

JOB NUMBER: 5492
 JOB NAME: BAYHILL
 JOB LOCATION: CEDAR HILLS, UT

REVISION: _____

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 DISTINCTIVE STEEL SHELTERS
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 1455 LINCOLN AVE.
 HOLLAND MI, 49423
 616.396.0919
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DESIGN LOADS

CODE: 2015 INTERNATIONAL BUILDING CODE
 TOTAL DEAD: 15.50 P.S.F.
 FRAME DEAD: 12.50 P.S.F.
 ROOF DEAD: 1.20 P.S.F.
 COLLATERAL DEAD: 1.80 P.S.F.
 ROOF LIVE LOAD: 18.00 P.S.F.
 GROUND SNOW LOAD: 43.00 P.S.F.
 ROOF SNOW LOAD: 36.12 P.S.F.
 WIND SPEED: 115.00 M.P.H.
 EXPOSURE: C
 SEISMIC USE GROUP: I
 SEISMIC SITE CLASS: D
 SEISMIC DESIGN CATEGORY: D
 SEISMIC ANALYSIS: SIMPLIFIED

NOTES

MATERIALS (ASTM DESIGNATION)
 TUBE STEEL (HSS HOLLOW STRUCTURAL SECTION) A-500 GRADE B
 WIDE FLANGE SECTIONS A-992
 STRUCTURAL STEEL PLATE A-36
 ROOF PANELS (STEEL) A-446
 ANCHOR BOLTS F1554 GRADE 55
 CONNECTION BOLTS A-325

ALL WELDING CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED. ALL WELDING IS PERFORMED BY AWS CERTIFIED WELDERS.

IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO THE MATERIALS SUPPLIED BY ICON SHELTER SYSTEMS INC. AND IS NOT INTENDED AS THE SEAL OF THE ENGINEER OF RECORD FOR THE ENTIRE PROJECT.

DUE TO STANDARDIZED FABRICATION PARTS SHOWN MAY BE UPGRADED. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

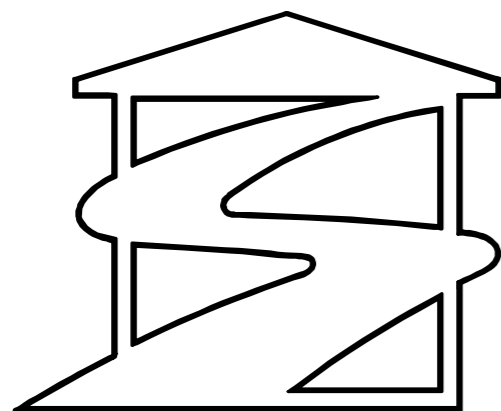
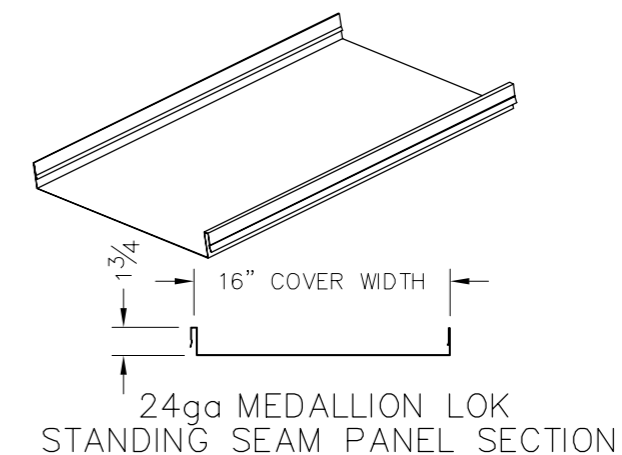
ICON SHELTER SYSTEMS INC. RECOMMENDS THAT THE PRIMARY FRAMING INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM OF FIVE (5) YEARS OF DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

HIGH STRENGTH BOLTING
 ALL HIGH STRENGTH BOLTS ARE A-325 BOLTS WITH HEAVY HEX NUTS. THE BOLTS ARE TO BE INSTALLED UTILIZING THE "SPECIFICATION FOR STRUCTURAL JOINTS ASTM A325 OR A490 BOLTS" (12/31/2009) AS PREPARED BY RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) FOR THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC). THE BOLTS SHALL BE INSTALLED AS SNUG TIGHTENED WHICH IS DEFINED AS THE TIGHTNESS THAT IS ATTAINED WITH A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH TO BRING THE PLIES INTO FIRM CONTACT, WHICH IS THE CONDITION WHEN THE PLANES OF CONTACT BETWEEN TWO PLIES ARE SOLIDLY SEATED AGAINST EACH OTHER, BUT NOT NECESSARILY IN CONTINUOUS CONTACT WITH UTILIZATION OF THE SNUG TIGHTENING METHOD, NO WASHERS ARE REQUIRED.
 ALL CONNECTIONS ARE BEARING TYPE CONNECTIONS UNLESS NOTED OTHERWISE.

IT IS THE RESPONSIBILITY OF THE INSTALLER TO INSURE PROPER TIGHTNESS.

PROPER ERECTION OF THE FRAMING MEMBERS REQUIRES THE MAIN COLUMNS TO BE PLUMB & SQUARE. COLUMNS, RAFTER, AND TIE BEAM CONNECTIONS MUST BE TIGHTENED BEFORE INSTALLING THE PURLINS. PURLINS MUST BE PARALLEL TO THE TIE BEAMS AND EAVE BEAMS.

ROOF



Trail Series™

Cover Sheet

DRAWN BY:	JSW
DATE:	9/7/17
JOB NO.:	5492
REVISION:	
BUILDING TYPE:	TSS8S-P6-STP
PROJECT NAME:	BAYHILL CEDAR HILLS, UT

SHEET
 1.0

DWC: 5492 - TSS8S-P6-STP - Bayhill\EngineeringInfo\Drawings\Submittals\TSS8S-P6-43-115-120.5~49620.DWG

Elevation

DRAWN BY:

JSW

DATE:

9/7/17

JOB NO.:

5492

REVISION:

BUILDING TYPE:

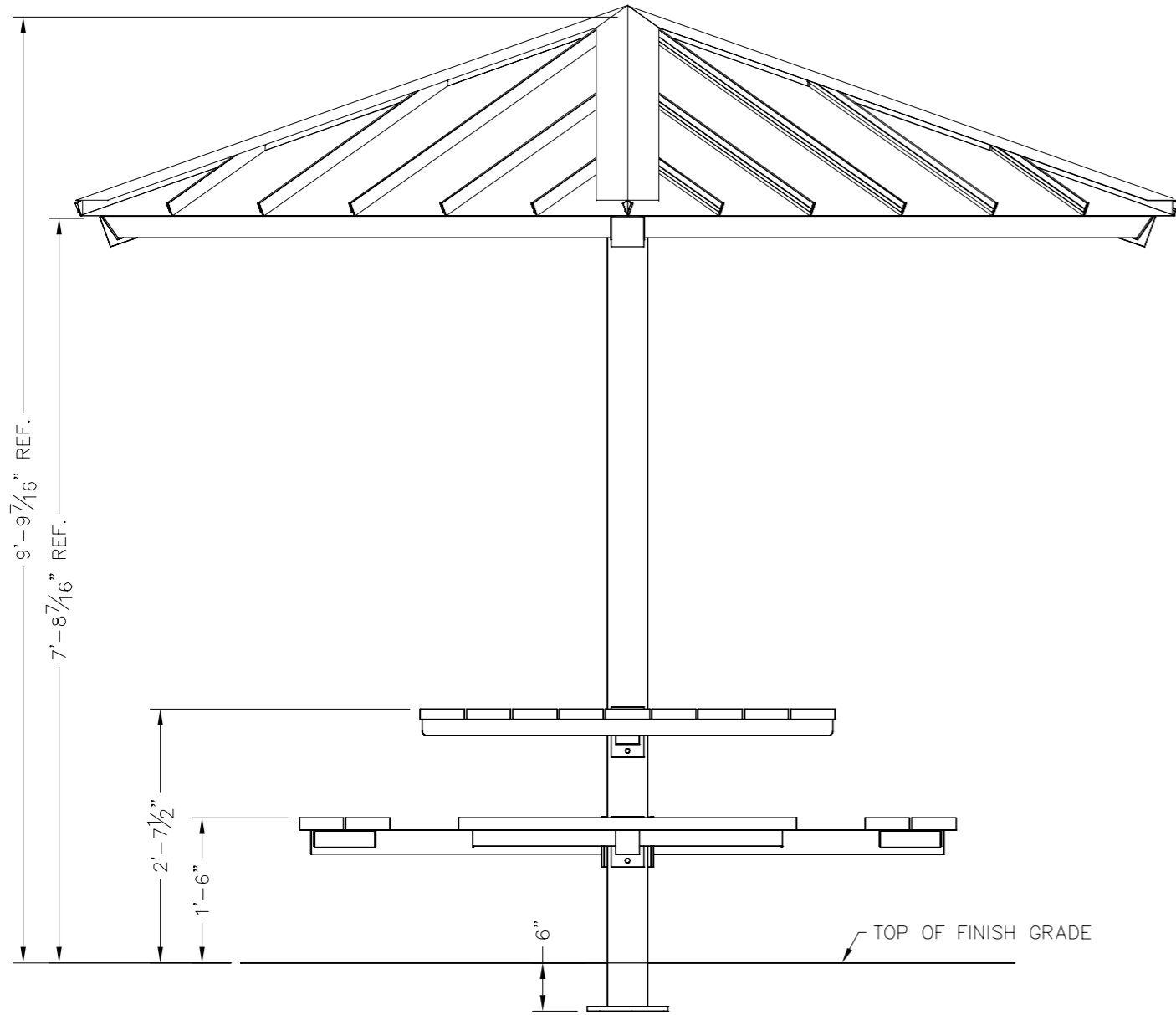
TSS8S-P6-STP

PROJECT NAME:

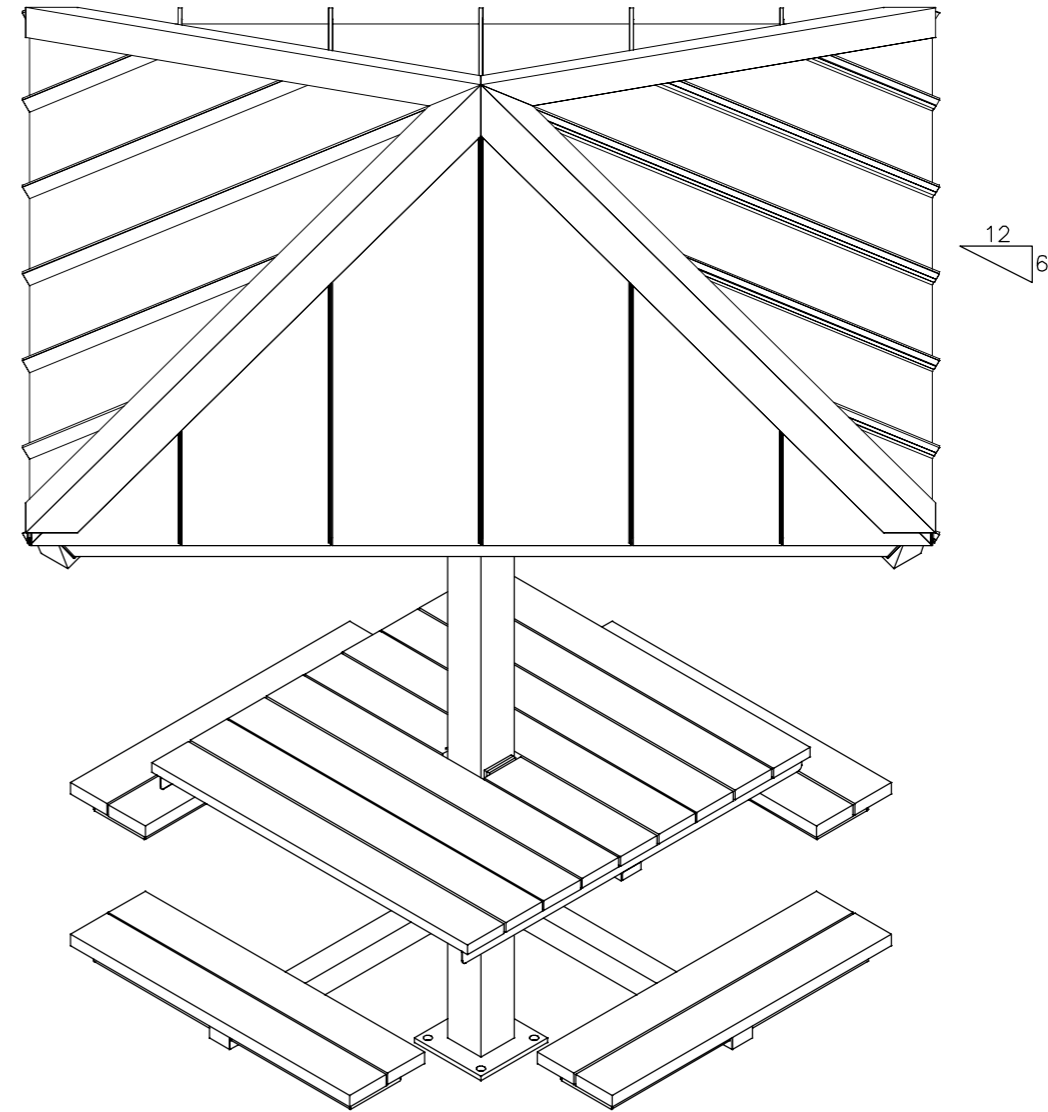
BAYHILL
 CEDAR HILLS, UT

SHEET

2.0

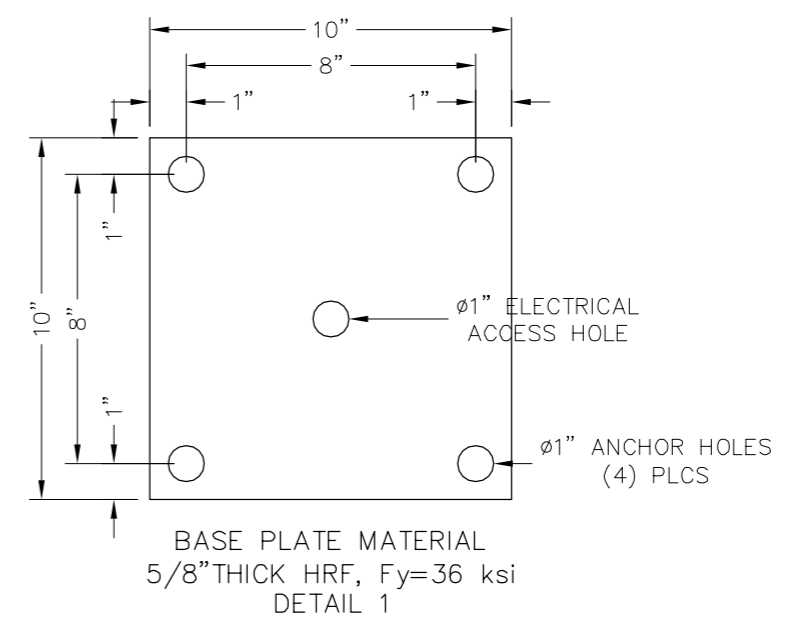
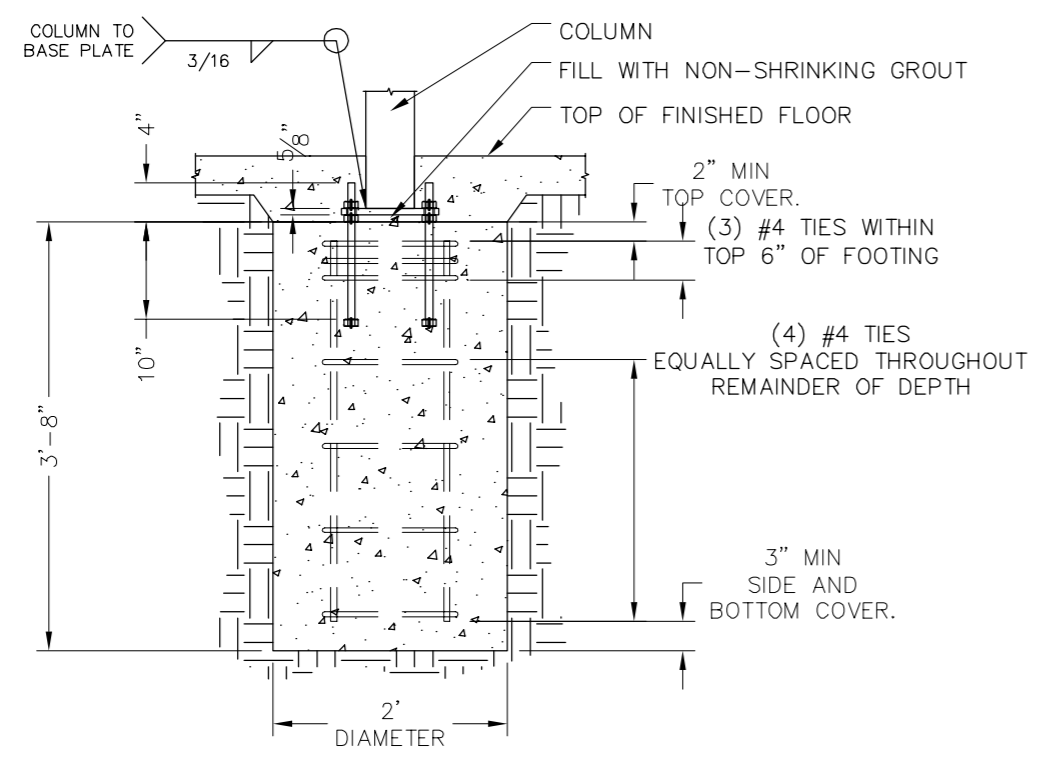
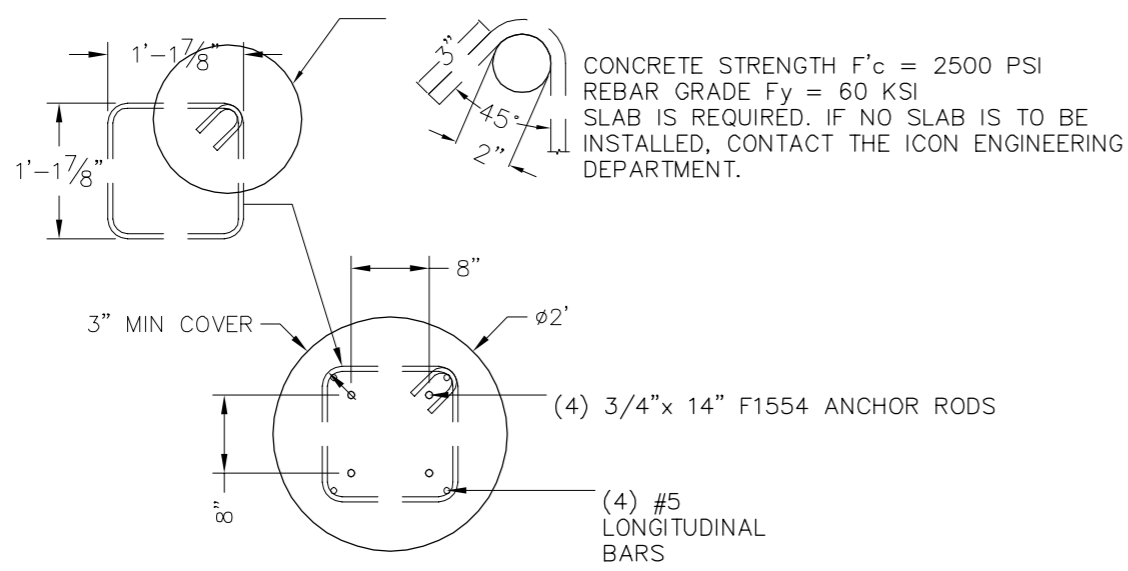


FRONT VIEW



ISOMETRIC VIEW

SEISMIC TIE HOOK DETAIL



Base Extension

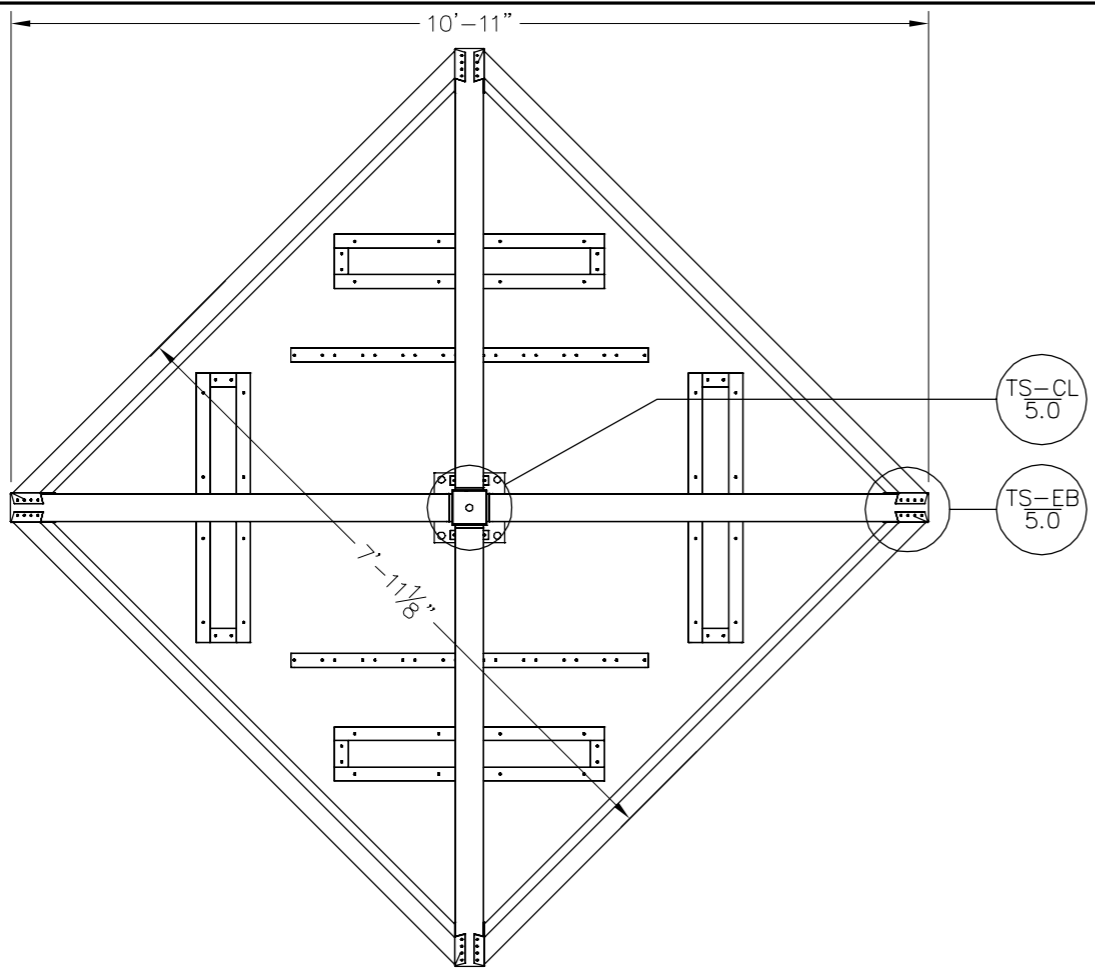
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SHEET
 3.0

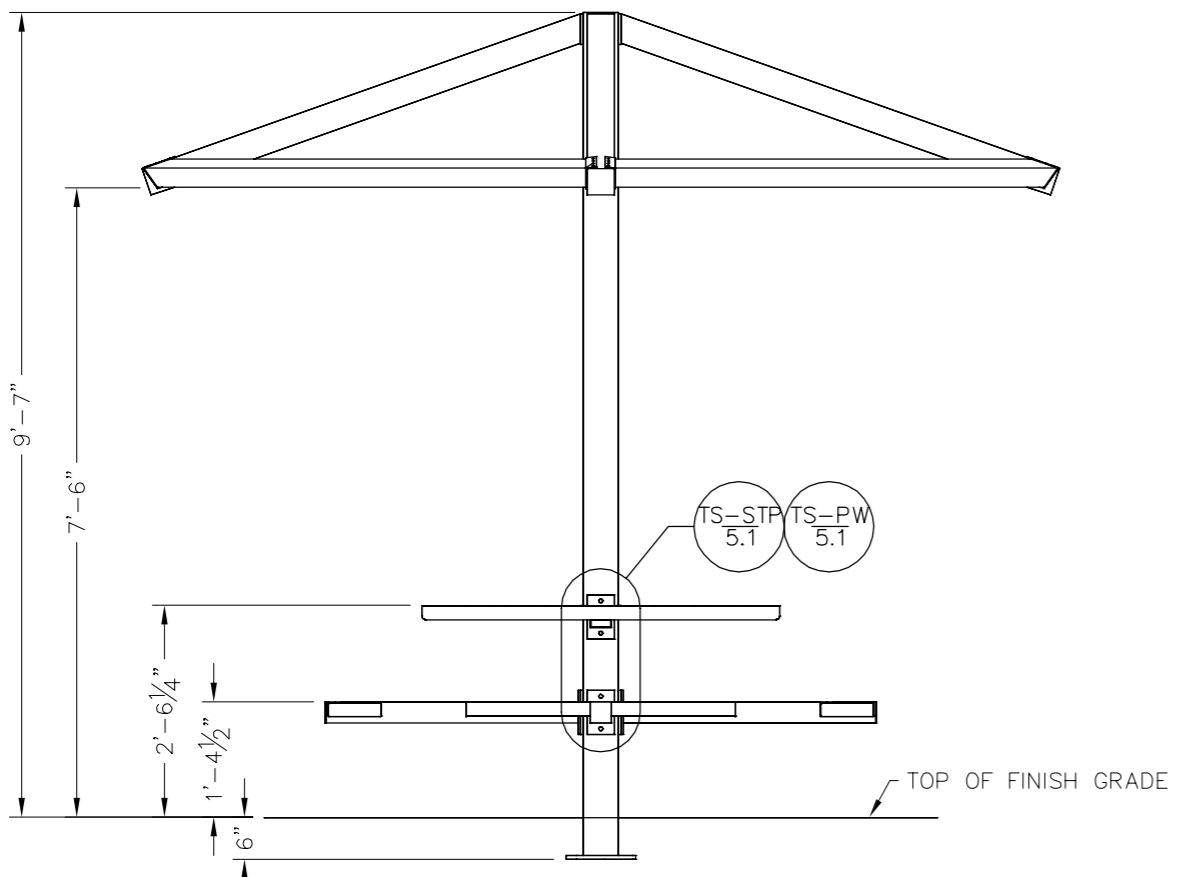
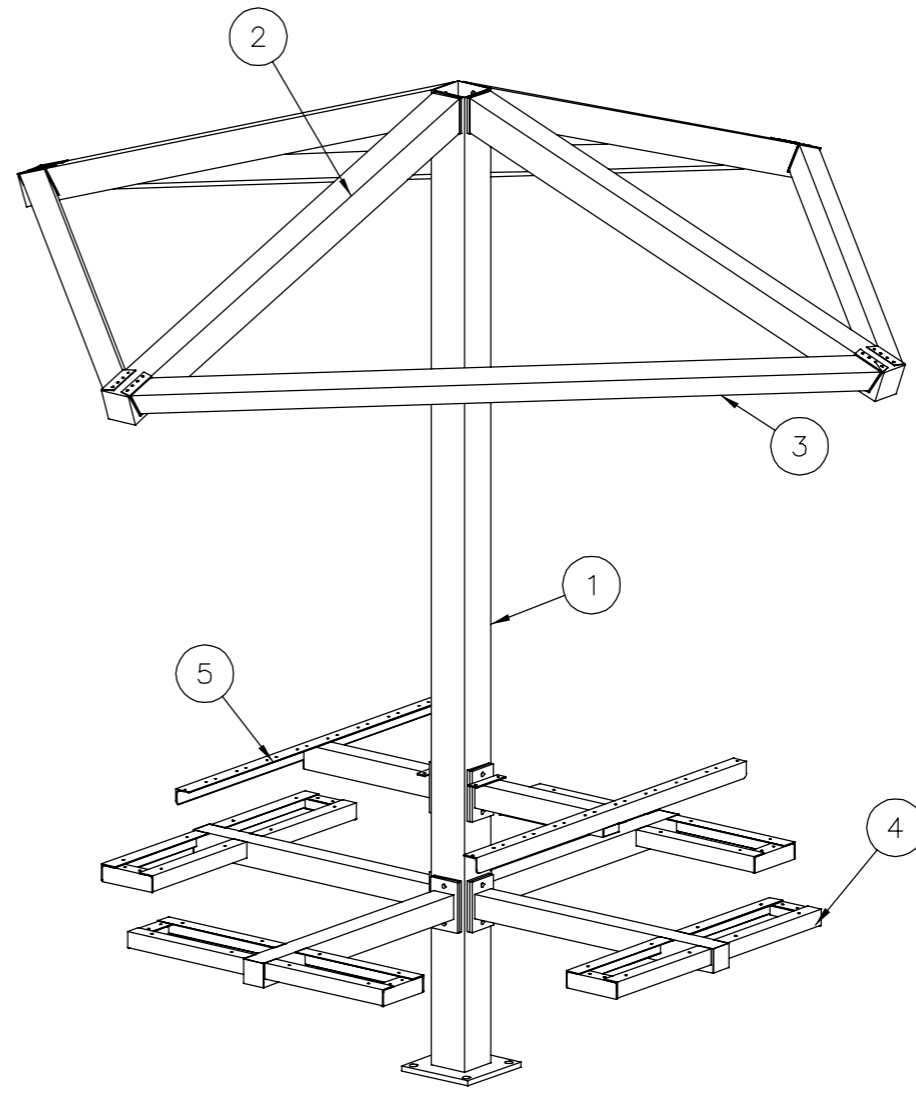
DWG: 5492 - TSS8S-P6-STP - Bayhill\EngineeringInfo\Drawings\Submittals\TSS8S-P6-43-115-120.5~49620.DWG

QTY	PART NUMBER	DESCRIPTION	MEMBER SIZE	LENGTH
1	1	COLUMN	HSS5X5X0.125	-
2	4	RAFTER	HSS4X4X0.125	-
3	4	EAVE BEAM	HSS3X3X0.125	-
4	4	SEAT WELDMENT	HSS3X3X0.125	-
5	2	TABLE WELDMENT	HSS3X3X0.125	-

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PLAN VIEW



FRAME ELEVATION

Frame Layout

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SHEET
4.0

DWG: 5492 - TSS8S-P6-STP - Bayhill\EngineeringInfo\Drawings\Submittals\TSS8S-P6-43-115-120.5~49620.DWG

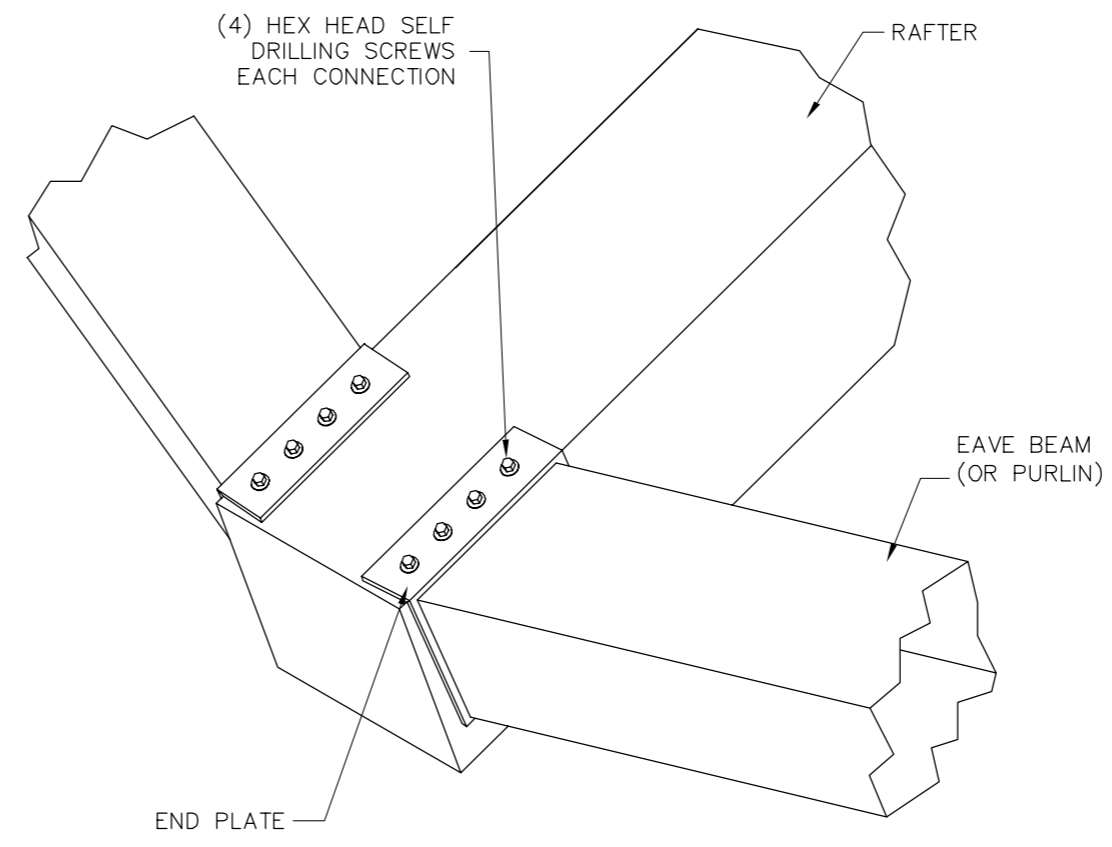
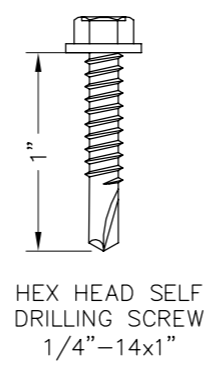
Frame Connections

NOTE TO INSTALLERS:
 WITH FACTORY POWDERCOATED SHELTERS, PAINT EXPOSED FASTENERS OF COMPRESSION RINGS, ORNAMENTATION, KNIFE PLATES, ETC. WITH PROVIDED TOUCH UP PAINT TO PREVENT RUSTING OF FASTENERS

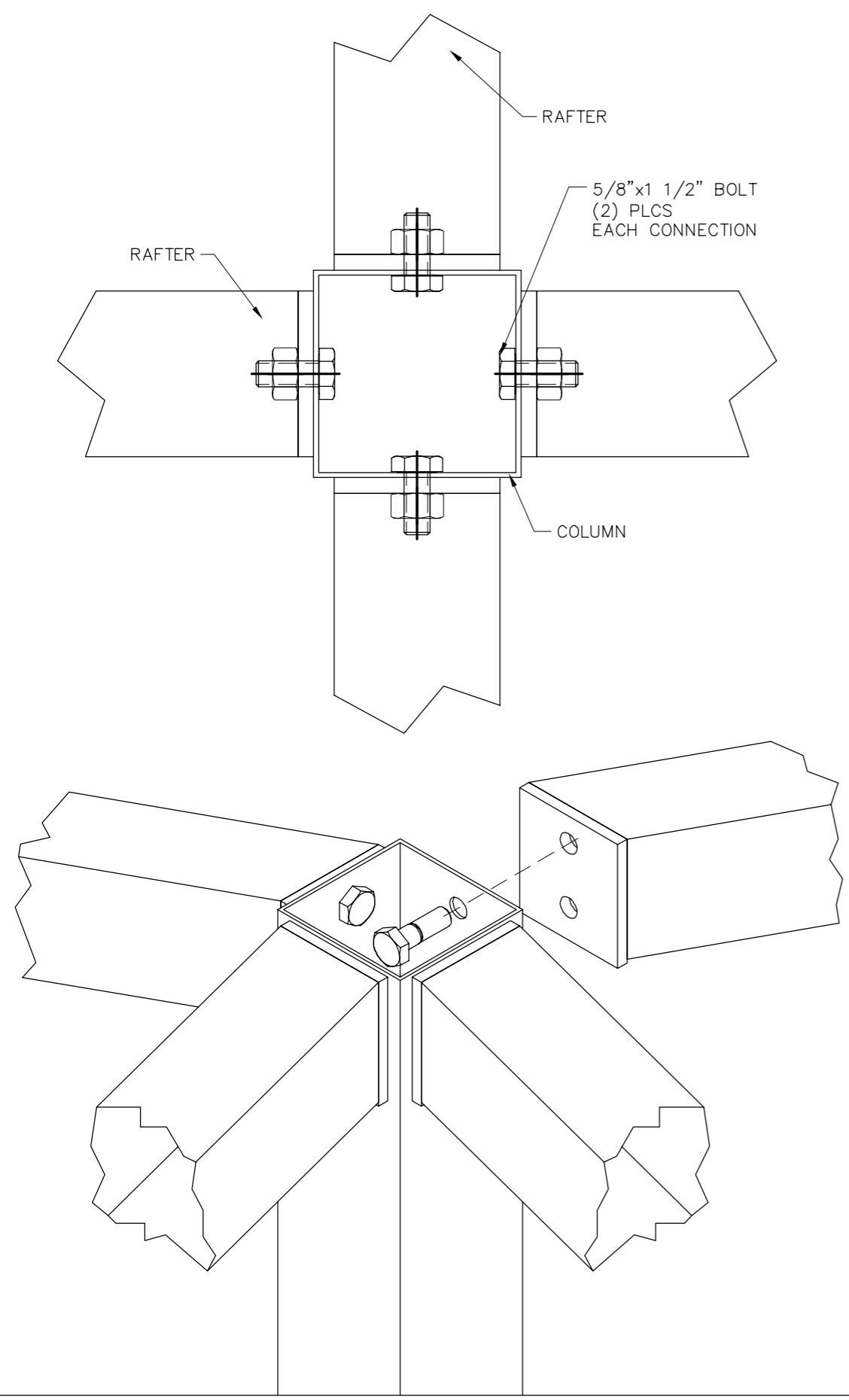
PAINT EXPOSED FASTENERS

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SHEET
5.0



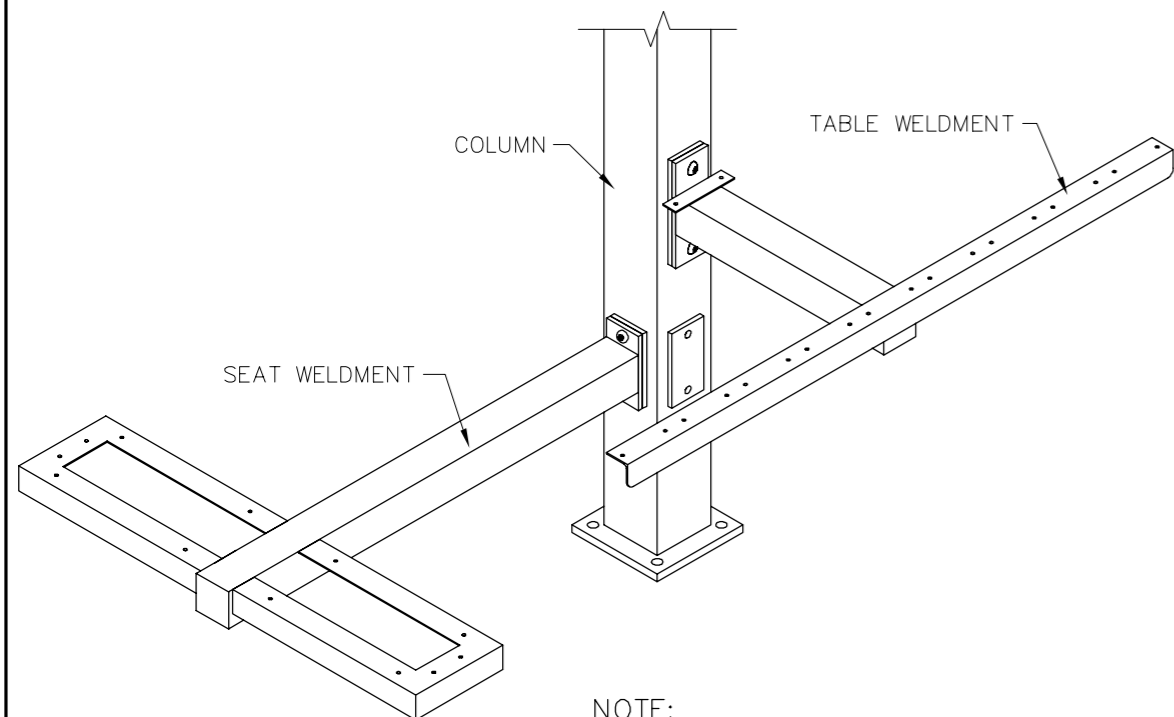
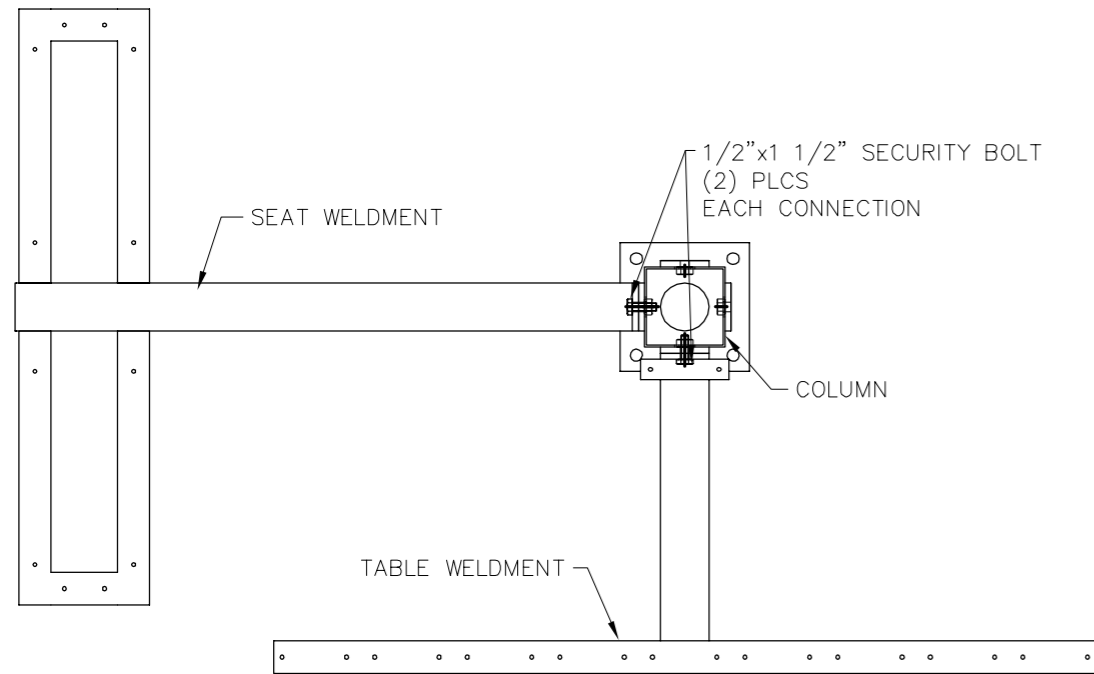
- 1). SLIDE EAVE BEAM INTO PLACE BETWEEN THE RAFTERS
- 2). FASTEN EAVE BEAM W/ (4) HEX HEAD SELF DRILLING ON EACH END



RAFTER CONNECTION
 @ COLUMN TS-CL

EAVE BEAM CONNECTION
 @ RAFTER TS-EB

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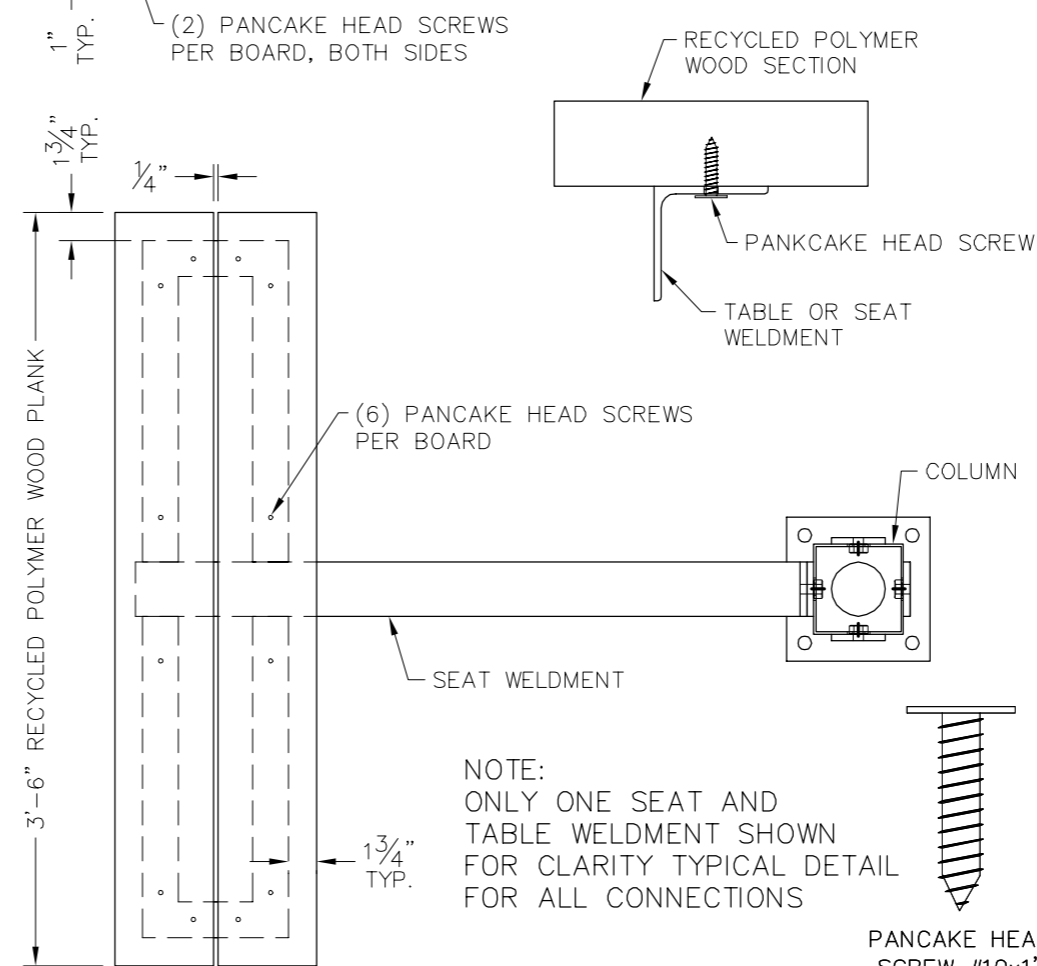
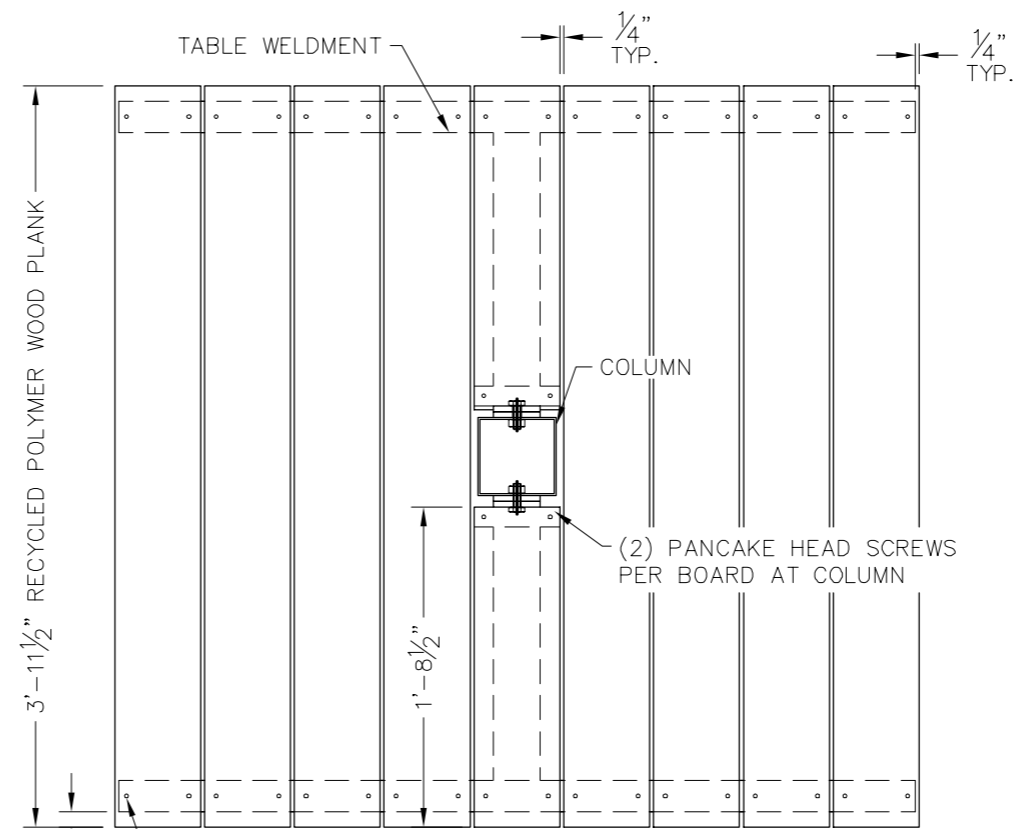


NOTE:
ONLY ONE SEAT AND TABLE WELDMENT SHOWN FOR CLARITY TYPICAL DETAIL FOR ALL CONNECTIONS

SEAT AND TABLE CONNECTION

© COLUMN

TS-STP



NOTE:
ONLY ONE SEAT AND TABLE WELDMENT SHOWN FOR CLARITY TYPICAL DETAIL FOR ALL CONNECTIONS

RECYCLED POLYMER WOOD CONNECTION

© SEAT AND TABLE WELDMENTS

TS-PW

NOTE TO INSTALLERS:
WITH FACTORY POWDERCOATED SHELTERS, PAINT EXPOSED FASTENERS OF COMPRESSION RINGS, ORNAMENTATION, KNIFE PLATES, ETC. WITH PROVIDED TOUCH UP PAINT TO PREVENT RUSTING OF FASTENERS

PAINT EXPOSED FASTENERS

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REVISION:

BUILDING TYPE:

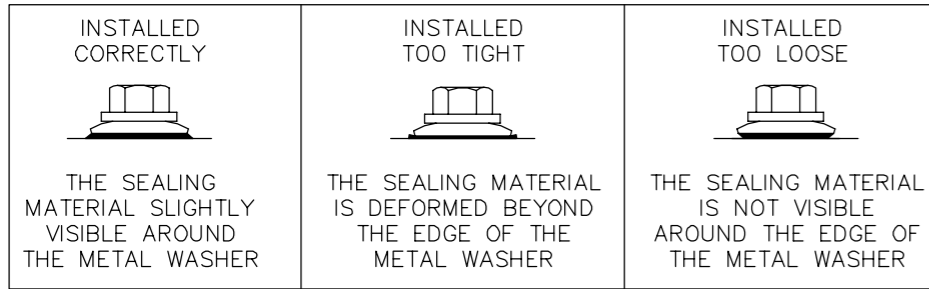
TSS8S-P6-STP

PROJECT NAME:

BAYHILL
CEDAR HILLS, UT

SHEET

5.1



THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE METAL ROOFING SYSTEM. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. CHANGES TO THE DETAILS MAY BE REQUIRED DUE TO FIELD CONDITIONS.

THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL INSTALLATION INSTRUCTION MATERIAL BEFORE STARTING WORK.

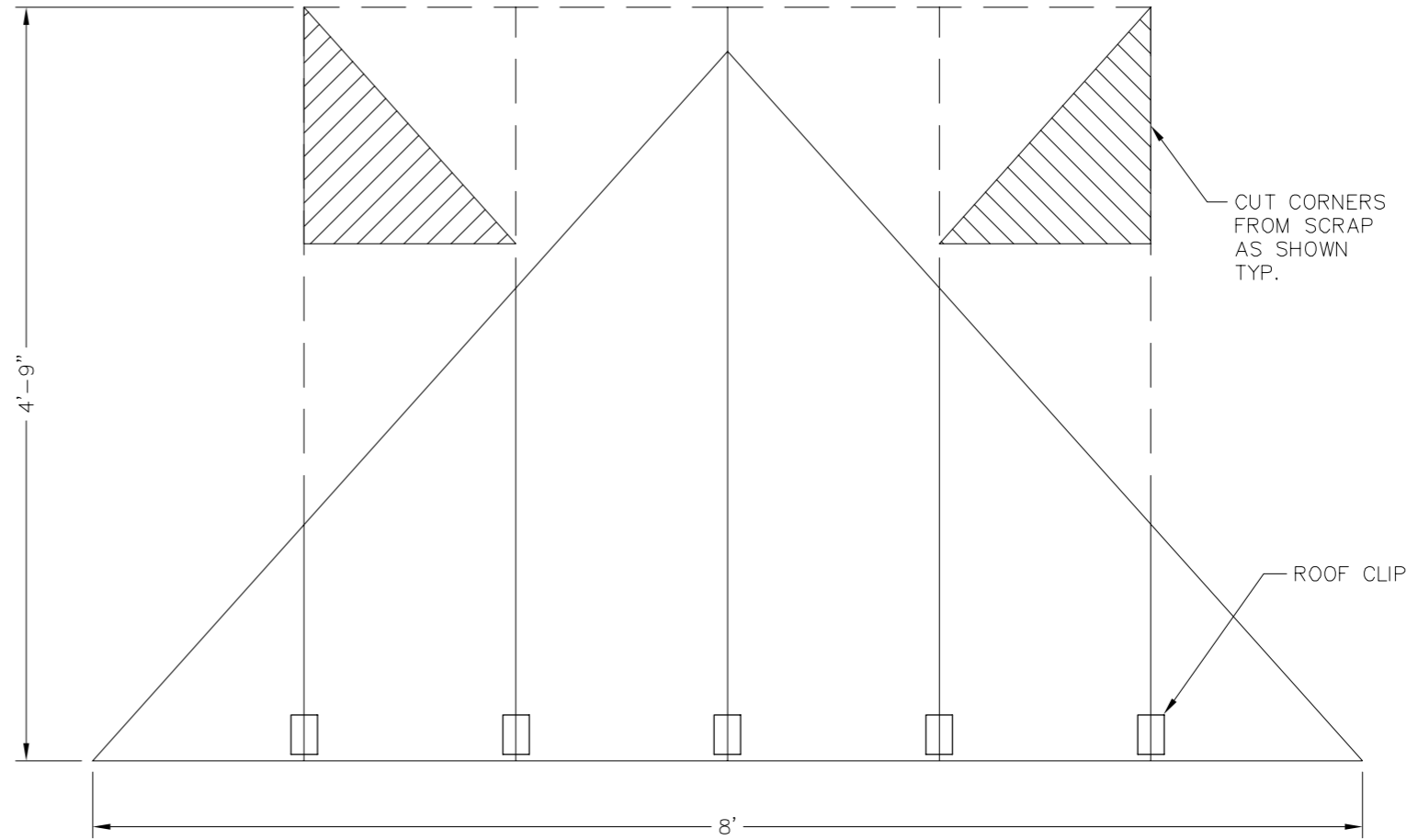
THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

ERECTORS SHALL BE RESPONSIBLE TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.

FOR THE BEST APPEARANCE ALL TRIM AND FLASHING SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ALL EXPOSED FASTENERS EQUALLY SPACED.

SOME FIELD CUTTING AND/OR FITTING OF PANELS, TRIM AND FLASHING IS TO BE EXPECTED BY THE ERECTOR. MINOR FIELD CORRECTIONS ARE PART OF NORMAL ERECTION WORK.

THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.

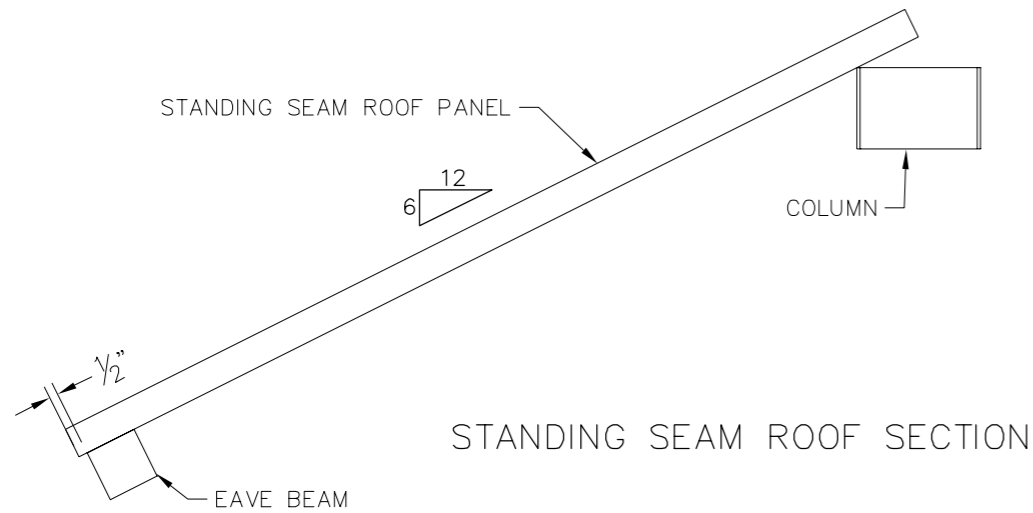


STANDING SEAM ROOF LAYOUT

ATTENTION INSTALLERS:
METAL SHAVINGS LEFT ON ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH!

DRILLING OR INSTALLING ROOF FASTENERS WILL CAUSE METAL SHAVINGS. THESE SHAVINGS MUST BE CAREFULLY REMOVED AT THE END OF EACH DAY BY EITHER SWEEPING OR BRUSHING THE INSTALLED ROOF.

****INSTALLER TO FIELD CUT ALL ROOF PANELS****



STANDING SEAM ROOF SECTION

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TSS8S-P6-STP

PROJECT NAME:

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SHEET

6.0

QF-73-01-43
Engineering\AcadStandard\Blocks\Titles\CONSUB1B

Roof Connections

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9/7/17

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REVISION:

BUILDING TYPE:

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PROJECT NAME:

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 CEDAR HILLS, UT

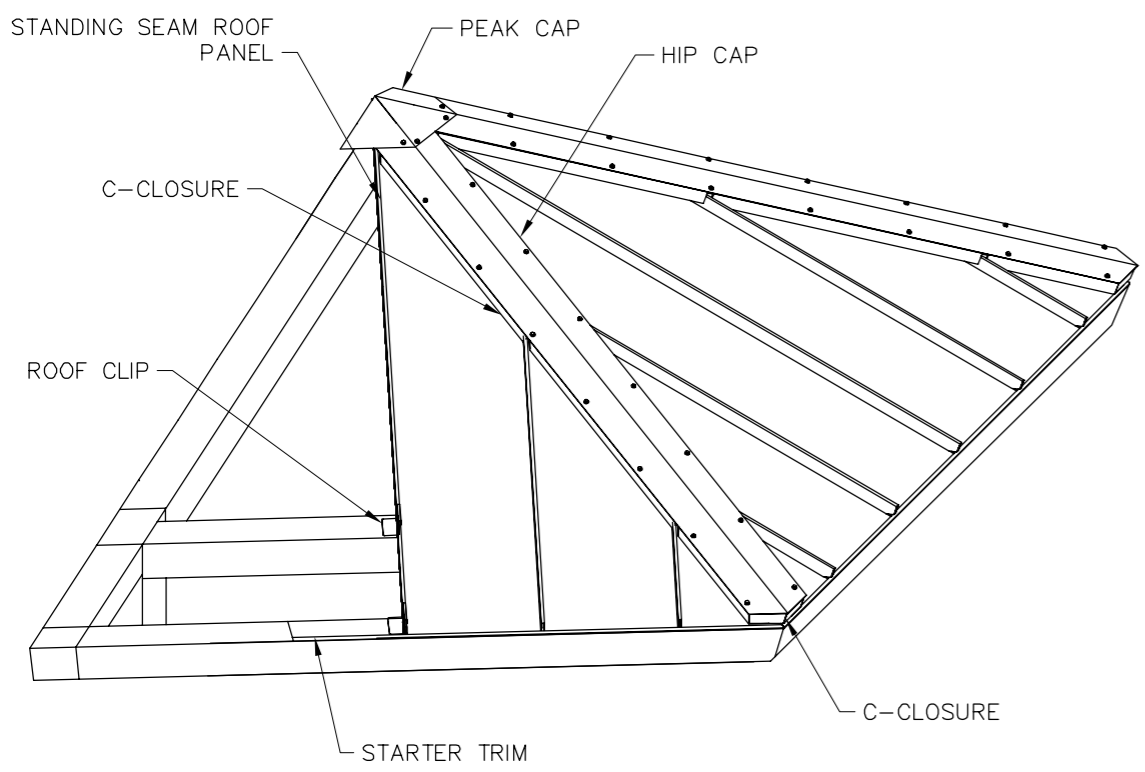
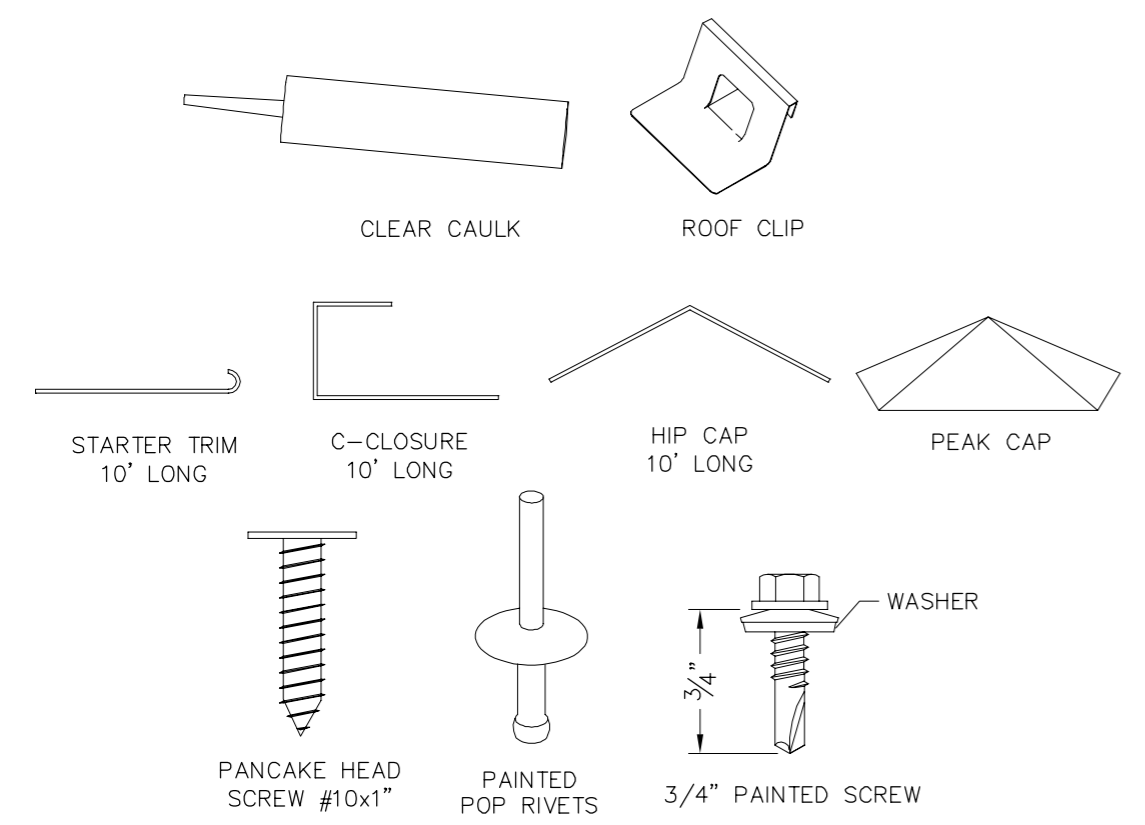
SHEET

7.0

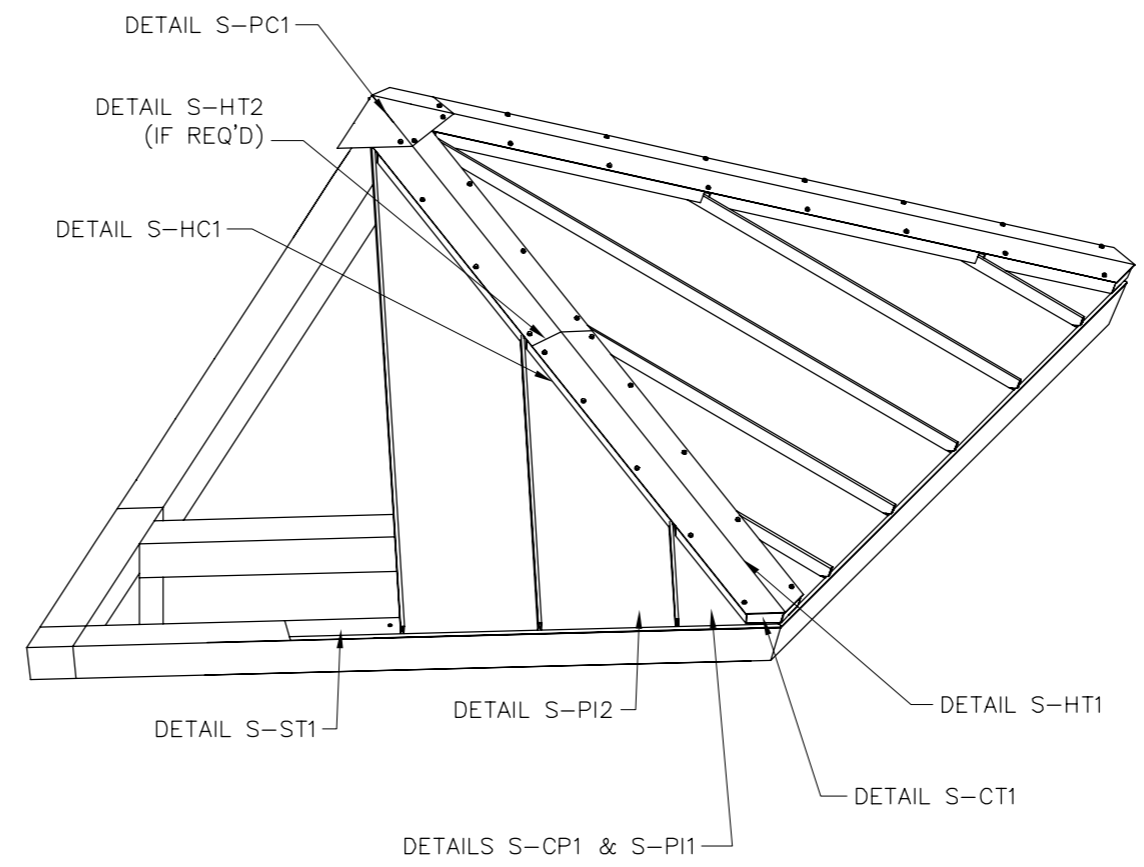
THESE DETAILS ASSUME THAT ALL COMPONENTS OF THIS ROOF SYSTEM WILL BE INSTALLED PLUMB AND SQUARE. CAULK AND TRIM SHOULD ALSO BE INSTALLED TO INSURE WATER TIGHTNESS

READ ALL DETAILS IN THIS INSTALLATION MANUAL BEFORE STARTING

- S-ST1 STARTER TRIM
- S-CP1 ROOF PANEL PREPARATION
- S-PI1 FIRST ROOF PANEL
- S-PI2 SECOND ROOF PANEL
- S-HC1 C-CLOSURE
- S-CT1 CORNER TRIM
- S-HT1 HIP CAP
- S-HT2 LAPPING HIP CAP (IF REQ'D)
- S-PC1 PEAK CAP



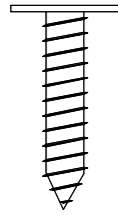
TRIM REFERENCE



ORDER OF INSTALLATION

DWG: 5492 - TSS8S-P6-STP - Bayhill\EngineeringInfo\Drawings\Submittals\TSS8S-P6-43-115-120.5~49620.DWG

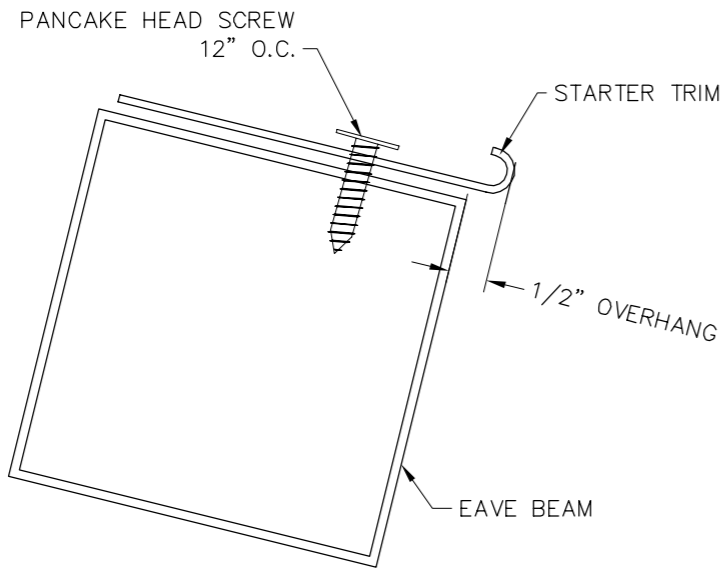
INSTALL STARTER TRIM OVERHANGING THE EDGE OF THE EAVE BEAM 1/2".
ATTACH STARTER TRIM WITH PANCAKE HEAD SCREWS 12" O.C.



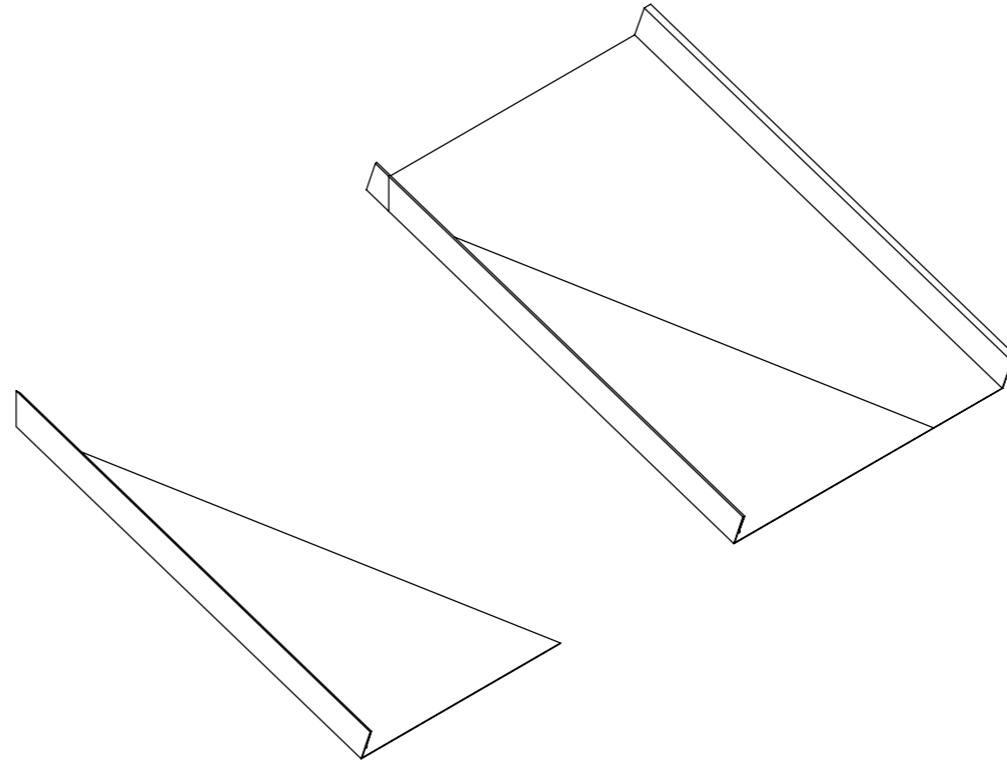
PANCAKE HEAD SCREW #10x1"



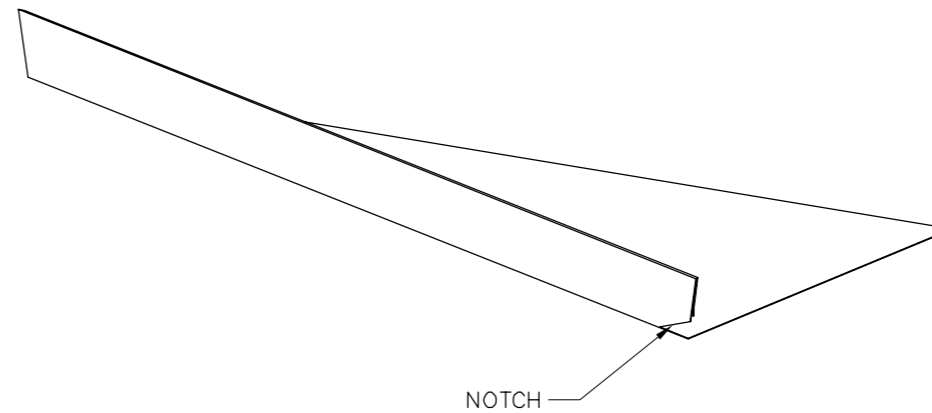
STARTER TRIM



MEASURE, MARK & CUT THE FIRST ROOF PANEL



NOTCH RIB TO ALLOW PANEL TO SLIDE INTO STARTER TRIM



Roof Connections

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7.1

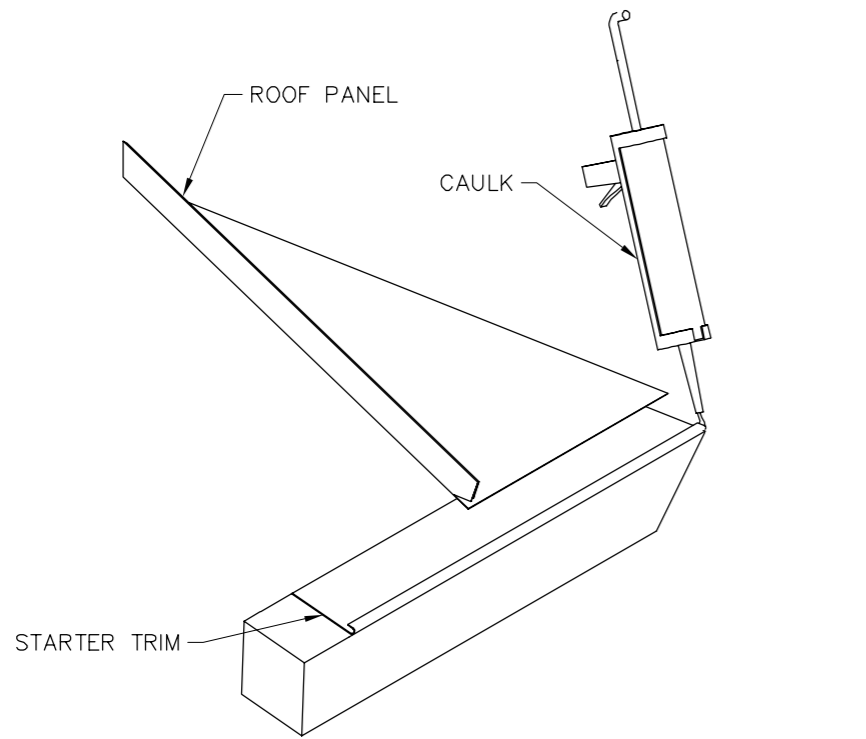
STARTER INSTALLATION

S-ST1

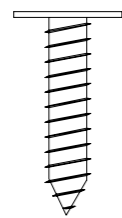
FIELD CUTTING ROOF PANELS

S-CP1

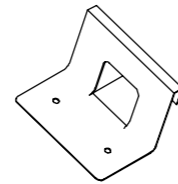
AFTER THE ROOF PANEL HAS BEEN CUT TO SIZE (IF NECESSARY) AND NOTCHED, TEST FIT THE PANEL. THEN APPLY A BEAD OF CAULK THE APPROXIMATE LENGTH OF THE PANEL. SLIDE THE PANEL INTO PLACE, AND SQUARE IT UP TO THE ROOF.



WITH THE ROOF PANEL IN PLACE AND SQUARE, INSTALL THE ROOF CLIPS WITH (2) PANCAKE HEAD SCREWS.

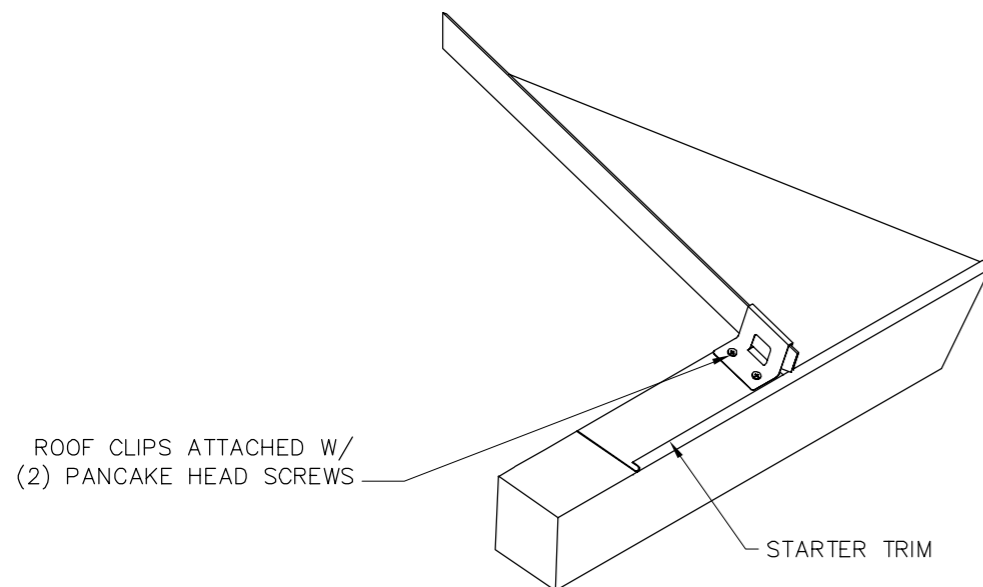


PANCAKE HEAD SCREW #10x1"



ROOF CLIP (2) SCREWS

ROOF CLIPS ARE INSTALLED AT EVERY CROSS MEMBER

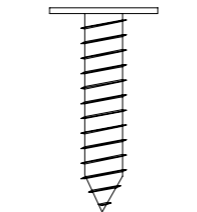
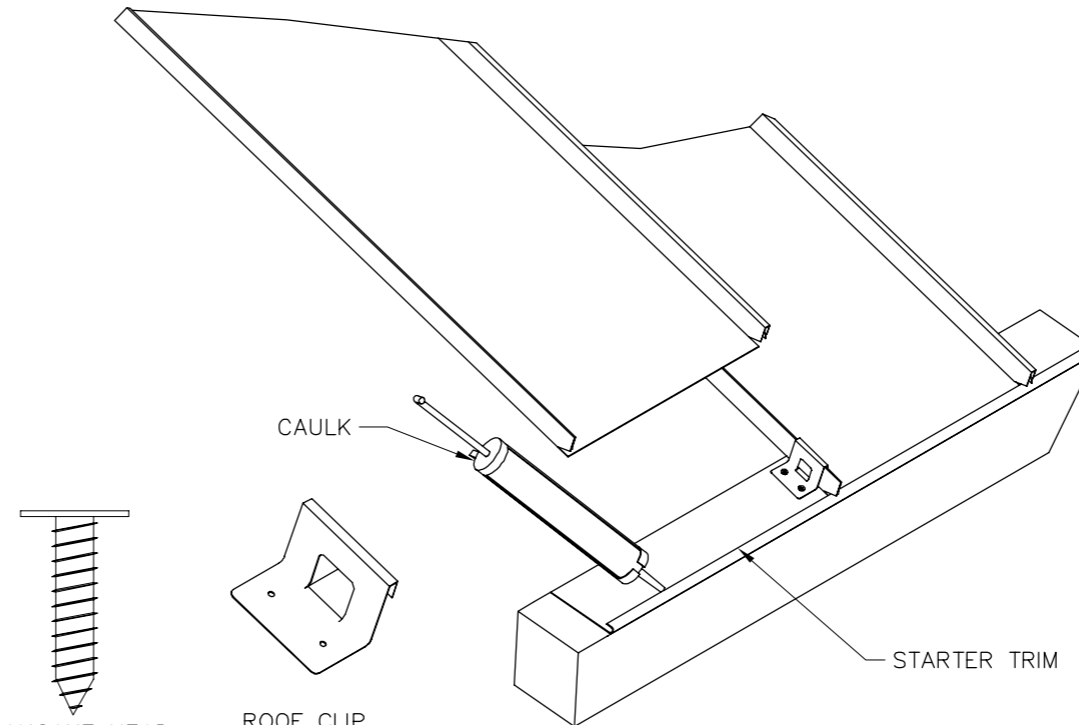


INSTALLATION OF FIRST ROOF PANEL

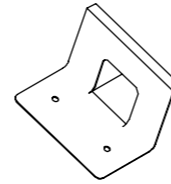
S-PI1

AFTER THE SECOND ROOF PANEL HAS BEEN CUT TO LENGTH (IF NECESSARY) AND NOTCHED, TEST FIT PANEL. THEN APPLY A BEAD OF CAULK INSIDE THE STARTER TRIM

SLIDE THE SECOND ROOF PANEL IN PLACE AND SNAP IT OVER THE BATTEN OF THE FIRST PANEL

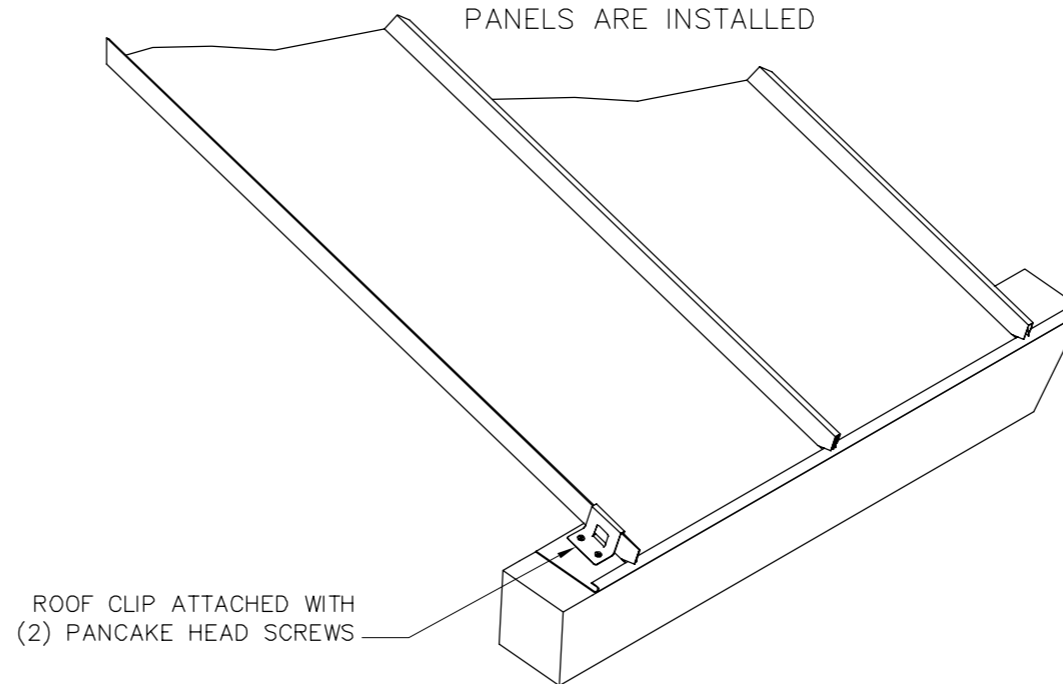


PANCAKE HEAD SCREW #10x1"



ROOF CLIP (2) SCREWS

WITH THE SECOND ROOF PANEL IN PLACE AND SQUARE, INSTALL THE ROOF CLIPS WITH (2) PANCAKE HEAD SCREWS. REPEAT THIS STEP UNTIL ALL ROOF PANELS ARE INSTALLED



INSTALLATION OF SECOND ROOF PANEL

S-PI2

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Roof Connections

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BUILDING TYPE:

TSS8S-P6-STP

PROJECT NAME:

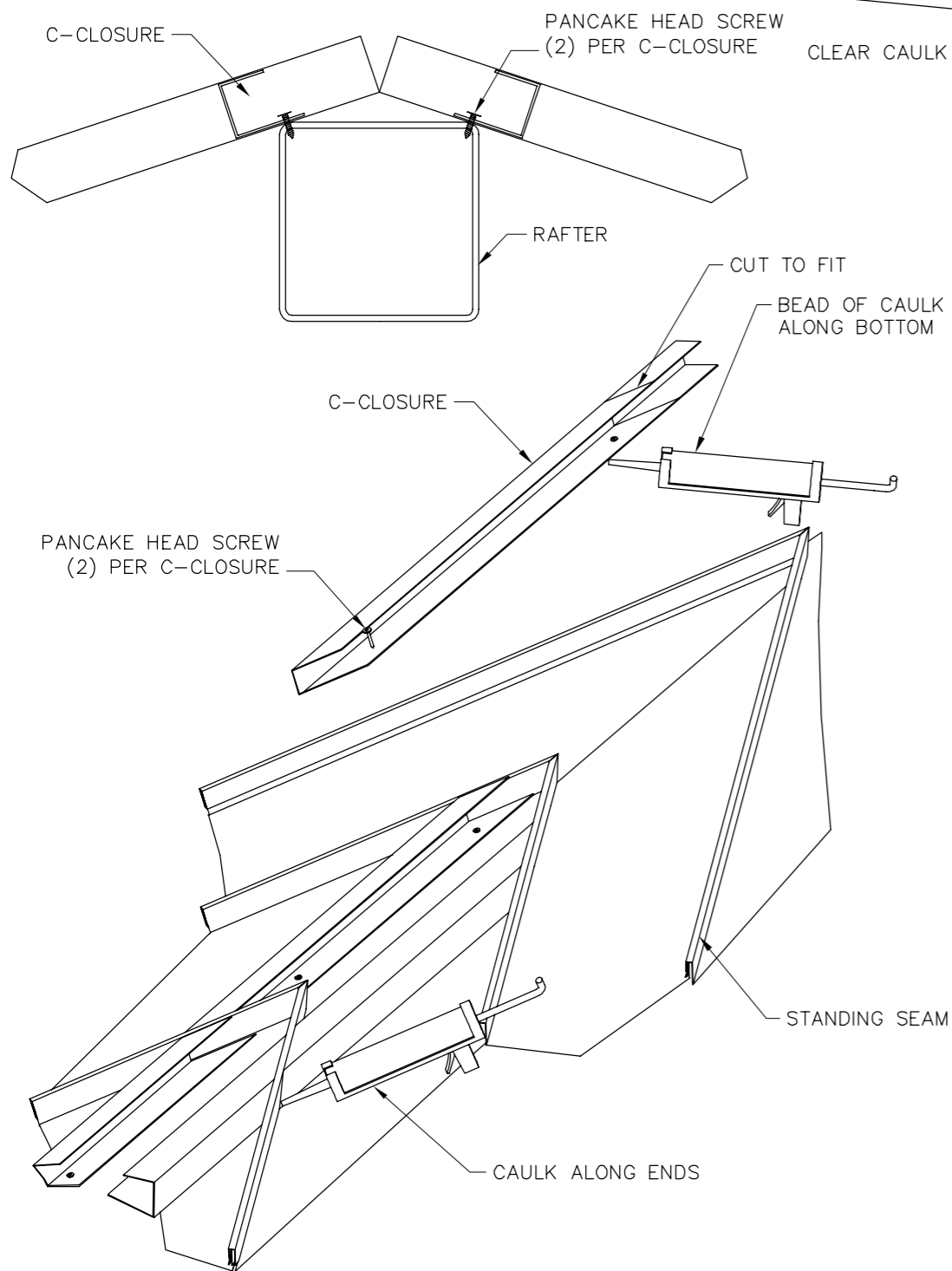
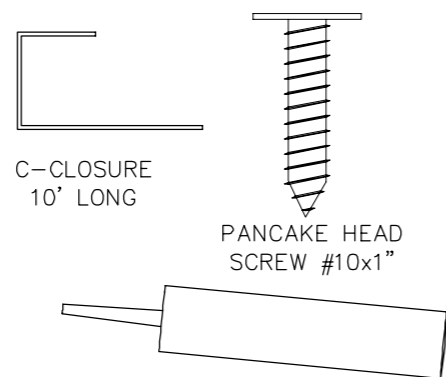
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SHEET

7.2

TO INSTALL C-CLOSURES ALONG THE HIP, MARK & CUT THE C-CLOSURE TO LENGTH

APPLY A BEAD OF CAULK TO THE BOTTOM OF THE C-CLOSURE AND FASTEN IT TO THE ROOF WITH (2) PANCAKE HEAD SCREWS ALONG THE RAFTER. THEN APPLY CAULK TO THE END OF THE C-CLOSURE FOR WATER TIGHTNESS



INSTALLATION OF HIP C-CLOSURE

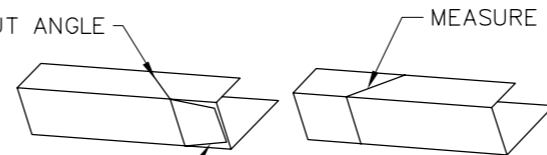
S-HC1

TO FINISH OFF THE END OF THE HIP, MAKE A CORNER CAP BY CUTTING TWO PIECES OF C-CLOSURE TO LENGTH

MEASURE AND CUT A MITER AND CORNER TAB ON (1) PIECE OF C-CLOSURE

CUT AN OPPOSITE MITER ON THE SECOND C-CLOSURE

MEASURE & CUT ANGLE

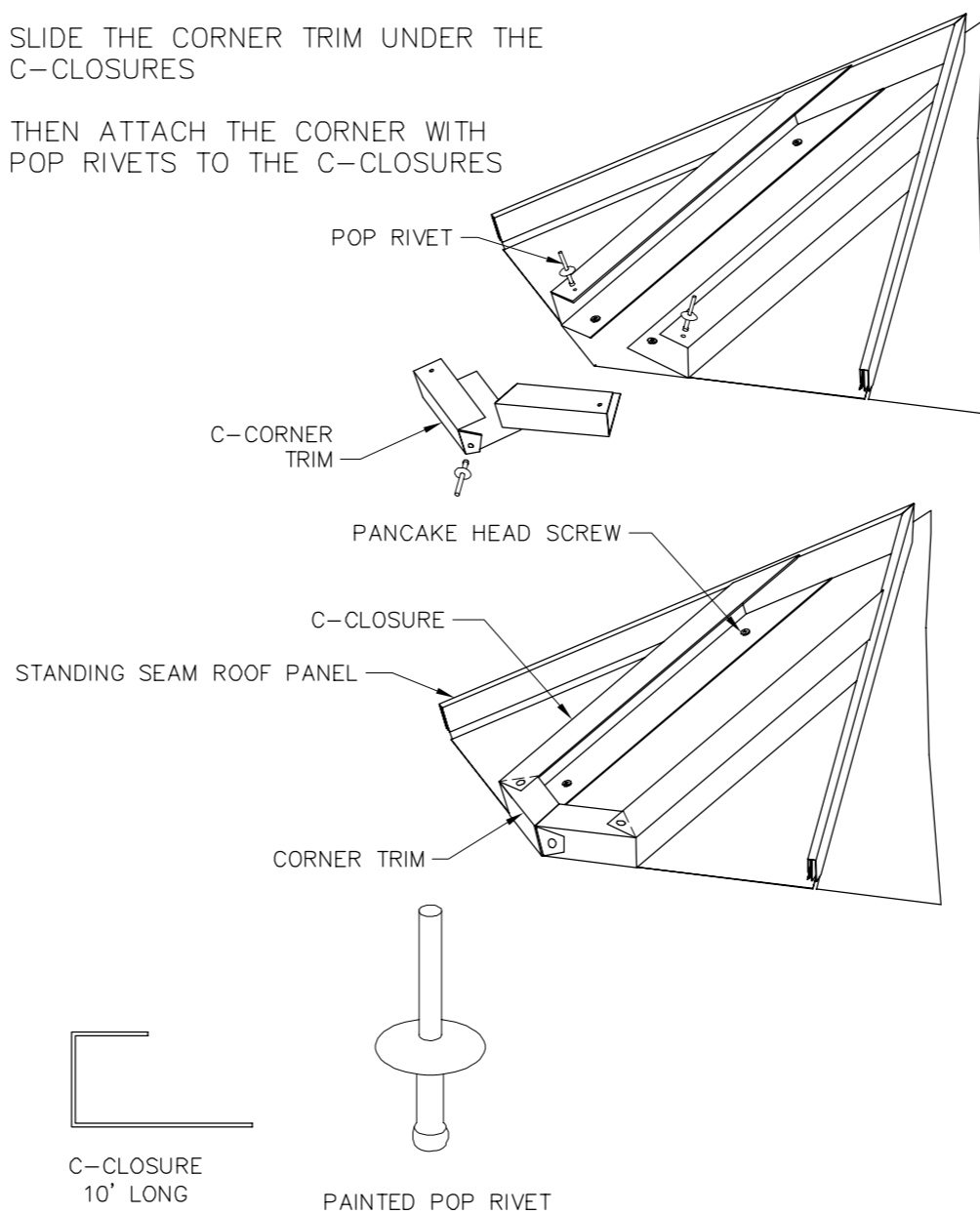


NOTCH OUT CORNER TAB

APPLY A BEAD OF CAULK TO THE BOTTOM OF THE CORNER TRIM

SLIDE THE CORNER TRIM UNDER THE C-CLOSURES

THEN ATTACH THE CORNER WITH POP RIVETS TO THE C-CLOSURES



INSTALLATION OF CORNER TRIM

S-CT1

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BUILDING TYPE:

TSS8S-P6-STP

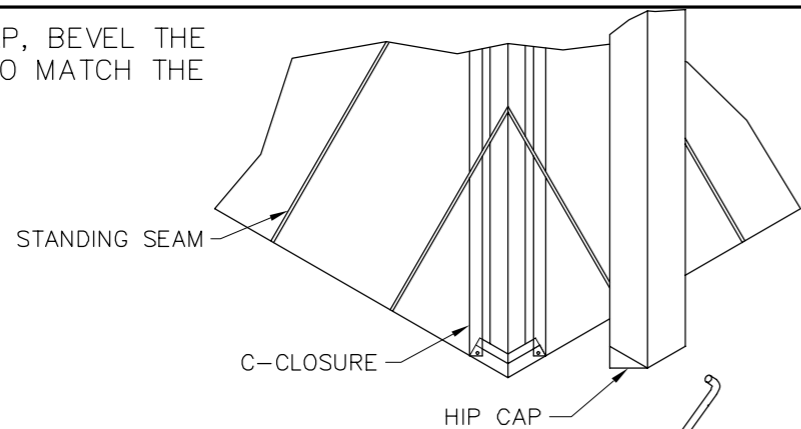
PROJECT NAME:

BAYHILL
CEDAR HILLS, UT

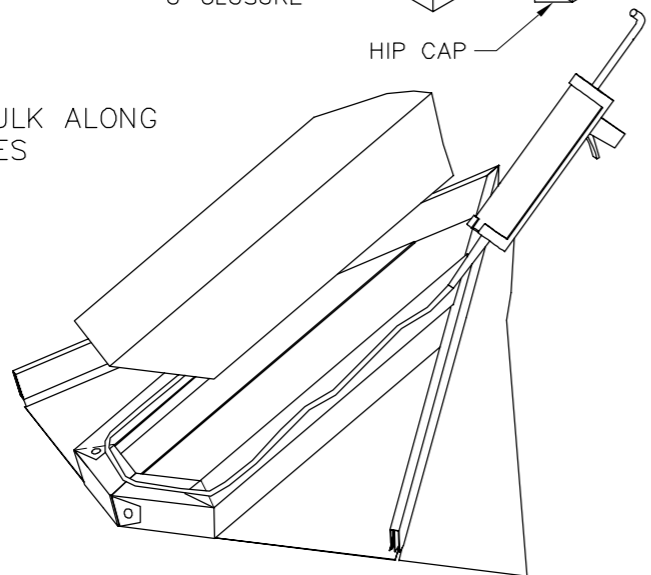
SHEET

7.3

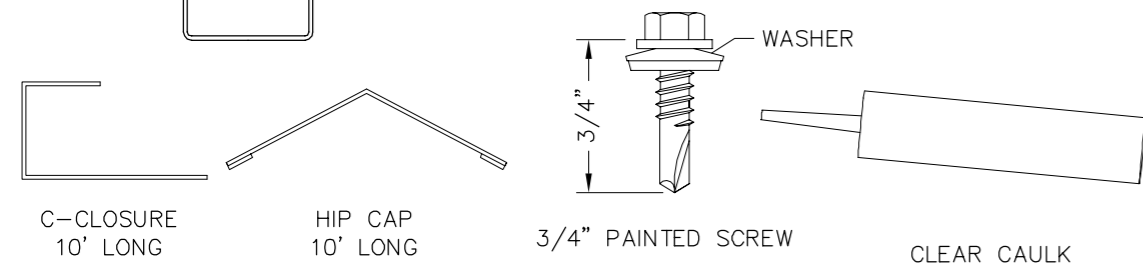
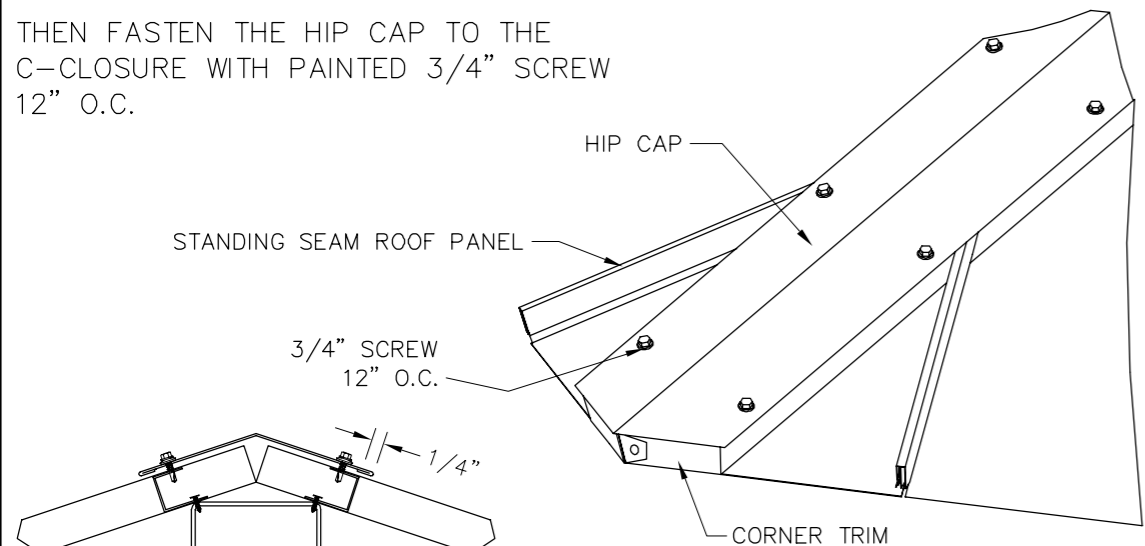
TO INSTALL THE HIP CAP, BEVEL THE END OF THE HIP CAP TO MATCH THE ANGLE OF THE ROOF



NEXT APPLY A BEAD OF CAULK ALONG THE TOP OF THE C-CLOSURES



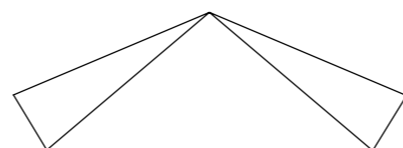
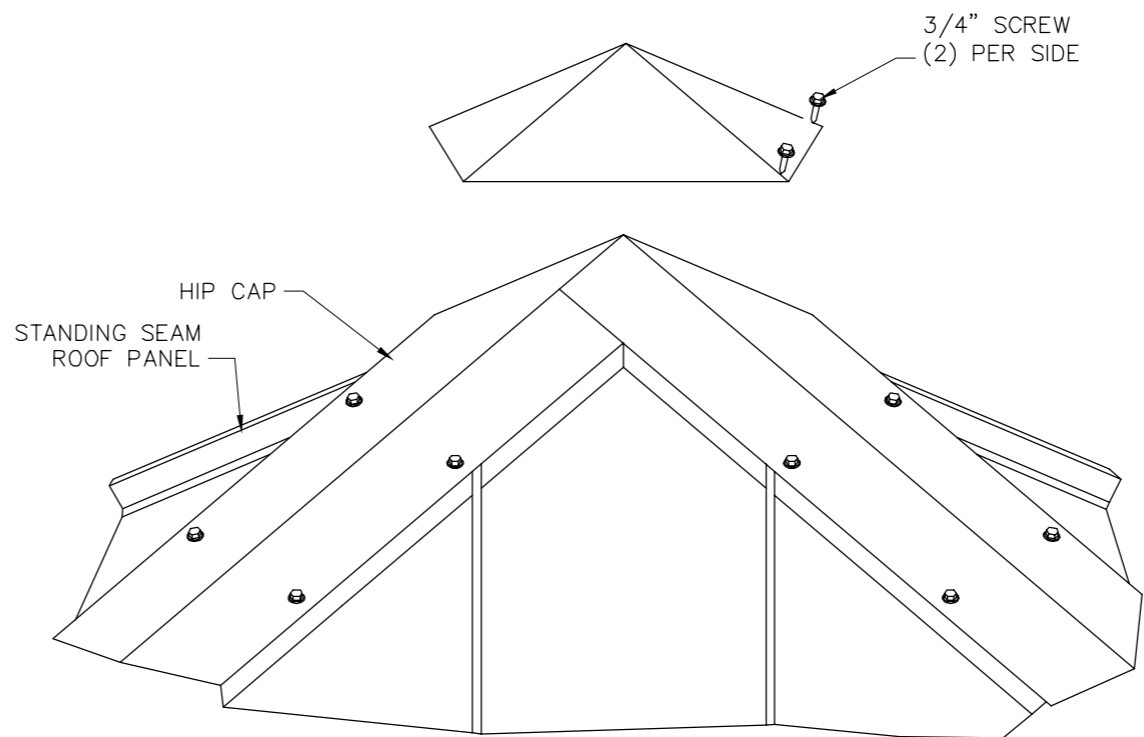
THEN FASTEN THE HIP CAP TO THE C-CLOSURE WITH PAINTED 3/4" SCREW 12" O.C.



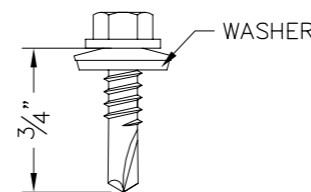
INSTALLATION OF HIP CAP

S-HT1

FASTEN THE ROOF PEAK CAP WITH (2) 3/4" PAINTED SCREWS ON EACH SIDE



ROOF PEAK CAP



3/4" PAINTED SCREW

PEAK CAP

S-PC1

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HOLLAND MI, 49423
616.396.0919
800.748.0985
616.396.0944 FX

Roof Connections

DRAWN BY:

JSW

DATE:

9/7/17

JOB NO.:

5492

REVISION:

BUILDING TYPE:

TSS8S-P6-STP

PROJECT NAME:

BAYHILL
CEDAR HILLS, UT

SHEET

7.4