

WGC COMMERCIAL

GREENHOUSES • DESIGN • BUILD • SERVICE

CEDAR SERIES

HOBBY HOUSE

INSTRUCTION MANUAL

AMERILUX INTERNATIONAL
CELEBRATING 20 YEARS

J&D Manufacturing

PLYCO

CONLEY'S
GREENHOUSE MANUFACTURING & SALES

- Greenhouse Frames by WGC/Conley's Manufacturing - Glazing by Amerilux International - Doors by Plyco Corp - Equipment by J&D Manufacturing - Distributed by Wisconsin Greenhouse Company (Equipment Subject to change)

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INTRODUCTION

SHOULD YOU HAVE ANY QUESTIONS CONCERNING THESE INSTRUCTION, COMPONENTS ETC..., PLEASE CONTACT US DIRECTLY. WE WELL BE GLAD TO ANSWER ANY QUESTIONS CONCERNING OUR MANUFACTURED PRODUCT. INCLUDED IN THIS PACKAGE ARE INSTRUCTIONS AND DETAILED DRAWINGS PERTAINING TO YOUR WGC/CONLEY'S GREENHOUSE SYSTEM. STUDY THE INSTRUCTIONS BEFORE BEGINNING CONSTRUCTION TO BECOME FAMILIAR WITH OUR PRODUCT AND HOW IT IS ASSEMBLED.

STORE ALL MATERIALS OFF THE GROUND ON WOOD BLOCKS. PROTECT ALL YOUR MATERIALS FROM THEFT AND/OR DAMAGE. YOU MAY WISH TO DISCUSS BUILDERS RISK INSURANCE WITH YOUR INSURANCE AGENT.

DISCLAIMER

THE FOLLOWING INSTRUCTIONS ARE GIVEN AS SUGGESTED GUIDELINES FOR GENERAL INSTRUCTIONS. WGC/ CONLEY'S MANUFACTURING AND SALES OR ANY OF THEIR EMPLOYEES SHALL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM PURCHASERS IMPLEMENTATION OF THESE INSTRUCTIONS. PURCHASERS ALONE SHALL BE RESPONSIBLE FOR CONFORMANCE WITH ALL APPLICABLE LAWS, ORDINANCES, AND SAFETY STANDARDS IN CONSTRUCTING THIS GREENHOUSE AND ALL EQUIPMENT INSTALLED THEREIN.

NOTICE TO WGC/CONLEY'S CUSTOMERS PROTECT YOURSELF FROM ADDED COSTS

ALL PRODUCTS ARE SOLD F.O.B. SHIPPING POINT, AND THE ATTACHED MEMORANDUM COPY OF BILL OF LADING THAT INDICATES THAT MATERIAL SHIPPED HAS NOW, BY LAW, BECOME YOUR PROPERTY AND IS AN ACKNOWLEDGMENT BY THE TRANSPORTATION COMPANY OF THE RECEIPT OF THE MATERIALS IN GOOD CONDITION.

SAFE DELIVERY OF THIS SHIPMENT IS NOW THE RESPONSIBILITY OF THE CARRIER WHO ACTS AS YOUR AGENT. WE WILL BE GLAD TO RENDER ASSISTANCE TO TRACE AND RECOVER LOST GOODS.

EXAMINE THE SHIPMENT CAREFULLY BEFORE SIGNING THE FREIGHT BILL. IF ANY DAMAGE IS NOTED, OR OF THE NUMBER OF PIECES DOES NOT AGREE WITH THE BILL OF LADING, INSIST THAT SHORTAGE OR DAMAGE BE NOTED ON THE FREIGHT BILL BY THE CARRIERS AGENT. FAILURE TO DO SO MAY JEOPARDIZE YOUR RECOVERY.

DO NOT REFUSE SHIPMENT AS THIS IS YOUR PROPERTY AND REFUSAL CAUSES UNNECESSARY DELAYS AND SHORTAGE EXPENSES. ARRANGE WITH CARRIER WITHIN 15 DAYS TO INSPECT AND MAKE REFERENCE THERE TO ON THE FREIGHT BILL. CONSULT YOUR CARRIER FOR DISPOSITION OF DAMAGED ARTICLES.

MAKE YOUR CLAIM PROMPTLY, THE TRANSPORTATION COMPANY WILL NOT CONSIDER A CLAIM UNLESS IT IS PRESENTED WITHIN (9) MONTHS FROM THE DATE OF SHIPMENT. CARRIERS AGENT WILL ASSIST YOU IN PREPARING A CLAIM.

CLAIMS FOR LOSS OR DAMAGE AND TRANSPORTATION CHARGES RESULTING FROM SHIPPING, MUST NOT BE DEDUCTED FROM THE INVOICE, NOR PATENT INVOICES WITH HELD AWAITING ADJUSTMENT OF SUCH CLAIMS, SINCE IT IS THE FUNCTION OF THE CARRIER TO GUARANTEE SAFE DELIVERY.

CHECK THE ITEMS RECEIVED WITH THE INVOICE. OF THERE IS ANY DISCREPANCY CONTACT US IMMEDIATELY GIVING FULL PARTICULARS. CLAIMS FOR SHORTAGE ATTRIBUTED TO OUR COUNT IN PACKAGE MUST BE MADE WITHIN 10 DATES FORM THE SHIPMENT IS RECEIVED.

NO MERCHANDISE MAY BE RETURNED FOR CREDIT WITHOUT A RETURN GOODS TAG AND SHIPPING INSTRUCTIONS FROM THE FACTORY.

WARRANTY

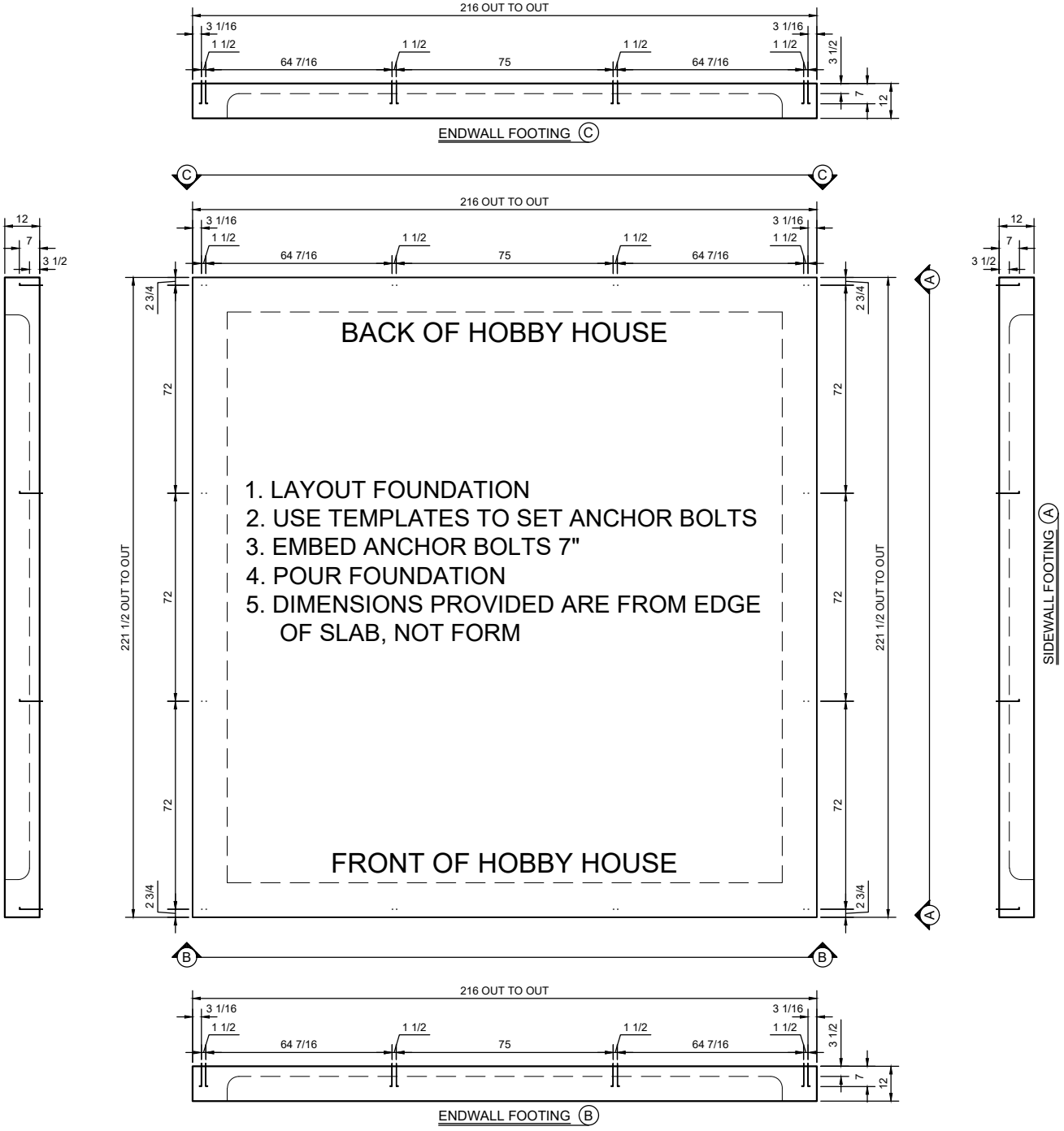
WGC/CONLEY'S MANUFACTURING AND SALES, THEIR EMPLOYEES OR REPRESENTATIVES, WILL NOT BE RESPONSIBLE FOR ANY DAMAGES TO GREENHOUSE COVERINGS, STRUCTURES, CROPS OR EQUIPMENT WHEN USED IN CONDUCTION WITH OUR TUBE - LOCK, OR ANY OTHER LOCKING DEVICE MANUFACTURED BY WGC/CONLEY'S MANUFACTURING AND SALES OR OTHERS.

WGC/CONLEY'S MANUFACTURING AND SALES ONLY PROVIDES THE MEASUREMENTS AND ANCHOR BOLT FOR SECURING THE HOBBY HOUSE TO THE GROUND. CUSTOMERS ARE RESPONSIBLE FOR ALL INFORMATION PERTAINING TO AND INSTALLING FOOTINGS OR CONCRETE SLABS.

REFER TO THE ENGINEERED PRINTS OR THE LOCAL BUILDING DEPARTMENT FOR FOOTING SIZES.

REFER TO PAGE 3 FOR ANCHOR BOLT LOCATIONS.

SETTING THE FOUNDATION



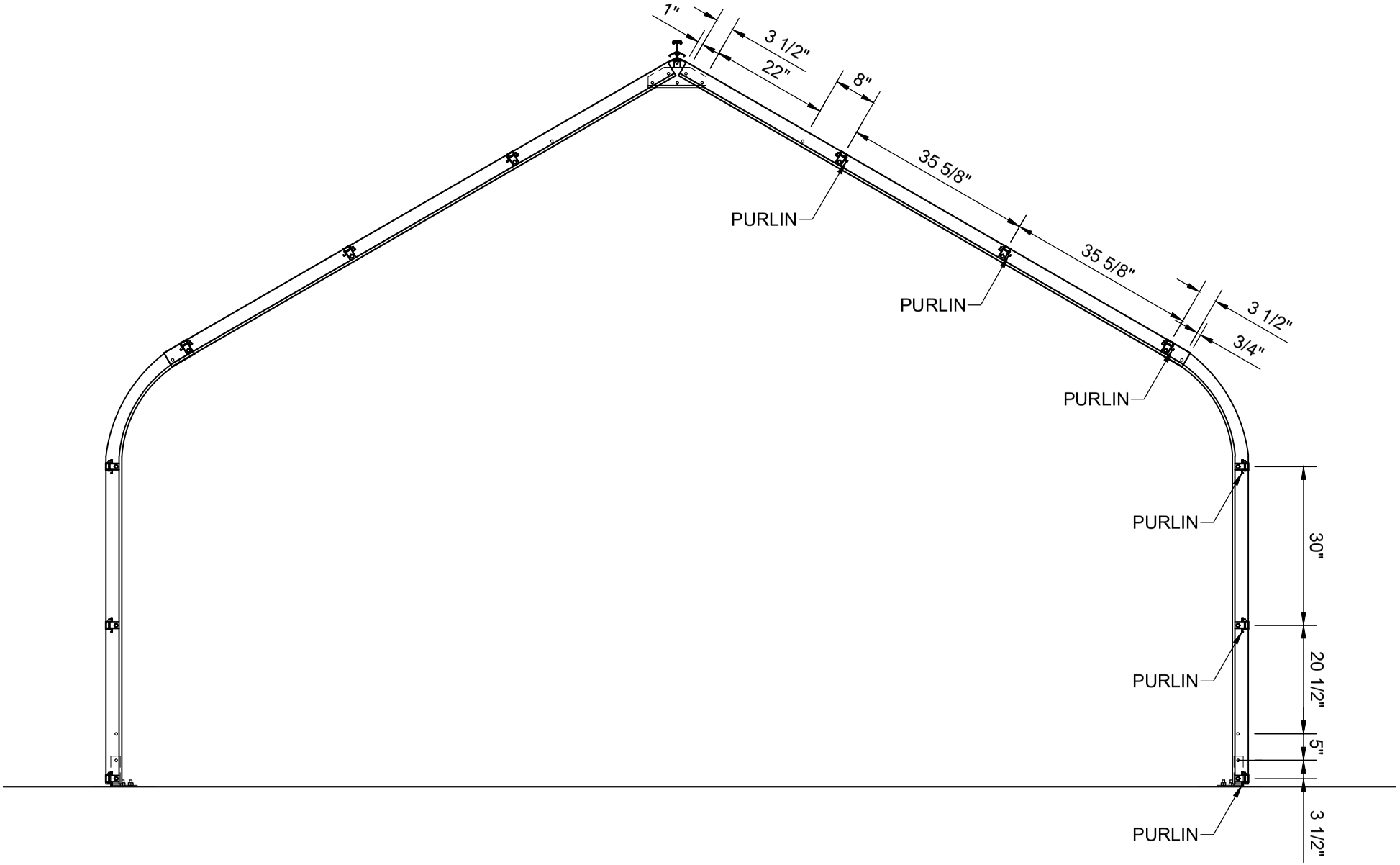
PARTS LIST

ITEM	PART #	DESCRIPTION	DWG
1	A0010190 A0010191	ALUM RIDGE BAR 6/12	
2	A0010220	ALUM TAB RIDGE BAR	
3	A0070361	ALUM PCSS PANEL END CAP	
4	A0070364	ALUM PCSS PANEL END CAP	
5	A0080121	PCSS 6MM 47-3/4" X 197"	
6	A0080123	ALUM PCSS CAP 195-3/4"	
7	A0080124	PCSS 6MM 144"	
8	A0080127	PCSS 6MM 120"	
9	A0080128	ALUM PCSS CAP 144"	
10	A0080129	ALUM PCSS BASE 144"	
11	A0080240	ALUM GABLE END BAR R.H.	
12	A0080250	ALUM GABLE END BAR L.H.	
13	B0000108	BRACE CABLE 3/16" X 8'-0"	
14	B0000250	BRACE CALBE 3/16" X 31'-4"	
15	B0005035	BRACE LUG	
16	B9970270	BOLT/HH 5/16" X 1-3/4"	
17	B9970500	BOLT/HH 3/8" X 2-1/2"	
18	B9970955	BOLT 1/2" X 8"	
19	B9971590	BOLT CARR 3/8" X 1"	
20	C0000588	TEMPLATE SIDE & END	
21	C0000590	COLUMN 9-1/2" 13GA.	
22	C0000595	COLUMN BASE PLATE	
23	C0003320	COLUMN ENDWALL ASMB	
24	C0054820	CHORD UPPER	
25	C9970230	CABLE CLAMPS GALV 3/16"	
26	C9970355	CLOSURE STRIP/GREY	

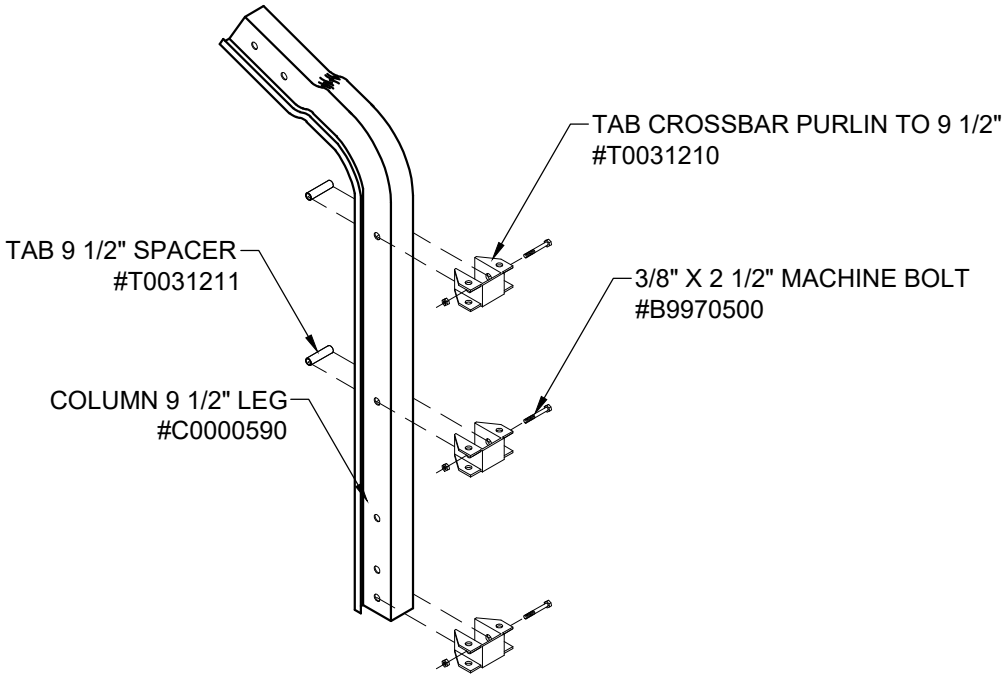
ITEM	PART #	DESCRIPTION	DWG
24	C9970365	CLOSURE STRIP	
25	D9970300	DOOR STORM 80" (T) X 36" W #941 SELF STORING	
26	F0000200	FLASHING DOOR SWING	
27	G0041000	GIRT END 8'-6"	
28	G0041020	GIRT END 17'-7-3/4"	
27	J0000101	JAMB DOOR SLIDING	
28	N9970290	NUT HEX PLTD 5/16"	
29	N9970300	NUT HEX PLTD 3/8"	
30	N9970320	NUT HEX PLTD 1/2"	
31	P0001600	PURLIN CROSSBAR FLUSH	
32	S0000962	SPLICE CHEVRON ASMB	
33	S9970010	SCREW TEK 10-16 X 3/4"	
32	S9970011	SCREW TEK 10-16 X 1-1/4"	
33	S9970017	SCREW TEK W/ 7/8 WASHER 10-16 X 1-1/4"	
34	S9970040	SCREW TEK 10-16 X 1/2"	
35	S9970043	SCREW TEK "AB" 10-16 X 1/2"	
36	S9970052	SCREW TEK 14-14 X 1"	
37	T0000330	EYEBOLT WELDED 3/8" X 3"	
38	T0030880	TAB ENDWALL & HEADER TO JAMB	

ITEM	PART #	DESCRIPTION	DWG
39	T0030890	TAB END GIRT	
40	T0031189	TAB SW PCSS END CAP BRKT	
41	T0031210	TAB CROSSBAR PURLIN	
42	T0031211	TAB 9-1/2" SPACER	
43	T0031212	TAB SPACER	
44	T0049887	TAB END BAR	
45	T9970010 T9970020	TAPE TWINWALL	
46	W9970300	WASHER FOR PCSS	

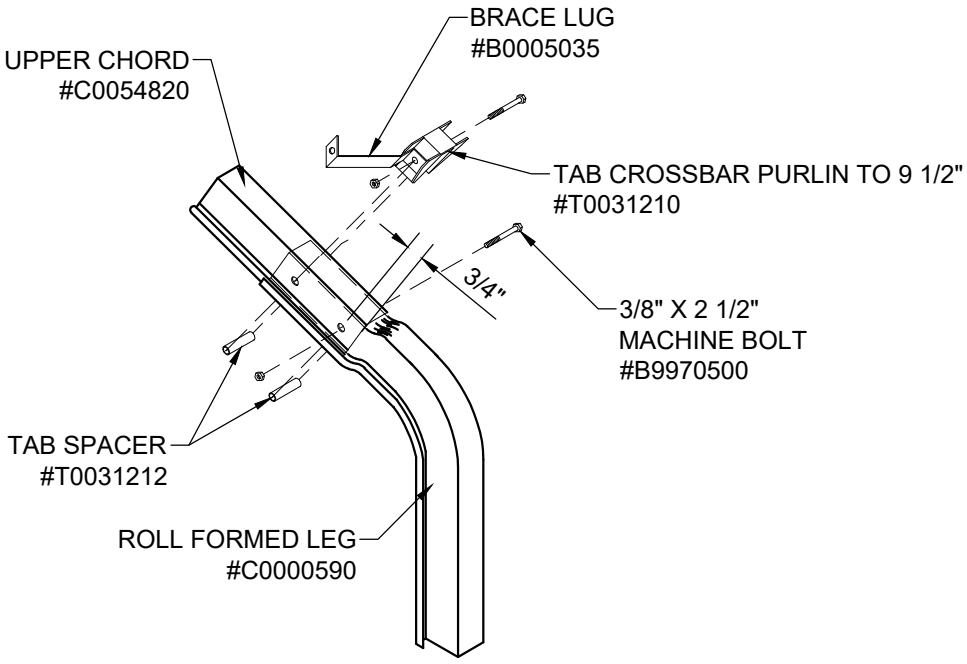
END WALL TRUSS ASSEMBLY



1. INSTALL THE TABS CROSSBAR TO THE LEGS WITH A 3/8" X 2 1/2" MACHINE BOLT WITH A 1 3/4" LONG SPACER AT THE TOP 2 HOLES. AT THE TOP PURLIN TAB WHERE THE "X" BRACING IS GOING, ATTACH A BRACE LUG USING THE SAME BOLTS AS THE OTHER TABS.

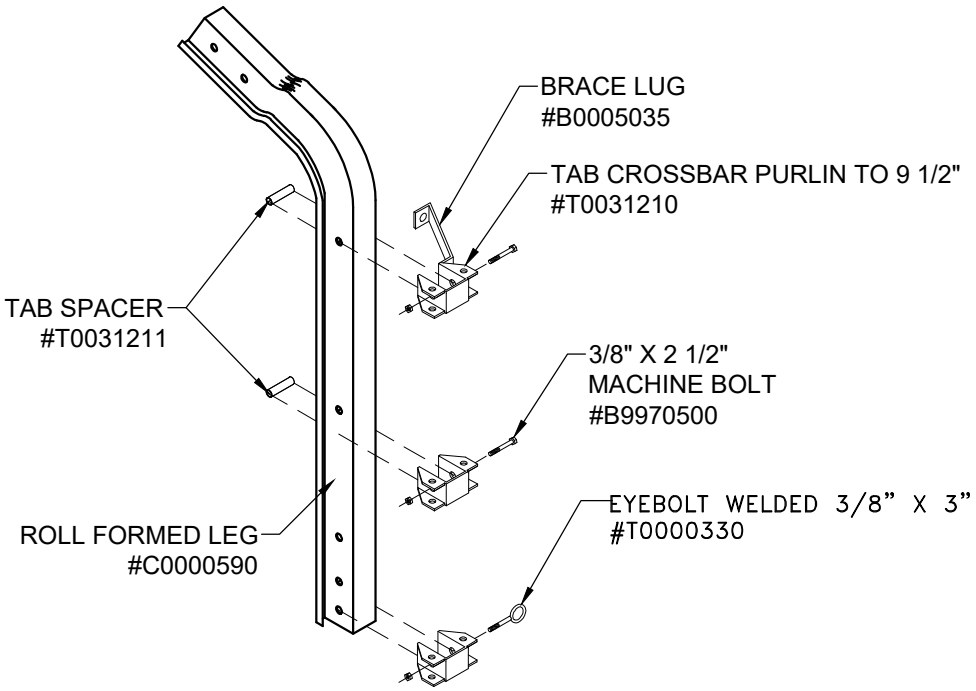


2. ON THE END WALL TRUSSES ONLY ATTACH THE TOP CHORD OF TRUSS TO THE LEG WITH A 3/8" X 2 1/2" MACHINE BOLT AND A 1 1/2" LONG SPACER TAB AT THE UPPER HOLE OF THE SPLICE.



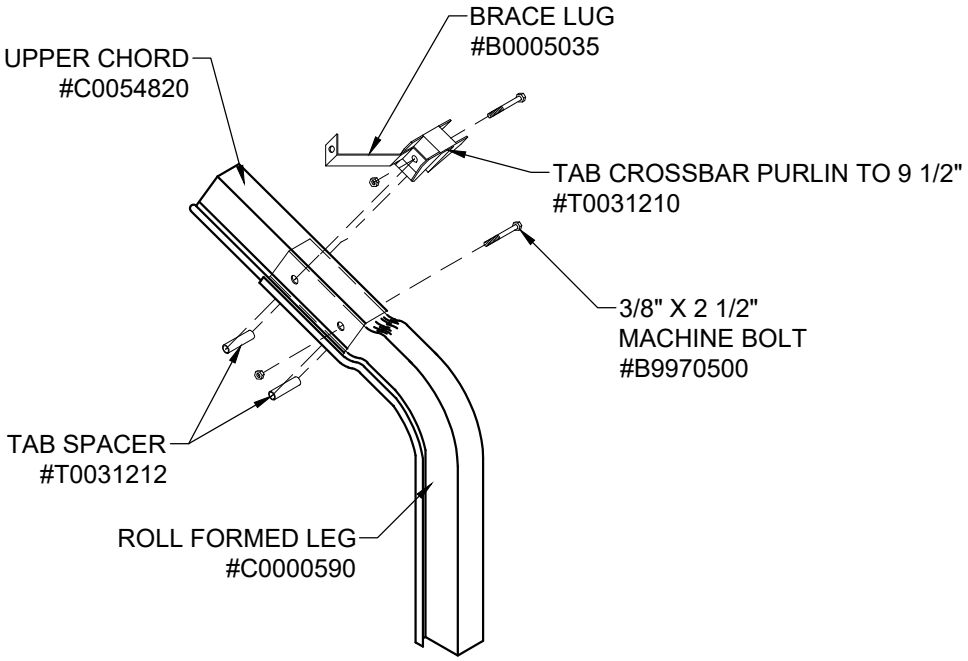
INTERIOR TRUSS ASSEMBLY

1. ATTACH 3 PURLIN TABS TO EACH LEG WITH A 3/8" X 2 1/2" MACHINE BOLT AND USING A 1 3/4" LONG SPACER TAB AT THE TOP 2 PURLIN TABS. AT THE LOWER HOLE OF THE SPLICE, INSTALL A PURLIN TAB AND SECURE IT WITH A 3/8" X 3" EYE BOLT.

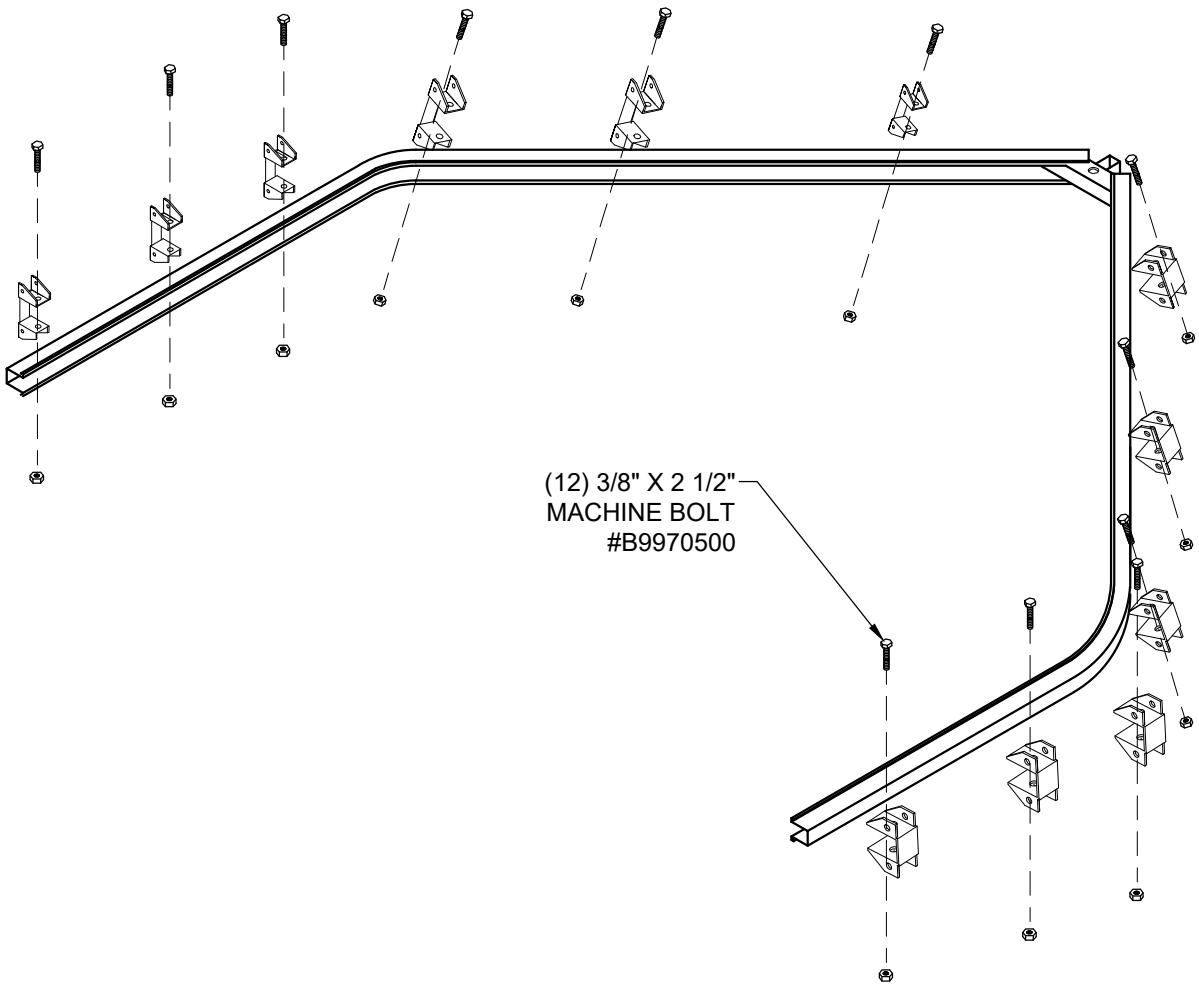


2. ATTACH THE TOP CHORD TO THE LEG BY BOLTING THE TOP HOLE OF THE LEG TO THE SECOND HOLE OF THE TOP CHORD WITH (1) 3/8" X 2 1/2" MACHINE BOLT AND A 1 1/2" LONG SPACER TAB.

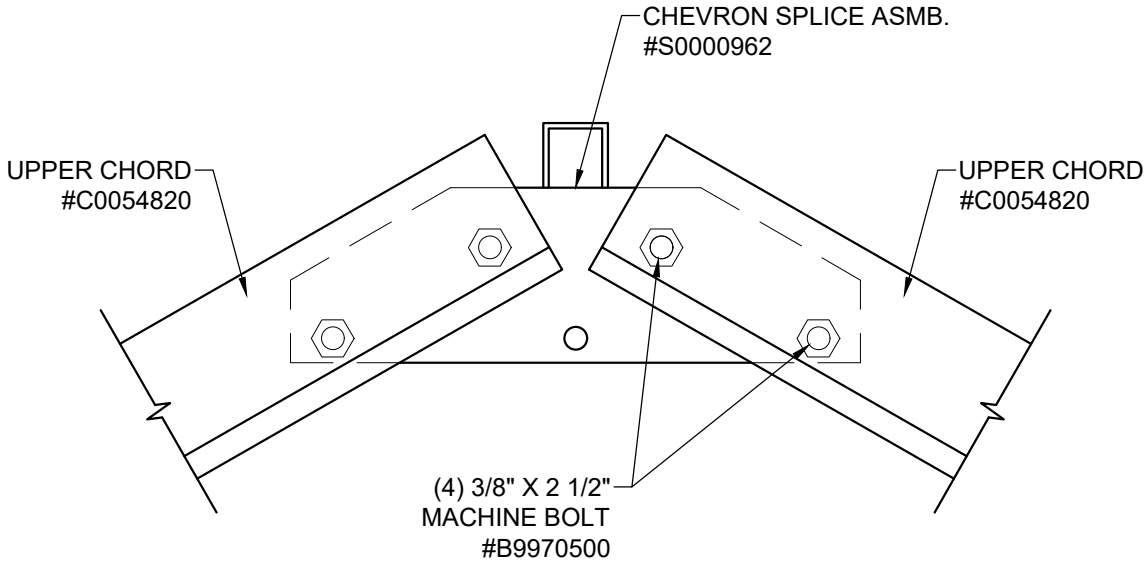
3. SLIDE THE PURLIN TAB OVER THE TOP CHORD AND ALINE IT WITH WITH SECOND HOLE OF THE LEG AND BOLT IT ON WITH (1) 3/8" X 2 1/2" MACHINE BOLT AND A 1 1/2" LONG SPACER.



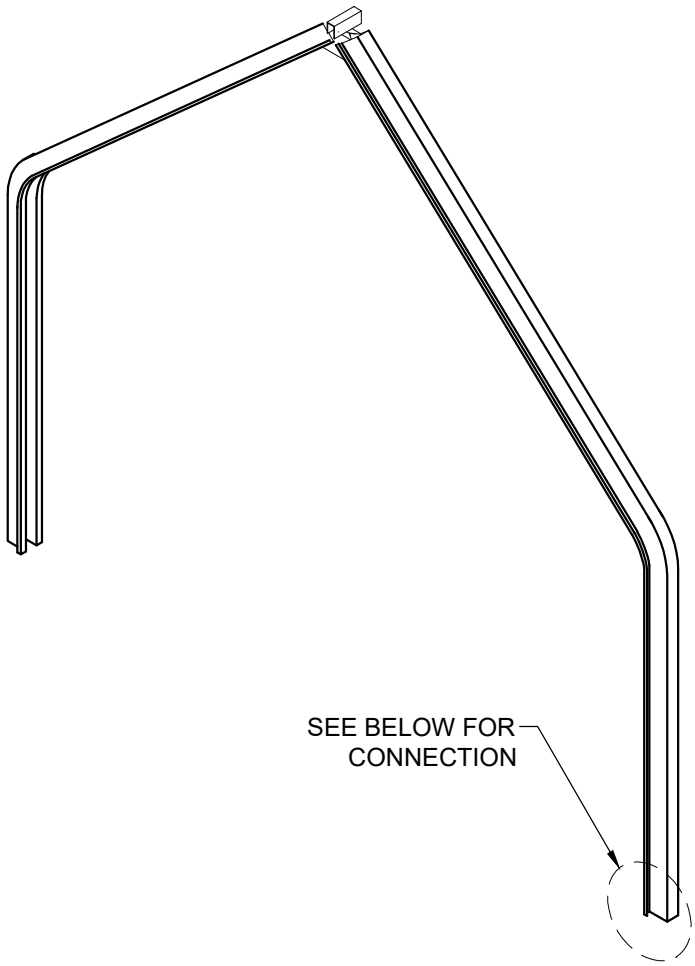
TRUSS ASSEMBLY



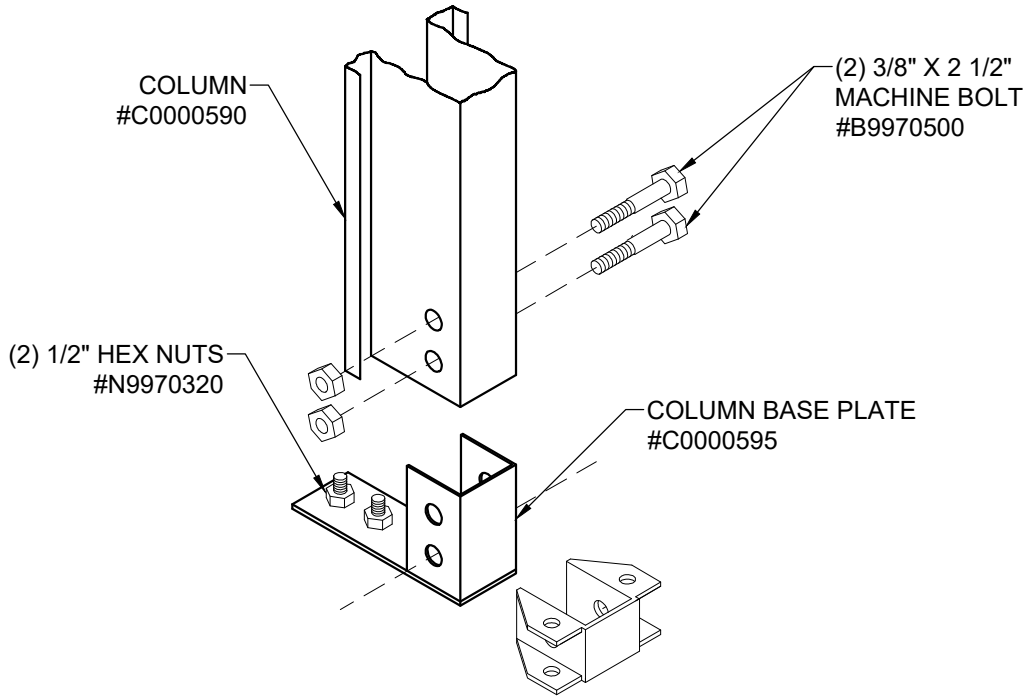
1. CONNECT 2 COLUMN / TOP CHORD ASSEMBLIES WITH A CHEVRON SPLICE AND (4) 3/8" X 2 1/2" MACHINE BOLTS.



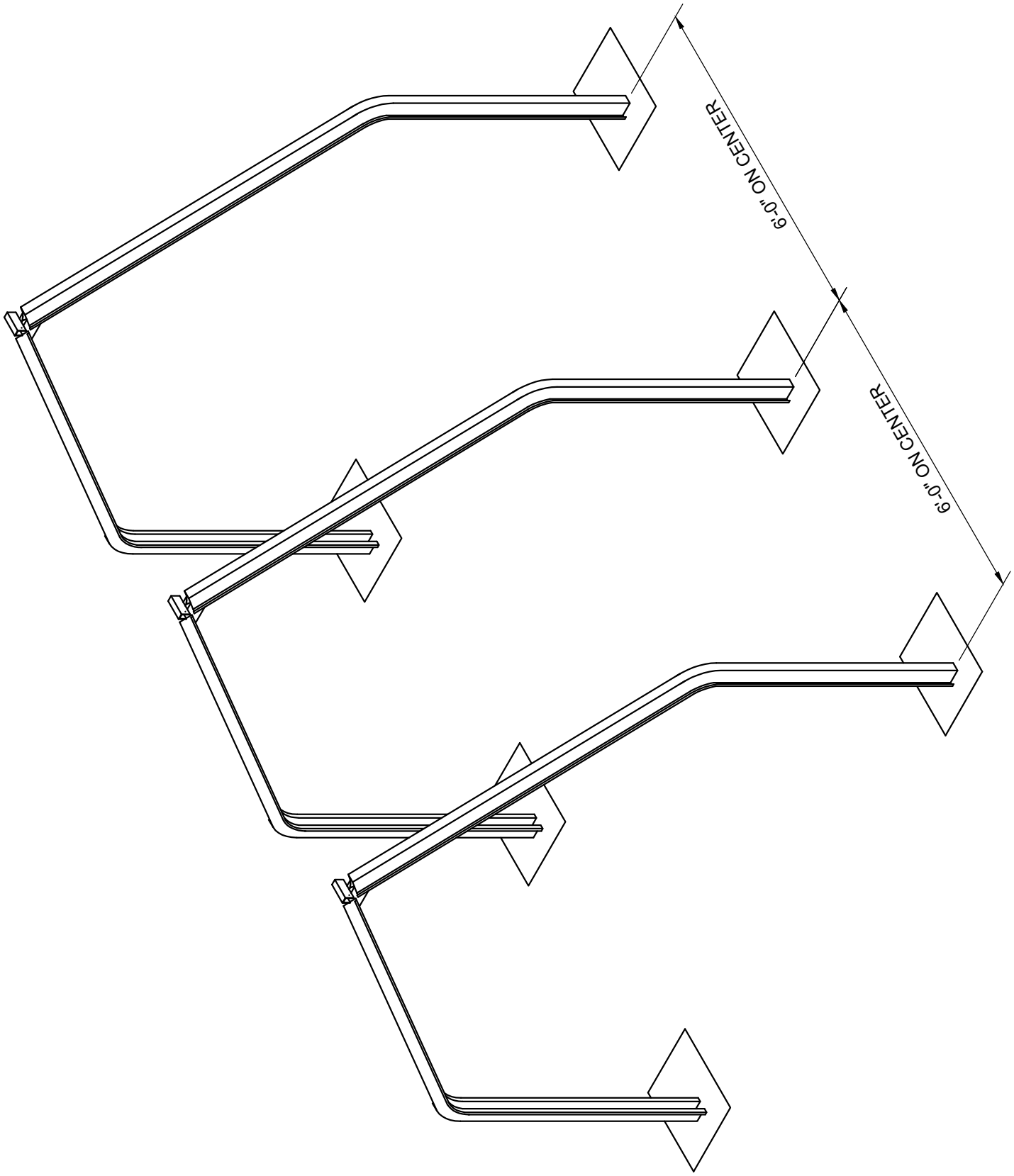
2. ATTACH THE COLUMN BASE PLATES TO 1/2" ANCHOR BOLTS IN THE FOUNDATION WITH (2) 1/2" HEX BOLTS. SEE DETAIL BELOW.



3. STAND THE TRUSS ASSEMBLY ONTO THE BASE PLATE STUB AND SECURE IT WITH (2) 3/8" X 2 1/2" MACHINE BOLTS.

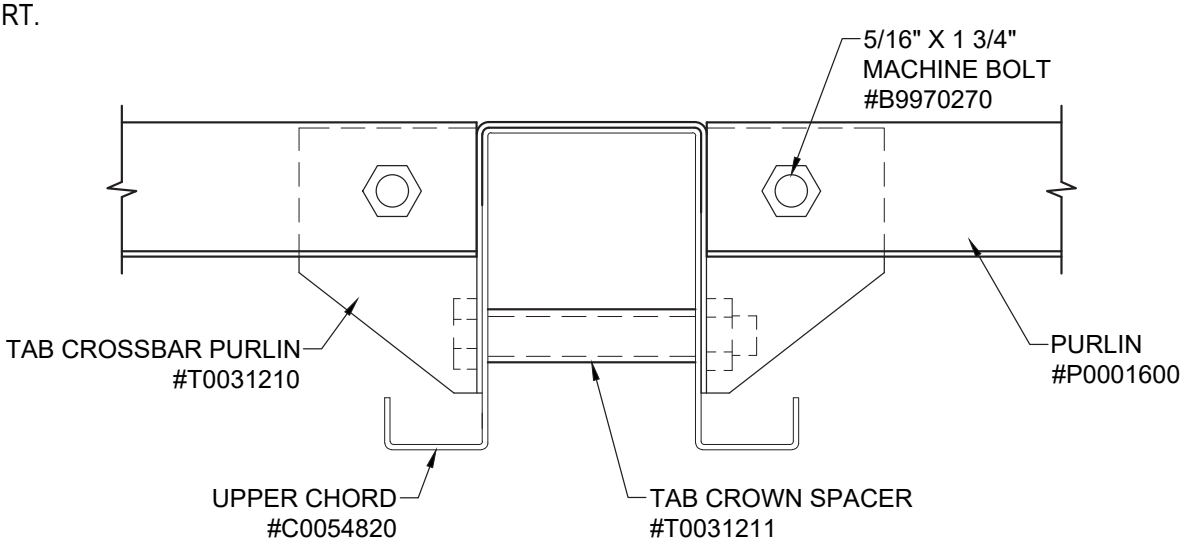


4. STAND AND SECURE THE NEXT TWO TRUSSES (3 TOTAL), THEN INSTALL THE PURLINS.



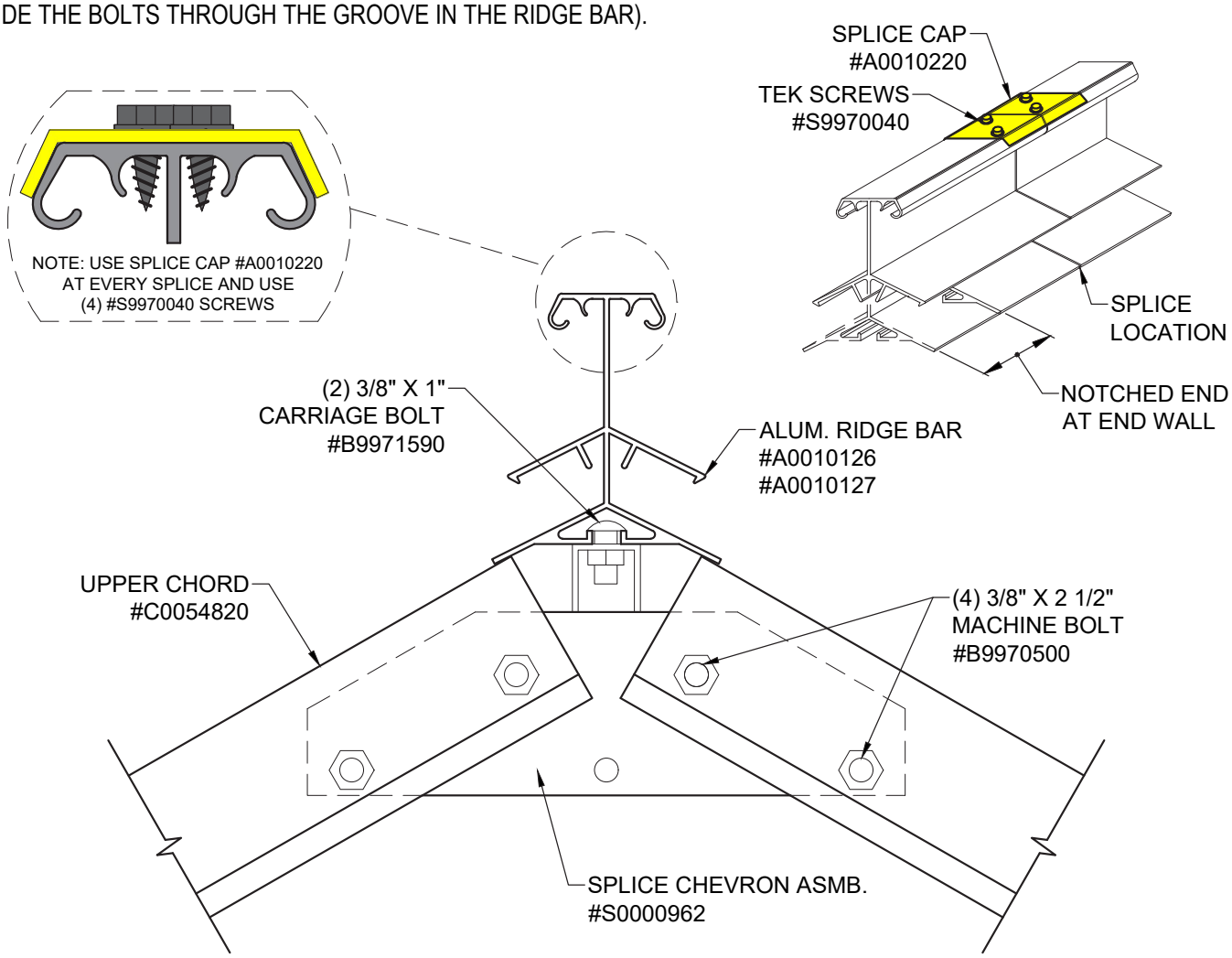
INTERIOR TRUSS ASSEMBLY

1. ATTACH THE PURLIN / GIRTS TO THE PREVIOUSLY INSTALLED TABS WITH (2) 5/16" X 1 3/4" MACHINE BOLTS PER SIDE, PER GIRT.

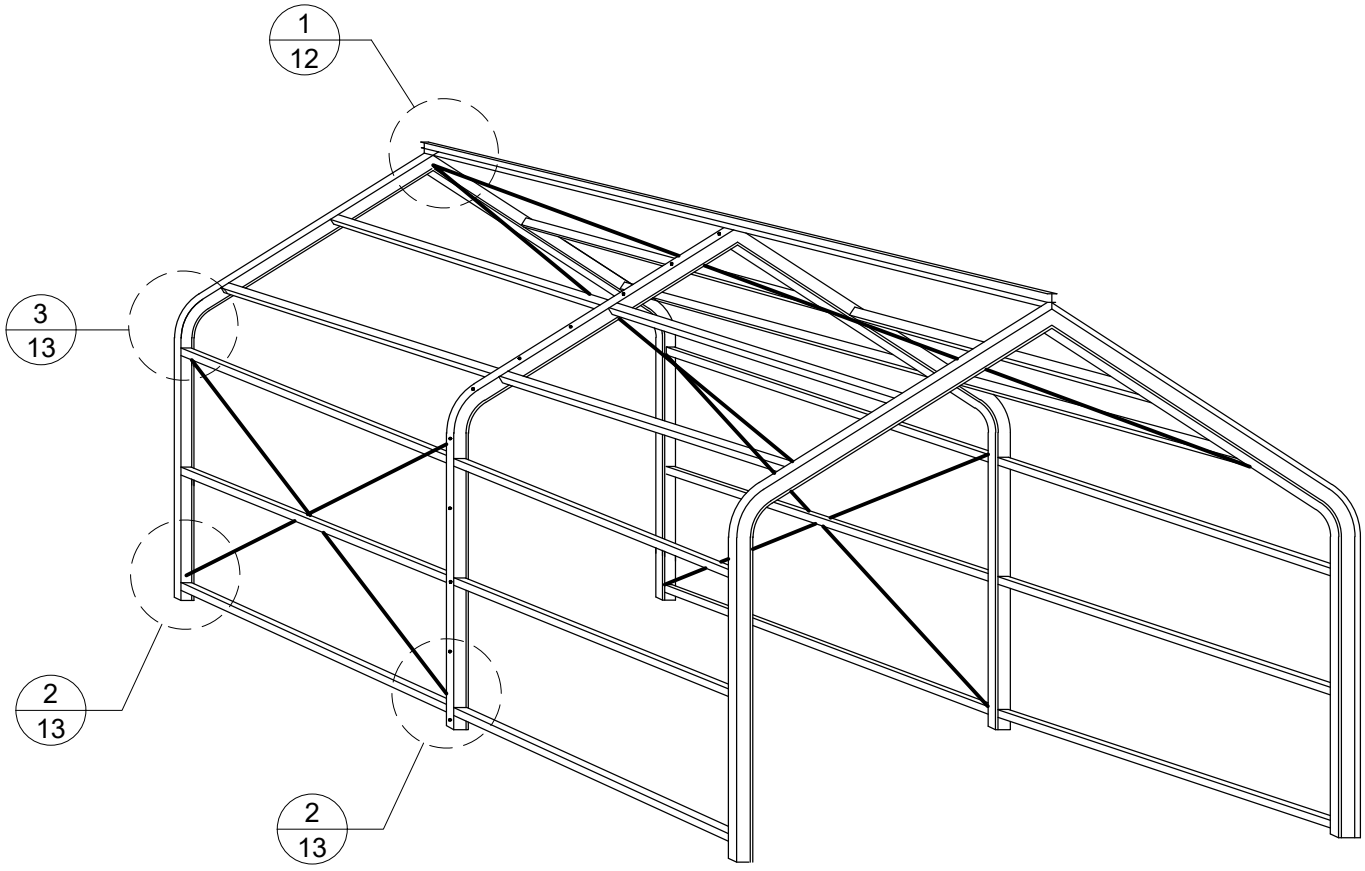


RIDGE BAR INSTALLATION

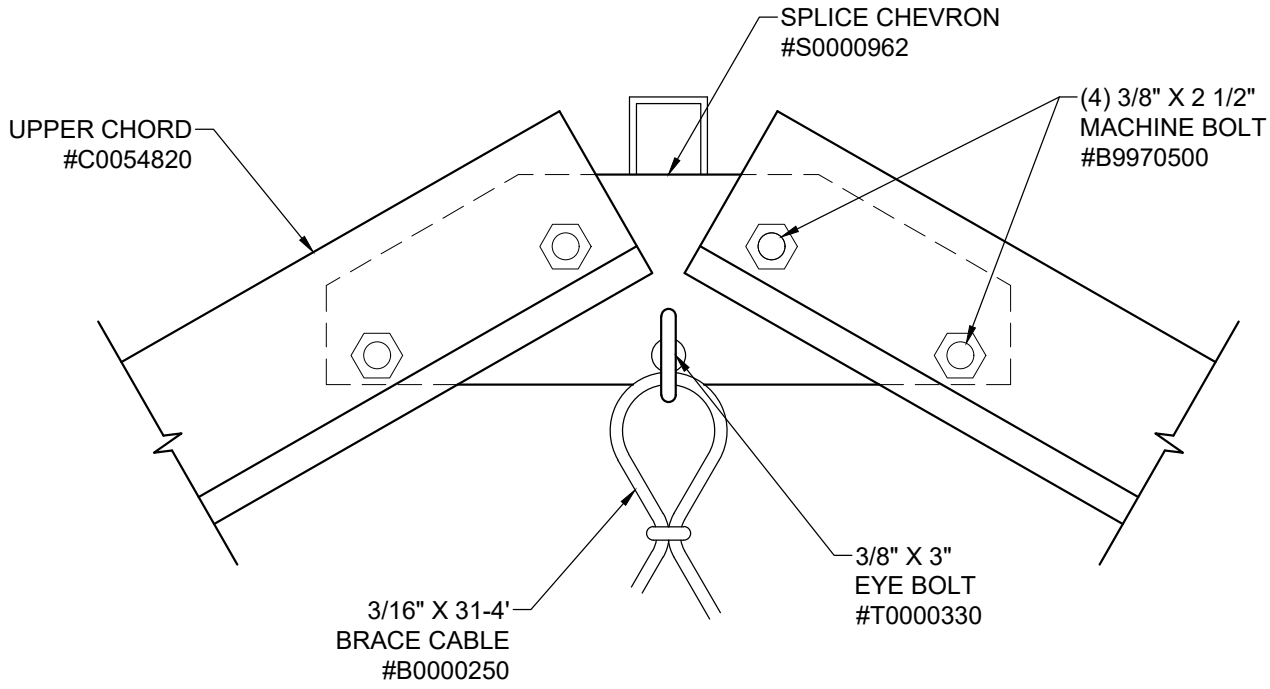
1. AFTER INSTALLING ALL OF THE PURLINS, INSTALL THE RIDGE BAR WITH (2) 3/8" X 1" CARRIAGE BOLTS PER TRUSS. (SLIDE THE BOLTS THROUGH THE GROOVE IN THE RIDGE BAR).



BRACE CABLE ASSEMBLY

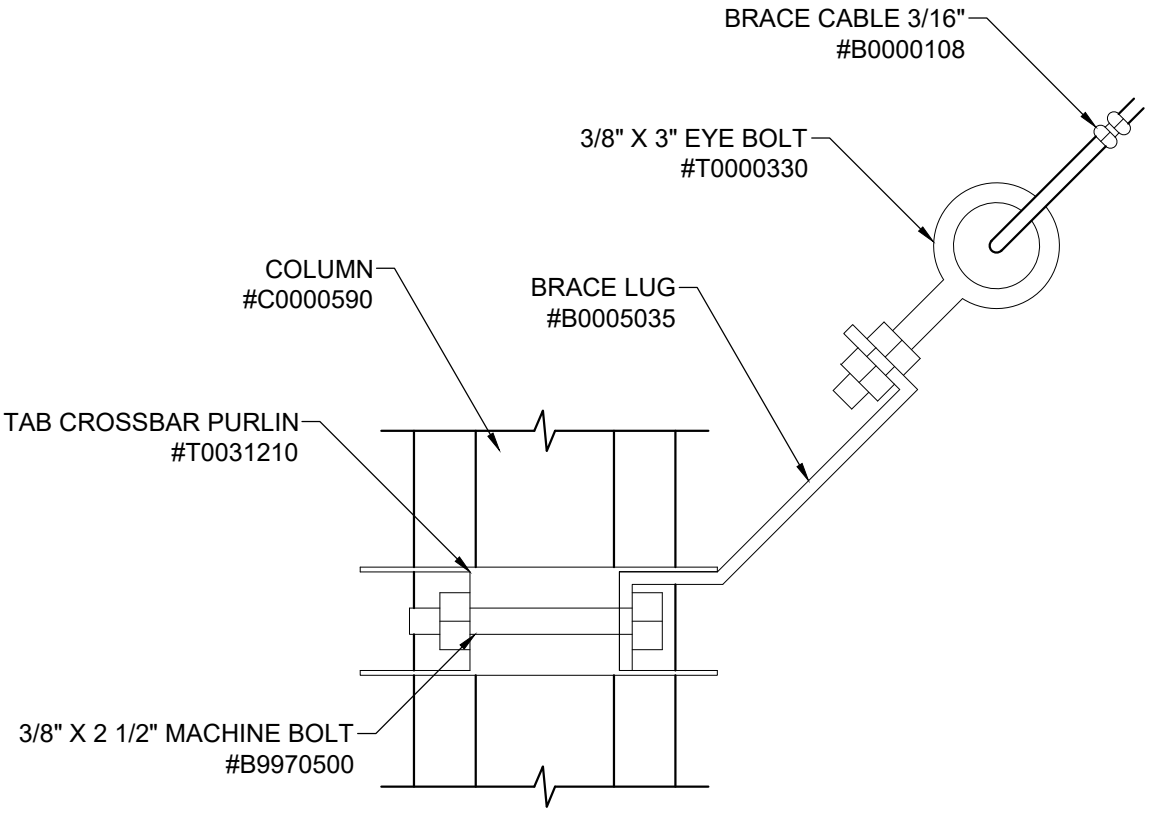


1. SLIDE THE 3/16" X 31'-4" CABLE THROUGH THE PREVIOUSLY INSTALLED EYE BOLT AT THE CHEVRON SPLICE. DIVIDE THE CABLE IN HALF AND CLAMP IT WITH CABLE CLAMP.



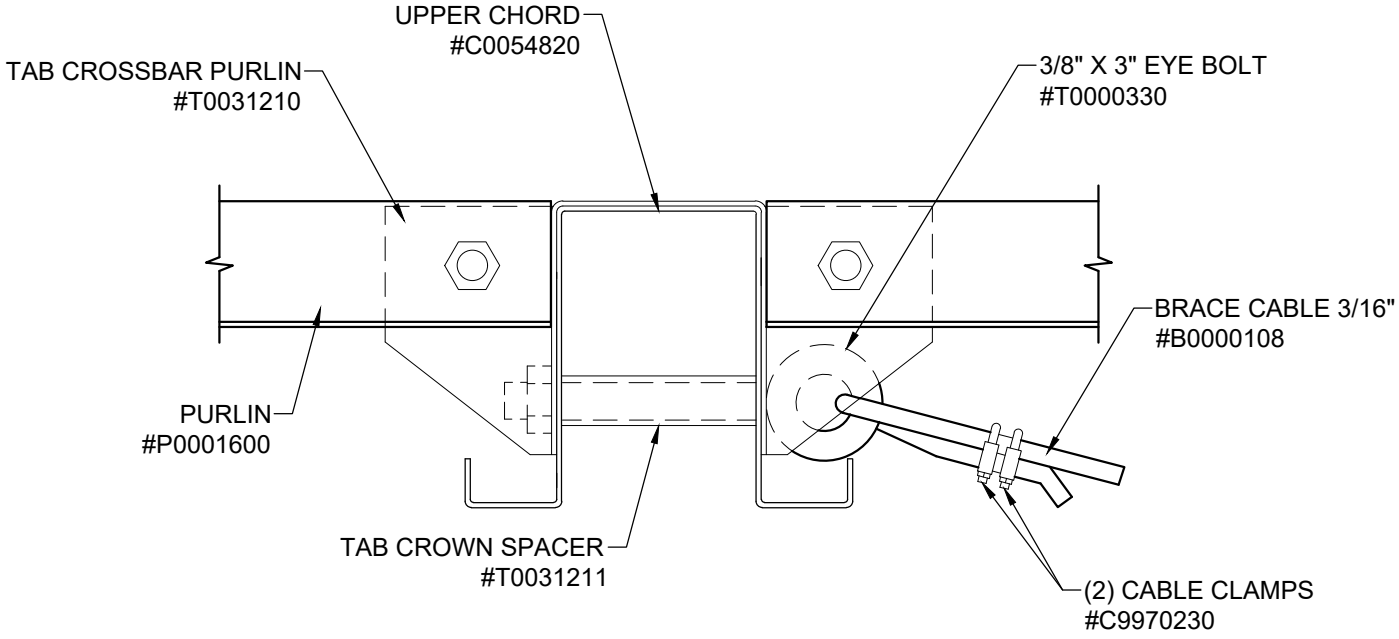
DETAIL 1

2. ATTACH THE ENDS OF THE PREVIOUSLY ATTACHED CABLE FROM THE CHEVRON SPLICE TO THE BRACE LUG ATTACHED TO THE FIRST ROOF PURLIN ABOVE THE BEND. ATTACH THE "X" BRACE CABLES TO THE BRACE LUGS AT THE TOP SIDE GIRT. USE 2 CABLE CLAMPS PER CONNECTION TYPICAL.



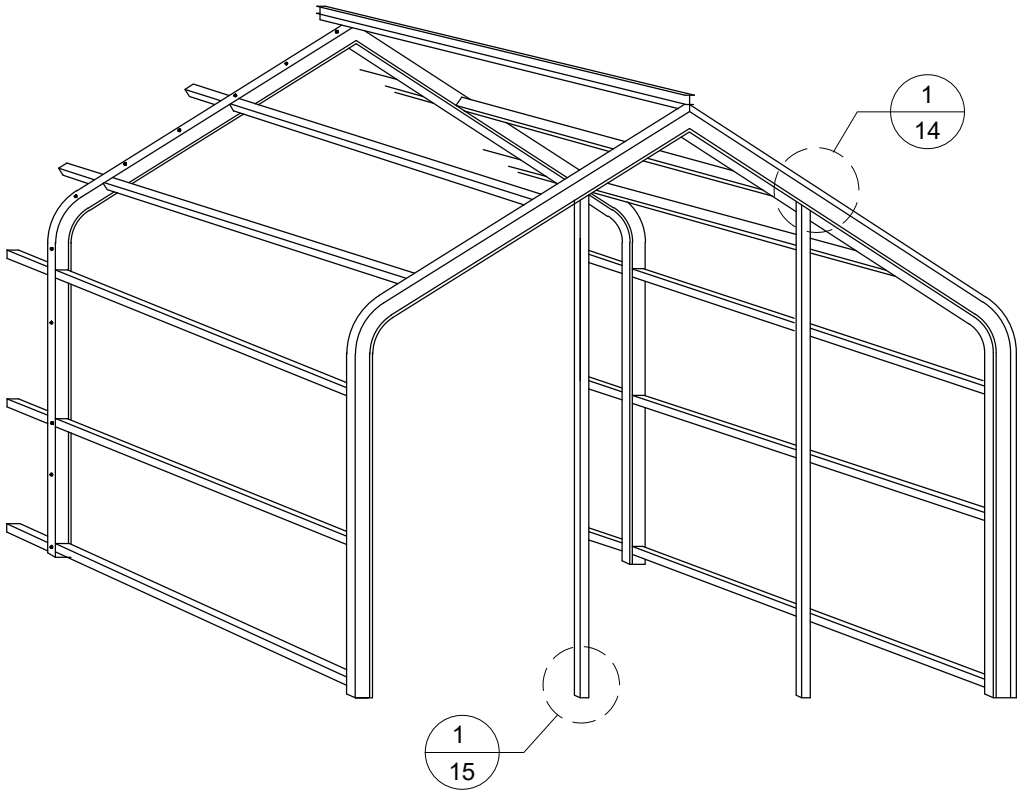
DETAIL 2

3. ATTACH THE ENDS OF "X" BRACE CABLES TO THE EYE BOLTS AT THE BOTTOM GIRT TAB WITH 2 CABLE CLAMPS PER CONNECTION.



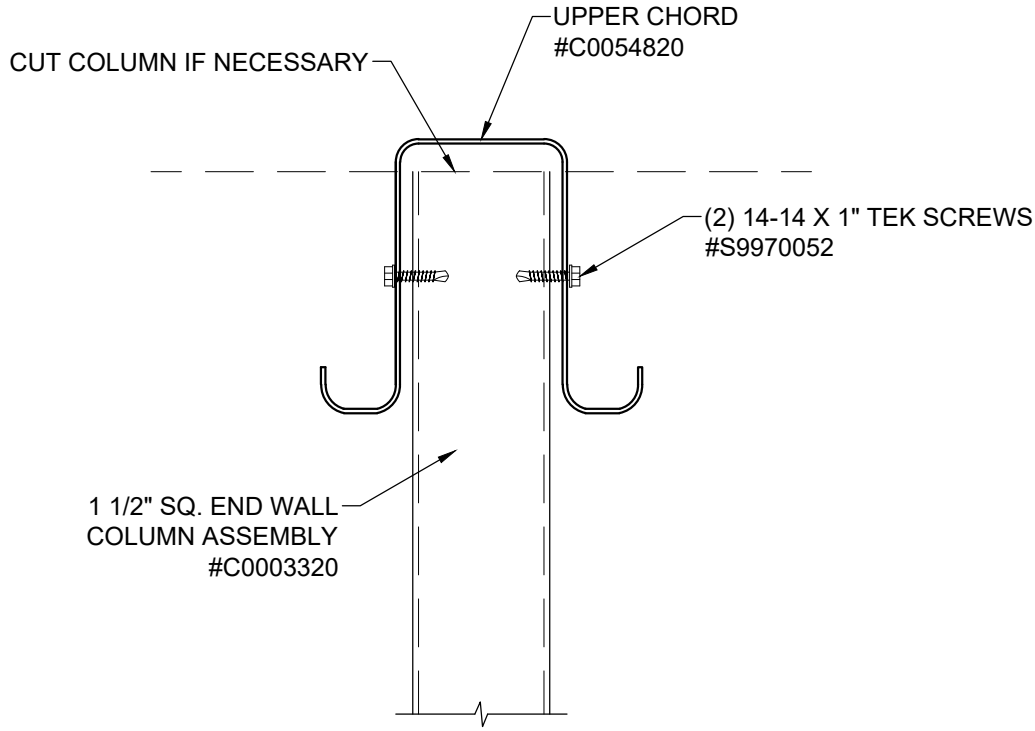
DETAIL 3

END WALL COLUMN INSTALLATION

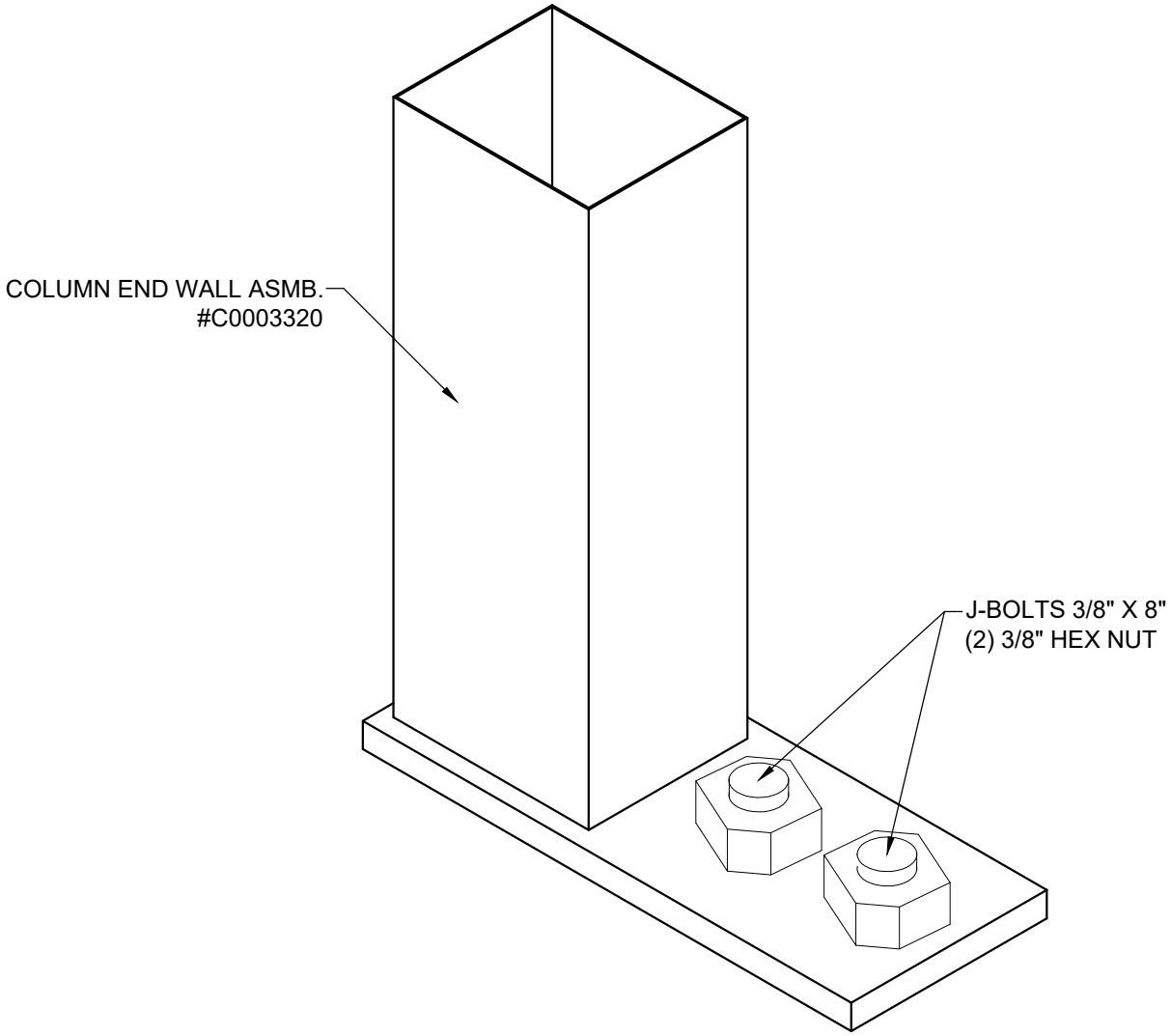


1. SLIDE TOP OF 9' END WALL COLUMN ASSEMBLY INTO THE TOP CHORD AND SET BASE PLATE ONTO PREVIOUSLY INSTALLED ANCHOR BOLTS. (SEE DETAIL BELOW).

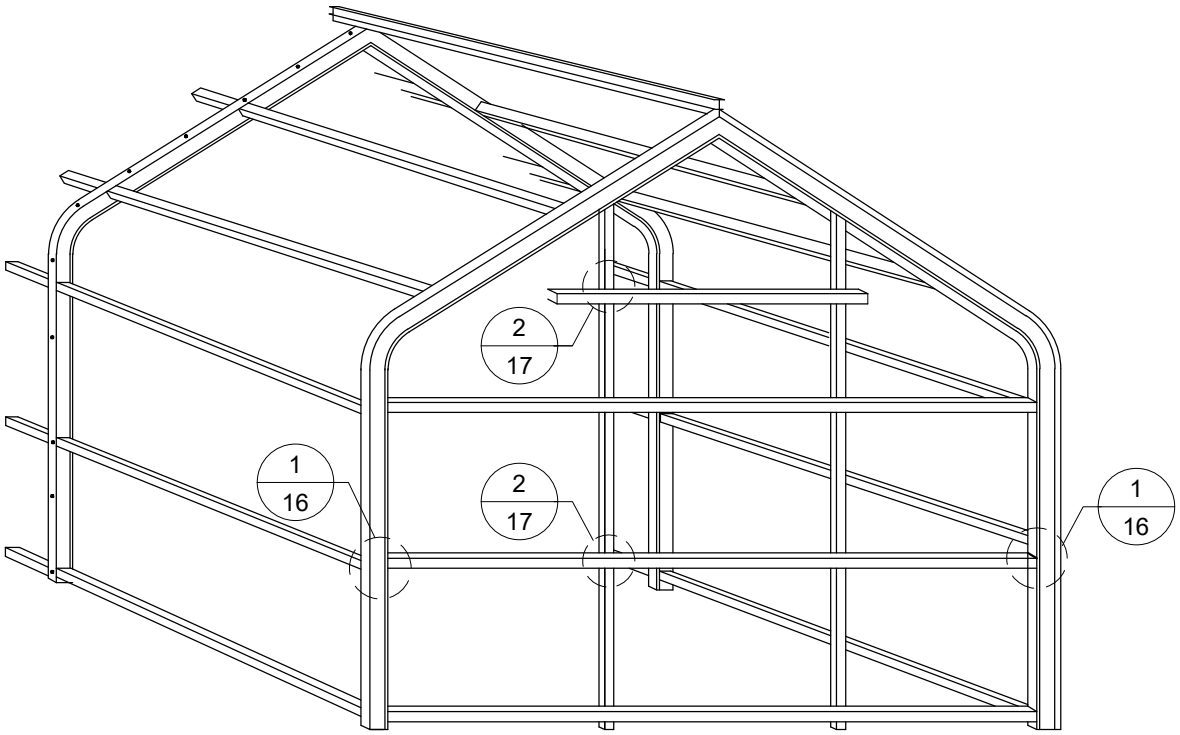
2. PLUMB COLUMN AND SECURE TO UPPER CHORD WITH (2) 14-14 X 1" TEK SCREW EACH SIDE OF UPPER CHORD. (SEE DETAIL 2 PAGE 14)



3. AFTER SECURING THE TOP OF THE COLUMN AT THE UPPER CHORD, PLUMB THE COLUMN AND SECURE IT TO THE FOUNDATION WITH (2) 1/2" HEX NUTS PER COLUMN AT ANCHOR BOLTS.

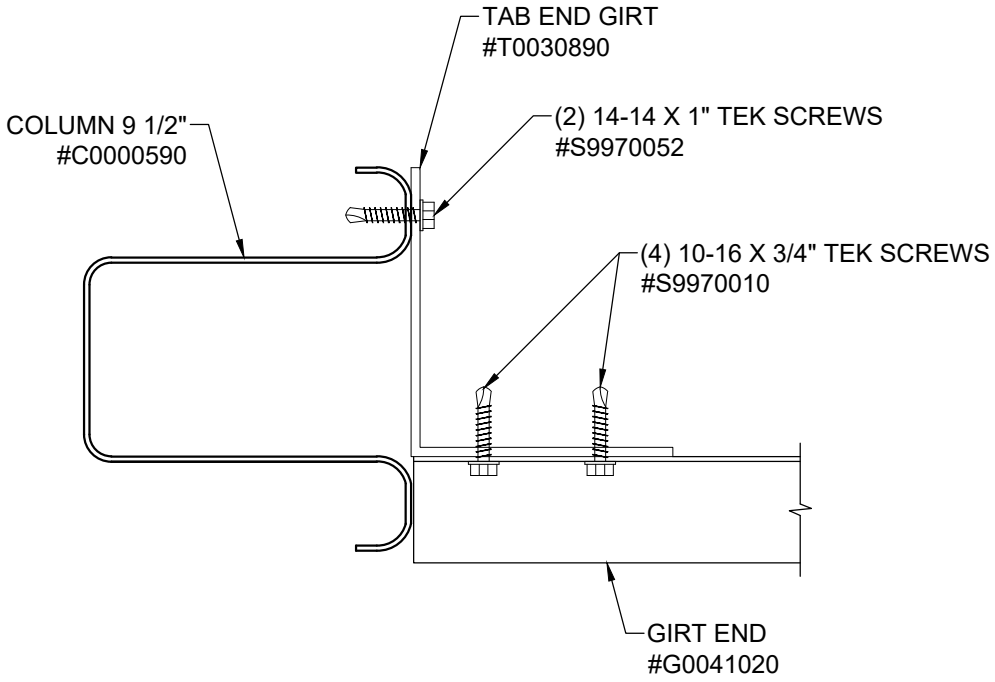


END GIRT INSTALLATION



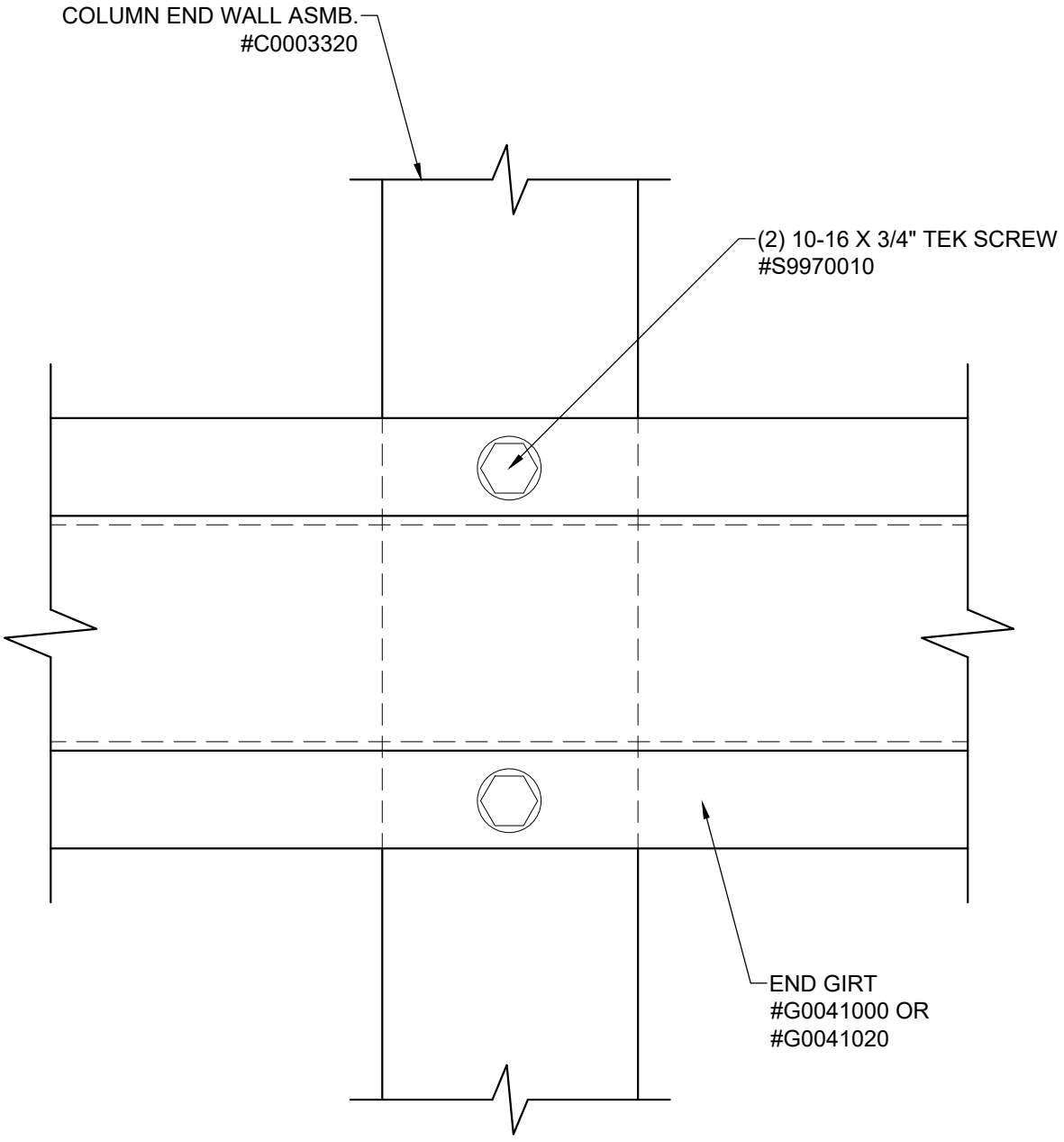
1. LOCATE POSITION OF END WALL GIRTS (APPROX. 30" APART) AND INSTALL THE TAB WITH (2) 14-14 X 1" TEK SCREWS.

2. USING CLAMPS (VICE GRIPS) SECURE END WALL GIRT TO TAB AND ADJUST LEVEL. WHEN LEVEL SECURE TO TAB WITH (2) 14-14 X 1" TEK SCREWS AND (4) 10-16 X 3/4" TEK SCREWS.



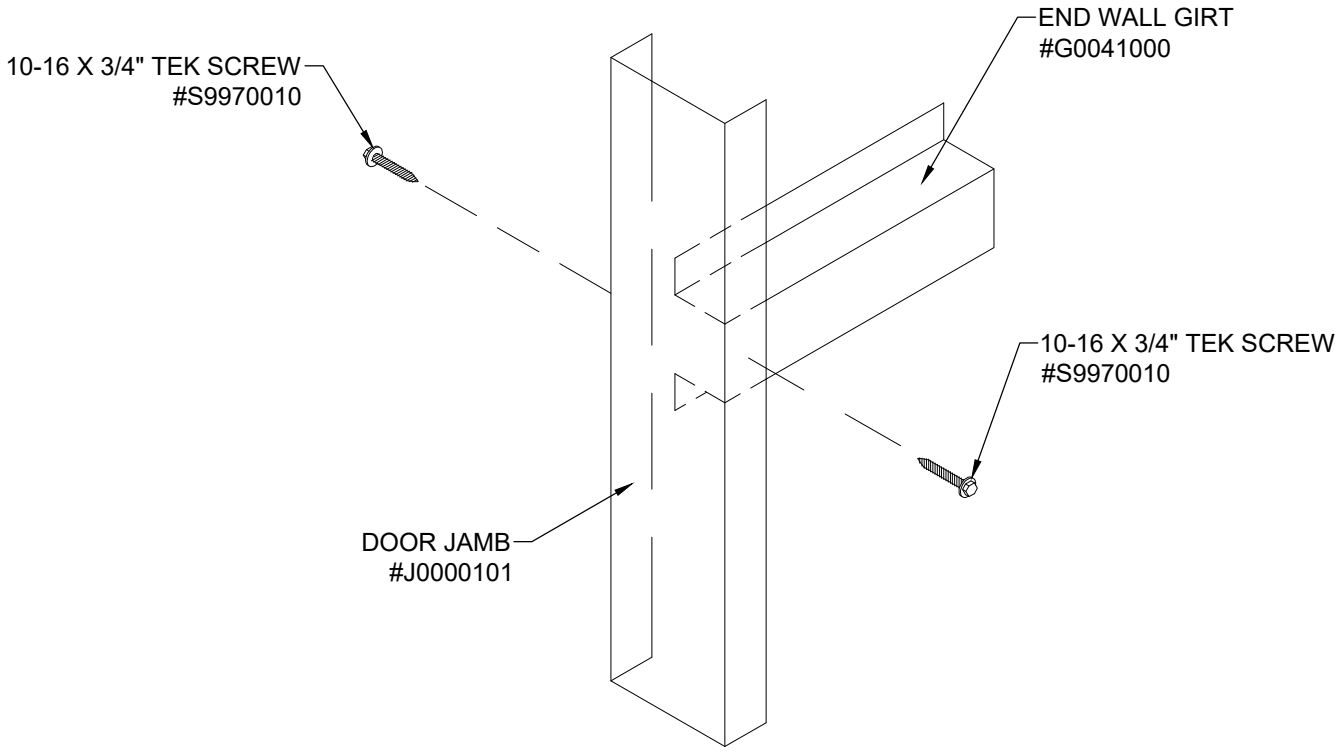
DETAIL 1

3. AFTER END WALL GIRTS ARE SECURED TO THE COLUMN AND TRUSS, SECURE THE GIRTS TO THE END WALL UPRIGHTS WITH (2) 10-16 X 3/4" TEK SCREWS.

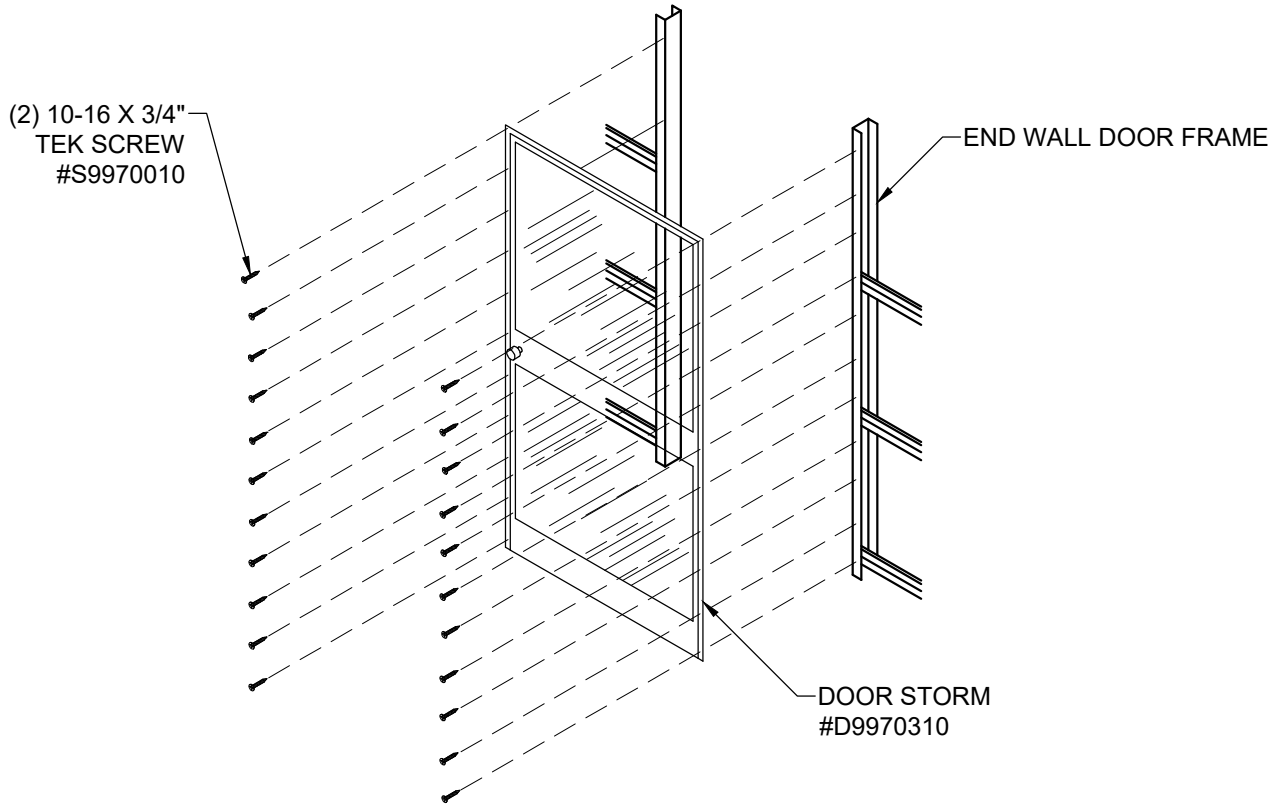


END WALL SWING DOOR INSTALLATION

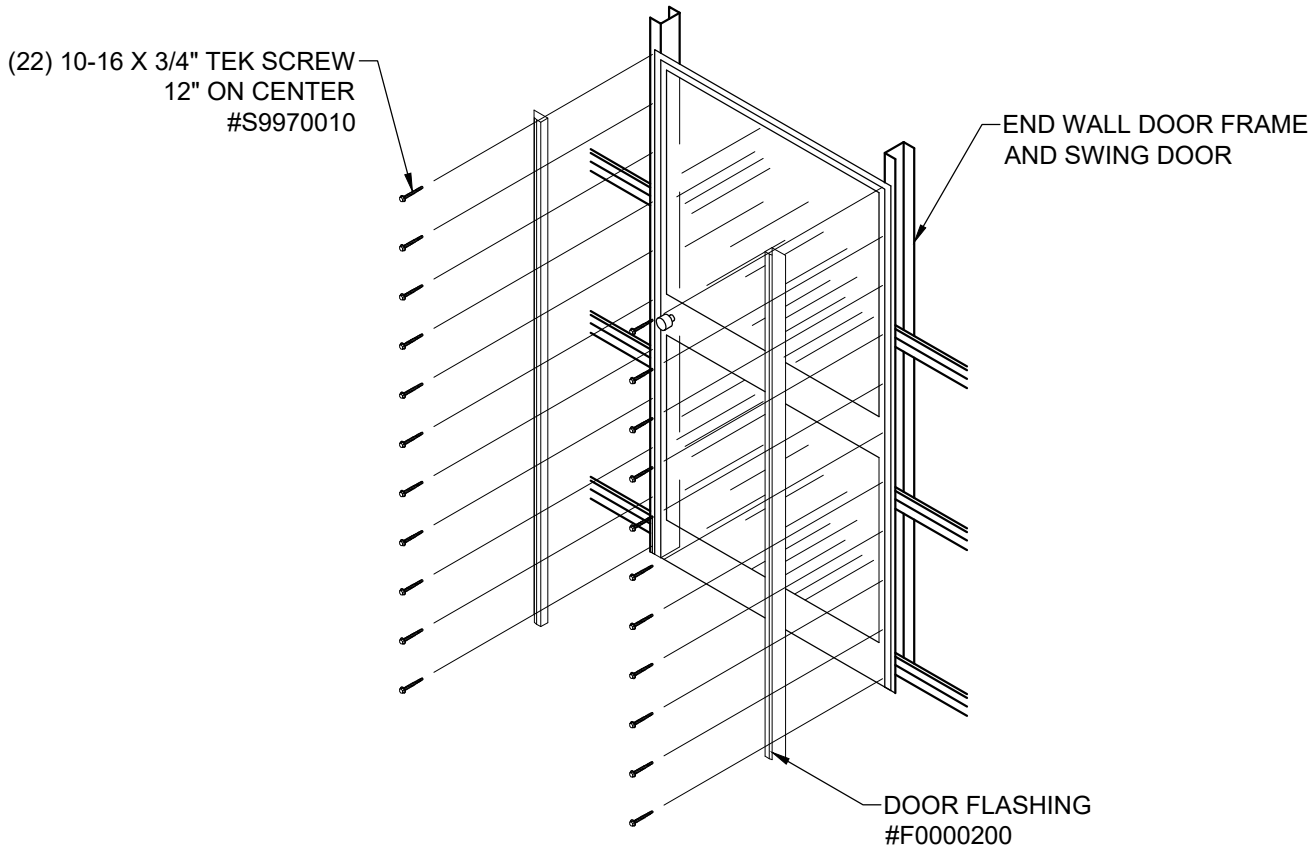
1. ATTACH THE DOOR JAMBS TO THE INSIDE FACE OF THE END WALL UPRIGHTS WITH A 10-16 X 3/4" TEK SCREWS AT EACH GIRT AND A 10-16 X 3/4" TEK SCREWS TO THE FACE OF THE GIRT.

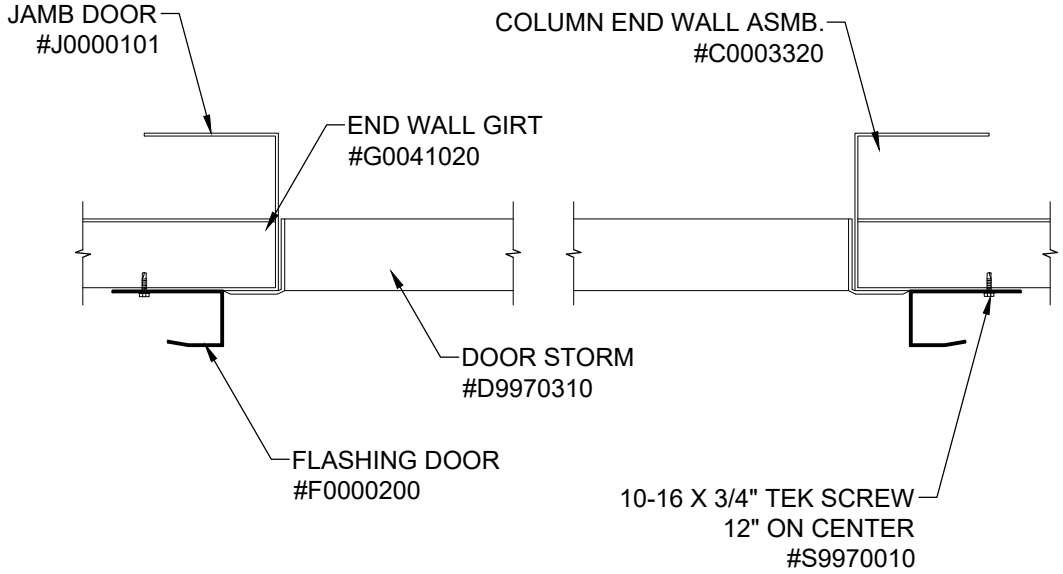


2. SLIDE DOOR AND FRAME INTO THE OPENING BETWEEN THE PREVIOUSLY INSTALLED DOOR JAMBS. MAKE SURE DOOR AND FRAME ARE PLUMB AND SCREW THE FRAME TO THE FACE OF THE DOOR JAMBS WITH (22) 10-16 X 3/4" TEK SCREWS.



3. AFTER THE DOOR HAS BEEN SECURED INTO END WALL DOOR FRAME ATTACH THE DOOR FLASHING TO THE OUTSIDE OF THE DOOR TRIM WITH 10-16 X 3/4" TEK SCREWS 12" ON CENTER.

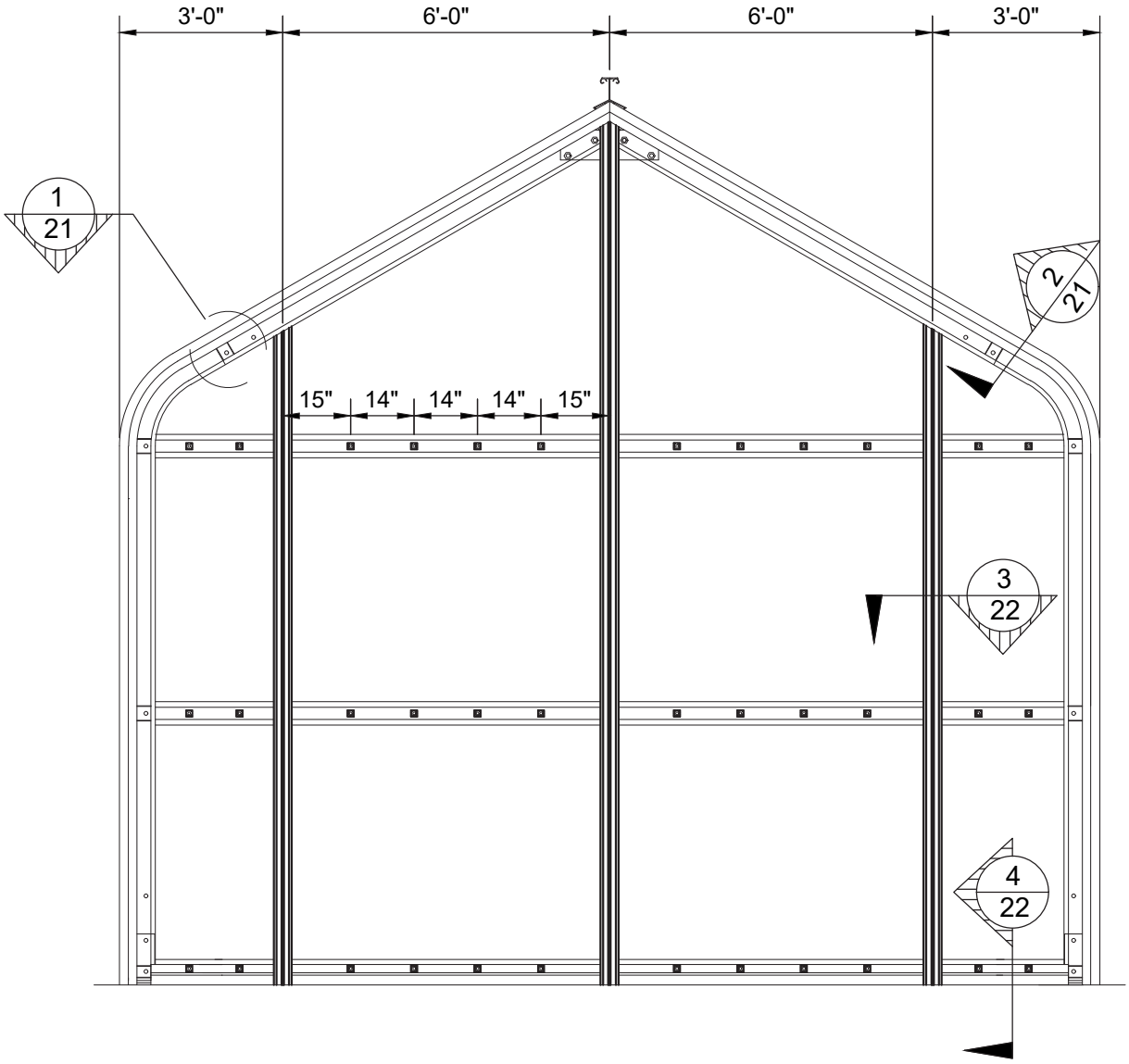




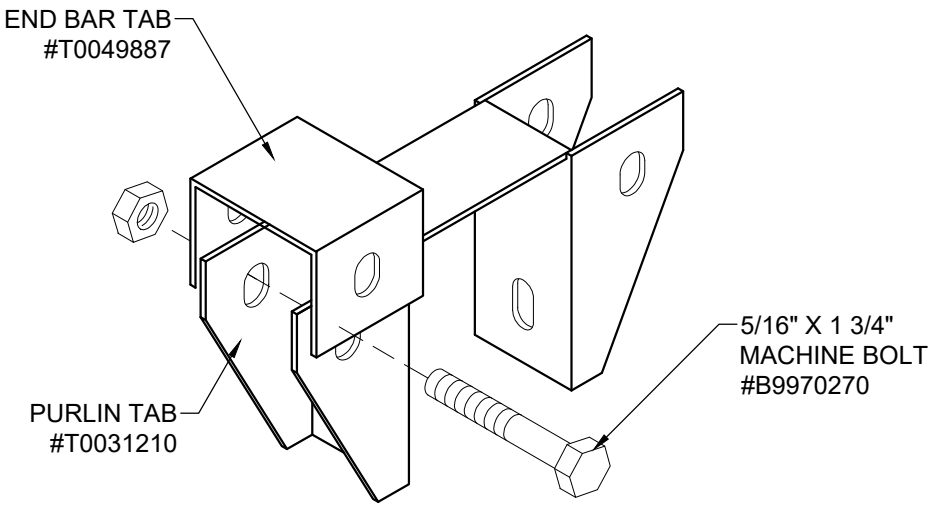
TOP VIEW

END WALL GLAZING INSTALLATION

1. INSTALL THE PCSS BASE & WASHER FOR PCSS (#W9970300).

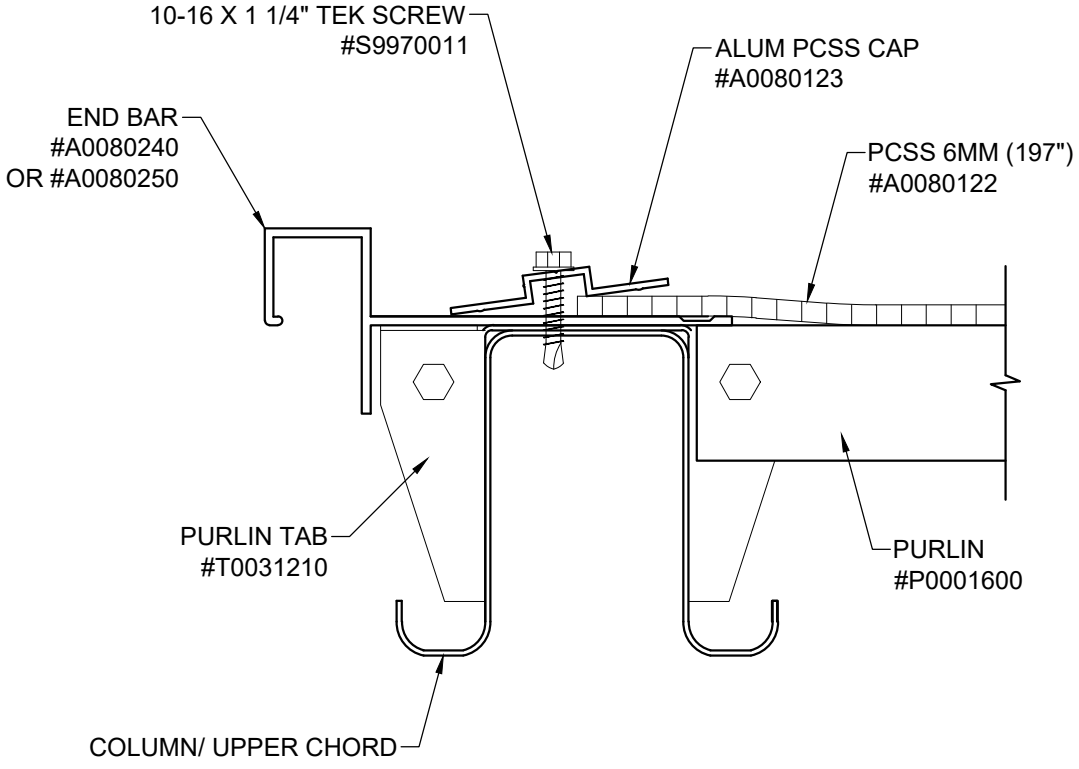


1. INSTALL THE END BAR TABS AT ALL OF THE PURLIN TABS ON THE END WALL WITH A 5/16" X 1 3/4" MACHINE BOLT.



DETAIL 1

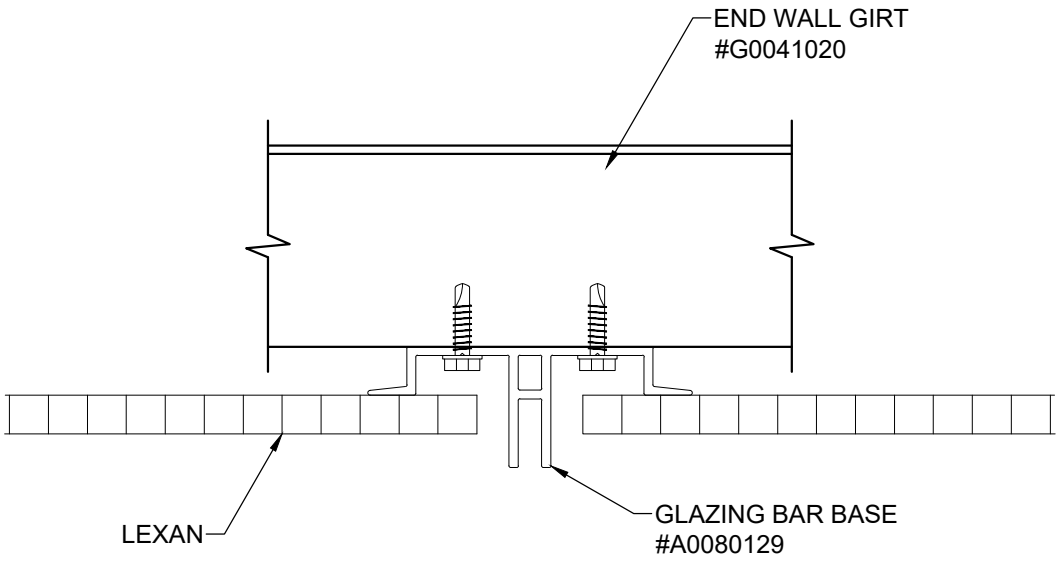
2. INSTALL THE END BAR ON THE COLUMNS WITH A 10-16 X 3/4" TEK SCREWS 9" ON CENTER AND ON THE UPPER CHORD WITH A 10-16 X 3/4" TEK SCREWS 9" ON CENTER. MAKE SURE THAT THE END BAR AND FACE OF END GIRTS ARE FLUSH.



DETAIL 2

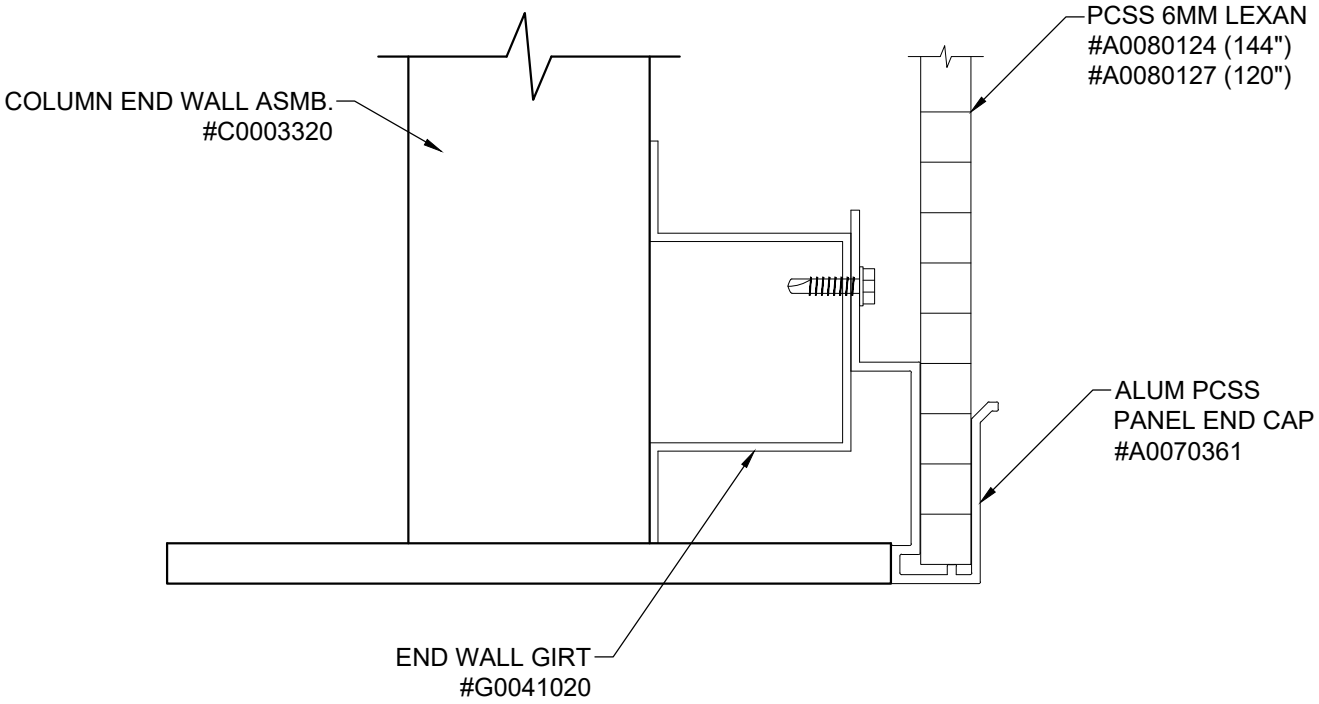
3. INSTALL PCSS BASE AT CENTER LINE OF END WALL, PLUMB AND SECURE TO END WALL GIRTS WITH A 10-16 X 3/4" TEK SCREWS.

4. PCSS PIECE #A0080124 (2) PER END WALL AND #A0080127 10'-0" PIECE NEEDS TO BE CUT IN HALF 1 PER END WALL.



DETAIL 3

5. ATTACH THE PANEL END CAP TO THE BOTTOM END WALL GIRT WITH 10-16 X 3/4" TEK SCREW 9" ON CENTER. MAKE SURE THAT THE PANEL END CAP IS AS CLOSE TO THE GROUND AS POSSIBLE.



DETAIL 4

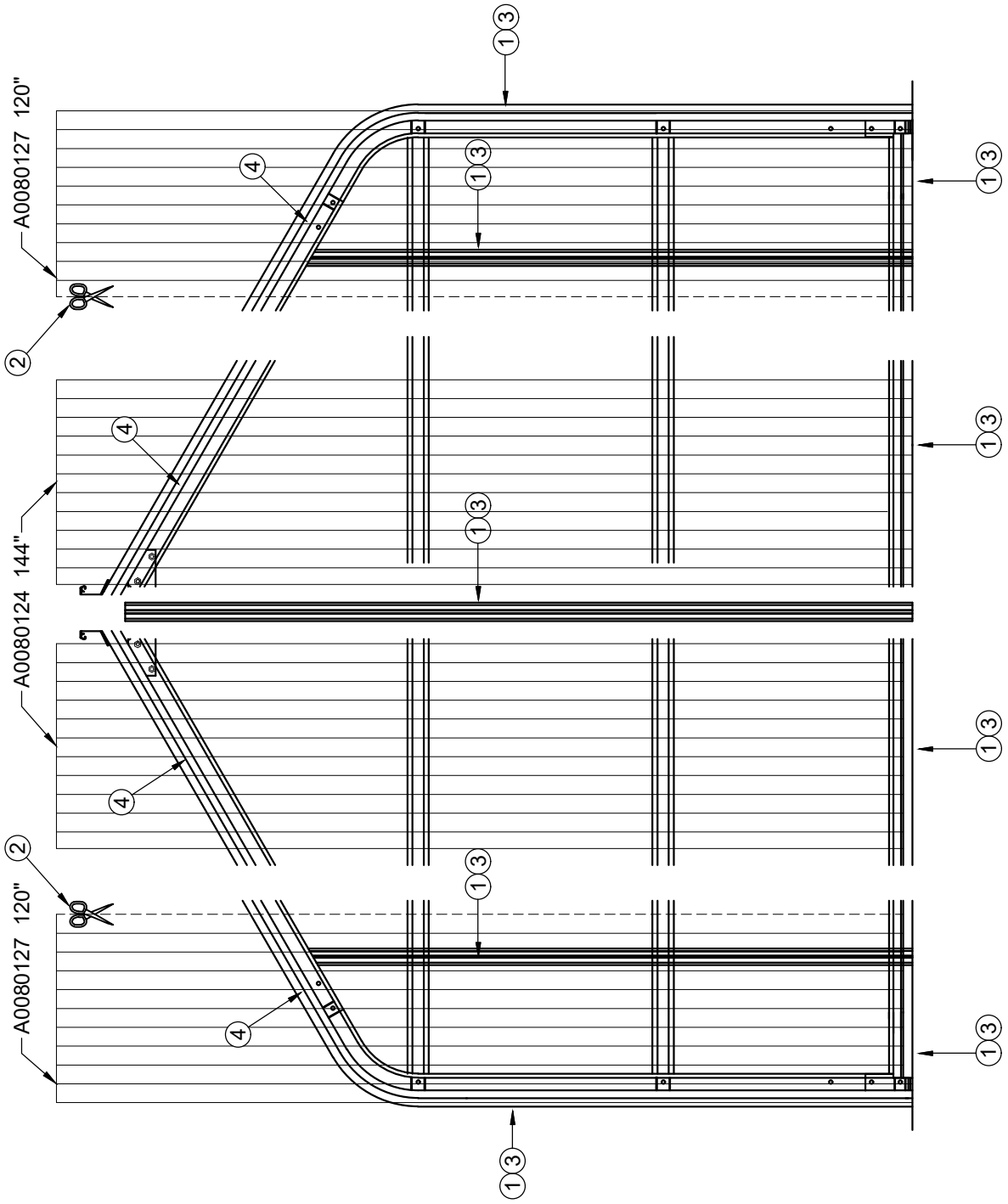
END WALL LEXAN PREPARATION

1. MAKE SURE ALL GLAZING IS INSTALLED PROPERLY.

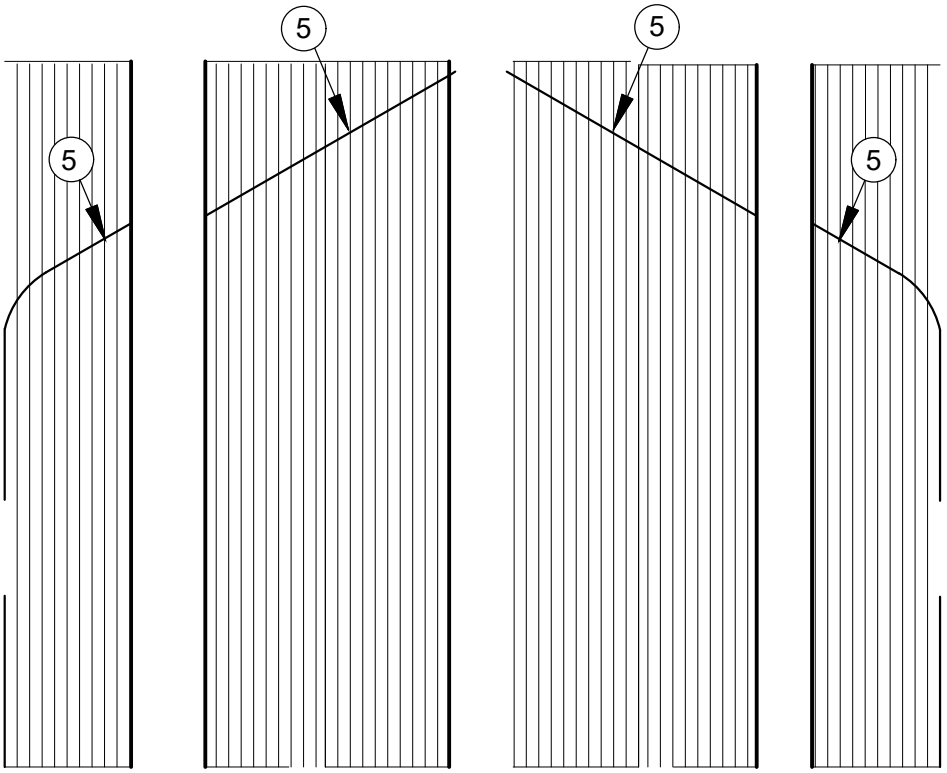
2. CUT ONE SHEET OF LEXAN #A0080127 EXACTLY IN HALF (35 5/8" TO 35 3/4")

3. PLACE A LEXAN SHEET ON THE GLAZING BAR BASE AND IN THE PANEL END CAP.

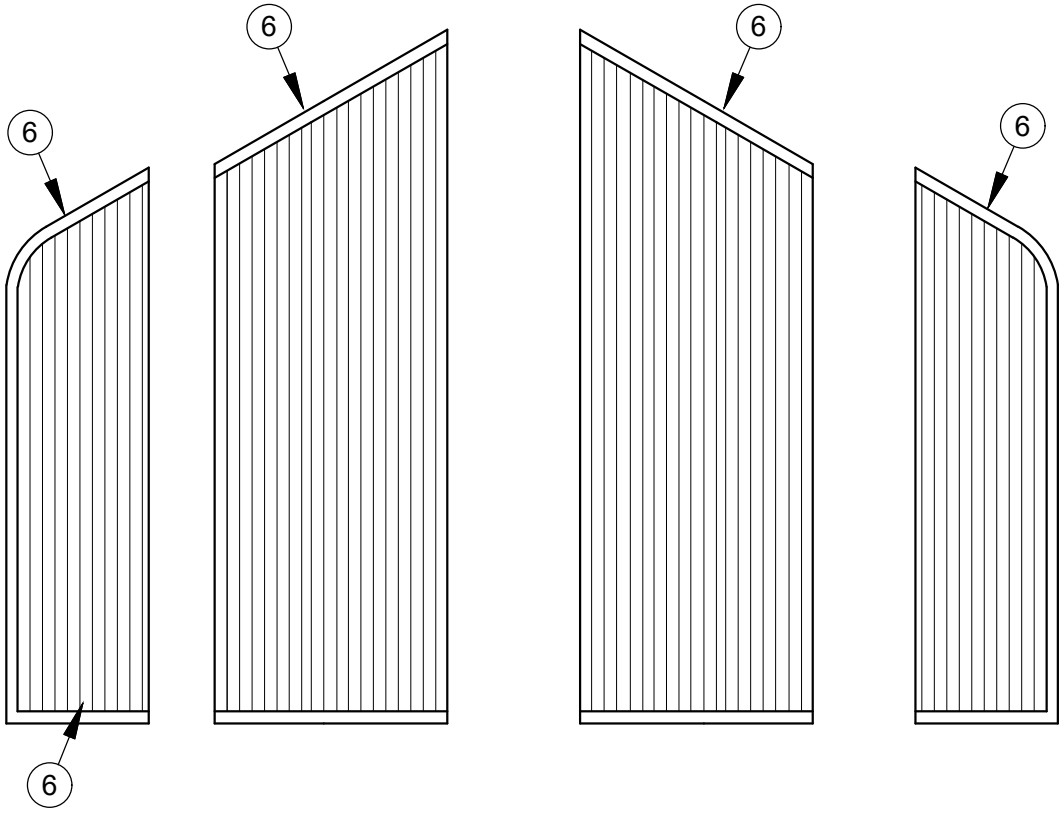
4. MARK TOP OF SHEET WHERE LEXAN WILL SLIDE INTO ALUM. GABLE END BAR.



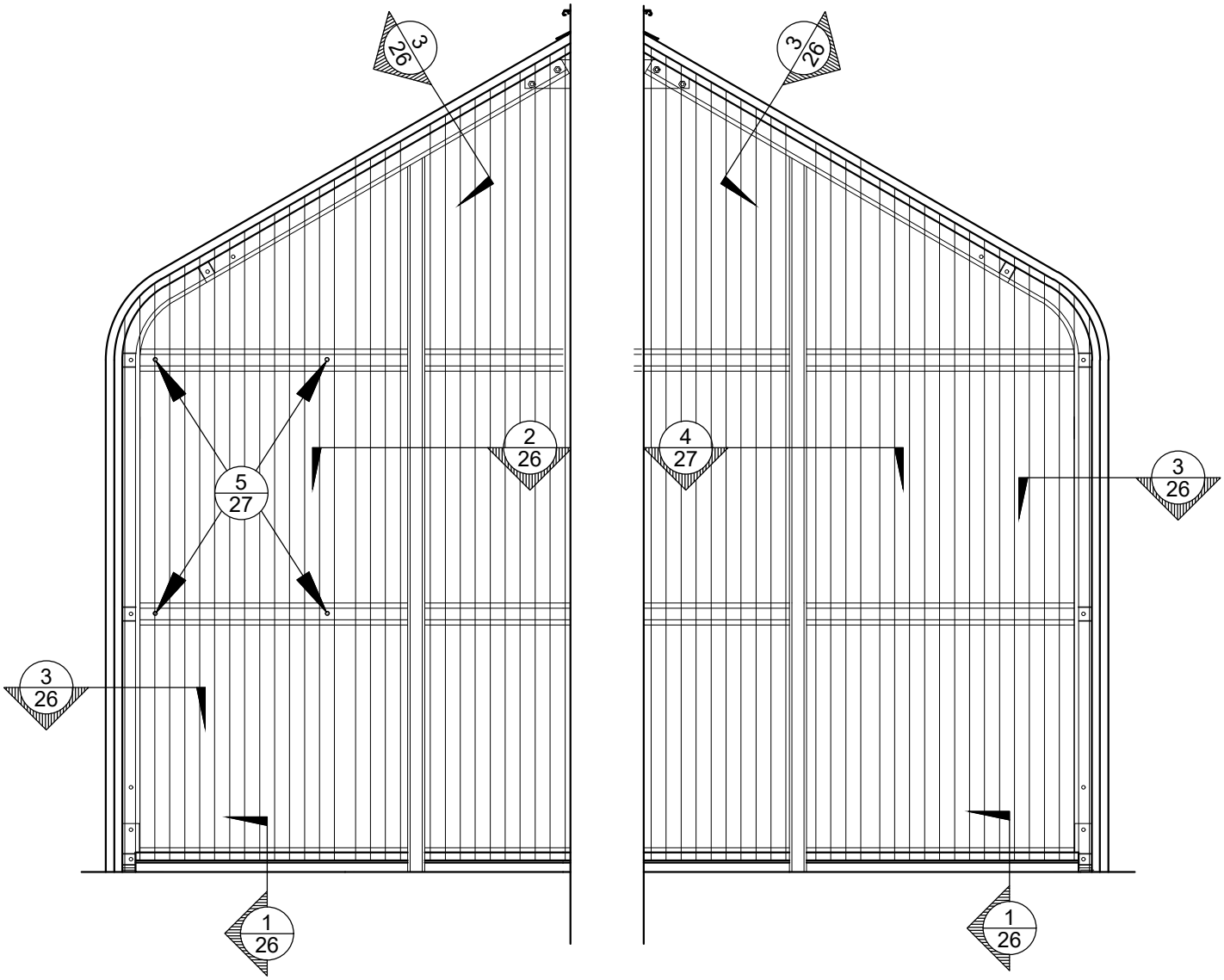
5. TRIM LEXAN AT PREVIOUSLY MADE MARK.



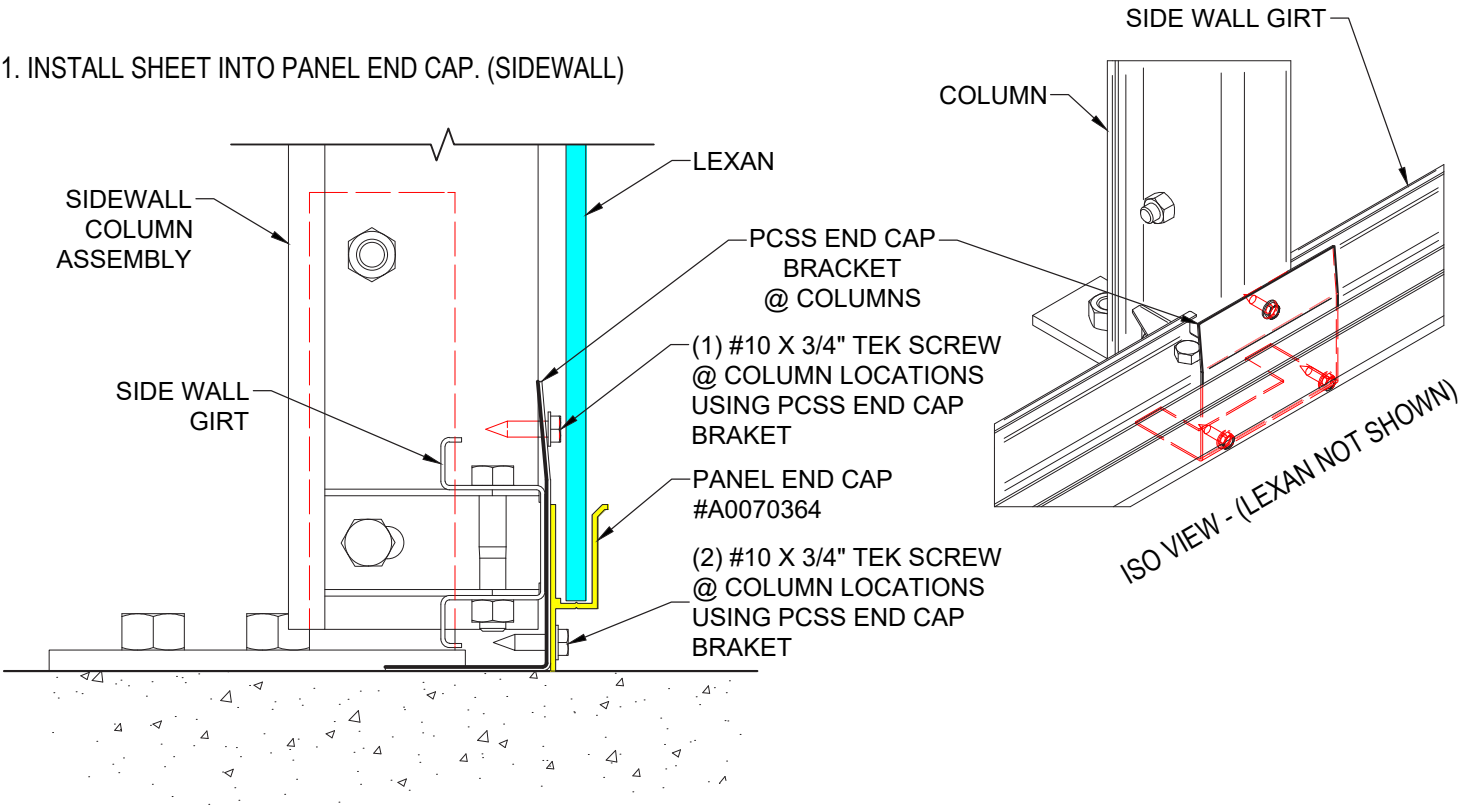
6. REMOVE APPROX. 2" OF MASKING FROM ALL SHEET EDGES AND FASTENING POINTS. TAPE TOP OF SHEET WITH SILVER TAPE.



END WALL LEXAN INSTALLATION

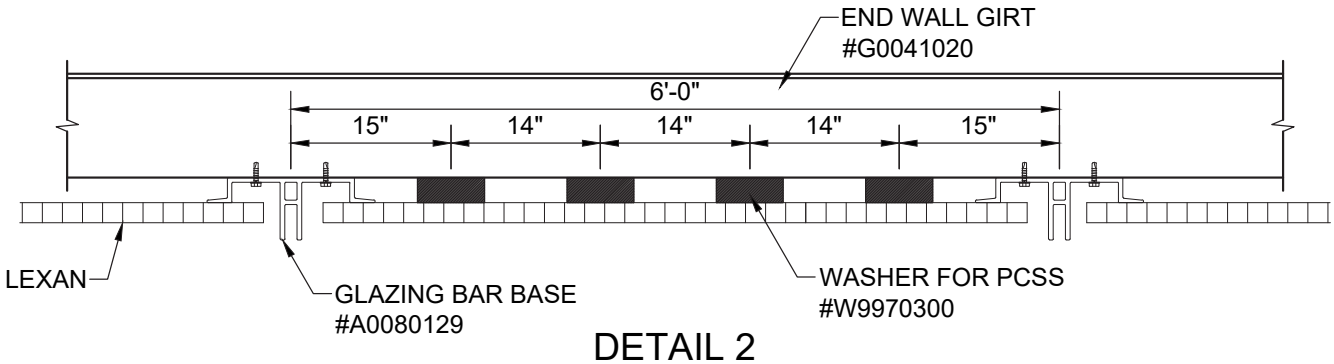


1. INSTALL SHEET INTO PANEL END CAP. (SIDEWALL)



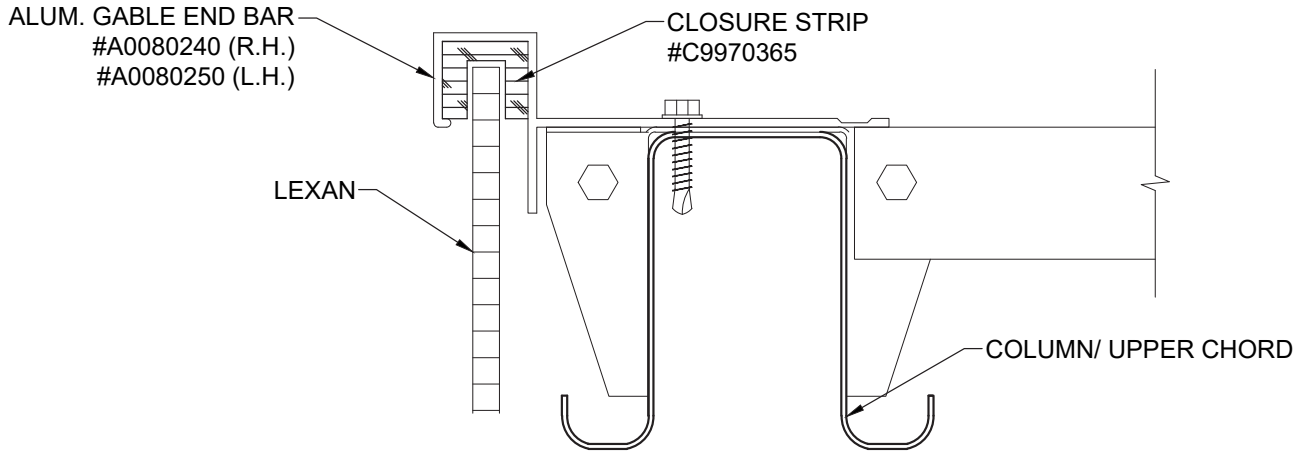
DETAIL 1

2. INSTALL SHEET ON GLAZING BAR BASE. (ENDWALL)



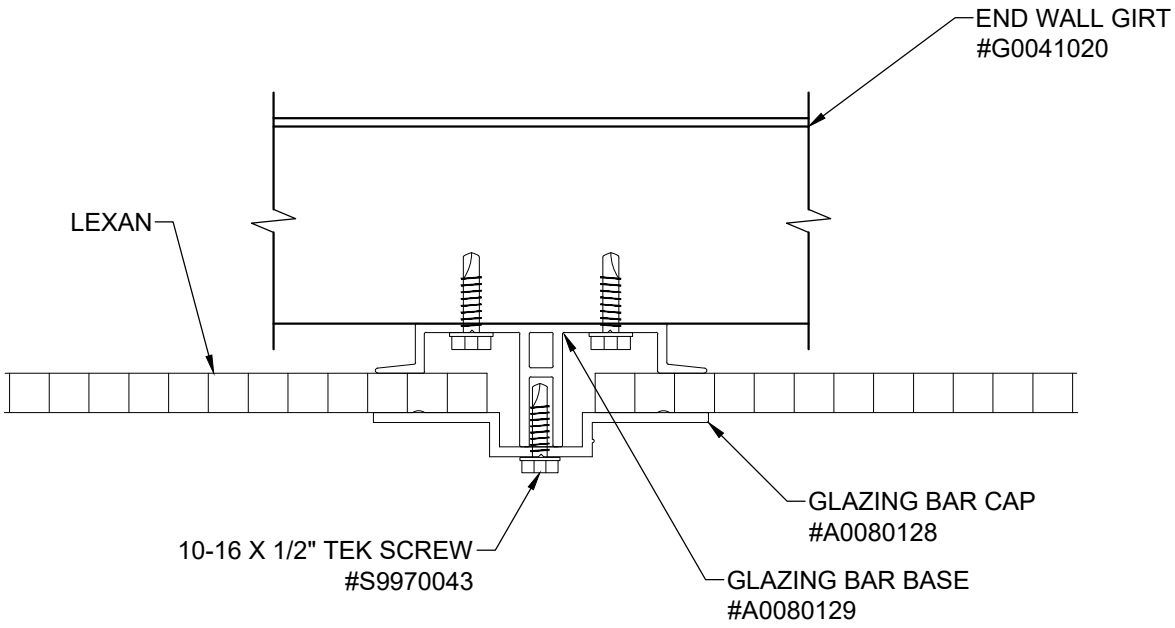
DETAIL 2

3. INSTALL SHEET INTO GABLE END BAR. PUSH THE CLOSURE STRIP BETWEEN THE LEXAN SHEET AND THE GABLE END BAR.



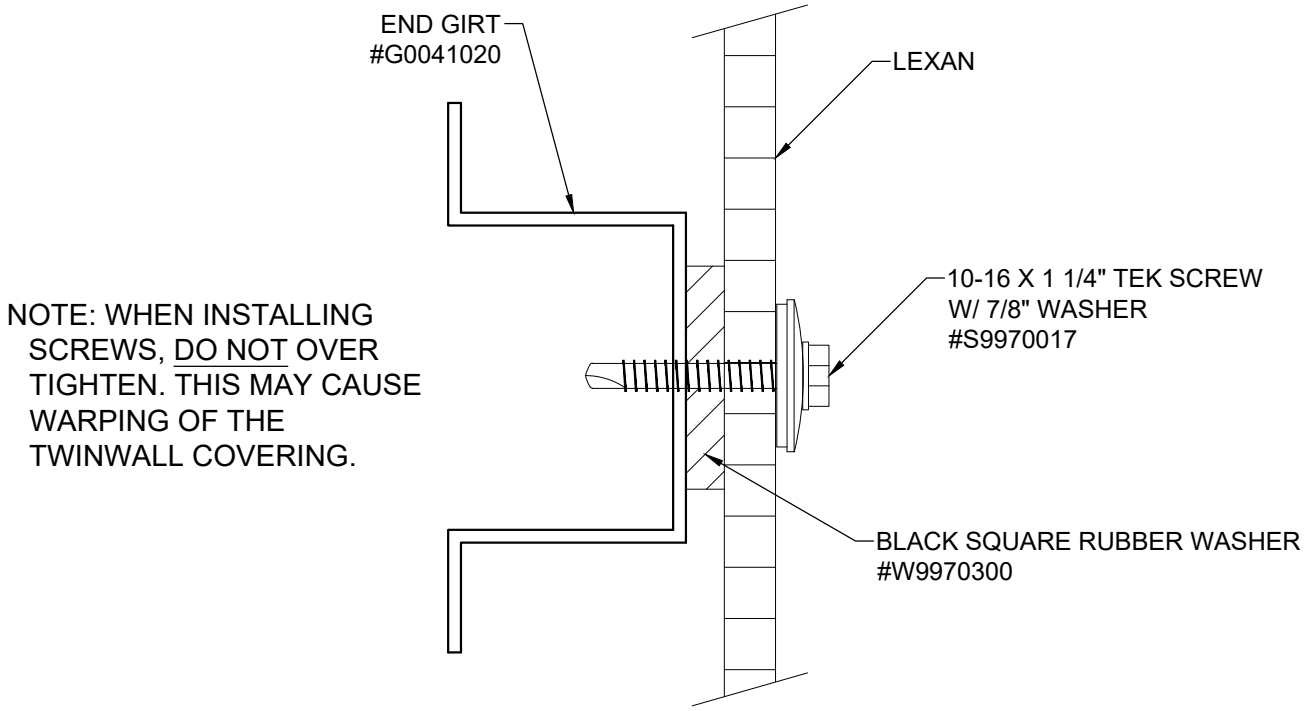
DETAIL 3

4. SECURE GLAZING BAR CAP TO BASE WITH 10-16 X 3/4" TEK SCREWS 9" ON CENTER.



DETAIL 4

5. SECURE LEXAN TO END WALL GIRTS WITH (4) 10-16 X 1 1/4" TEK SCREW WITH 7/8" WASHER AND (4) 3/8" THICK WASHERS PER SHEET.



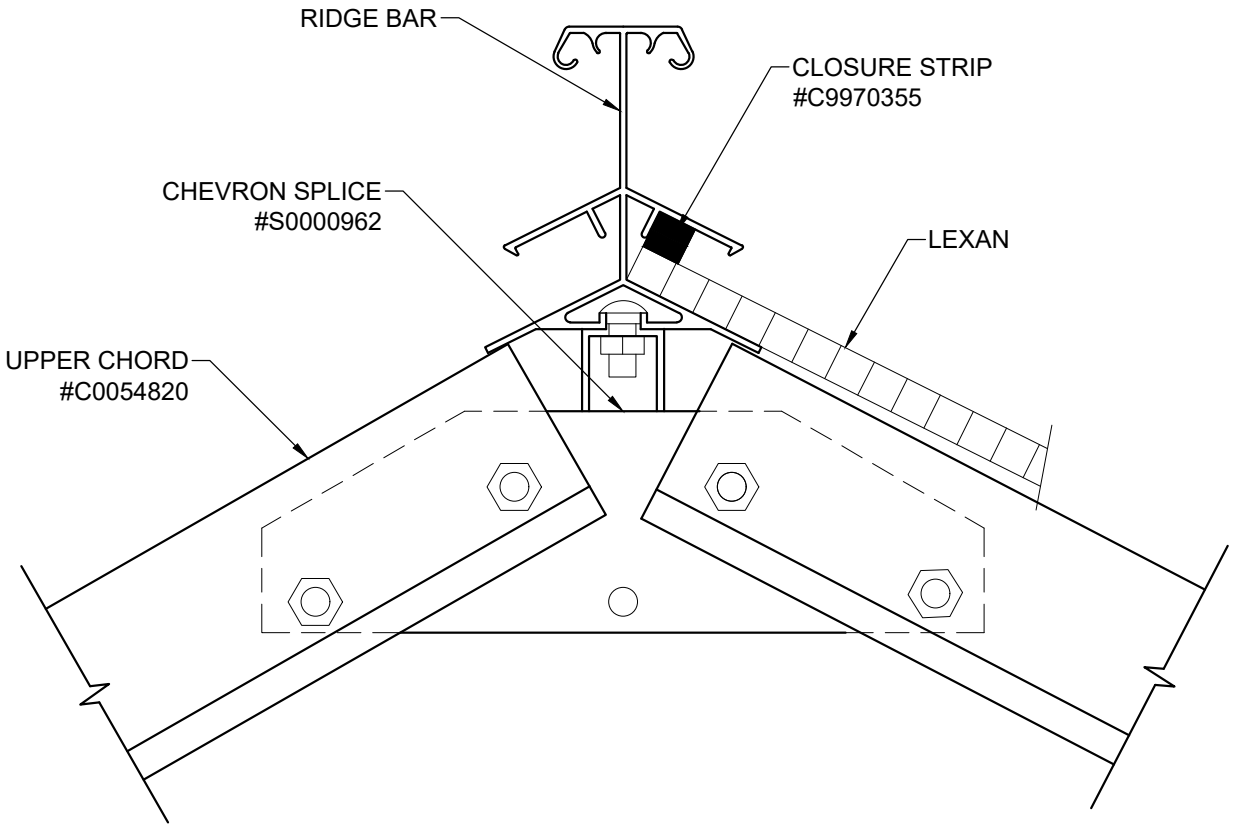
DETAIL 5

SIDEWALL AND ROOF LEXAN INSTALLATION

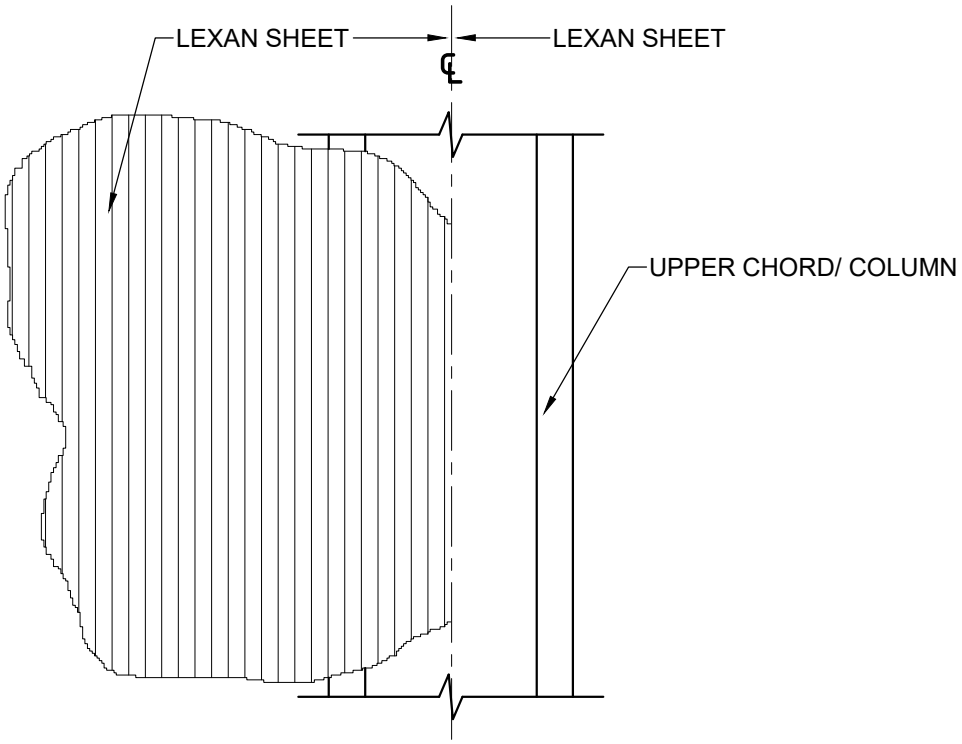
1. REMOVE MASKING 2" AROUND EDGES AND FASTEN POINTS.



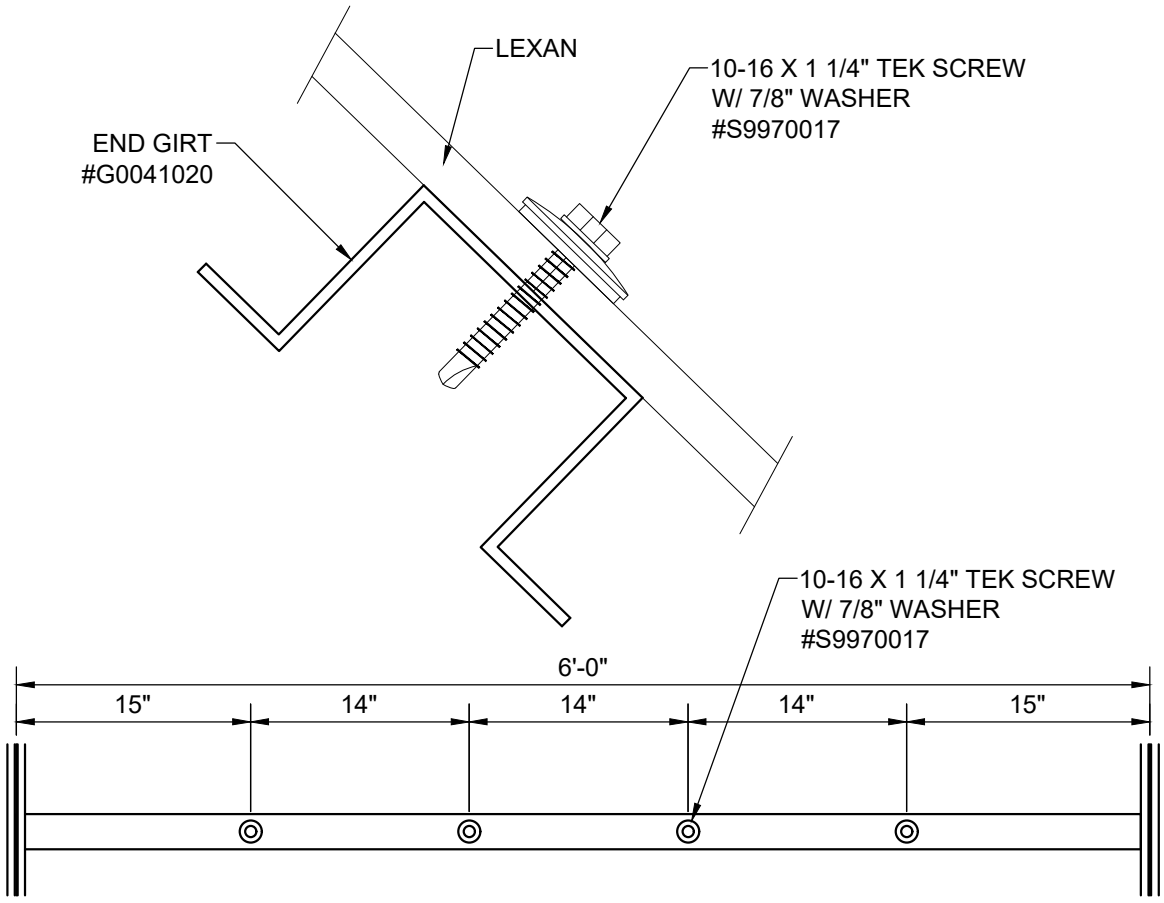
2. SLIDE LEXAN SHEET INTO RIDGE BAR WITH GRAY CLOSURE STRIP ON TOP.



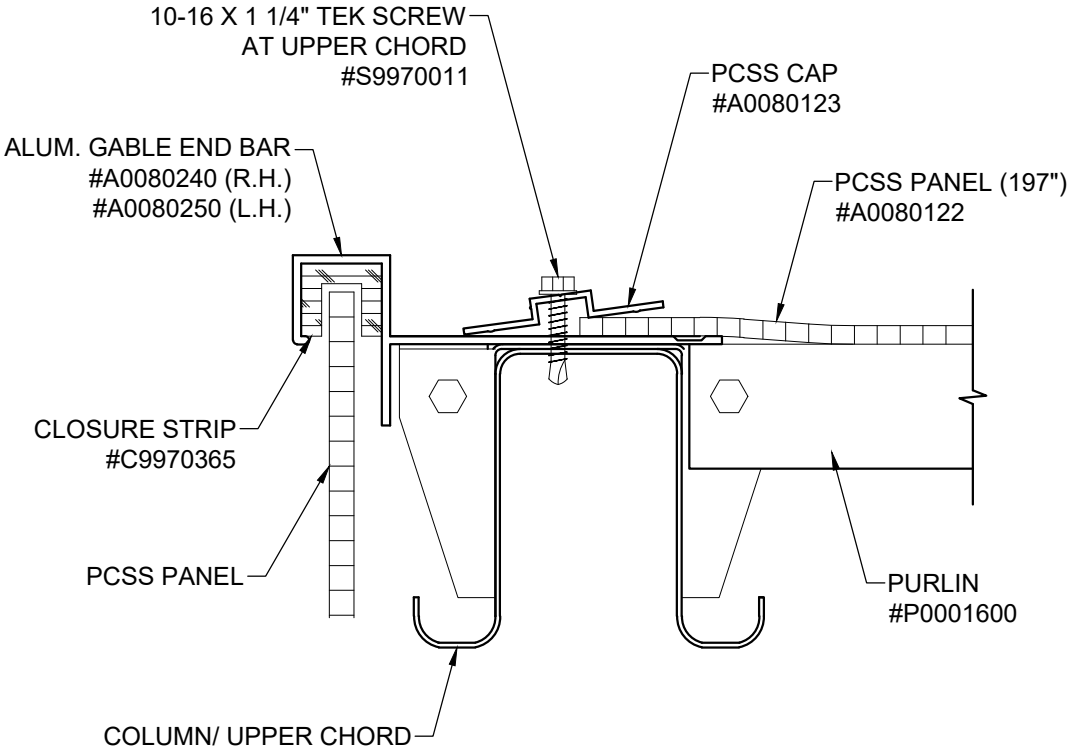
3. CENTER LEXAN SHEETS OVER UPPER CHORDS.



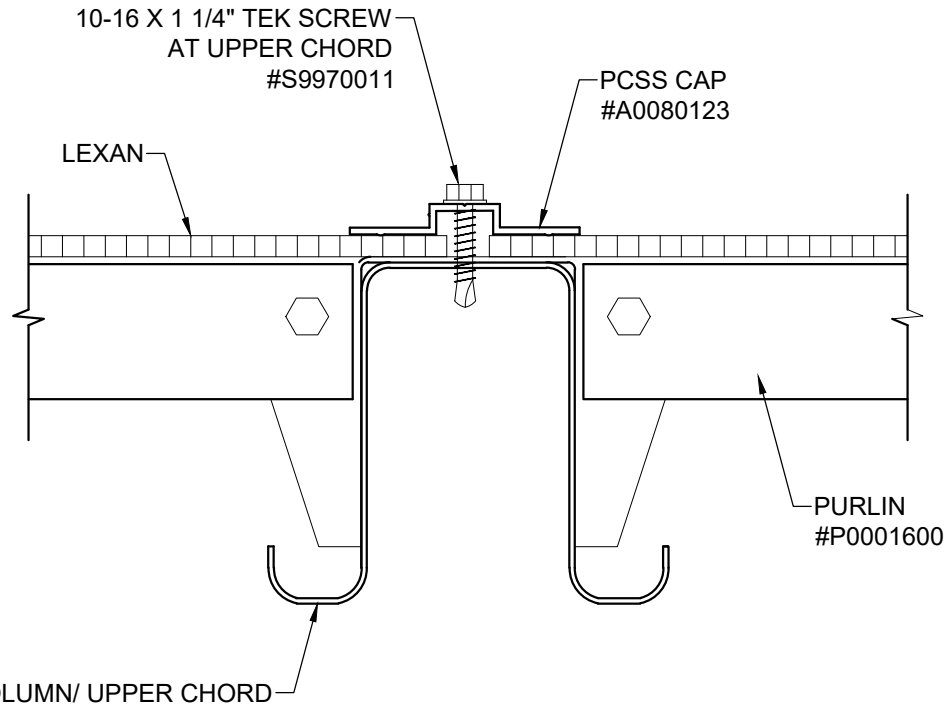
4. SECURE THE LEXAN TO THE PURLINS WITH 10-16 X 1 1/4" TEK SCREWS WITH WASHER.



5. INSTALL A GLAZING BAR CAP AT THE END WALLS AND UPPER CHORD COLUMN SHEET SPLICES. (6' APART TYPICALLY)



END WALL SECTION



INTERIOR TRUSS/ COLUMN SPACING

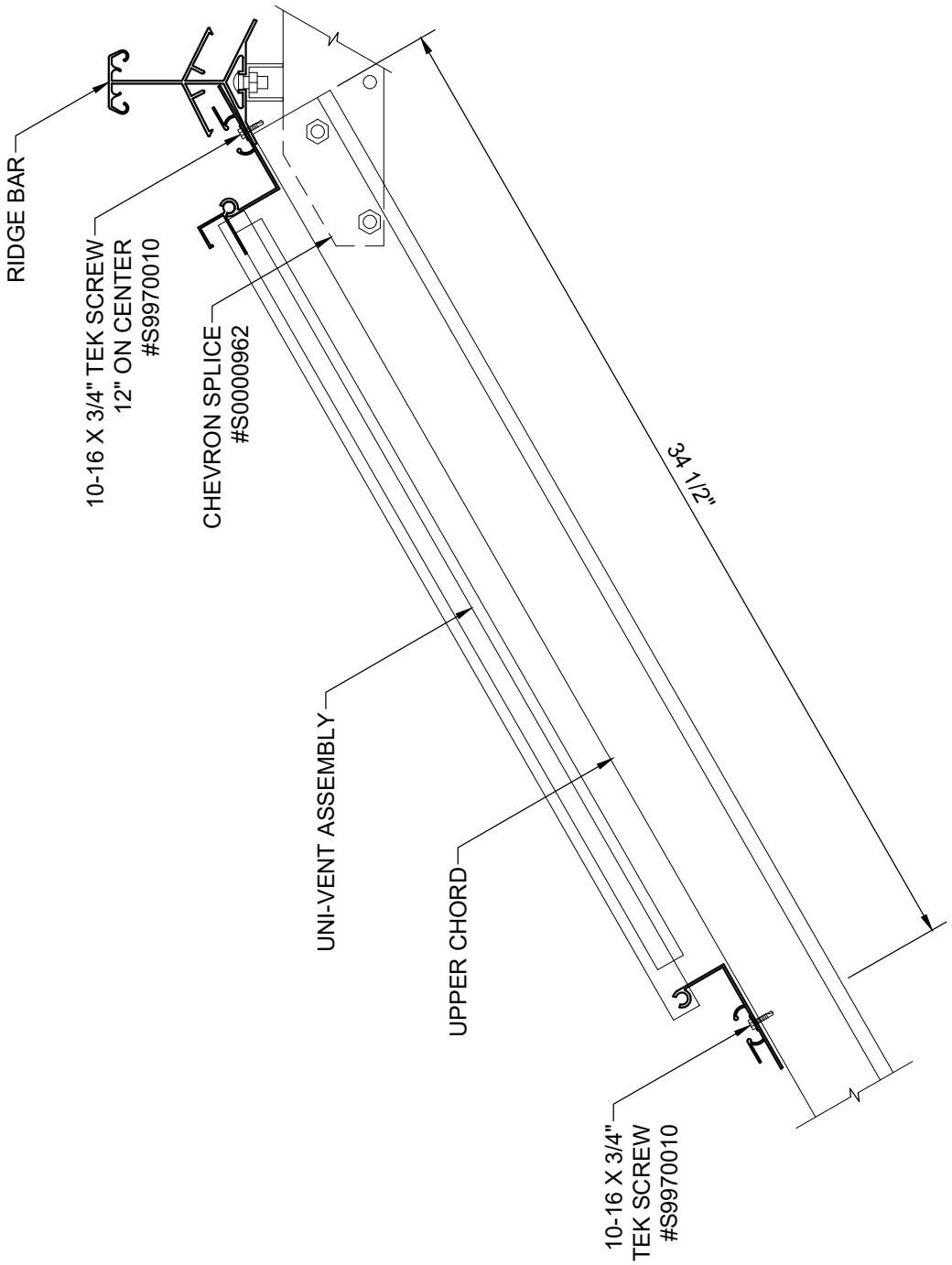
UNI-VENT INSTALLATION OPTION

1. PLACE UNI - VENT ASSEMBLY AT THE CENTER OF THE BUILDING. MAKE SURE THAT THE TOP FLASHING IS INSIDE OF THE RIDGE BAR.

2. SECURE THE ASSEMBLY WITH 10-16 X 3/4" TEK SCREWS AT 12" ON CENTER AT THE RIDGE BAR AND PURLIN (IF APPLICABLE).

3. SECURE THE ASSEMBLY TO THE UPPER CHORD(S) WITH 10-16 X 3/4" TEK SCREWS.

4. FOLLOW THE LEXAN INSTALLATION INSTRUCTIONS SUBSTITUTING THE ASSEMBLY FLASHING FOR THE RIDGE BAR.



UNI-VENT INSTALLATION

1. PLACE UNI - VENT ASSEMBLY AT THE CENTER OF THE BUILDING. MAKE SURE THAT THE FLASHING IS INSIDE OF THE RIDGE BAR.

2. SECURE THE ASSEMBLY WITH 10-16 X 3/4" TEK SCREWS AT 12" ON CENTER AT THE RIDGE BAR AND PURLIN, IF APPLICABLE.

3. SECURE THE ASSEMBLY TO THE UPPER CHORD WITH 10-16 X 3/4" TEK SCREWS.

FOR TAB PLACEMENT

1. MAKE SURE WHEN INSTALLING TAB #U0000810, THE 3" SIDE IS DIRECTLY SCREWED ON TO THE FRAME AND NOT ONTO THE BAY LESS AUTO VENT.

2. SHOULD IT BE INSTALLED INCORRECTLY THIS WILL CAUSE THE BAY LESS AUTO VENT TO JAM AND ONLY OPEN ONE INCH OR SO WHERE AS THE VENT SHOULD FULLY OPEN TO 12", SEE FIGURE 3.

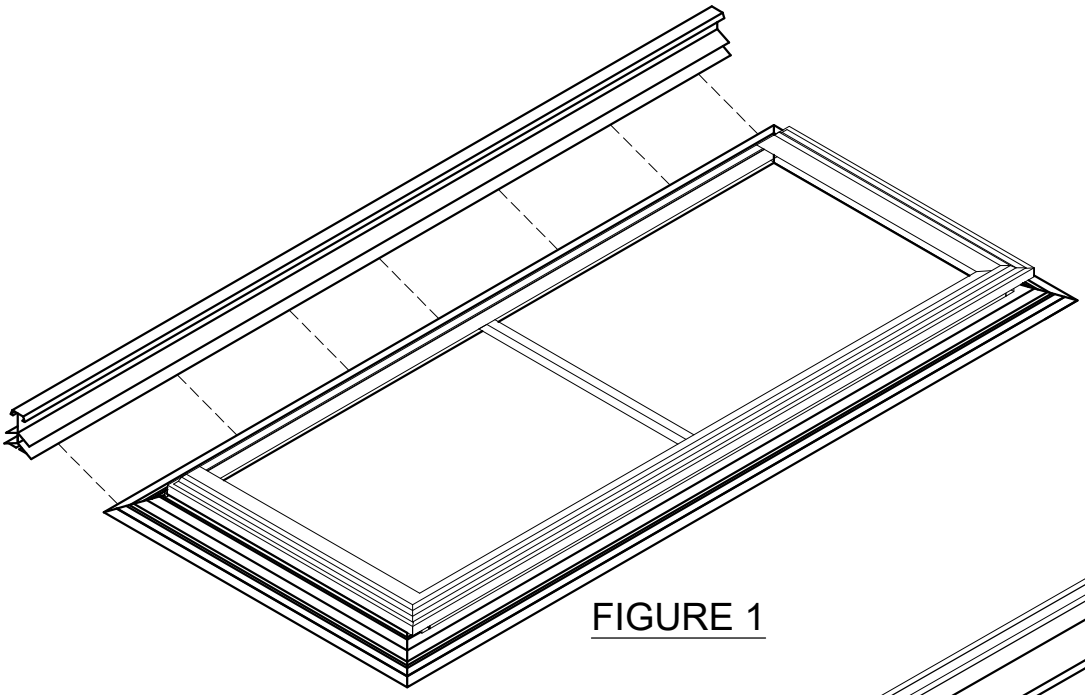


FIGURE 1

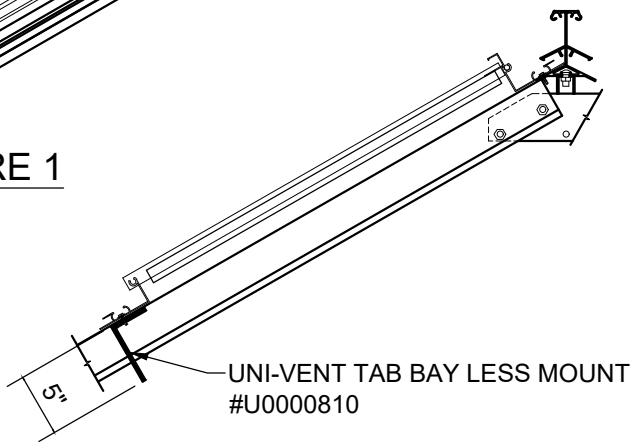


FIGURE 2

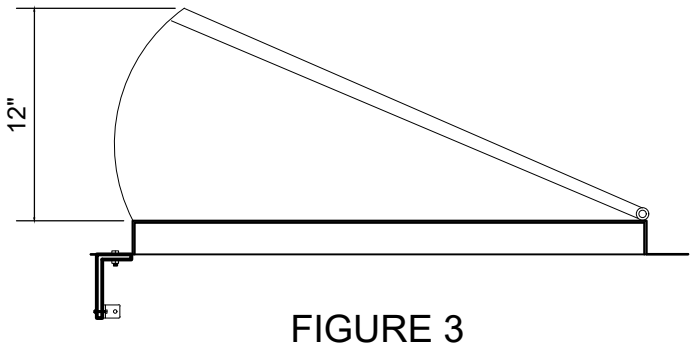


FIGURE 3

STATIONARY BENCH OPTION TABLE TOP ASSEMBLY

1. ASSEMBLE THE STATIONARY BENCH TABLE TOP FRAME BY PLACING THE TABLE TOP ENDS AND SIDES INTO A RECTANGULAR SHAPE, OVERLAPPING THE PIECES AT THE CORNERS. SECURE THEM TOGETHER WITH A 10-16 X 1/2" TEK SCREW PER CORNER.

2. SLIDE 5 CROSSBARS INTO THE TABLE TOP SIDES AND ALIGN THEM WITH THE HOLES PROVIDED, APPROXIMATELY EVERY 24". SECURE THE CROSSBAR WITH (2) 10-16 X 1/2" TEK SCREW, ONE AT EACH END, FROM THE TOP AND (4) 10-16 X 1/2" TEK SCREW, TWO AT EACH END, FROM THE BOTTOM.

3. PLACE THE TABLE TOP FRAME ON TOP OF THE 2 LEG RAILS AND ALIGN THE LEG RAILS WITH THE HOLES IN THE CROSSBARS. SECURE THE LEG RAILS WITH (1) 10-16 X 1/2" TEK SCREW AT EACH TABLE TOP END AND (2) 10-16 X 1/2" TEK SCREW AT EACH INTERSECTION OF THE LEG RAIL AND CROSSBARS.

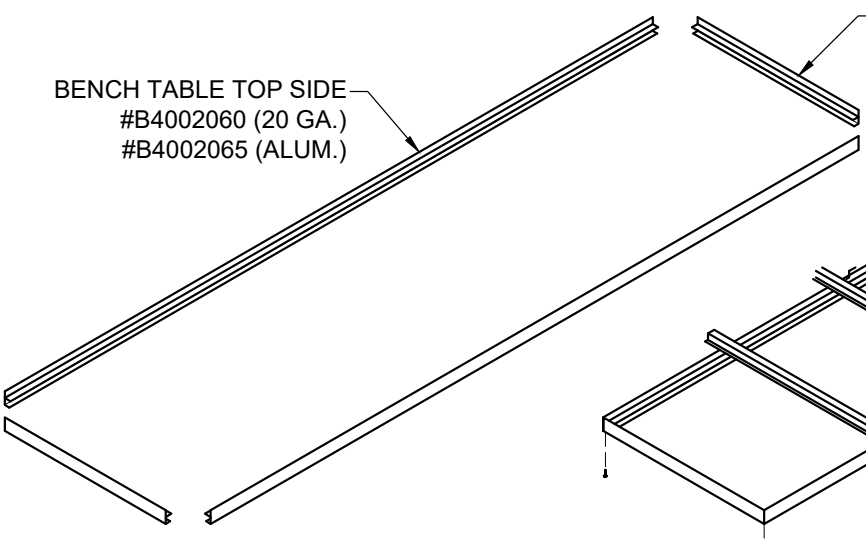


FIGURE 1

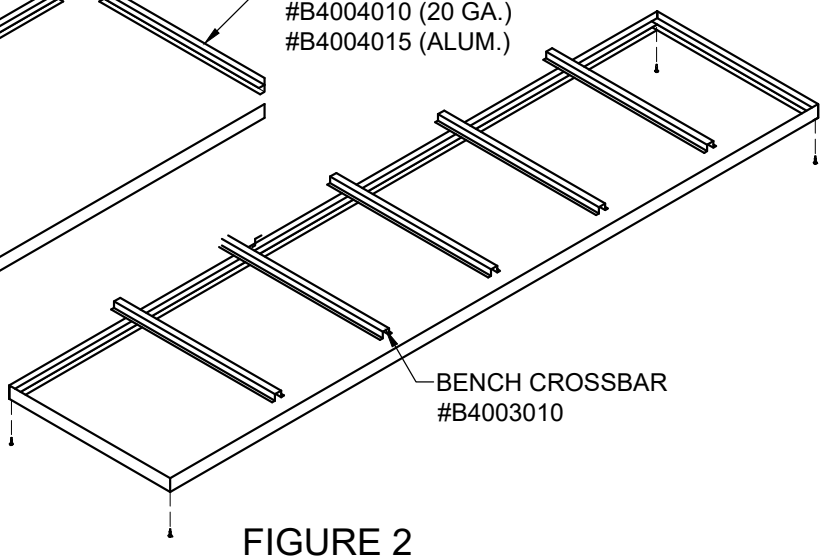


FIGURE 2

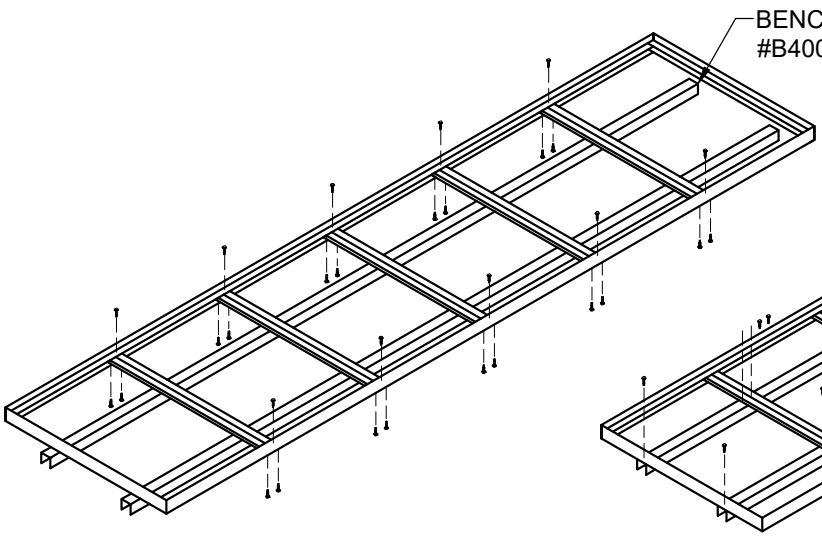


FIGURE 3

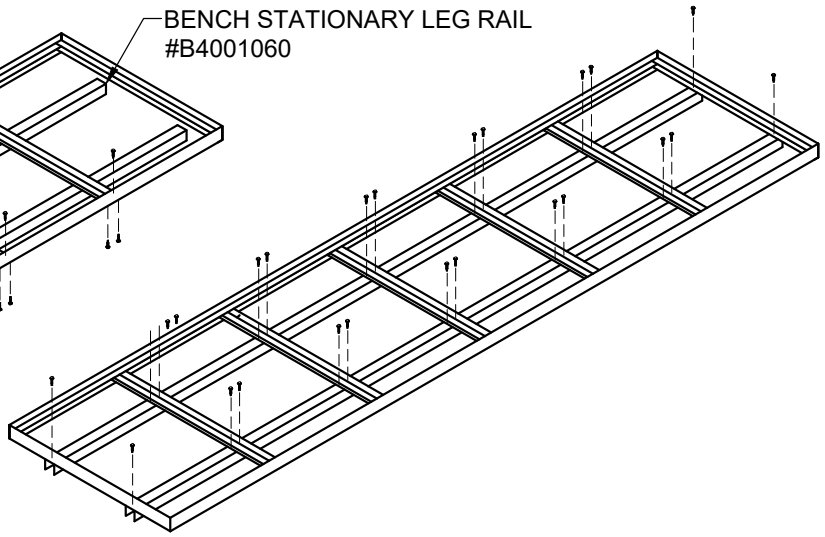


FIGURE 4

4. MEASURE UP FROM THE GROUND 29 1/2"±, AND MARK THE COLUMN / LEG FOR TAB LOCATION. ATTACH THE TAB, WITH (2) 14-14 X 1" TEK SCREWS. PLACE 1 TAB PER COLUMN / LEG.

5. LIFT THE PRE ASSEMBLED TABLE TOP ONTO THE TABS AND SECURE IT WITH (2) 10-16 X 3/4" TEK SCREW PER TAB.

6. INSTALL THE LEG BRACE BY SECURING THE BRACE TO THE TABLE TOP WITH A 10-16 X 3/4" TEK SCREW PER BRACE. LEVEL THE TABLE, THEN SLIDE LEG BRACE INTO BENCH BRACE. PLACE (1) 10-16 X 3/4" TEK SCREW WHERE BRACES JOIN AND SECURE THE BOTTOM OF THE LEG BRACE TO THE COLUMN / LEG WITH A 3/8" NUT.

7. AFTER THE BENCH TABLE TOP FRAME IS PLUMB AND SECURE, INSTALL THE EXPANDED METAL TABLE TOP. SLIDE THE EXPANDED METAL ONTO THE FRAME AND SECURE IT WITH 10-16 X 3/4" TEK SCREW AND 1/4" FENDER PLATED WASHERS.

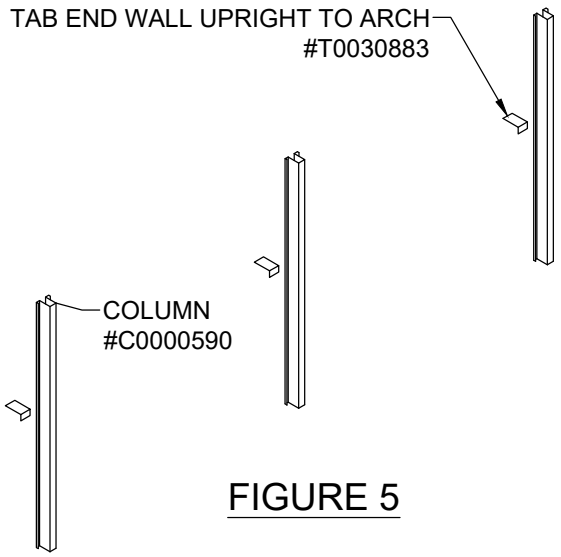


FIGURE 5

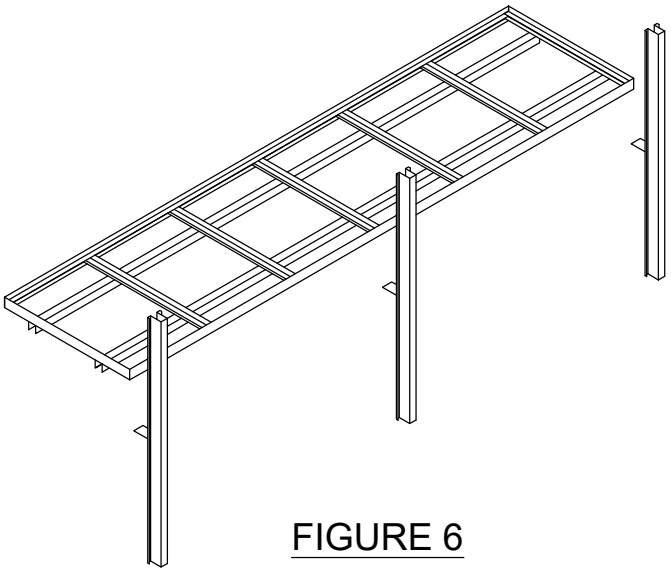


FIGURE 6

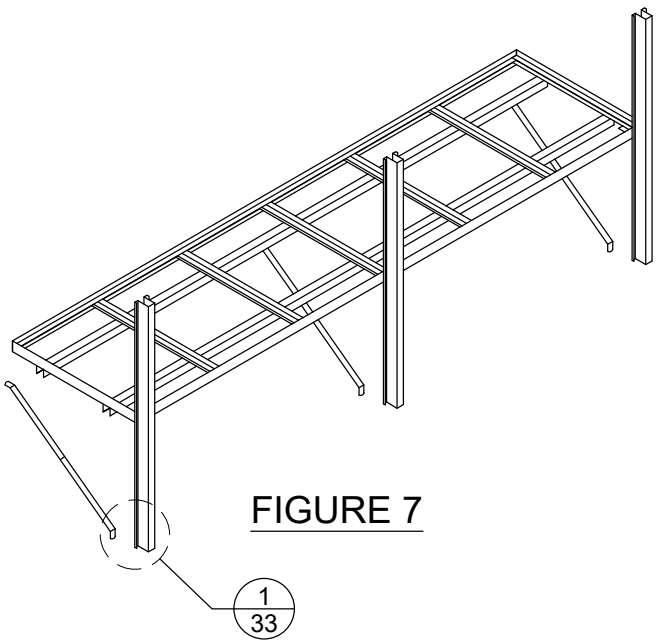


FIGURE 7

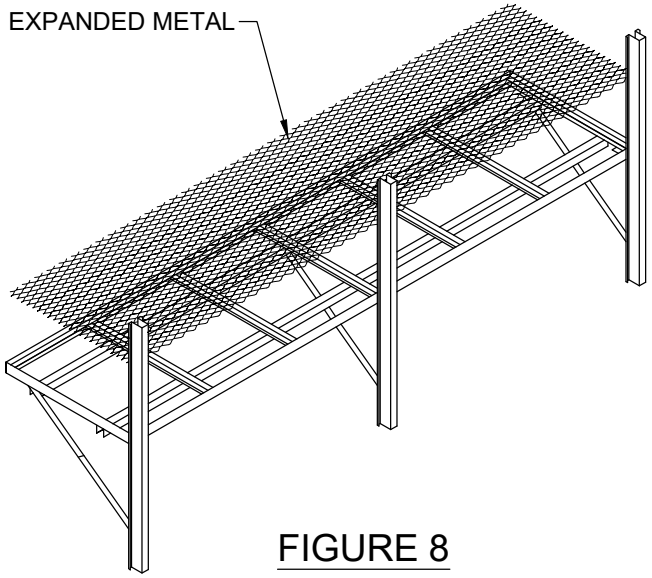
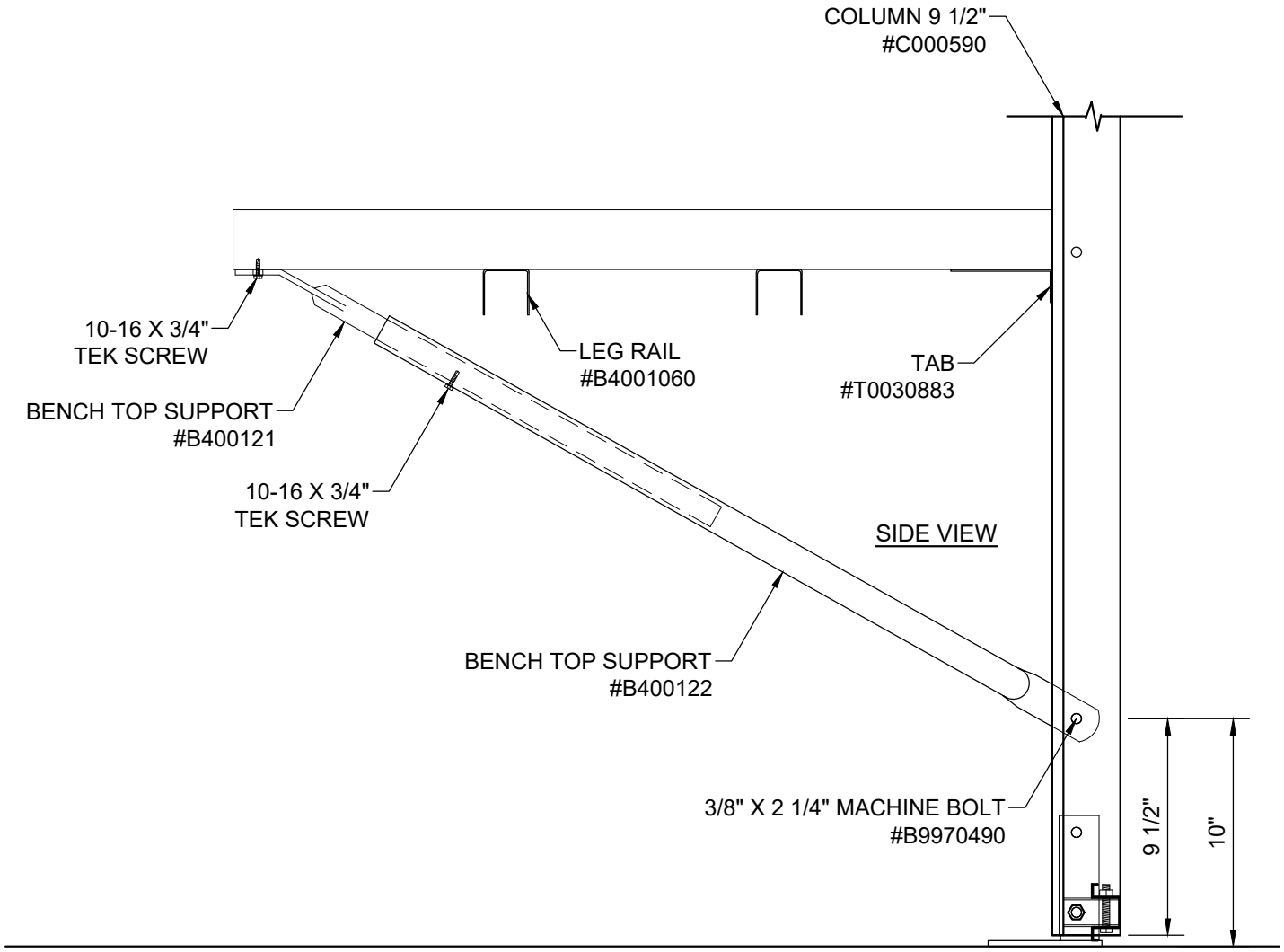
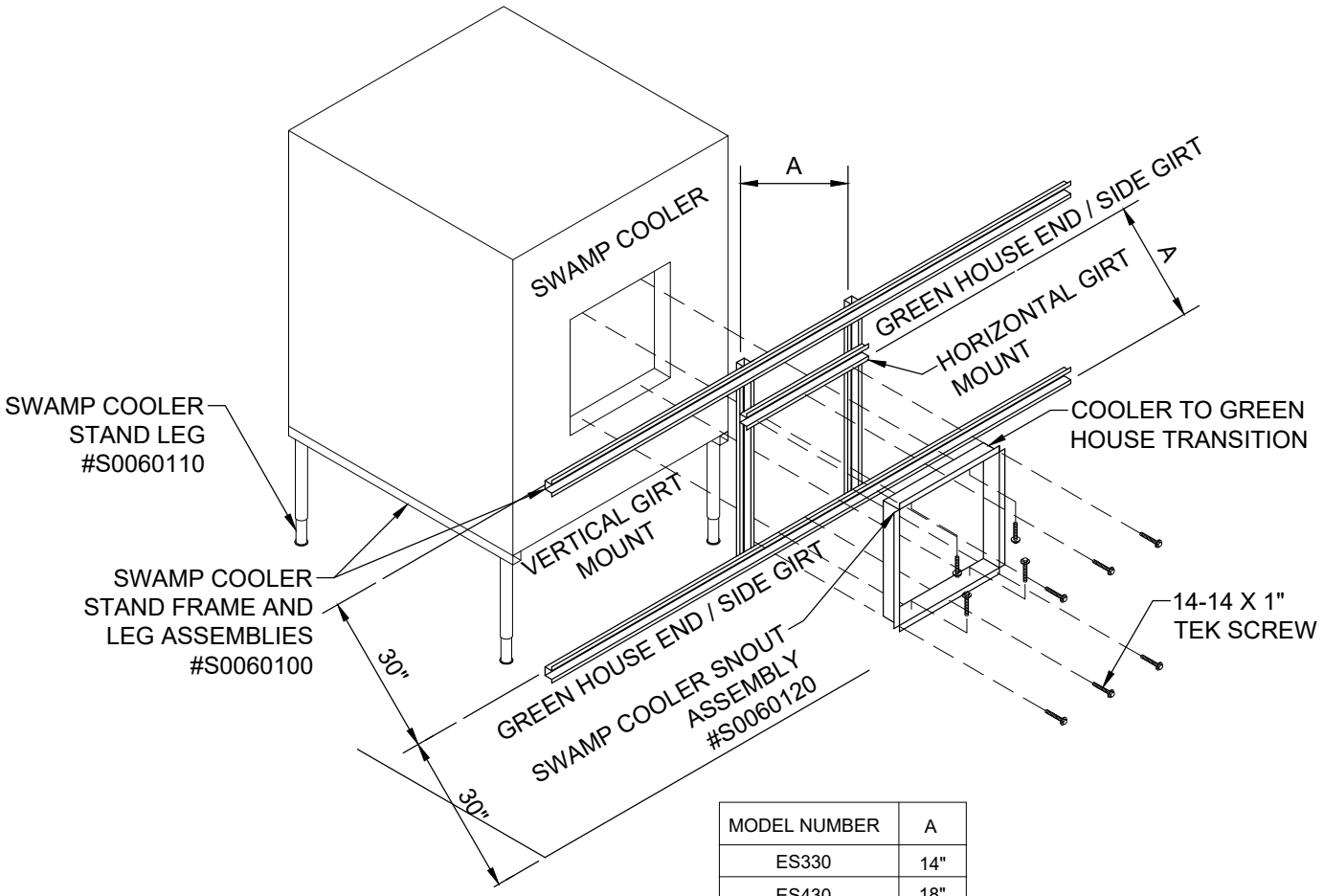


FIGURE 8


COLUMN 9 1/2"
#C000590
10-16 X 3/4"
TEK SCREW
BENCH TOP SUPPORT
#B400121
10-16 X 3/4"
TEK SCREW
LEG RAIL
#B4001060
TAB
#T0030883
SIDE VIEW
BENCH TOP SUPPORT
#B400122
3/8" X 2 1/4" MACHINE BOLT
#B9970490
9 1/2"
10"

DETAIL 1

SWAMP COOLER INSTALLATION OPTION



MODEL NUMBER	A
ES330	14"
ES430	18"
ES630	20"

1. LOCATE THE AREA WHERE COOLER WILL BE INSTALLED. ATTACH THE 2 VERTICAL COOLER MOUNTING GIRTS ON THE INSIDE OF THE END / SIDE GIRTS WITH 10-16 X 3/4" TEK SCREWS AT EACH END TO GIRT. SEE CHART ABOVE FOR VERTICAL GIRT SPACING.

2. ATTACH THE HORIZONTAL COOLER MOUNT GIRT TO THE FACE OF THE VERTICAL COOLER MOUNTING GIRTS WITH 10-16 X 3/4" TEK SCREW AT EACH END. SEE CHART ABOVE FOR HORIZONTAL GIRT SPACING.

3. SLIDE THE SWAMP COOLER STAND LEG INTO THE STAND ASSEMBLY AND POSITION AT OPENING. PLACE THE SWAMP COOLER ON STAND AND ALIGN THE OPENINGS.

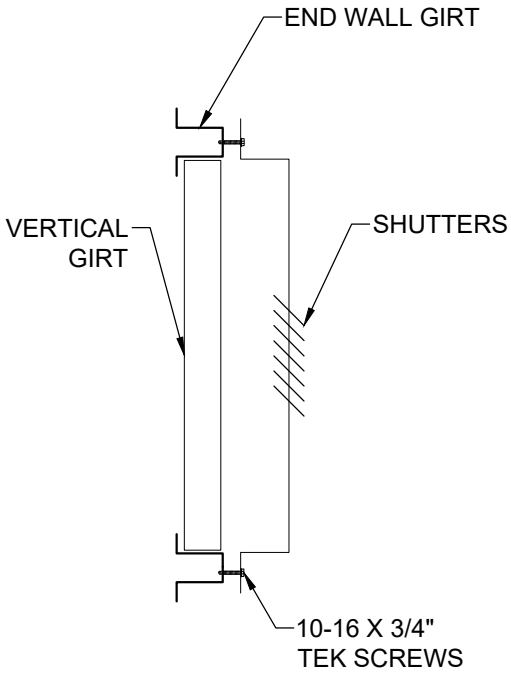
4. SLIDE THE COOLER TO GREEN HOUSE TRANSITION THROUGH THE OPENING CREATED BY THE MOUNTING GIRTS. SECURE THE 1" FLANGE TO THE TOP AND BOTTOM HORIZONTAL GIRTS WITH 14-14 X 1" TEK SCREWS AND SECURE THE 3" FLANGE TO THE SWAMP COOLER WITH 14-14 X 1" TEK SCREWS.

INSTALLATION OF SHUTTERS

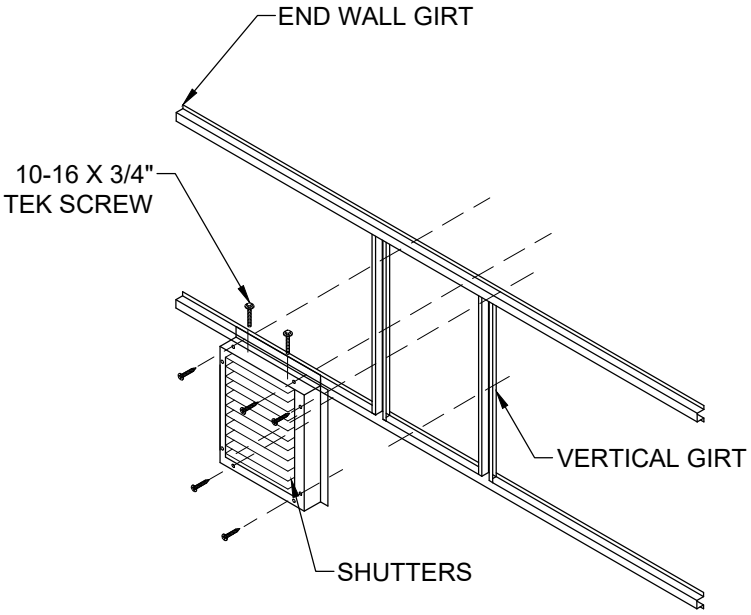
1. PLACE SHUTTER ON THE OPPOSITE END FROM THE COOLER TO INSURE PROPER CIRCULATION OF AIR FLOW.

2. INSTALL VERTICAL GIRT CUT TO FIT BETWEEN HORIZONTAL GIRTS AND SCREW TOGETHER.

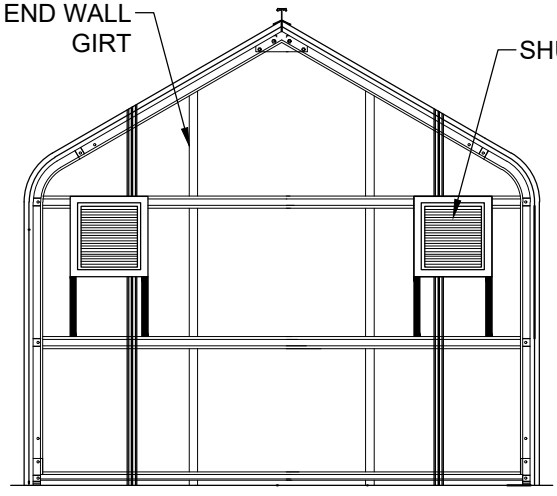
3. USE 10-16 X 3/4" TEK SCREWS TO SECURE TO HOUSE.



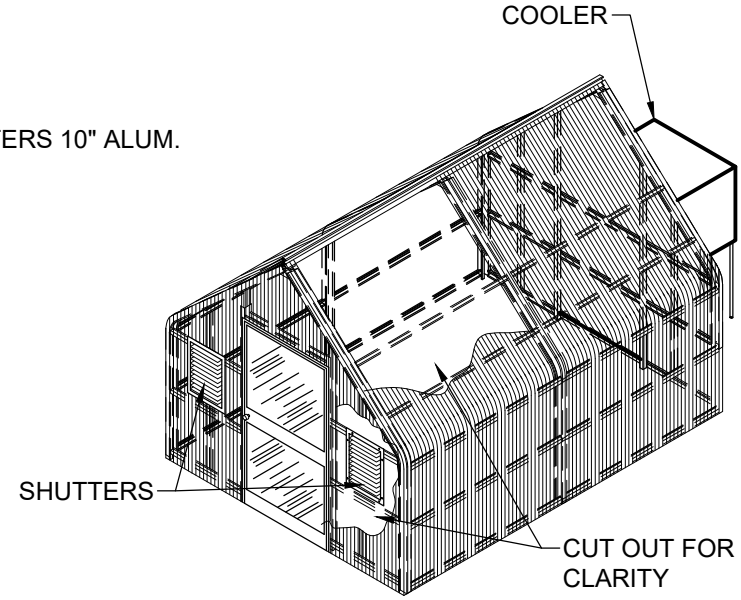
SIDE VIEW OF VENT



ISOMETRIC VIEW OF VENT



VENT AT END WALL



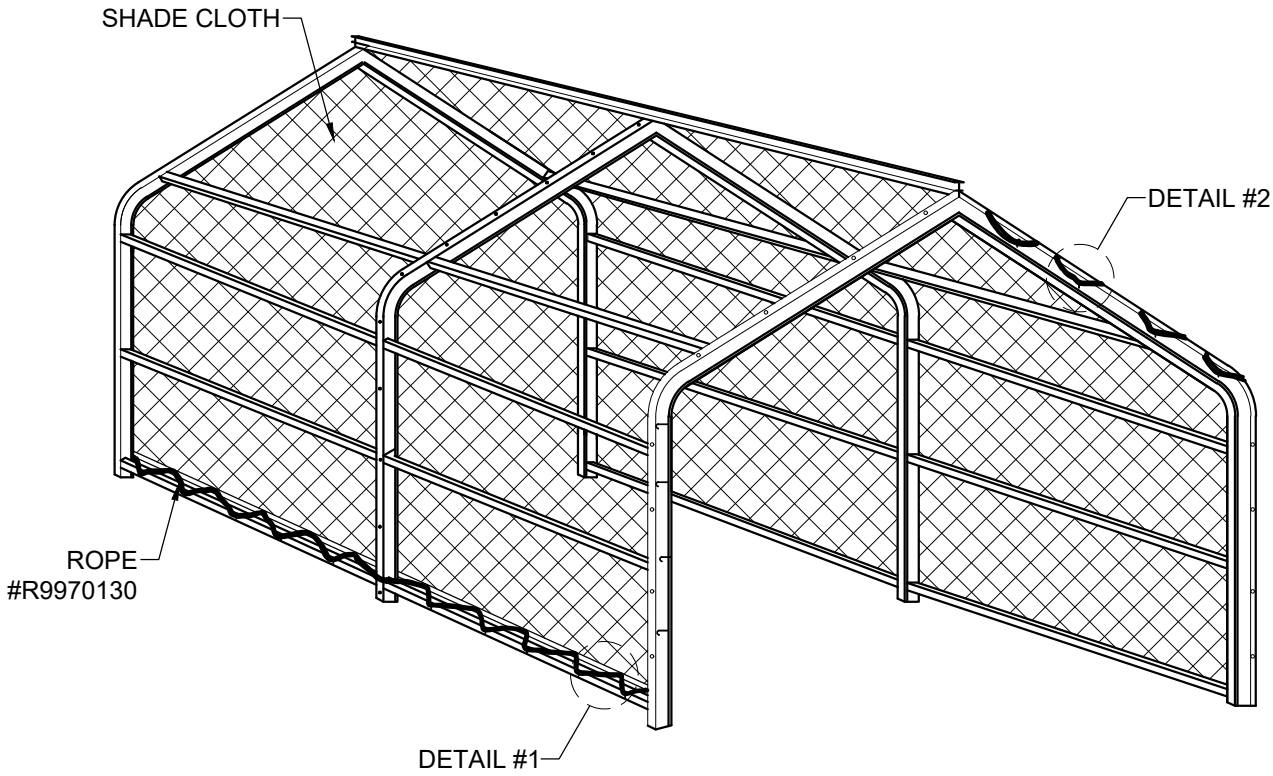
ISOMETRIC VIEW OF HOBBY HOUSE

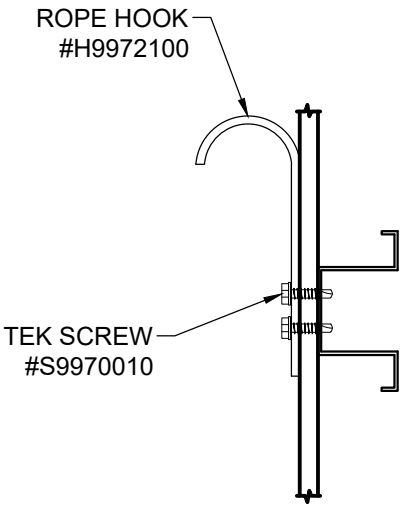
INSTALLATION OF SHADE CLOTH

1. TO INSTALL SHADE CLOTH FIRST ATTACH ROPE HOOKS EVERY 18" ON CENTER TYPE AT THE GIRT SIDE WALL (UNLESS OTHERWISE STATED).

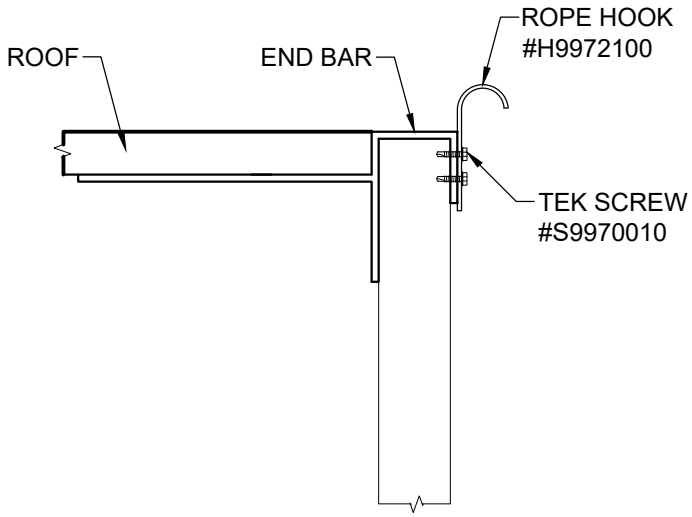
2. AT THE END BAR ATTACH ROPE HOOKS EVERY 18" ON CENTER TYPE. (UNLESS OTHERWISE STATED).

3. COVER HOBBY HOUSE WITH SHADE CLOTH, LASH SHADE CLOTH WITH ROPE AND HOOKS PREVIOUSLY INSTALLED.





DETAIL #1 - SIDEWALL



DETAIL #2 - ENDWALL





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