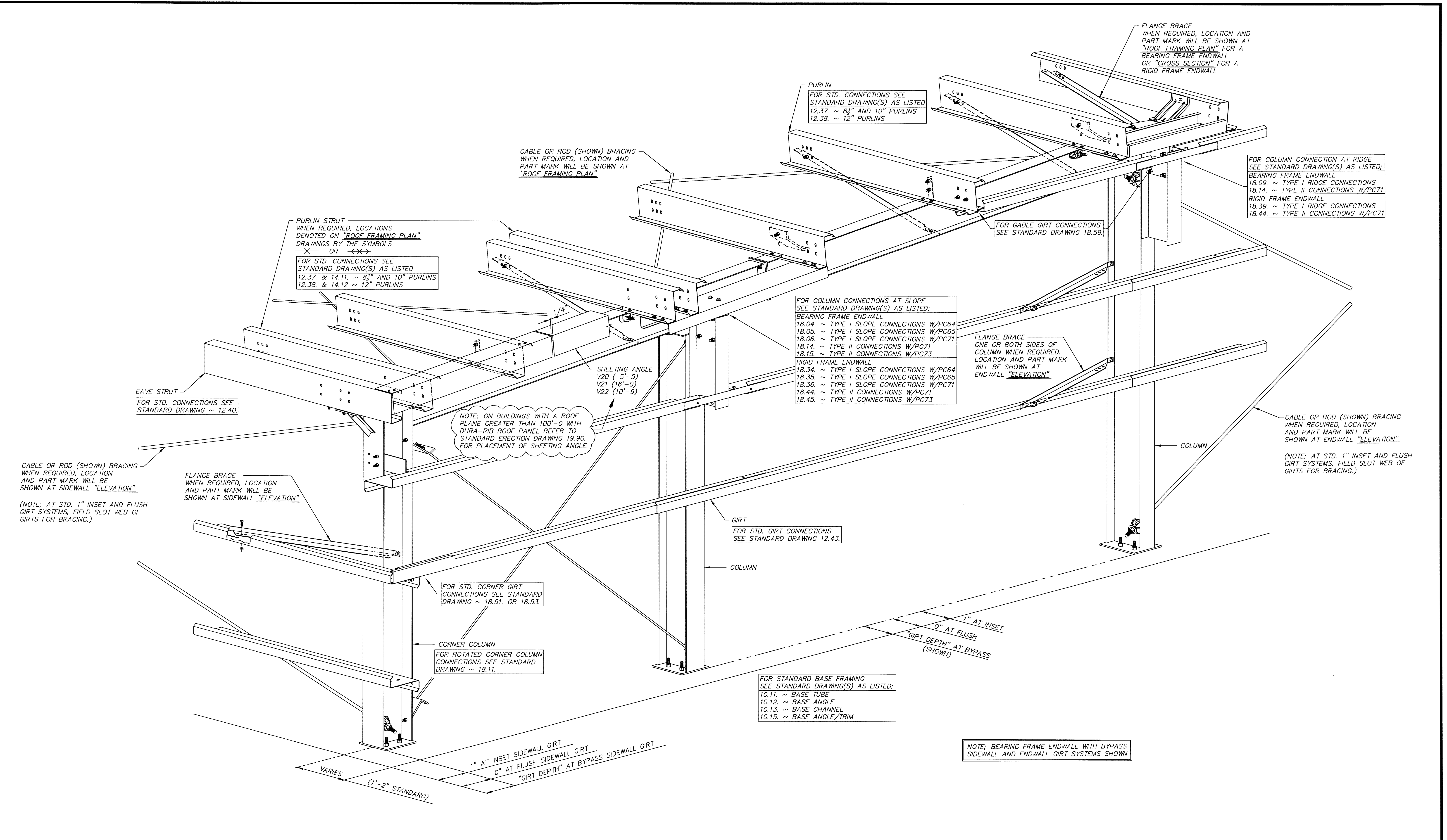


REVISIONS	BY	DATE	NOTES	DRN. BY	DATE	STAR BUILDING SYSTEMS	ROOF PURLIN SAG ANGLE DETAILS SINGLE SLOPE	17.02.10
1. Revised Tie Angles and adds Section "B"	RGB			RGB				
2. Replaced Anti-Roll Clip with Anchorage Clip and adds Detail "C"	RGB							
3. Adds detail to SECTION "A"	RGB							
4. Revises 3/8" A307 Bolts to 1/2" A325 Bolts, adds note 3.), deleted Detail "C"	RGB							
5. Revised Hex Nut Part Marks.	RGB			MTC, LKF, ELZ		a Robertson Ceko company		12/10/06

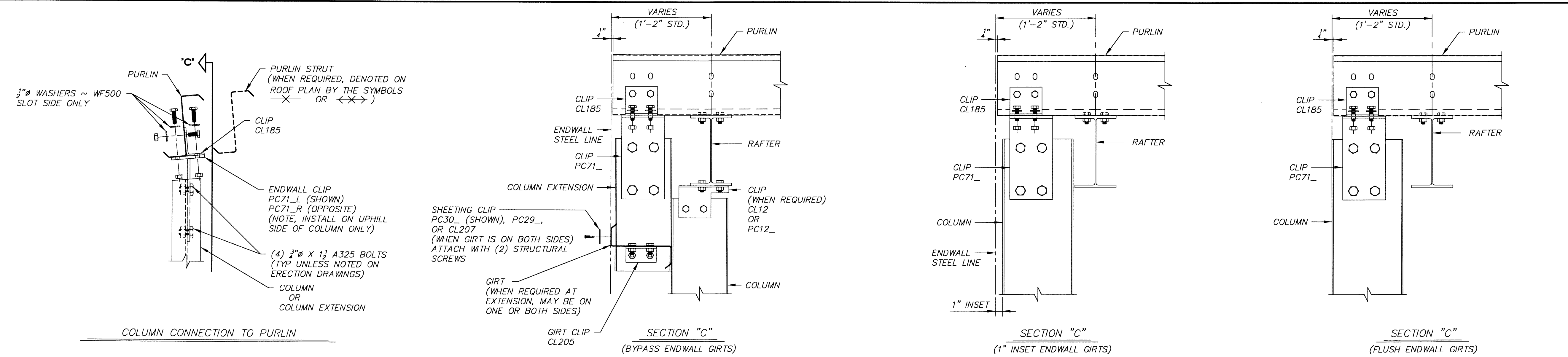
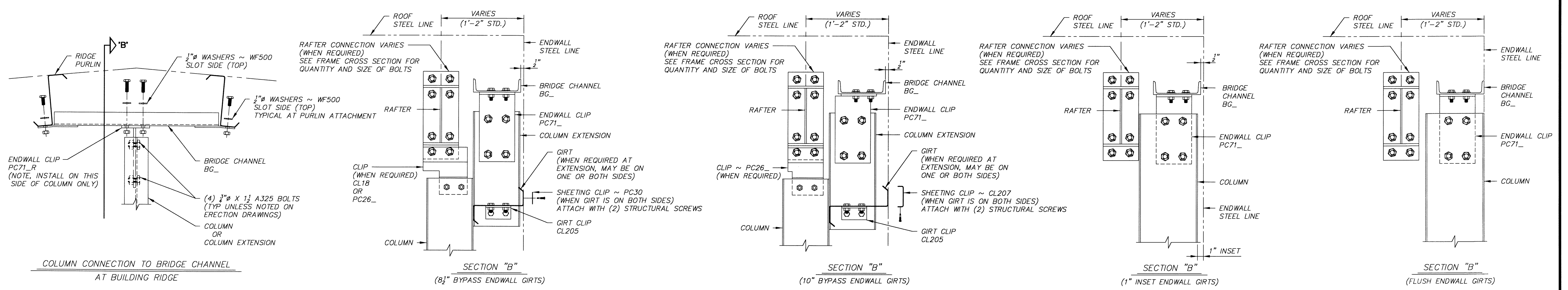
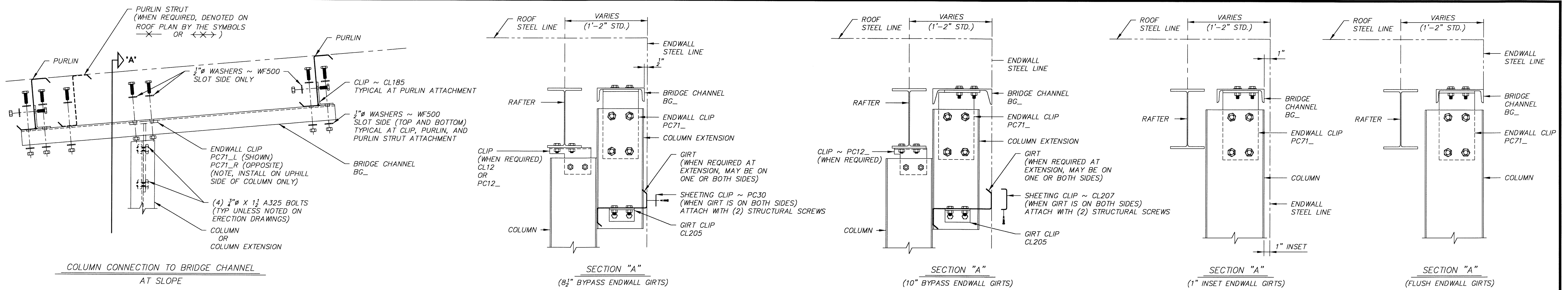


- NOTES**
1. ALL BOLTS TO BE 1/2" A325 UNLESS NOTED. FOR REQUIRED LENGTH REFER TO GRIP TABLE ON CUSTOM ERECTION DRAWINGS.
 2. CANOPY RAFTER CONNECTIONS AND STIFFENERS DEPICTED IN "CANOPY EAVE DETAILS" WILL VARY PER DESIGN REQUIREMENTS.

REVISIONS	BY	DATE	NOTES	DRN. BY	DATE	STAR BUILDING SYSTEMS	STRUCTURAL CANOPY FRAMING DETAILS BELOW EAVE	17.81.01
Revises Bolts to 1/2" A325 Bolts and deleted Detail "A", "B" & at Purlin	RGB		THIS DRAWING IS NOT TO SCALE	RNA		a Robertson Ceco company		09/17/06
				CHK. BY				
				RGB				



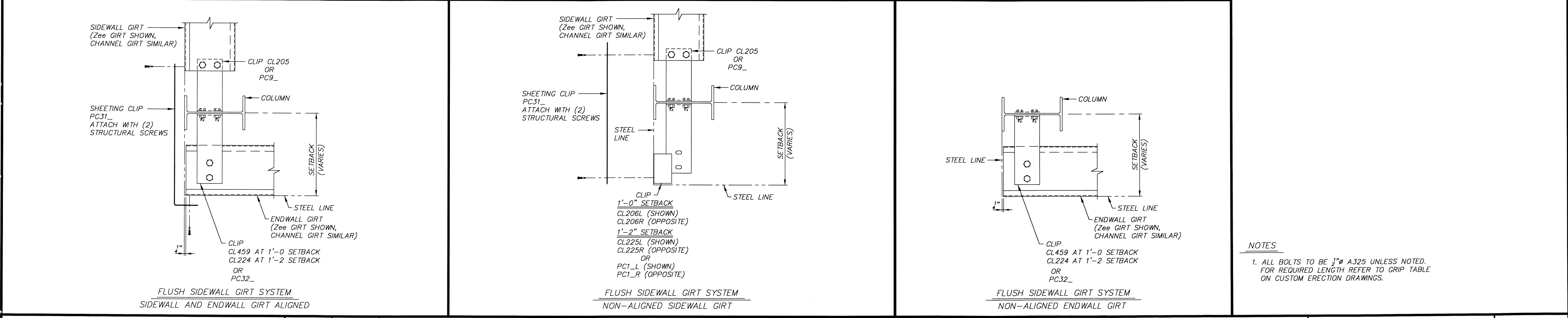
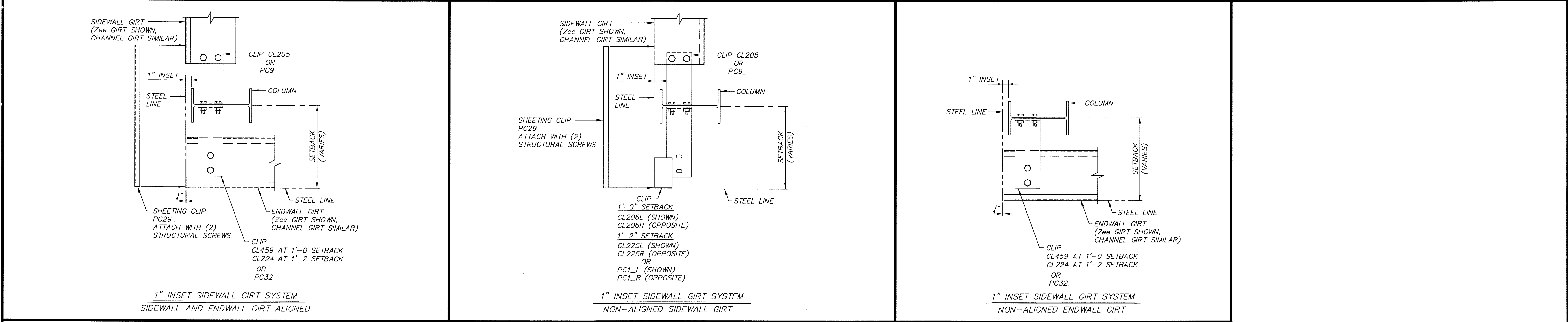
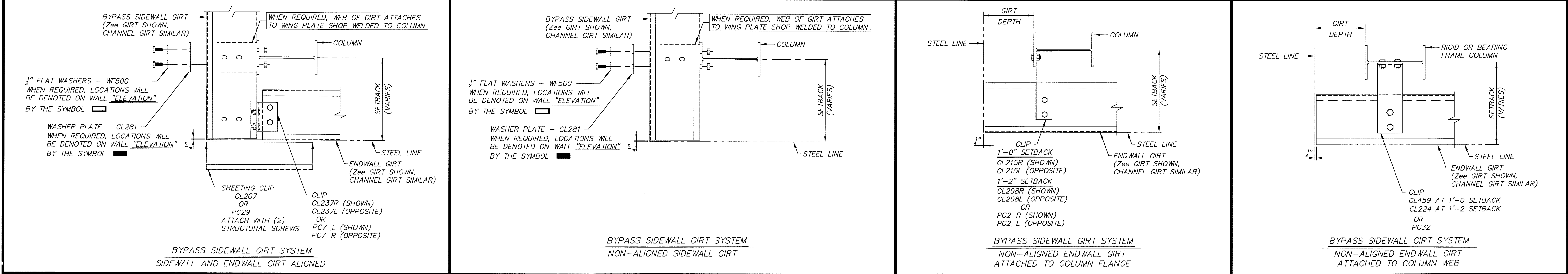
REVISIONS		BY	DATE	NOTES	DRN. BY	DATE	STAR BUILDING SYSTEMS a Robertson Ceco company	RIGID AND BEARING FRAME ENDWALL FRAMING	18.01.00
				THIS DRAWING IS NOT TO SCALE	RGB				08/13/06
					CHK. BY				



NOTES

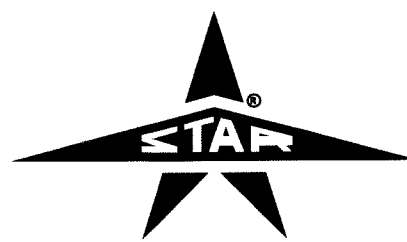
1. ALL BOLTS TO BE $\frac{1}{2}$ " \varnothing A325 UNLESS NOTED. FOR REQUIRED LENGTH REFER TO GRIP TABLE ON CUSTOM ERECTION DRAWINGS.

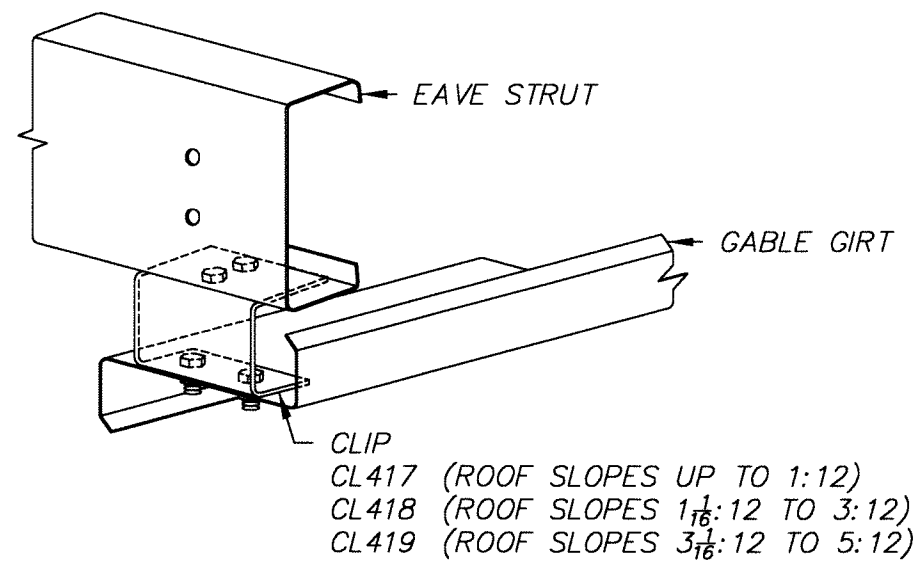
REVISIONS		BY	DATE	NOTES	DRN. BY	DATE	<div>STAR BUILDING SYSTEMS</div> <div>a Robertson Ceco company</div>	<div>RIGID FRAME ENDWALL COLUMN TYPE II CONNECTIONS W/CLIP PC71_</div>	<div>18.44.00</div> <div>08/13/06</div>
				THIS DRAWING IS NOT TO SCALE	RGB				
					CHK. BY				



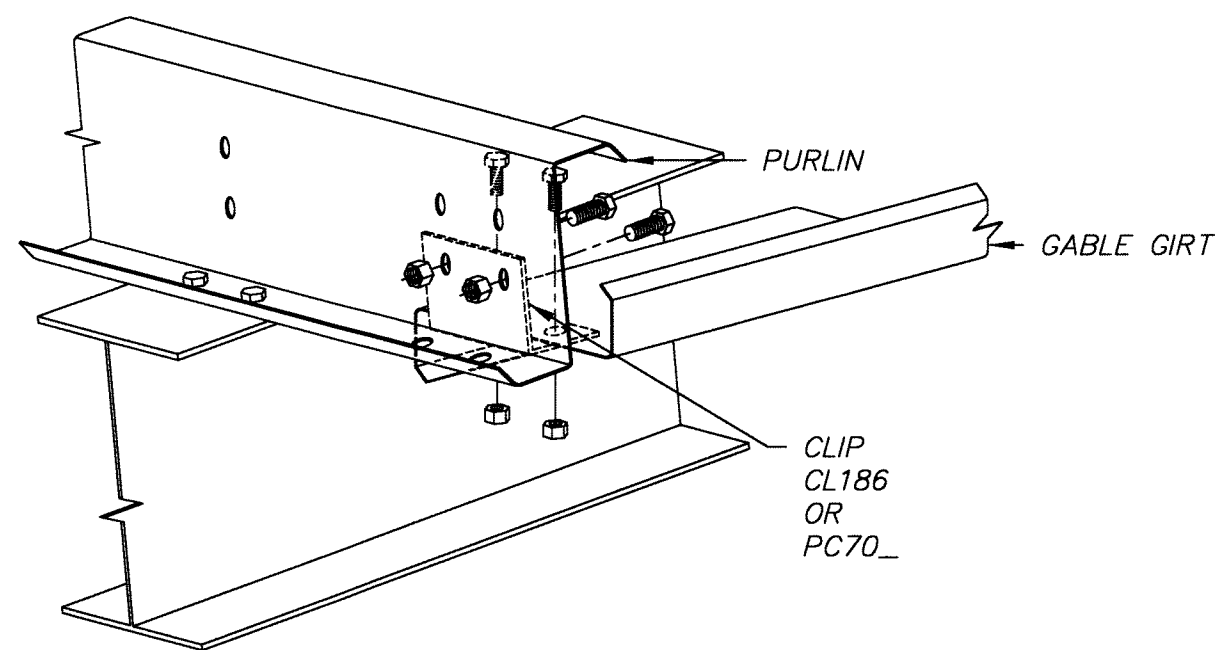
NOTES

1. ALL BOLTS TO BE 3/4" A325 UNLESS NOTED.
FOR REQUIRED LENGTH REFER TO GRIP TABLE
ON CUSTOM ERECTION DRAWINGS.

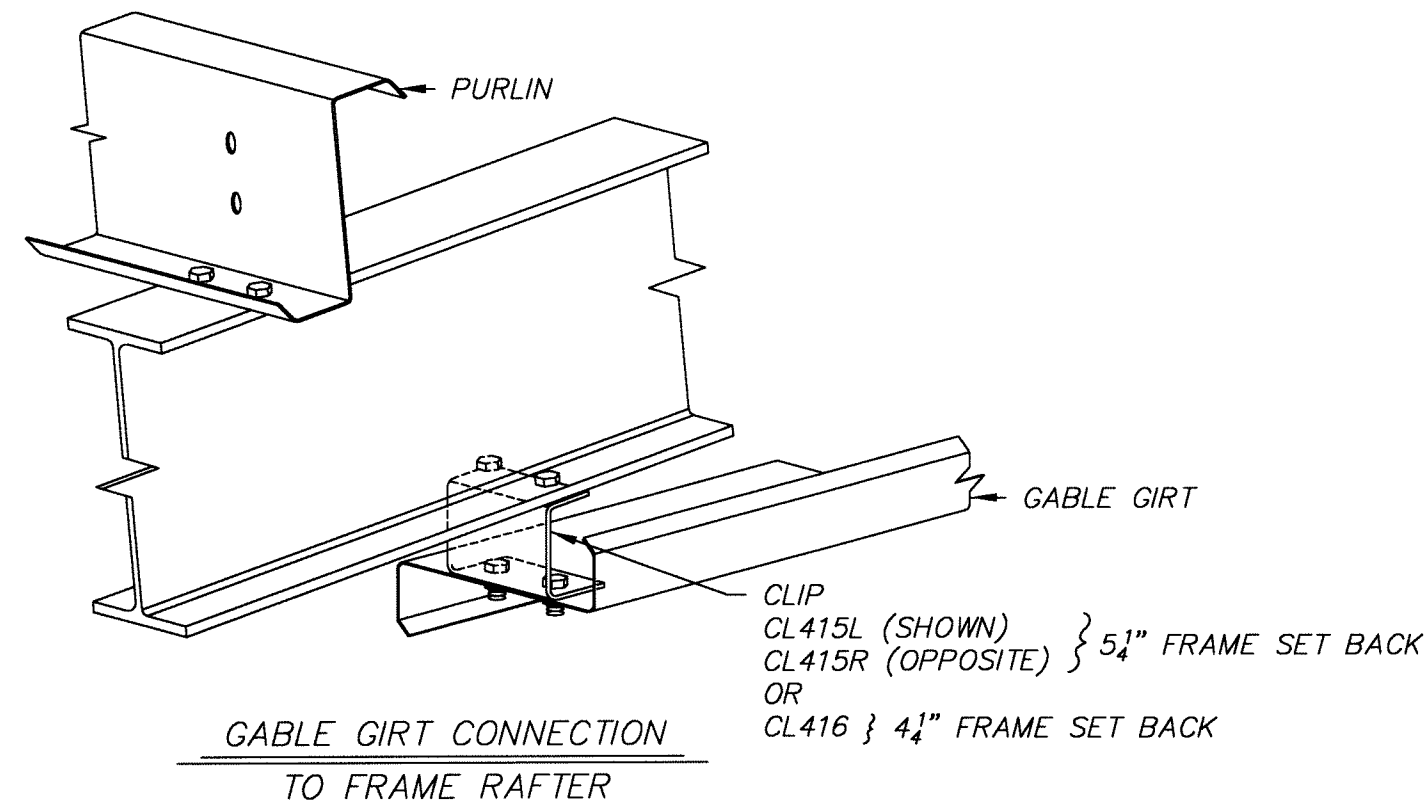
REVISIONS		BY	DATE	NOTES	DRN. BY RGB	DATE	STAR BUILDING SYSTEMS a Robertson Ceco company		STANDARD CORNER GIRT CONNECTIONS (ENDWALL GIRT BYPASSES COLUMN)	18.51.01 01/13/07
1	Corrects Clip Part Mark from CL234 to CL237		RGB							
				THIS DRAWING IS NOT TO SCALE						



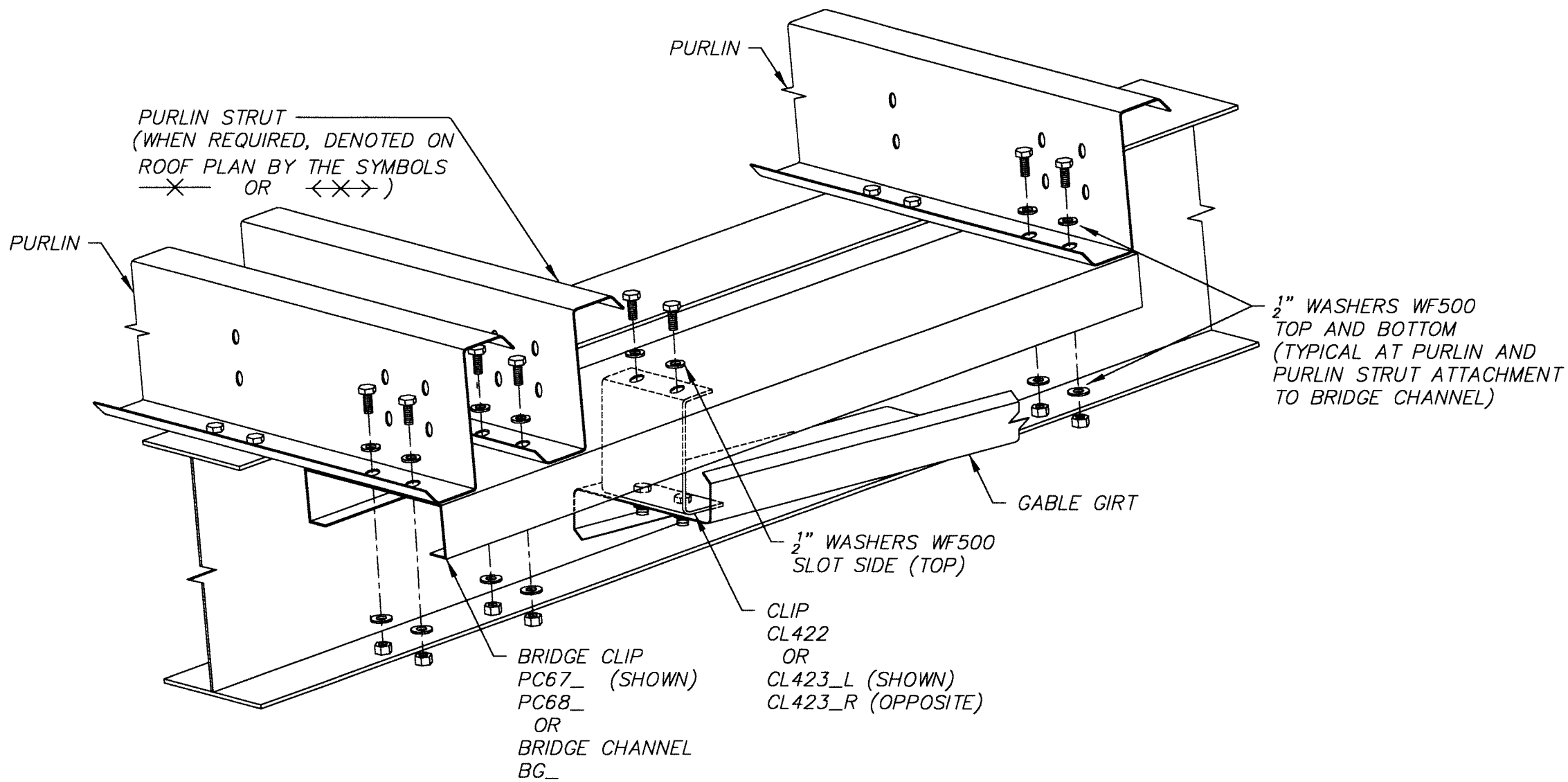
GABLE GIRT CONNECTION
TO EAVE STRUT



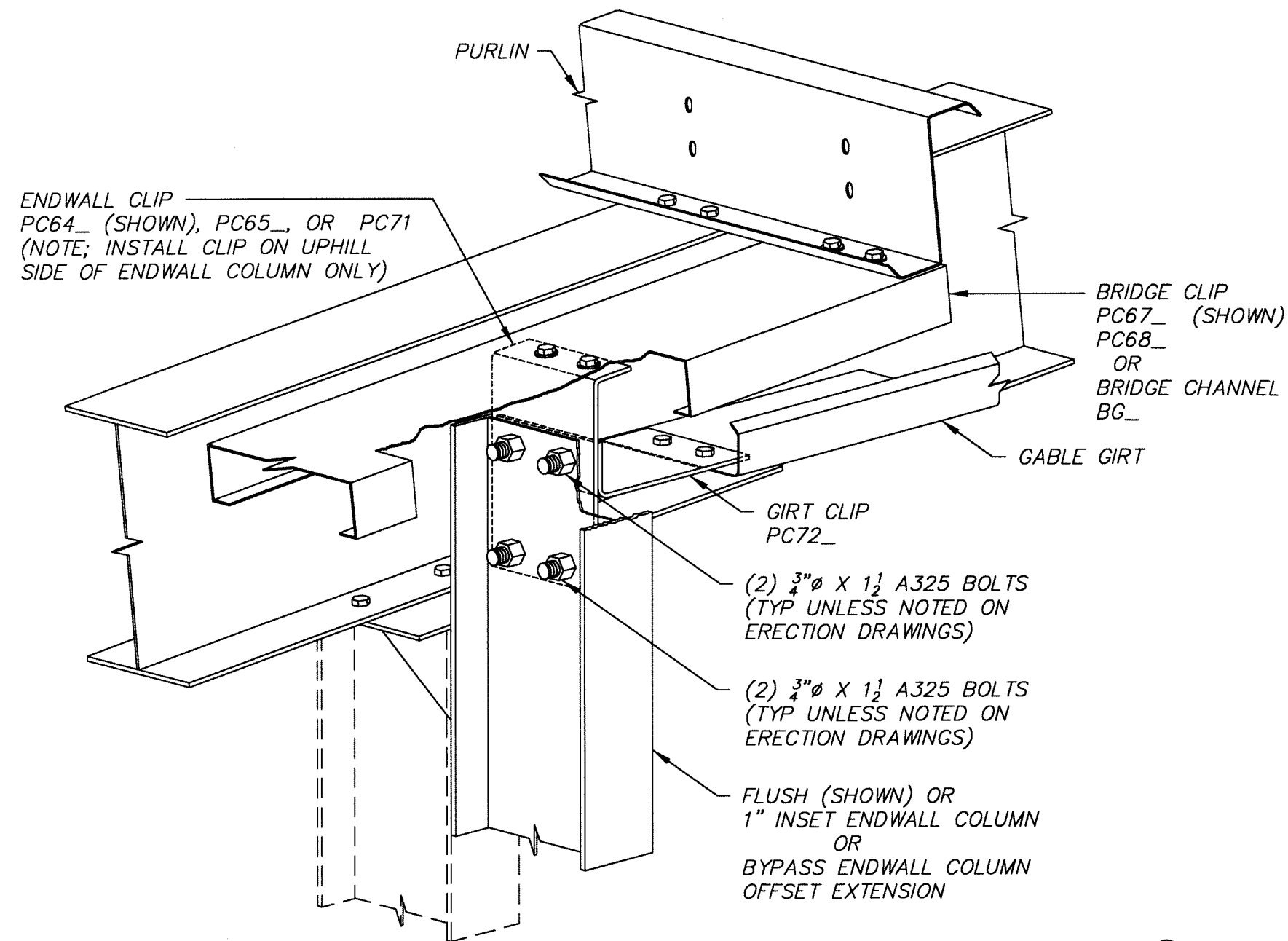
GABLE GIRT CONNECTION
TO PURLIN



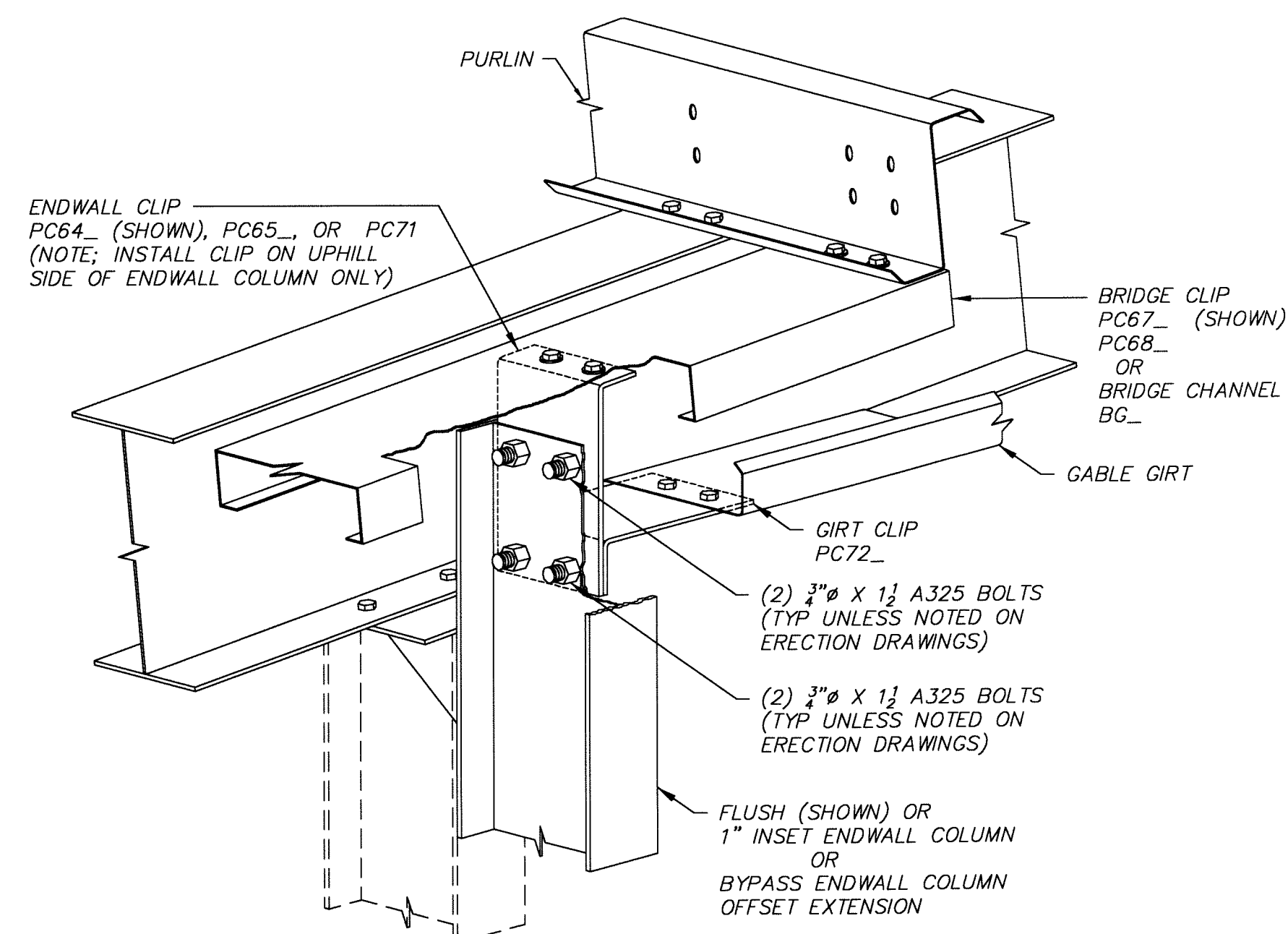
GABLE GIRT CONNECTION
TO FRAME RAFTER



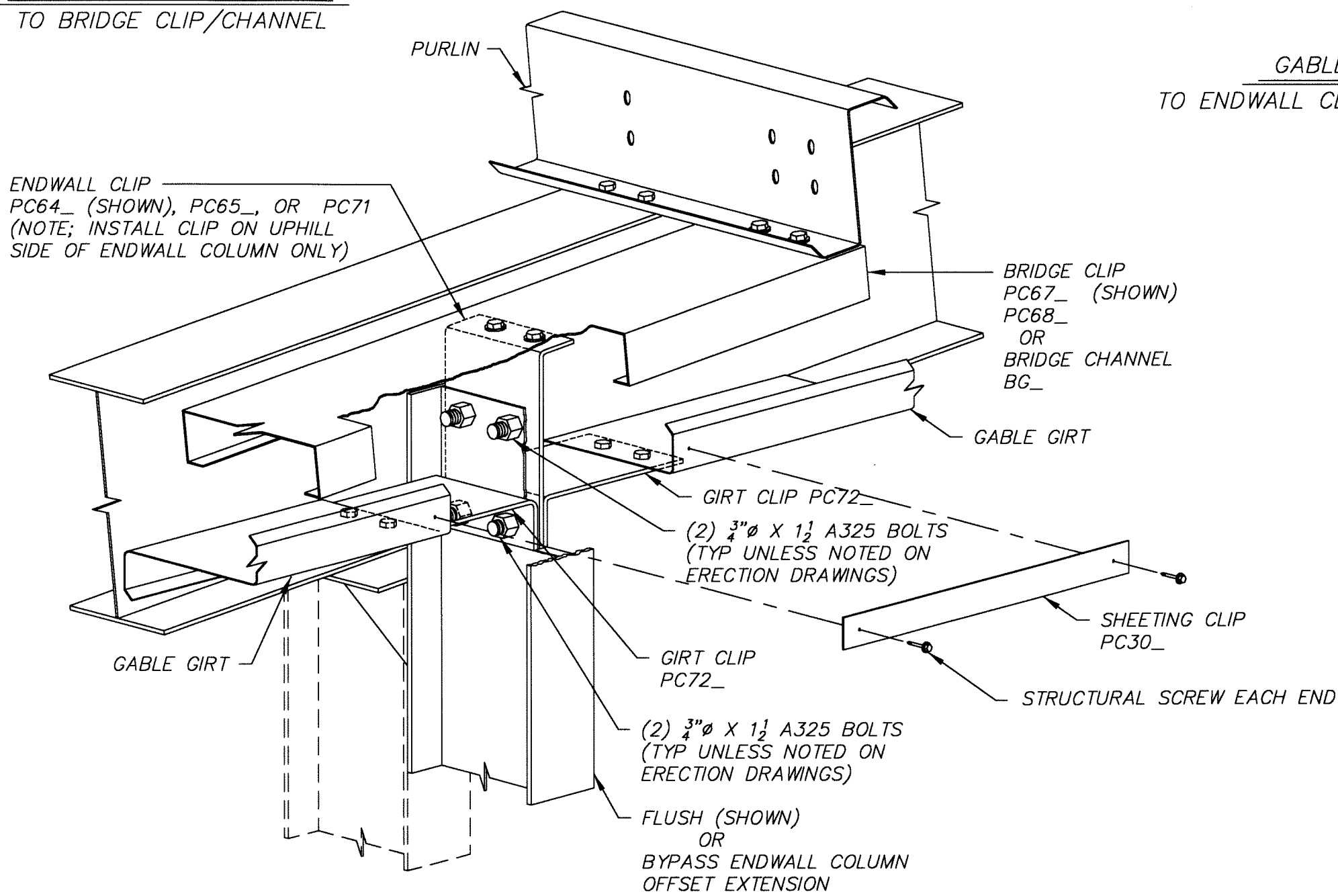
GABLE GIRT CONNECTION
TO BRIDGE CLIP/CHANNEL



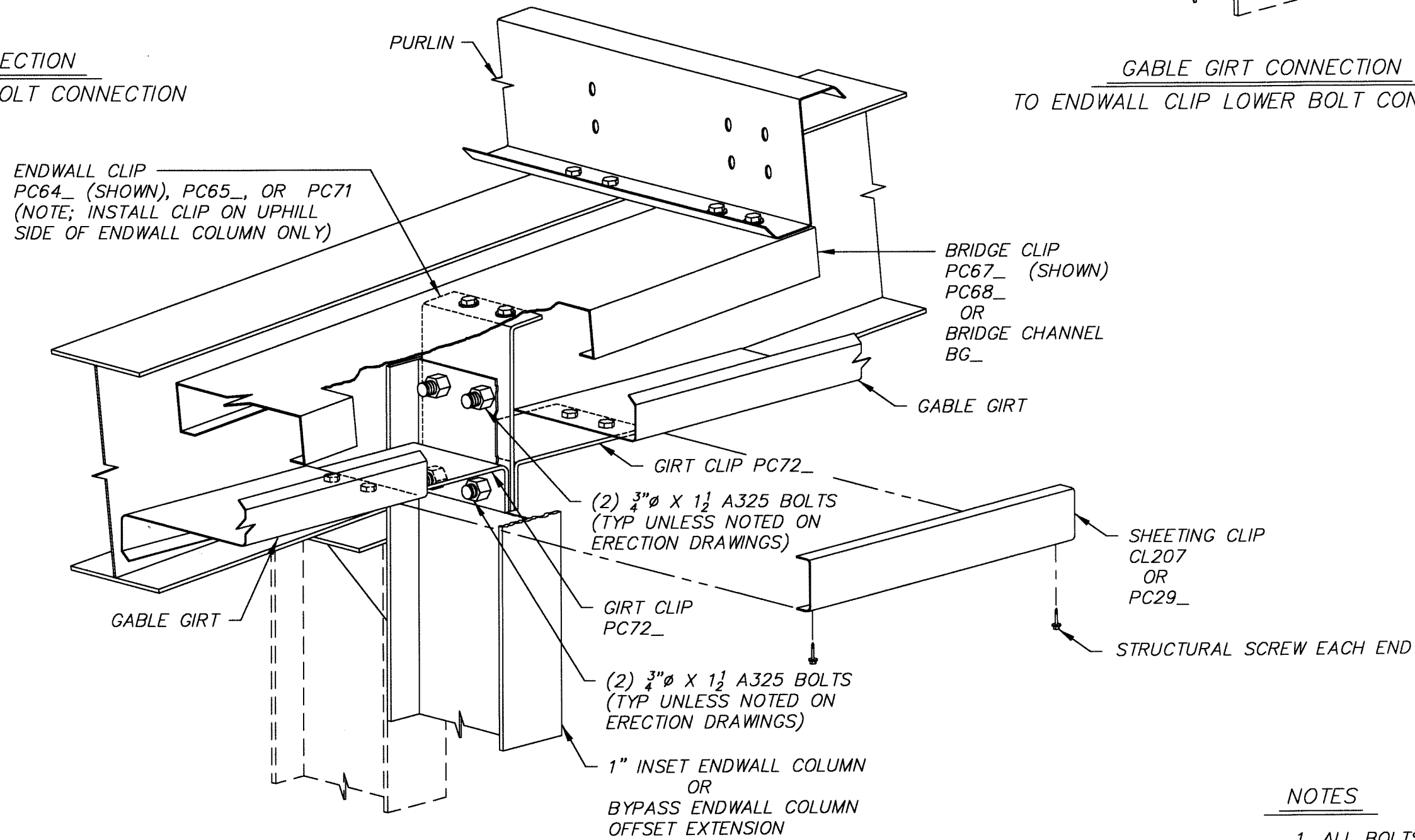
GABLE GIRT CONNECTION
TO ENDWALL CLIP UPPER BOLT CONNECTION



GABLE GIRT CONNECTION
TO ENDWALL CLIP LOWER BOLT CONNECTION



GABLE GIRT CONNECTION
TO ENDWALL CLIP LOWER BOLT CONNECTION
(ENDWALL COLUMN FLUSH OR INSET
UP TO 7/8" FROM STEEL LINE)

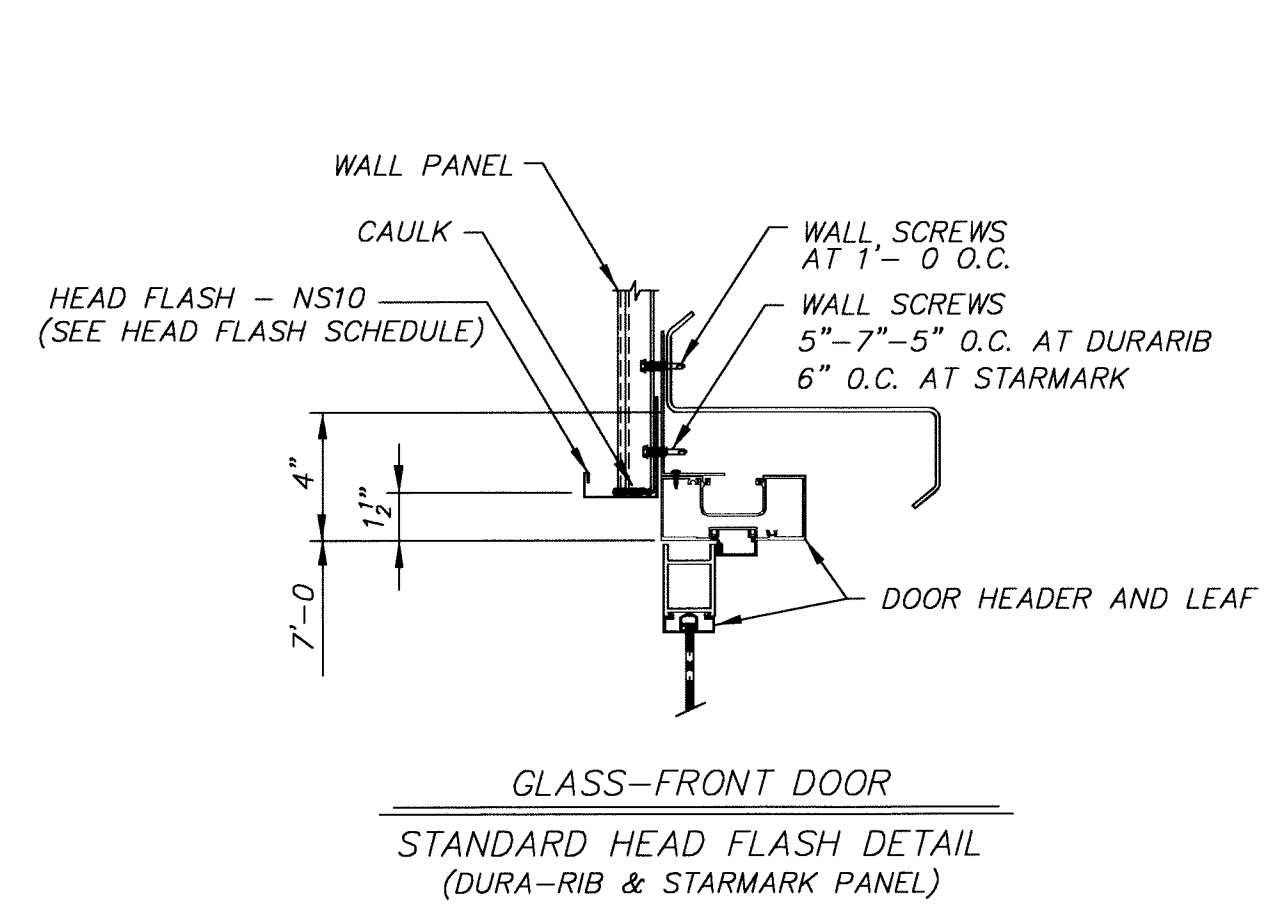
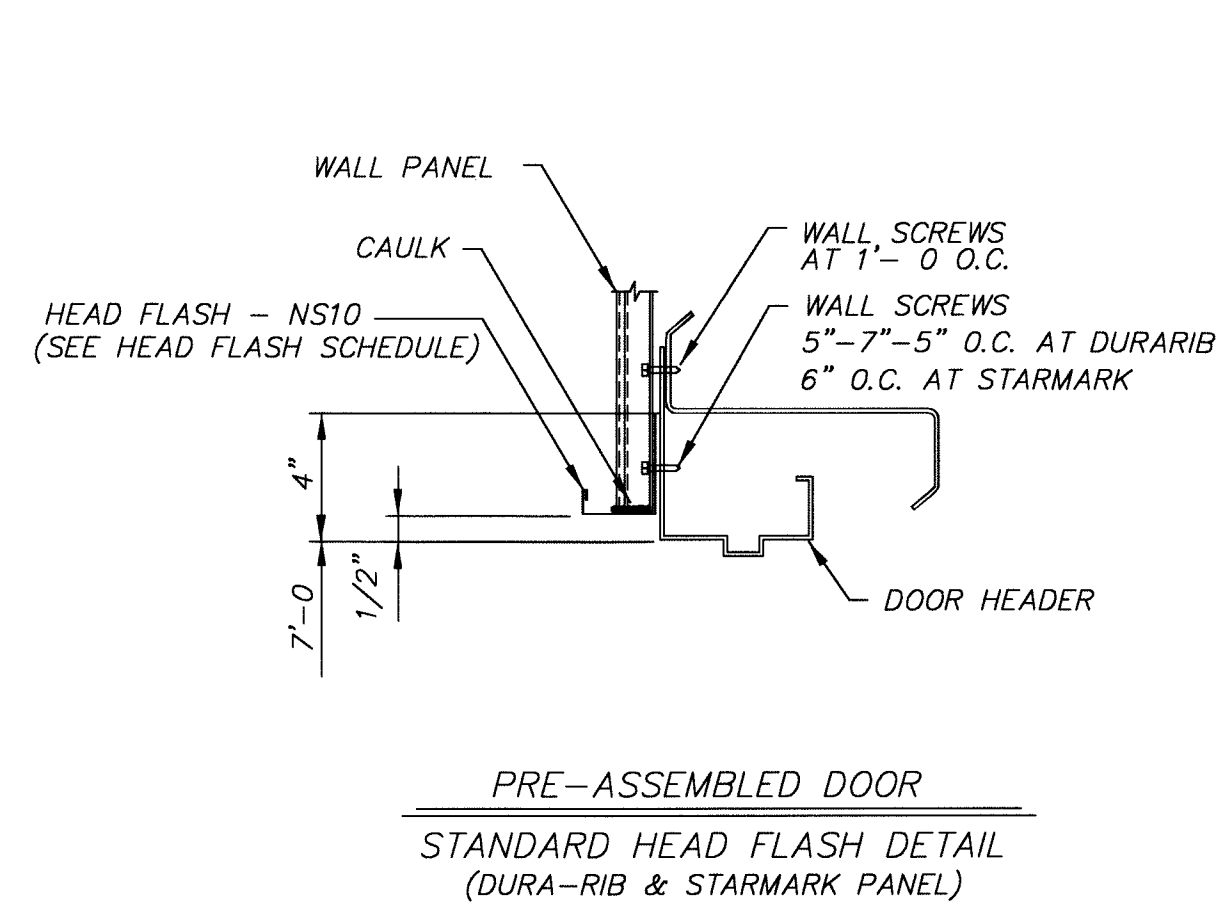
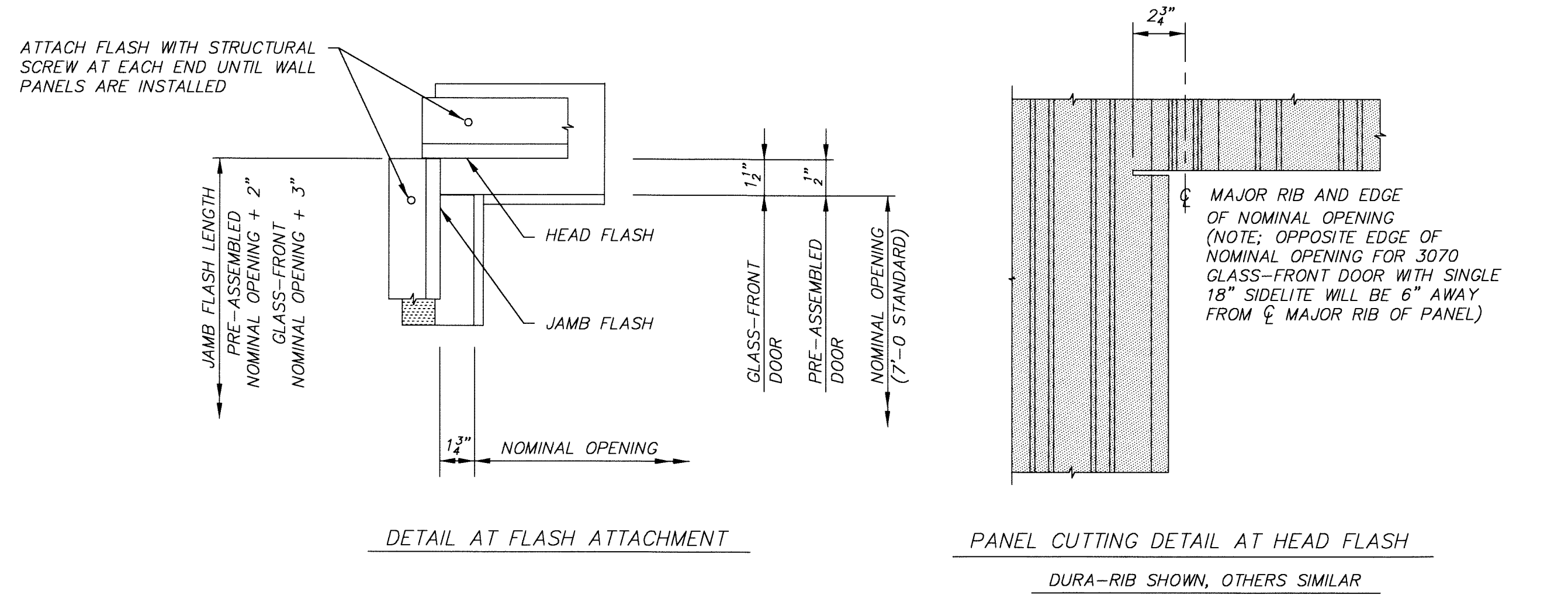


GABLE GIRT CONNECTION
TO ENDWALL CLIP LOWER BOLT CONNECTION
(ENDWALL COLUMN INSET GREATER
THAN 7/8" FROM STEEL LINE)

NOTES

1. ALL BOLTS TO BE 3/4" A325 UNLESS NOTED. FOR REQUIRED LENGTH REFER TO GRIP TABLE ON CUSTOM ERECTION DRAWINGS.

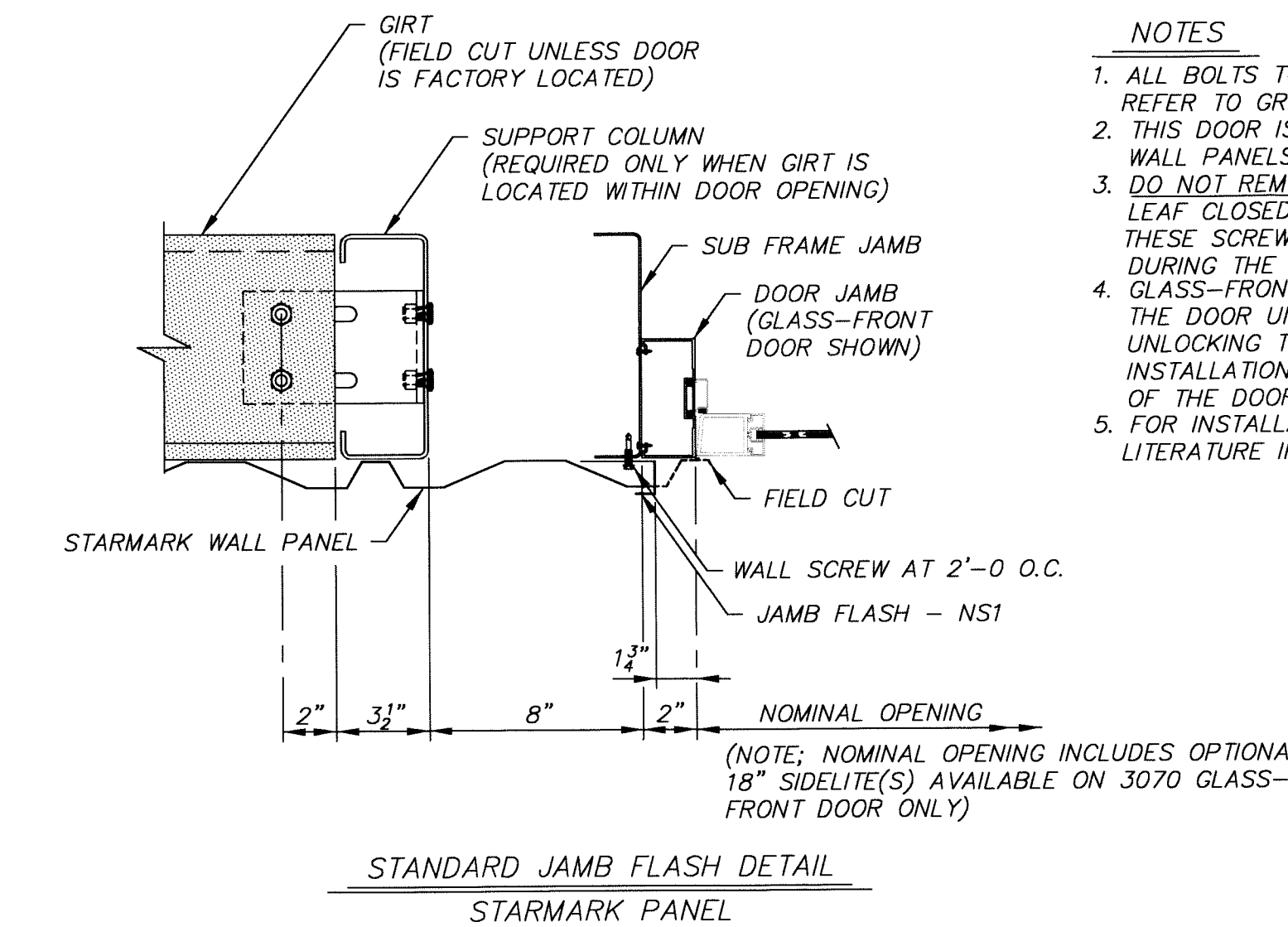
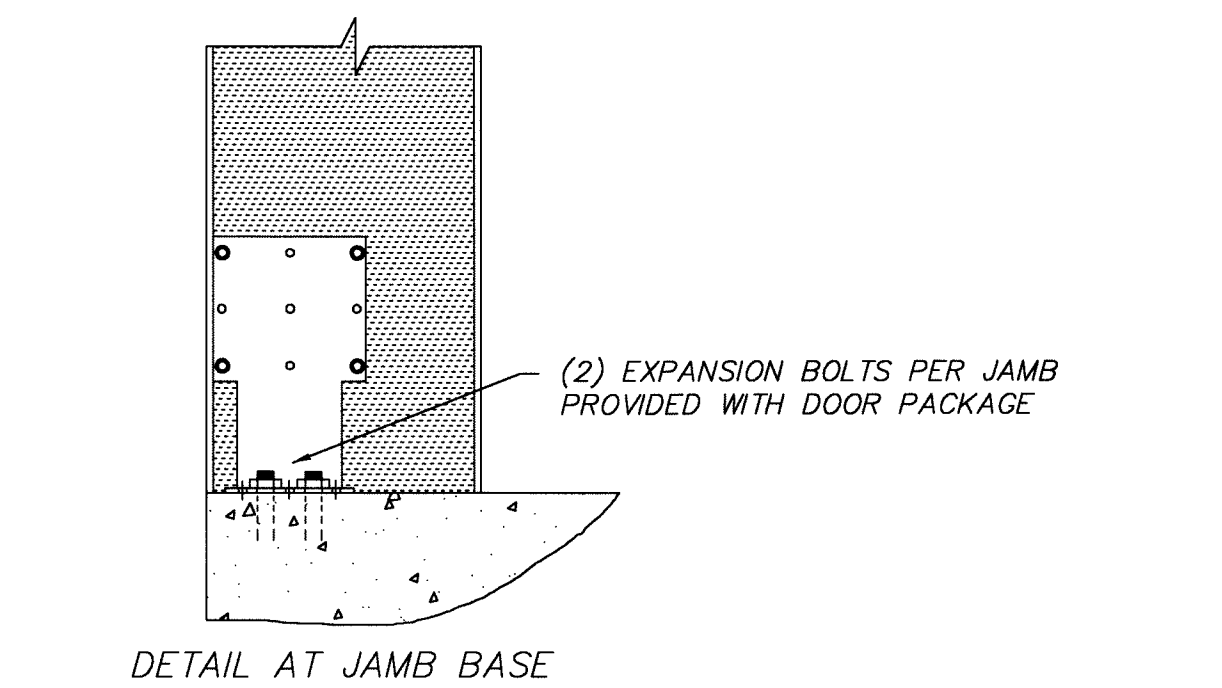
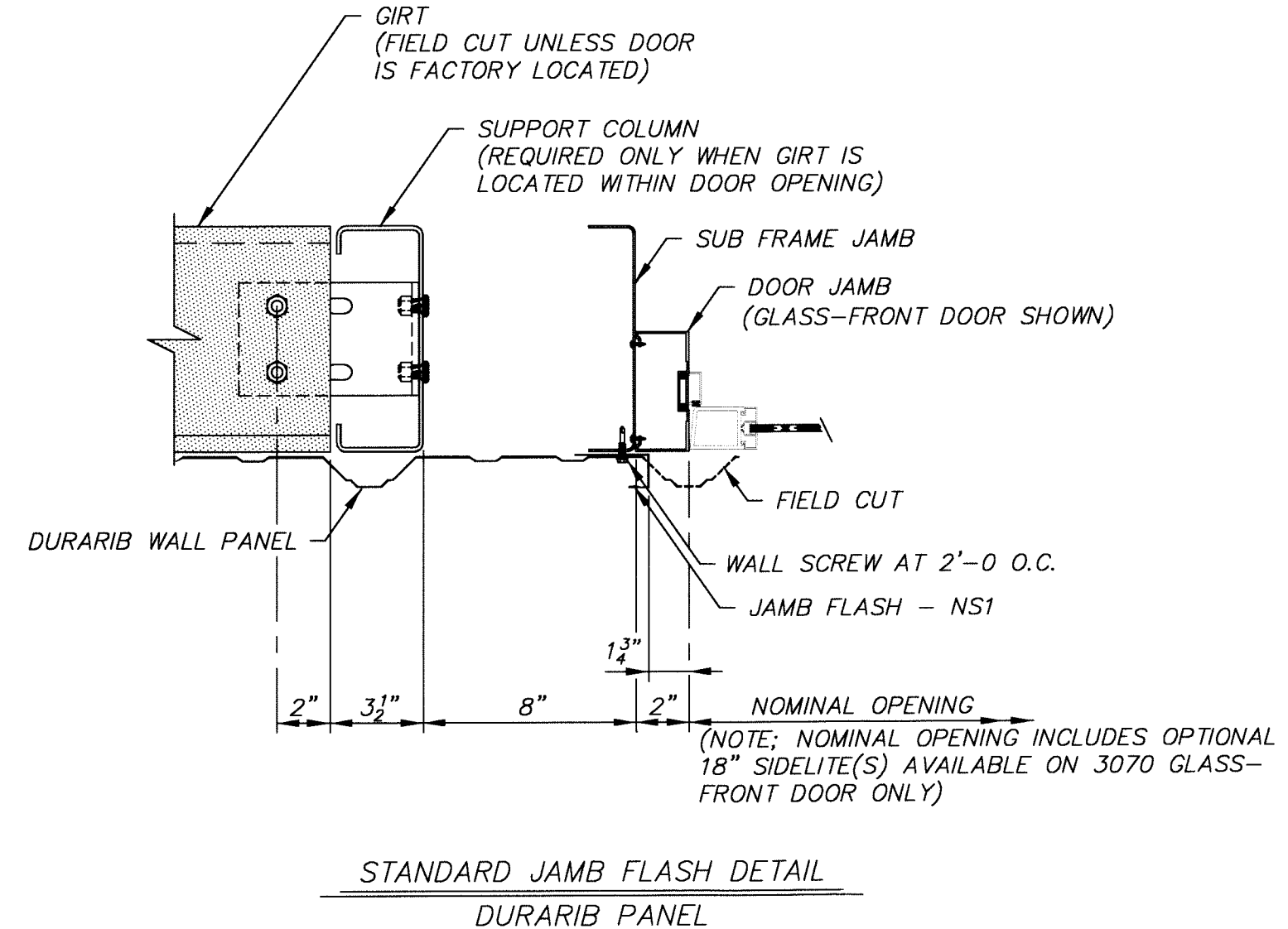
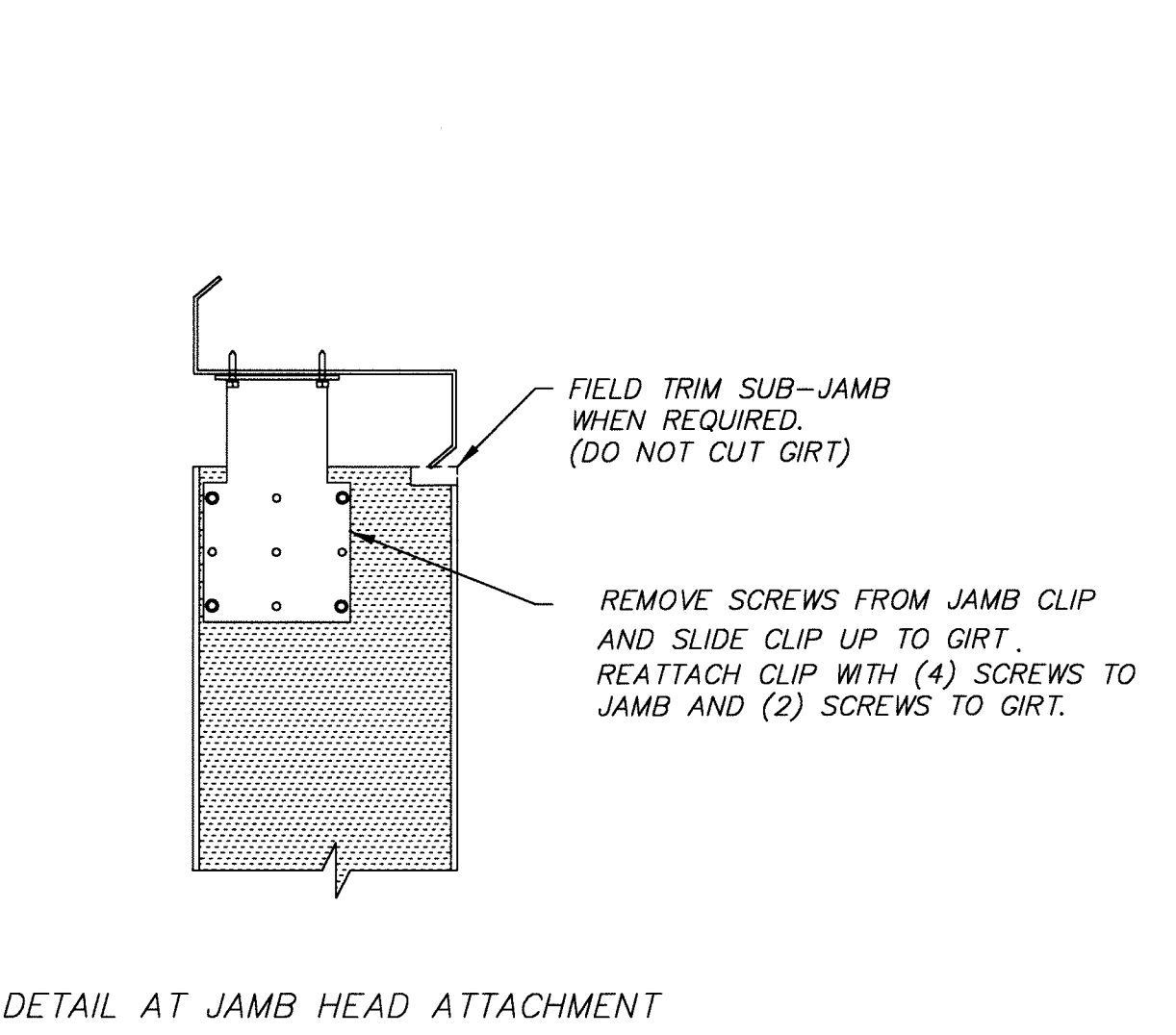
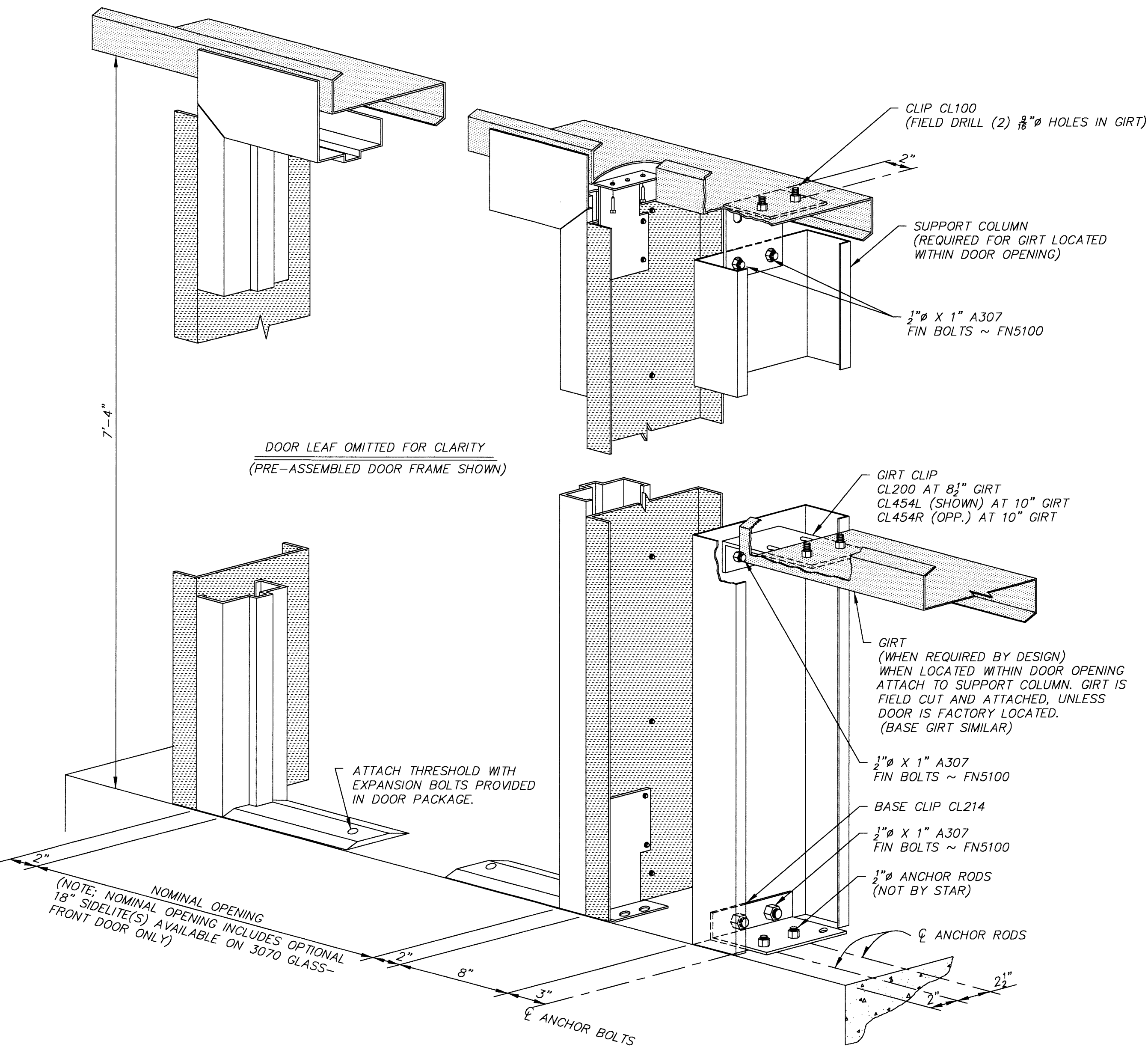
REVISIONS	BY	DATE	NOTES	DRN. BY	DATE	STAR BUILDING SYSTEMS a Robertson Ceco company	GABLE GIRT ATTACHMENT DETAILS BEARING OR RIGID FRAME ENDWALL	18.59.00
			THIS DRAWING IS NOT TO SCALE	RGB				08/13/06
				CHK. BY				



HEAD FLASH SCHEDULE PRE-ASSEMBLED DOORS		
DOOR SIZE	PART MARK	LENGTH
3070	NS10	3'-5 1/8"
4070	NS10	4'-5 1/2"
6070	NS10	6'-5 1/2"

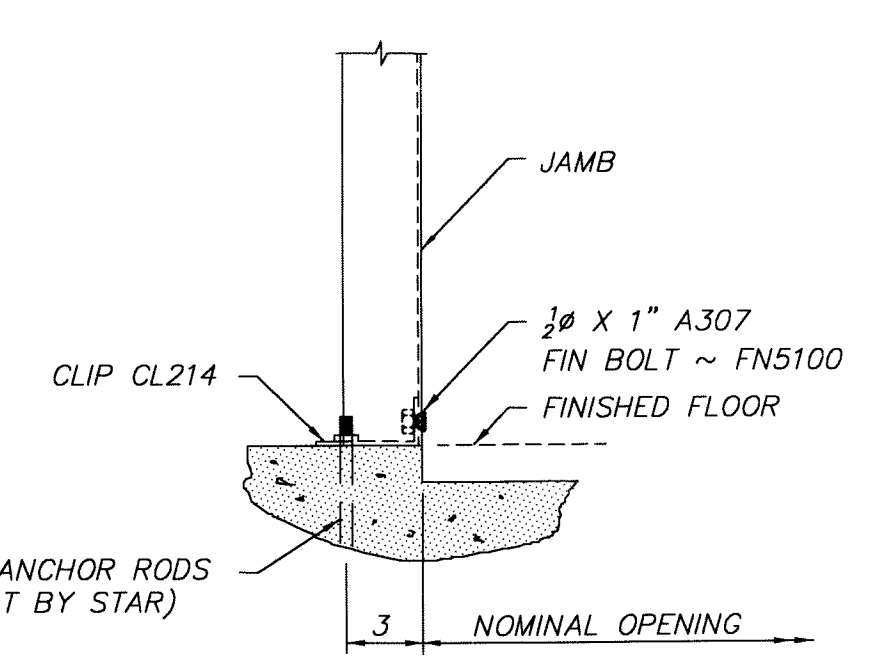
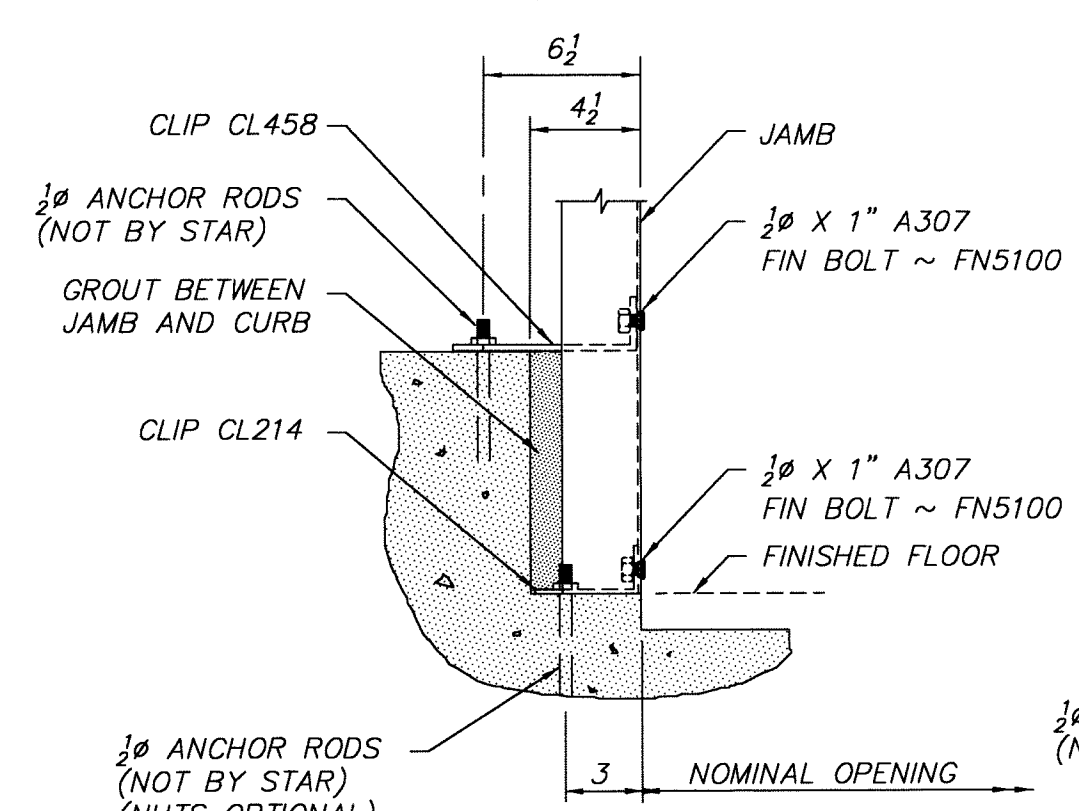
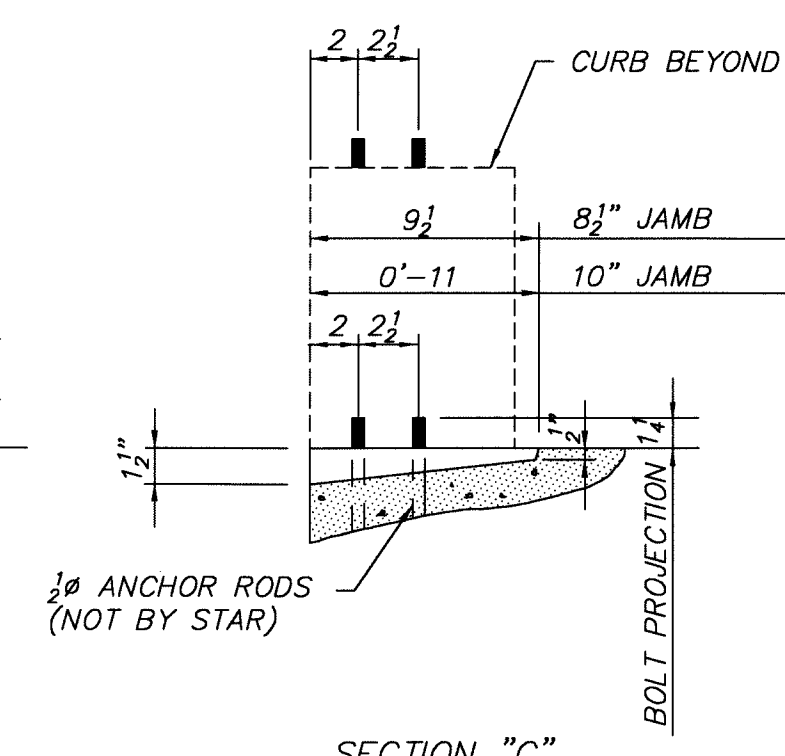
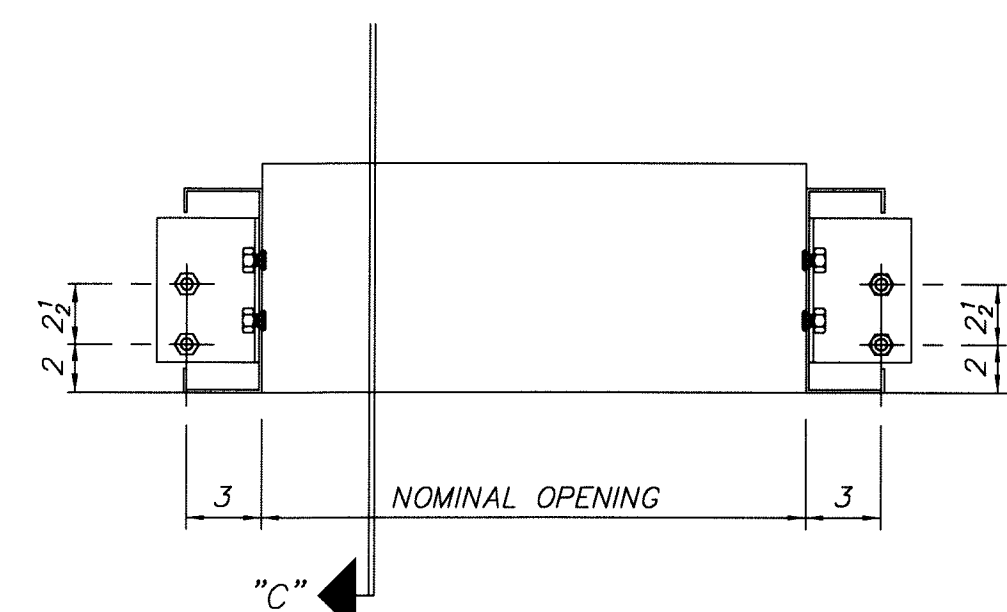
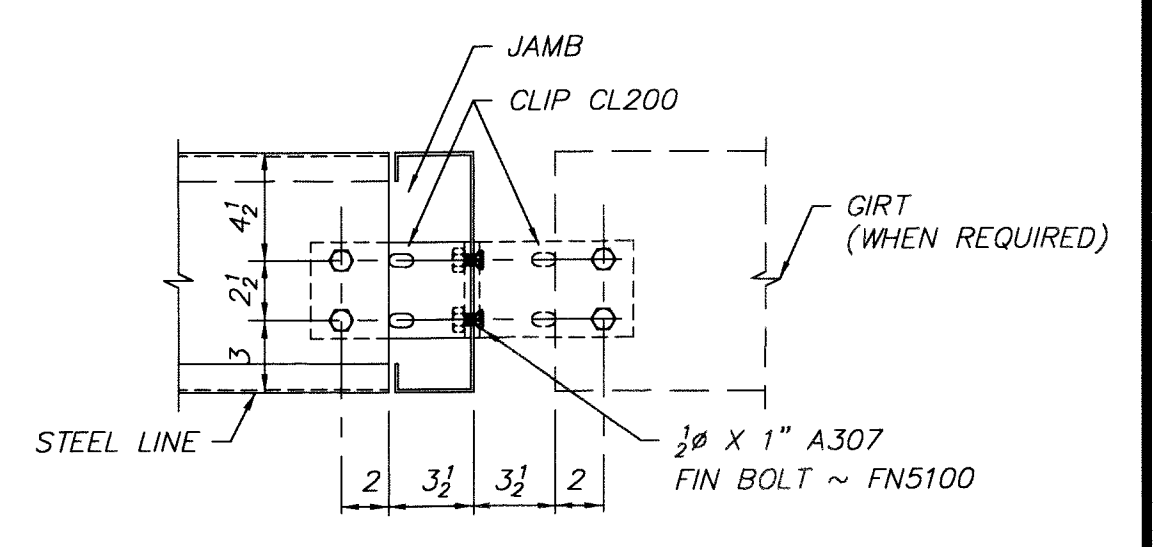
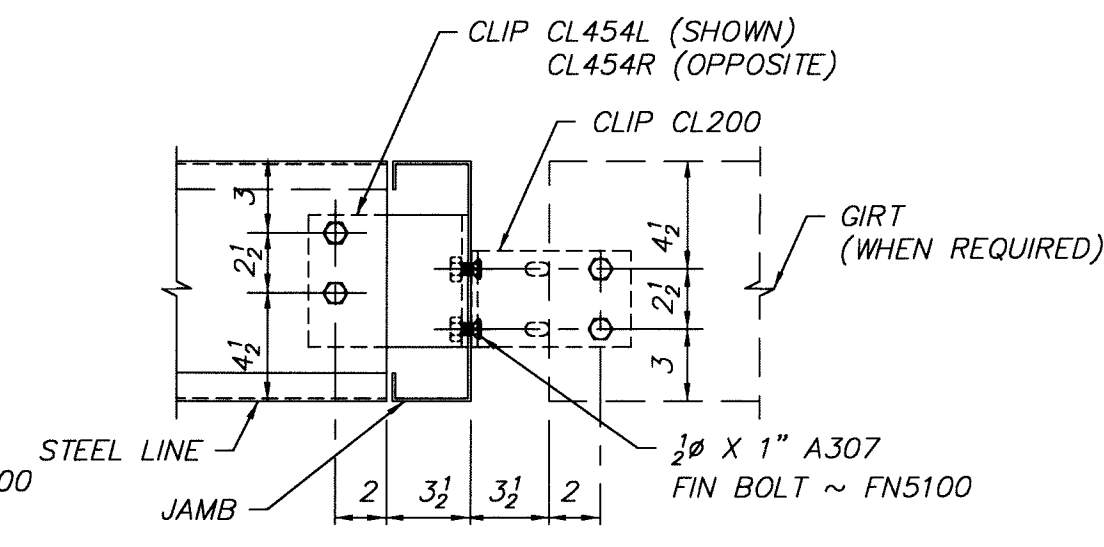
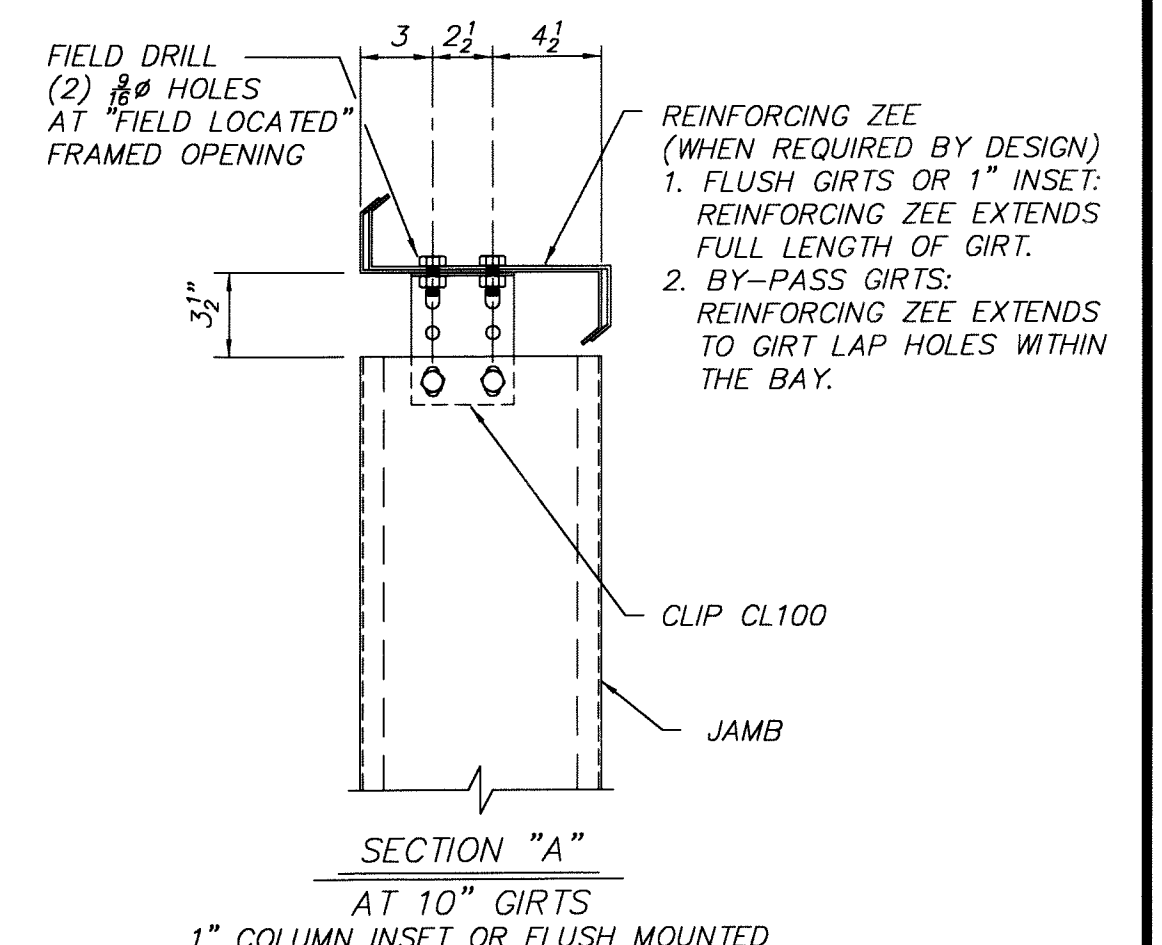
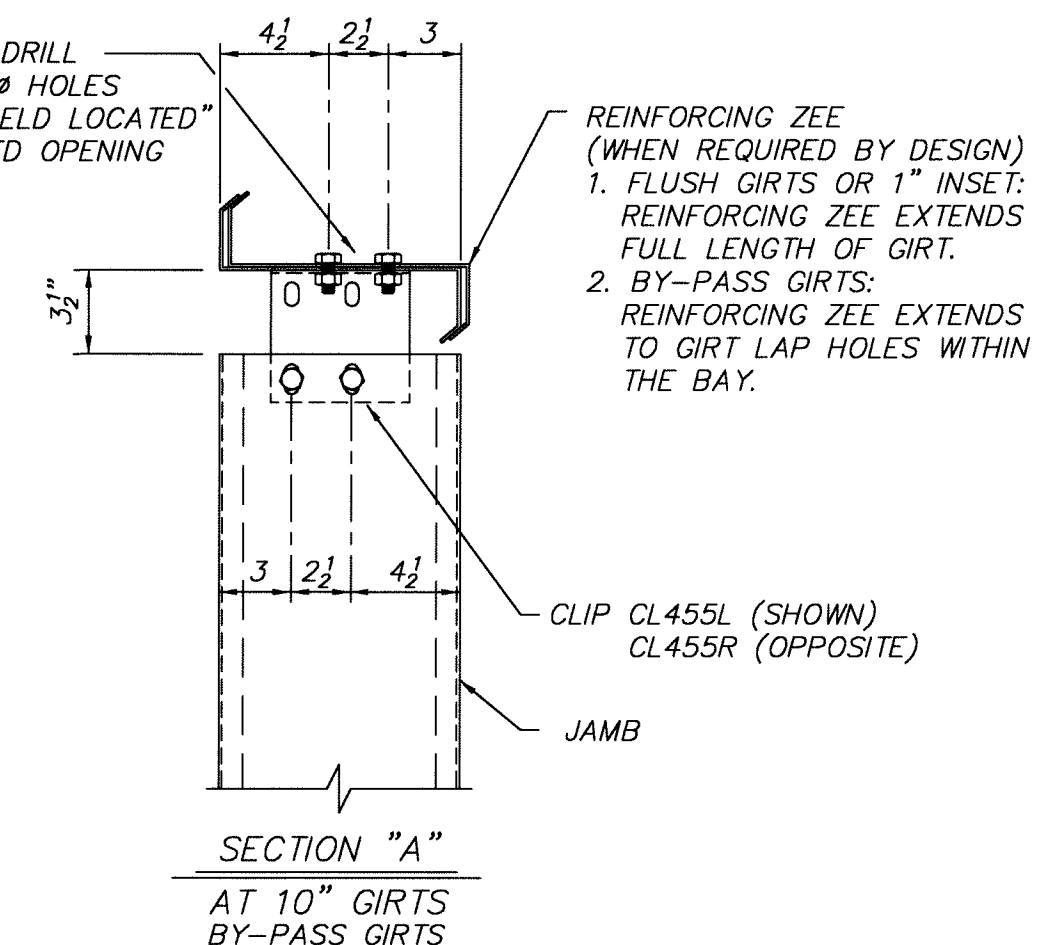
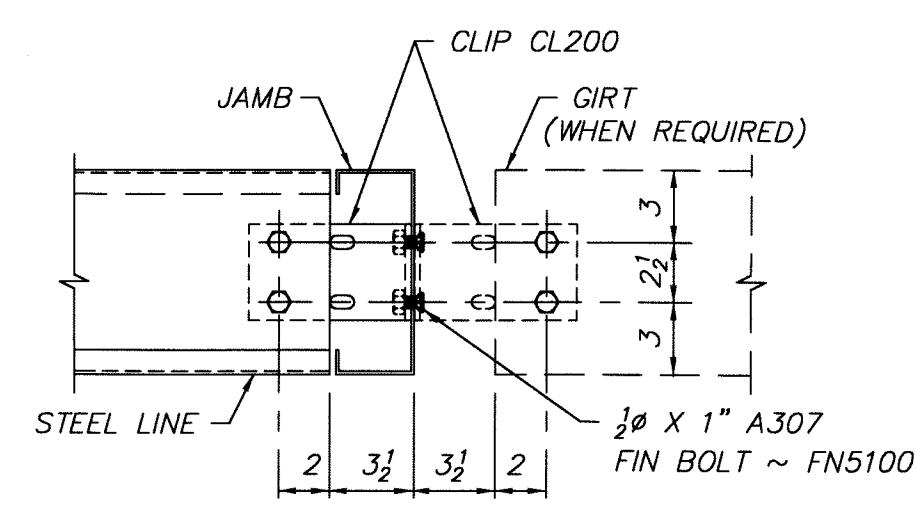
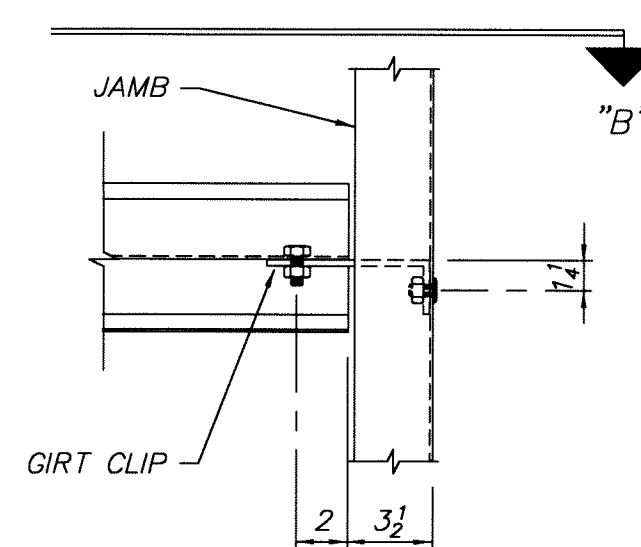
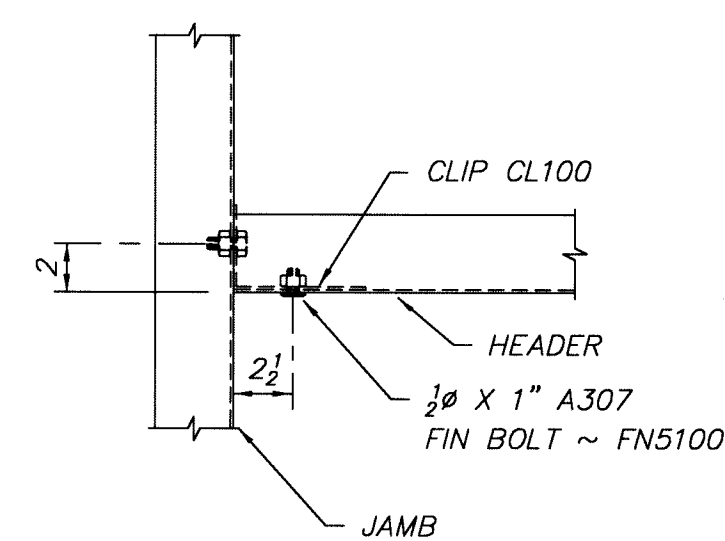
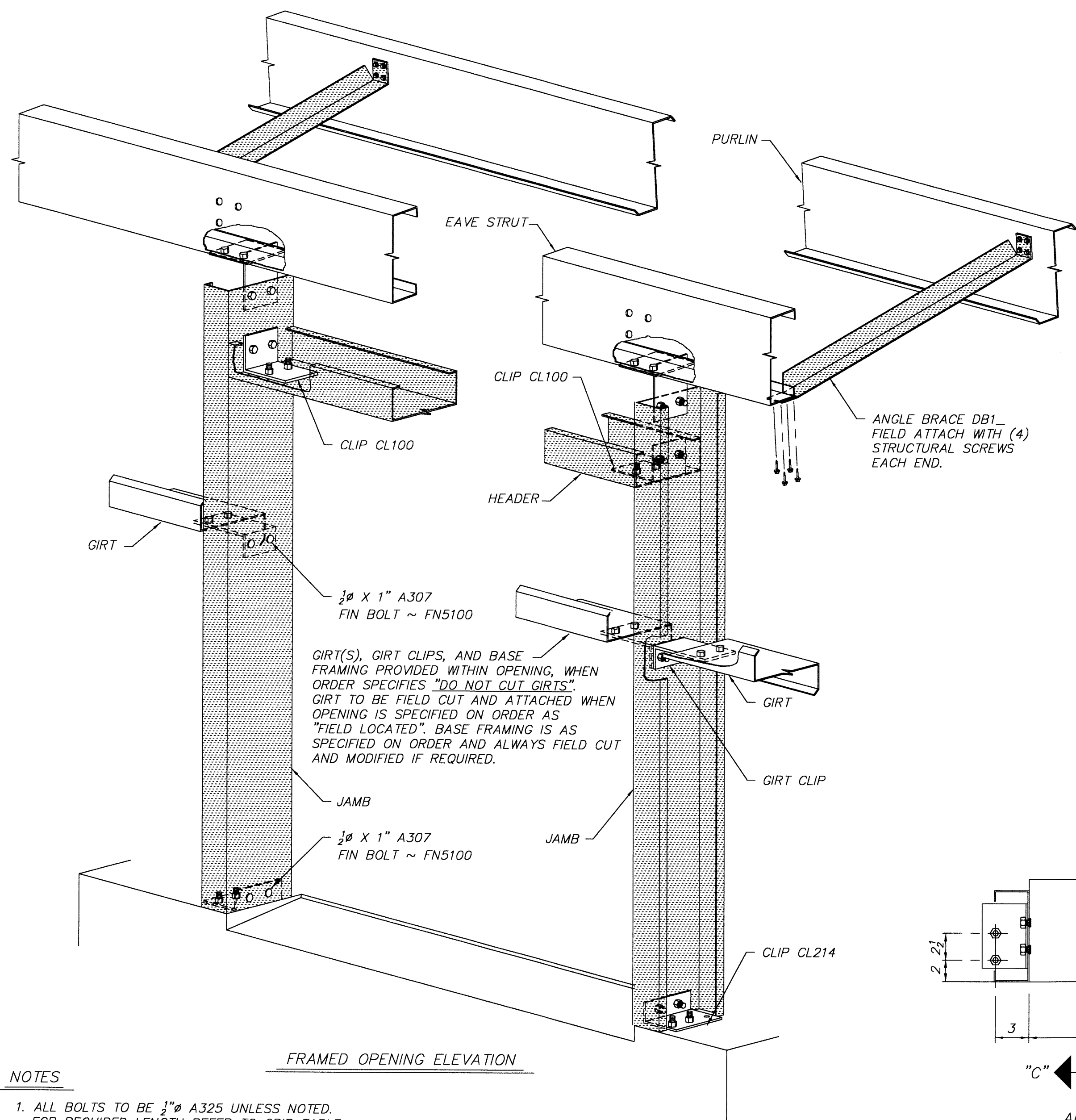
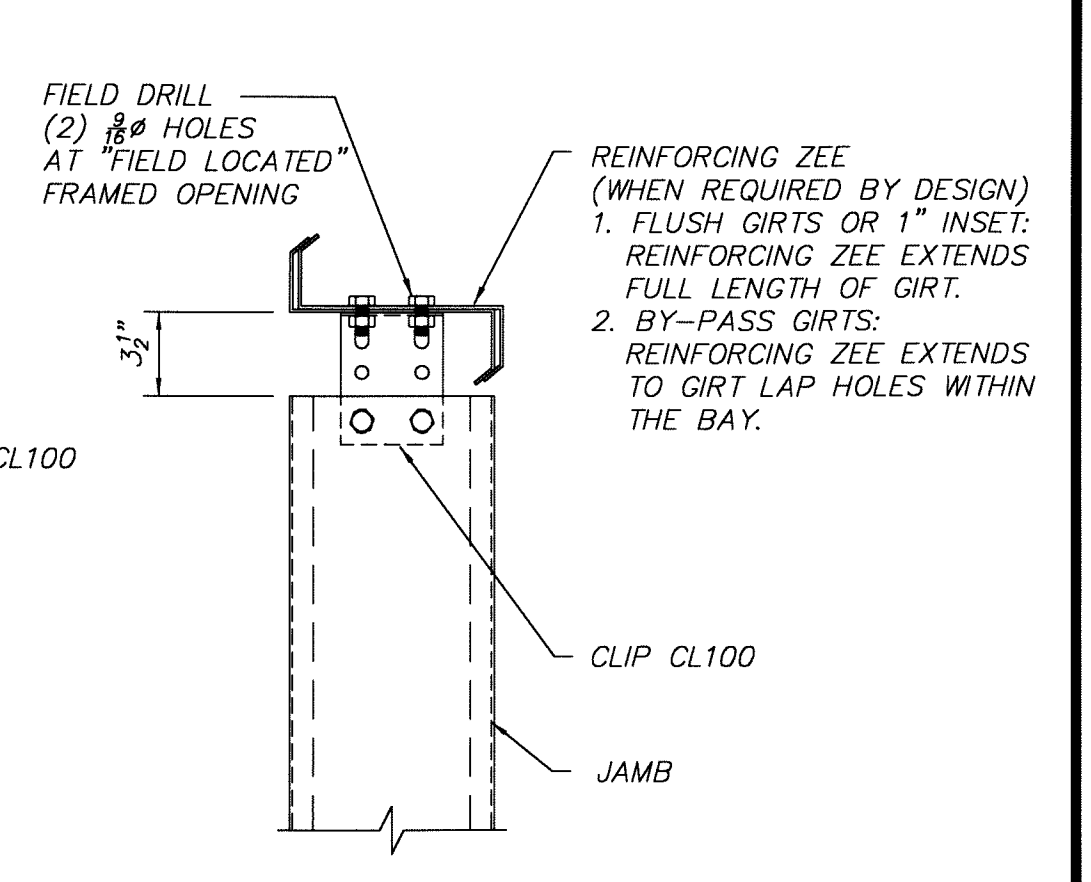
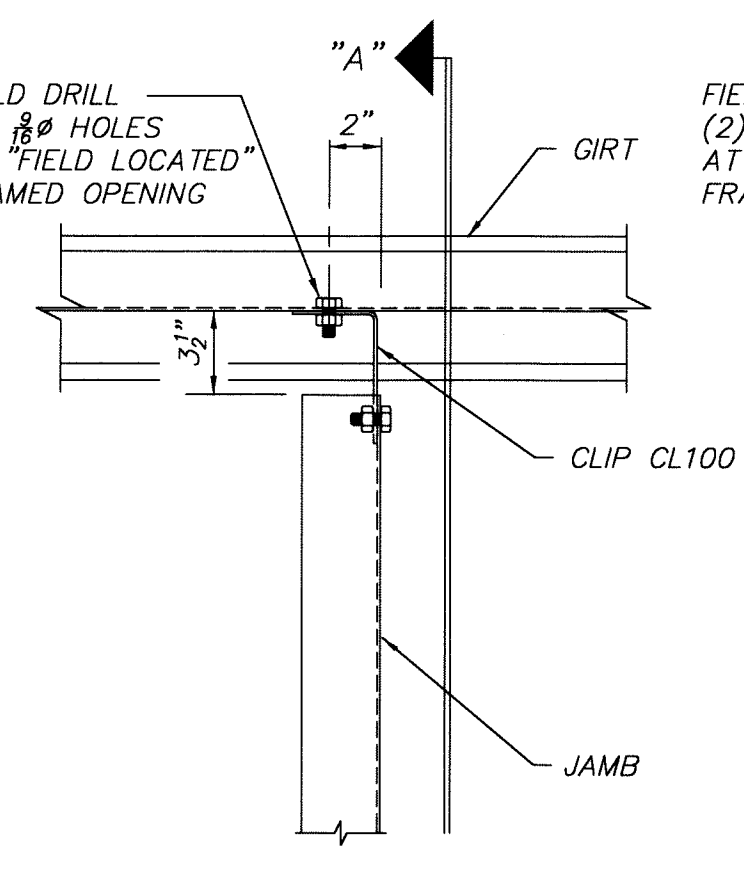
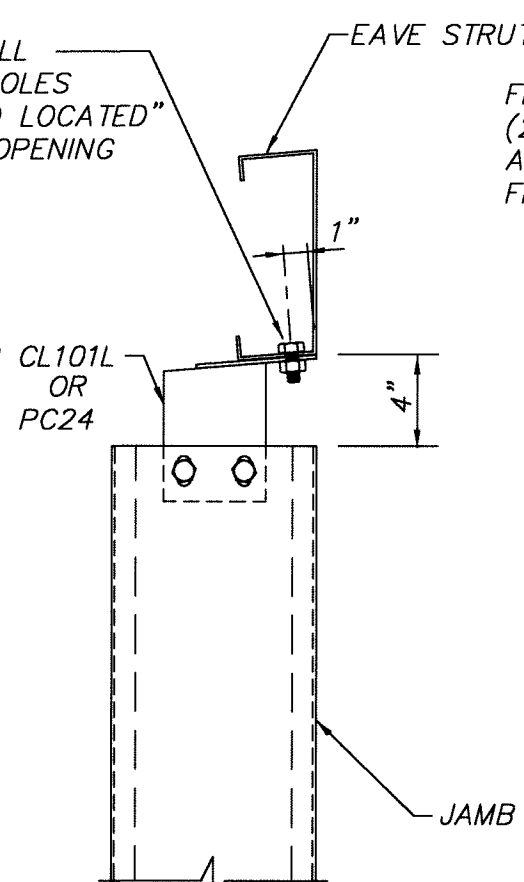
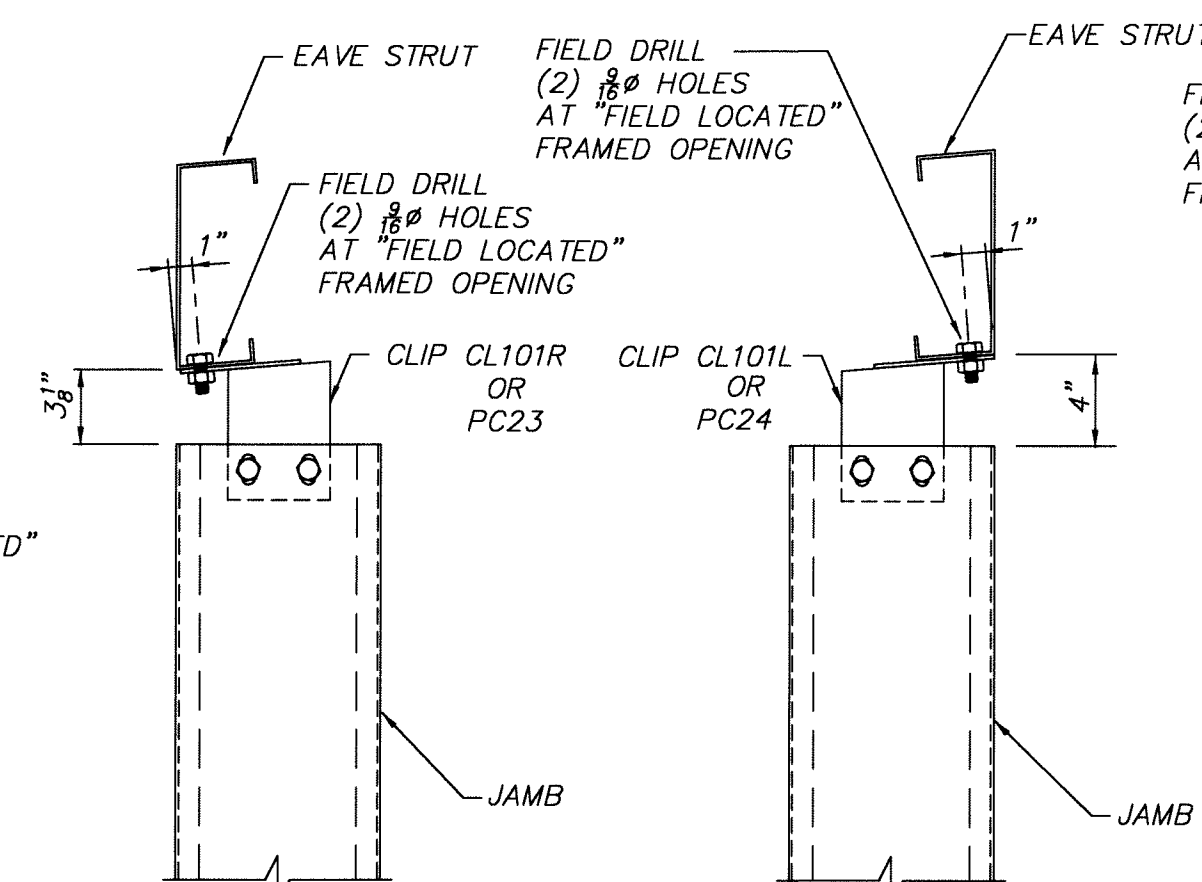
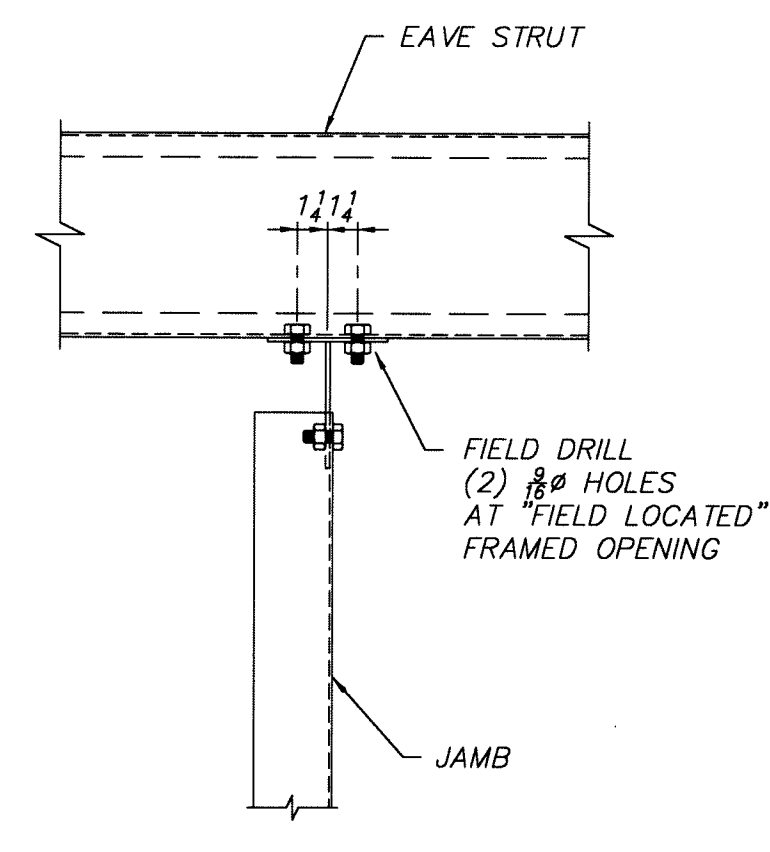
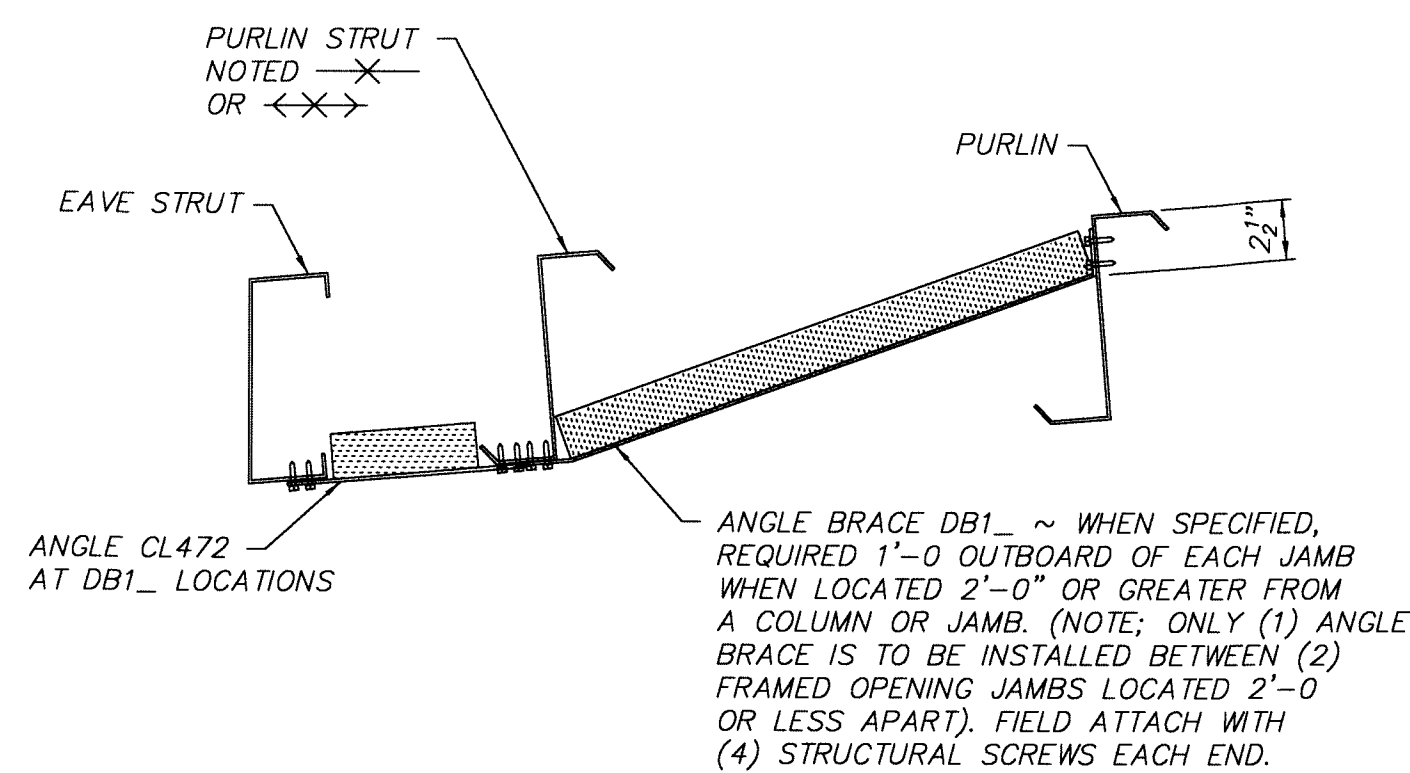
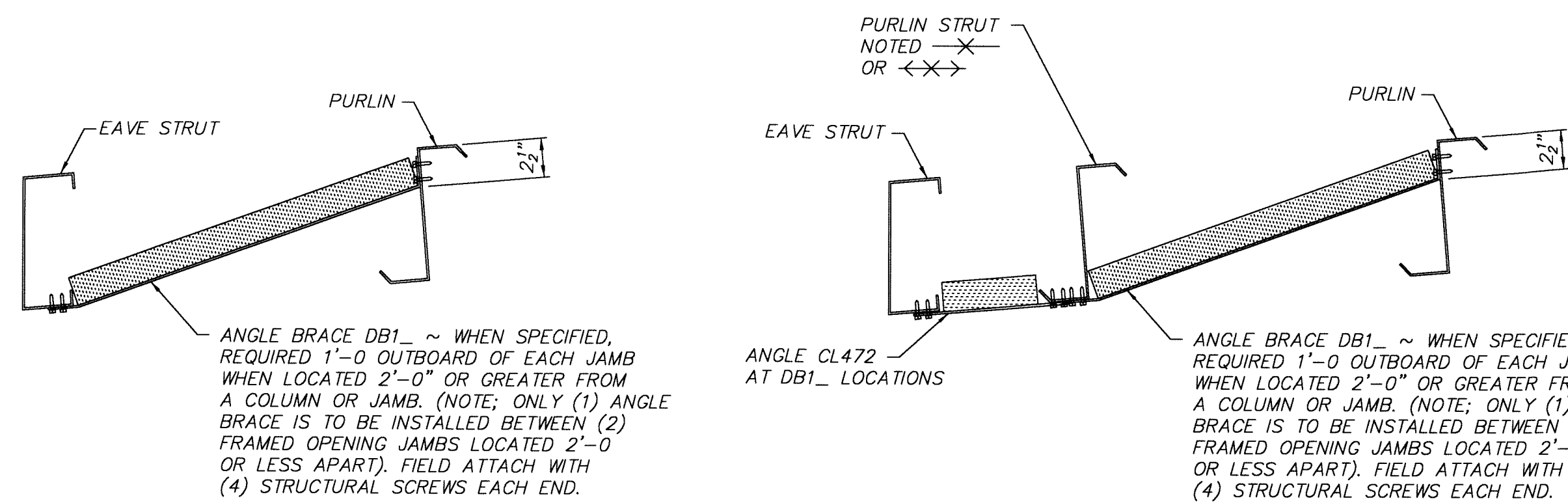
HEAD FLASH SCHEDULE GLASS-FRONT DOORS		
DOOR SIZE	PART MARK	LENGTH
3070	NS10	3'-5 1/8"
6070	NS10	6'-5 1/2"

HEAD FLASH SCHEDULE GLASS-FRONT DOORS WITH 18" SIDELITE		
DOOR SIZE	PART MARK	LENGTH
3070 (Single SideLite)	NS10	4'-11 1/2"
3070 (Double SideLite)	NS10	6'-5 1/2"



- NOTES
1. ALL BOLTS TO BE 1/2" A325 UNLESS NOTED. FOR LENGTHS REFER TO GRIP TABLE ON CUSTOM ERECTION DRAWINGS.
 2. THIS DOOR IS DESIGNED TO INSTALL BEFORE THE WALL PANELS ARE ERECTED.
 3. DO NOT REMOVE THE SCREWS HOLDING THE DOOR LEAF CLOSED UNTIL AFTER THE DOOR IS INSTALLED. THESE SCREWS HOLD THE DOOR FRAME SQUARE DURING THE INSTALLATION PROCESS.
 4. GLASS-FRONT DOORS - DO NOT UNLOCK THE DOOR UNTIL THE UNIT IS COMPLETELY INSTALLED UNLOCKING THE DOOR PRIOR TO COMPLETION OF THE INSTALLATION MAY RESULT IN OPERATION PROBLEMS OF THE DOOR.
 5. FOR INSTALLATION PROCEDURES REFER TO THE LITERATURE INCLUDED WITH DOOR PACKAGE.

REVISIONS	BY	DATE	NOTES	DRN. BY	DATE	STAR BUILDING SYSTEMS a Robertson Ceco company	PRE-ASSEMBLED AND GLASS-FRONT SWING DOOR	53.09.06 09/17/06
6 Changed A307 Bolts to A325 Bolts and adds NOTES	RGB		THIS DRAWING IS NOT TO SCALE	LEC				
				CHK. BY				
				TM				



NOTES

1. ALL BOLTS TO BE $\frac{1}{2}" \phi$ A325 UNLESS NOTED.
FOR REQUIRED LENGTH REFER TO GRIP TABLE
ON CUSTOM ERECTION DRAWINGS.

FRAMED OPENING ELEVATION

GIRT TO JAMB CONNECTION

SECTION "B"
AT 8₂' GIRTS

SECTION "B"
AT 10" GIRTS

SECTION "B"
AT 10" GIRTS

ANCHOR ROD SETTING

SECTION "C"

JAMB DETAIL AT CURB
(FOR CURBS 12" HIGH OR HIGHER)

JAMB DETAIL AT FLOOR

REVISIONS		BY	DATE
10	<i>Revised ½"Ø A307 Bolts to ¾"Ø A325 Bolts and changed Notes.</i>	<i>RGB</i>	

NOTES

THIS DRAWING IS NOT TO SCALE

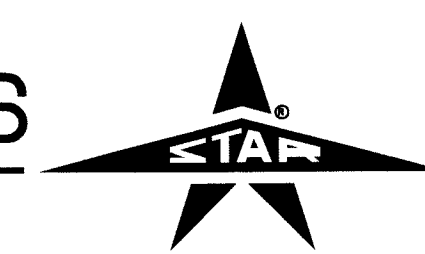
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STAR BUILDING SYSTEMS

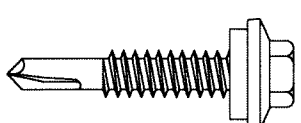
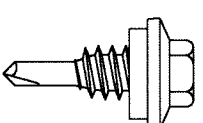
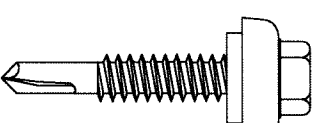
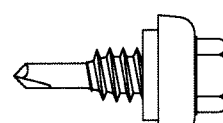
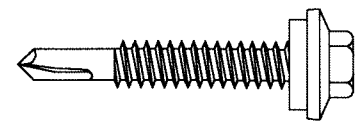
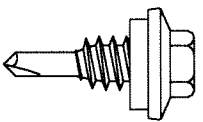
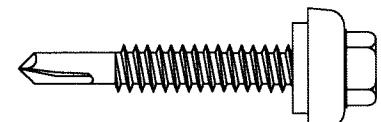
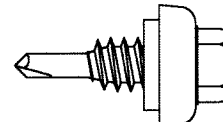
a Robertson Ceco company


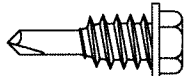
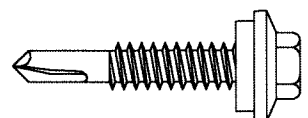
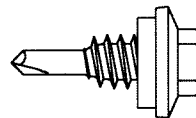


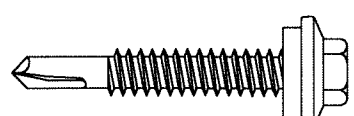
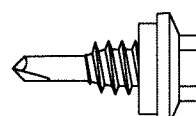




FRAMED OPENING



54.14.11



09/17/06



DURA-RIB ROOF							
STANDARD				OPTIONAL ZINC PLATED			
ROOF SCREW		LAP SCREW		ROOF SCREW		LAP SCREW	
SD125W_		SD75W_		SDW125_		SDW75_	
NO. 12-14 X 1 1/4	S.D. SCREW W/WASHER	1/4-14 X 3/4	S.D. SCREW W/WASHER	NO. 12-14 X 1 1/4	S.D. SCREW W/WASHER	1/4-14 X 3/4	S.D. SCREW W/WASHER
OPTIONAL LENGTH				OPTIONAL LENGTH ZINC PLATED			
ROOF SCREW		LAP SCREW		ROOF SCREW		LAP SCREW	
SD150W_		SD75W_		SDW150_		SDW75_	
NO. 12-14 X 1 1/2	S.D. SCREW W/WASHER	1/4-14 X 3/4	S.D. SCREW W/WASHER	NO. 12-14 X 1 1/2	S.D. SCREW W/WASHER	1/4-14 X 3/4	S.D. SCREW W/WASHER



DURA-RIB AND STARMARK WALL / WINDWARD PARTITION							
STANDARD				OPTIONAL WITH WASHER			
WALL SCREW		LAP SCREW		WALL SCREW		LAP SCREW	
SD125_		SD75_		SD125W_		SD75W_	
NO. 12-14 X 1 1/4	S.D. SCREW NO WASHER	1/4-14 X 3/4	S.D. SCREW NO WASHER	NO. 12-14 X 1 1/4	S.D. SCREW W/WASHER	1/4-14 X 3/4	S.D. SCREW W/WASHER
OPTIONAL LENGTH				OPTIONAL LENGTH WITH WASHER			
WALL SCREW		LAP SCREW		WALL SCREW		LAP SCREW	
SD150_		SD75_		SD150W_		SD75W_	
NO. 12-14 X 1 1/2	S.D. SCREW NO WASHER	1/4-14 X 3/4	S.D. SCREW NO WASHER	NO. 12-14 X 1 1/2	S.D. SCREW W/WASHER	1/4-14 X 3/4	S.D. SCREW W/WASHER

NON-WINDWARD PARTITION			
PARTITION SCREW		LAP SCREW	
SD125_		SD50_	
NO. 12-14 X 1 1/4	S.D. SCREW NO WASHER	NO. 8-18 X 1/2	S.D. SCREW NO WASHER

FACADE			
FACADE SCREW		LAP SCREW	
SD125_		SD75_	
NO. 12-14 X 1 1/4	S.D. SCREW NO WASHER	1/4-14 X 3/4	S.D. SCREW NO WASHER

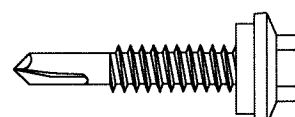
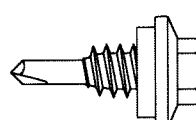
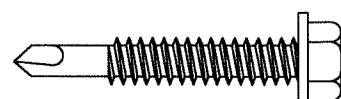
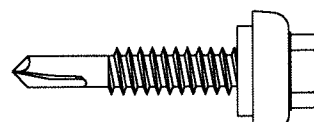
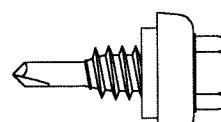


BACK PANEL			
BACK PANEL SCREW		LAP SCREW	
SD125_		SD75_	
NO. 12-14 X 1 1/4	S.D. SCREW NO WASHER	1/4-14 X 3/4	S.D. SCREW NO WASHER

LINER			
LINER SCREW		LAP SCREW	
SD125_		SD50_	
NO. 12-14 X 1 1/4	S.D. SCREW NO WASHER	NO. 8-18 X 1/2	S.D. SCREW NO WASHER

SOFFIT			
SOFFIT SCREW		LAP SCREW	
SD125_		SD75_	
NO. 12-14 X 1 1/4	S.D. SCREW NO WASHER	1/4-14 X 3/4	S.D. SCREW NO WASHER

NOTES:

- (1.) SPECIAL COLORED AND NON STANDARD SCREW PART NUMBERS LISTED ON PACKING LIST AS SPEC_6.
- (2.) DURA-RIB ROOF/WALL AND STARMARK WALL FASTENER LENGTH;
"STANDARD" 1 1/4" ROOF/WALL SCREWS FOR ATTACHING PANEL TO LIGHT STRUCTURAL STEEL MEMBERS (MAXIMUM .21" THICKNESS), ON NON-INSULATED OR INSULATED BUILDING WITH A NON-RIGID BLANKET INSULATION WITH AN "R" VALUE UP TO AND INCLUDING "R-13", UP TO 4" THICK.
"OPTIONAL LENGTH" 1 1/2" ROOF/WALL SCREWS FOR ATTACHING PANEL TO LIGHT STRUCTURAL STEEL MEMBERS (MAXIMUM .21" THICKNESS), ON AN INSULATED BUILDING WITH A NON-RIGID BLANKET INSULATION WITH AN "R" VALUE GREATER THAN "R-13" BUT LESS THAN "R-19", UP TO 6" THICK.

STARSHIELD ROOF			
CLIP SCREW		STANDARD	
ATTACHMENT TO COLD FORMED FRAMING UP TO .21" MAXIMUM THICKNESS. (1 SCREW PER CLIP STANDARD, 2 SCREWS PER CLIP AT ROOF REQUIRING FACTORY MUTUAL APPROVAL)		SPLICE SCREW	LAP SCREW
		SD125W_  NO. 12-14 X 1 1/4 S.D. SCREW W/WASHER	SD75W_  1/4-14 X 3/4 S.D. SCREW W/WASHER
SD1415  1/4-14 X 1 1/2 S.D. SCREW (GALVALUME/ALUMZINC) NO WASHER		OPTIONAL ZINC PLATED	
ATTACHMENT TO BAR JOIST FRAMING AND LIGHT STRUCTURAL STEEL UP TO 1/2" MAXIMUM THICKNESS. (2 SCREWS PER CLIP TO BAR JOIST AND/OR FACTORY MUTUAL APPROVAL.)		SPLICE SCREW	LAP SCREW
		SDW125_  NO. 12-14 X 1 1/4 S.D. SCREW W/WASHER	SDW75_  1/4-14 X 3/4 S.D. SCREW W/WASHER
SD125T4  NO. 12-24 X 1 1/4 S.D. SCREW (UNPAINTED) NO WASHER		<div>FASTENER COLOR AVAILABILITY CHART</div> <div>ALMOND</div> <div>CLASSIC GREEN</div>	
ATTACHMENT TO BAR JOIST FRAMING AND LIGHT STRUCTURAL STEEL UP TO 1/2" MAXIMUM THICKNESS. (2 SCREWS PER CLIP TO BAR JOIST AND/OR FACTORY MUTUAL APPROVAL.)			
SD125T5  NO. 12-24 X 1 1/4 S.D. SCREW (UNPAINTED) NO WASHER			

STRUCTURAL

ATTACHMENT OF SHEETING ANGLES, SAG ANGLES, BRACE ANGLES, EAVE STRUT ADAPTORS, ETC. TO COLD FORMED AND LIGHT STRUCTURAL STEEL MEMBERS UP TO .21" MAXIMUM THICKNESS. (STANDARD UNLESS SPECIFIED OTHERWISE ON STANDARD AND/OR CUSTOM ERECTION DRAWINGS.)

SD125_

NO. 12-14 X 1 1/4

S.D. SCREW

(GALVALUME/ALUMZINC)

NO WASHER

ATTACHMENT OF SHEETING ANGLES, SAG ANGLES, BRACE ANGLES, EAVE STRUT ADAPTORS, ETC. TO COLD FORMED AND LIGHT STRUCTURAL STEEL MEMBERS UP TO 1/2" MAXIMUM THICKNESS. (USE ONLY AT LOCATIONS SPECIFIED ON STANDARD AND/OR CUSTOM ERECTION DRAWINGS.)

SD125T5

NO. 12-24 X 1 1/4

S.D. SCREW

(UNPAINTED)

NO WASHER

ATTACHMENT OF LIGHT STRUCTURAL STEEL MEMBERS AS SPECIFIED BY DESIGN. PRE-DRILLING HOLES (7/32"Ø) REQUIRED. (USE ONLY AT LOCATIONS SPECIFIED ON STANDARD AND/OR CUSTOM ERECTION DRAWINGS.)

SB125




11/32" SCRU-BOLT X 1 1/4

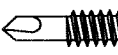

S.T. SCREW


(UNPAINTED)

NO WASHER

FASTENER COLOR AVAILABILITY CHART
ALMOND
CLASSIC GREEN
COLONIAL RED
MEDIUM BRONZE
PACIFIC BLUE
SLATE GRAY
SNOW WHITE
POLAR WHITE
ASH GRAY
BURNISED SLATE
CHARCOAL GRAY
HAWAIIAN BLUE
LIGHT STONE
SADDLE TAN
GALVALUME /ALUMZINC
GALVANIZED
UNPAINTED
ZINC PLATED
BROWNSTONE

RIVETS	
POP 1/8" DIAMETER (UNPAINTED)	 POP RIVET
POPAL 3/16" DIAMETER (UNPAINTED)	 BLIND RIVET
BULBTITE 3/16" DIAMETER (UNPAINTED)	 BULB-TYPE RIVET W/WASHER

TRIM FASTENER	
STANDARD	
SD50_	
NO. 8-18 X 1/2	S.D. SCREW NO WASHER
OPTIONAL	
SD75_	
1/4-14 X 3/4	S.D. SCREW NO WASHER

REVISIONS		BY	DATE	NOTES	THIS DRAWING NOT TO SCALE	<div><div><div>DRN. BY</div><div>GH</div></div><div><div>DATE</div><div>11-18-94</div></div></div> <div><div>CHK. BY</div><div></div></div> <div><div>DATE</div><div></div></div> <div><div>STAR BUILDING SYSTEMS</div><div>a Robertson Ceco company</div><div></div></div>	FASTENER APPLICATION CHART	70.04.17
14	Revised DuraRib and StarShield Roof Screw Titles	RGB						
15	Revised Colors listed in Fastener Color Availability Chart	RGB						
16	Revised 7/8" screws to 3/4" and Stainless Steel to Zinc Plated	RGB						
17	Revised Colors listed in Fastener Color Availability Chart	RGB						01/21/07