

JOB NUMBER: 5493  
 JOB NAME: BAYHILL  
 JOB LOCATION: CEDAR HILLS UT

REVISION: \_\_\_\_\_

**ICON**  
 Shelter Systems Inc  
 DISTINCTIVE STEEL SHELTERS  
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 1455 LINCOLN AVE.  
 HOLLAND MI, 49423  
 616.396.0919  
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 616.396.0944 FX

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**DESIGN LOADS**

CODE: 2015 INTERNATIONAL BUILDING CODE  
 TOTAL DEAD: 17.37 P.S.F.  
 FRAME DEAD: 11.37 P.S.F.  
 ROOF DEAD: 3.50 P.S.F.  
 COLLATERAL DEAD: 2.50 P.S.F.  
 ROOF LIVE LOAD: 20.00 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.

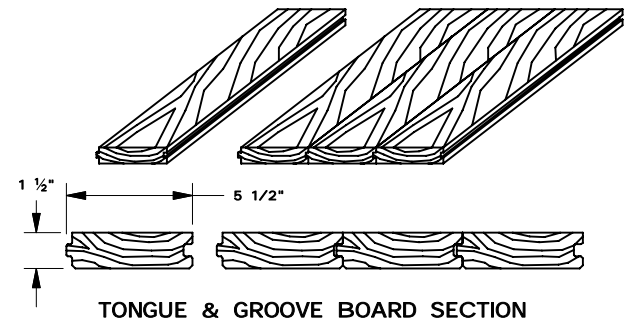
ICON SHELTER SYSTEMS INC. RECOMMENDS THAT THE PRIMARY FRAMING INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM OF FIVE (5) YEARS OF DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

**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.

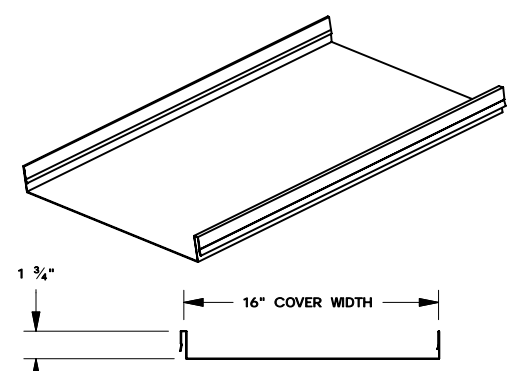
IT IS THE RESPONSIBILITY OF THE INSTALLER TO INSURE PROPER TIGHTNESS.

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**



TONGUE & GROOVE BOARD SECTION



24ga MEDALLION LOK STANDING SEAM PANEL SECTION

Cover Sheet

|                |                            |
|----------------|----------------------------|
| DRAWN BY:      | lisam                      |
| DATE:          | 8/30/2017                  |
| JOB NO.:       | 5493                       |
| REVISION:      |                            |
| BUILDING TYPE: | RG10X34TS- P4              |
| PROJECT NAME:  | BAYHILL<br>CEDAR HILLS, UT |

SHEET  
**1.0**



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Elevation

DRAWN BY:

lisam

DATE:

8/30/2017

JOB NO.:

5493

REVISION:

BUILDING TYPE:

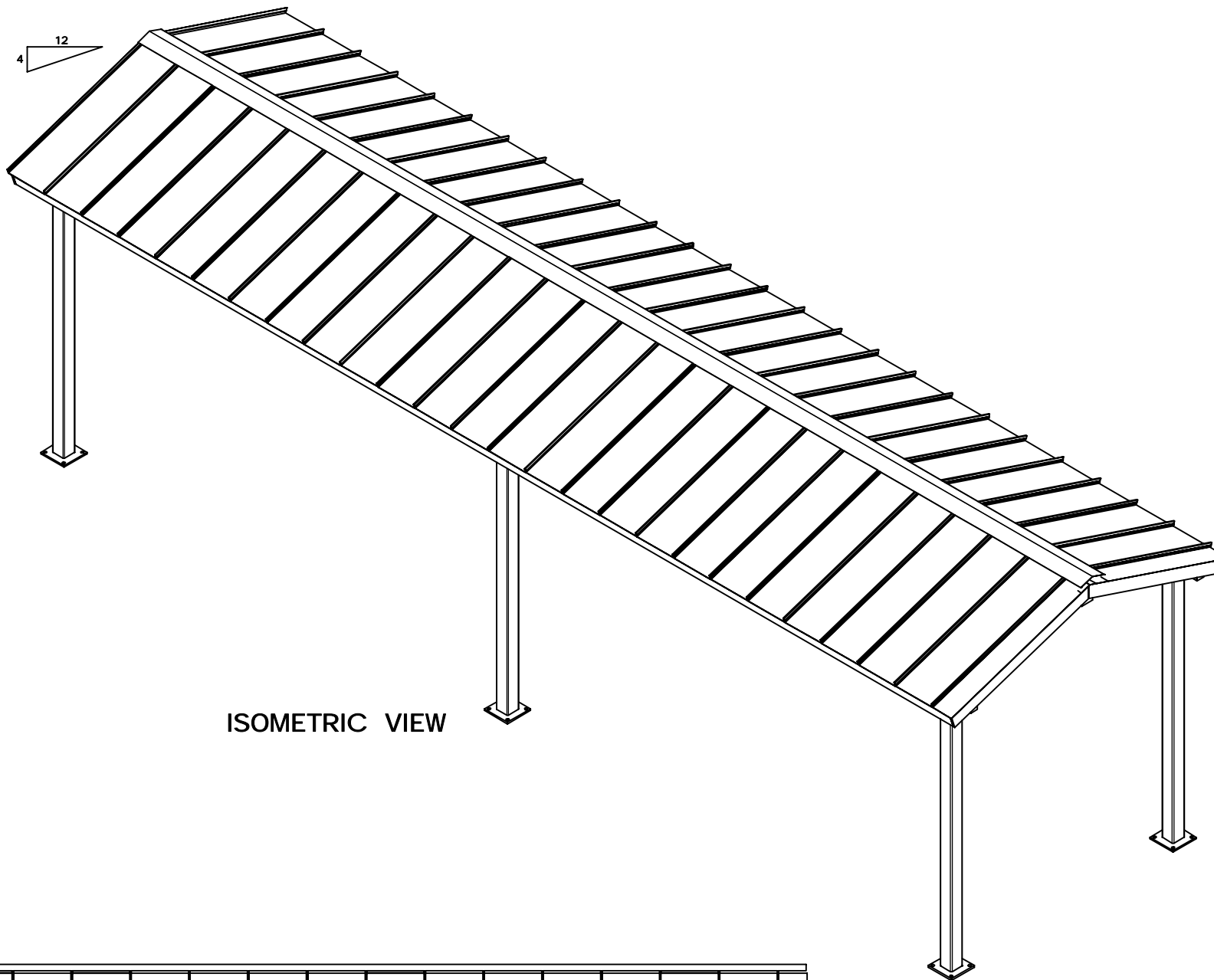
RG10X34TS- P4

PROJECT NAME:

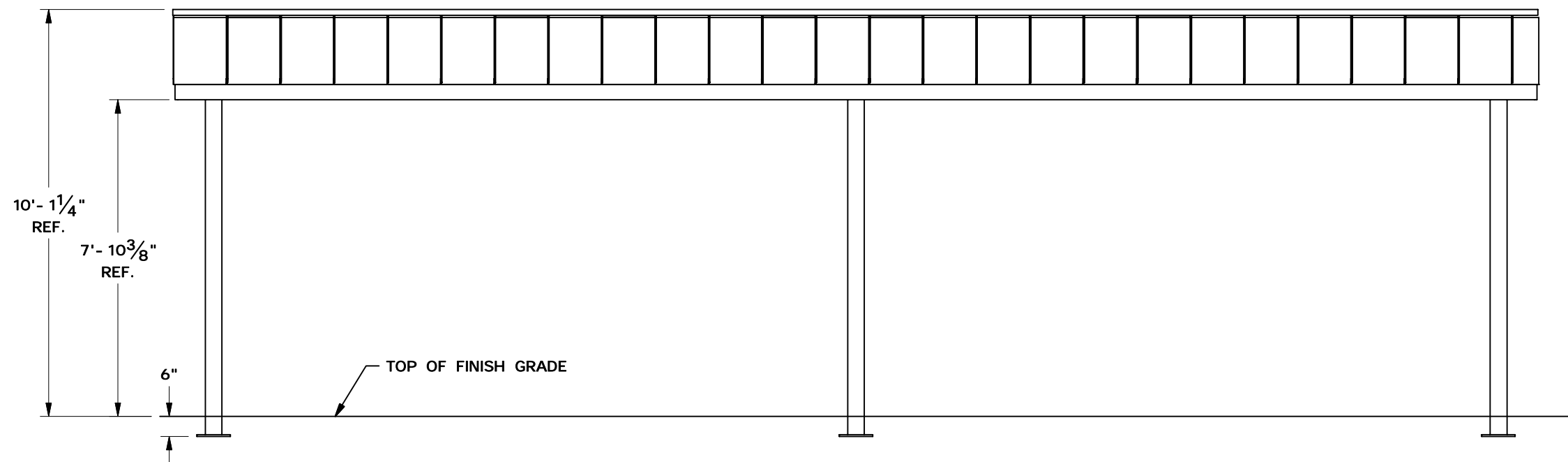
BAYHILL  
CEDAR HILLS, UT

SHEET

2.0



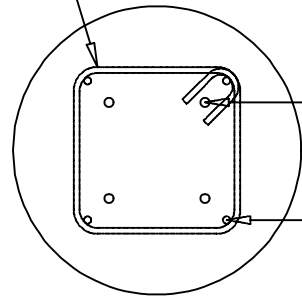
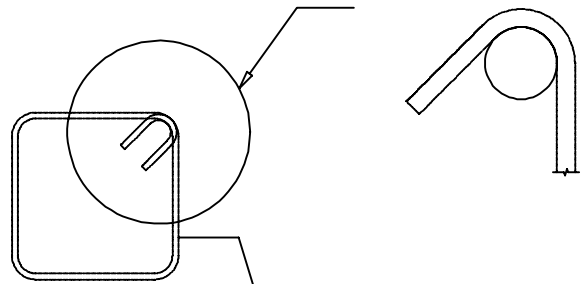
ISOMETRIC VIEW



FRONT VIEW

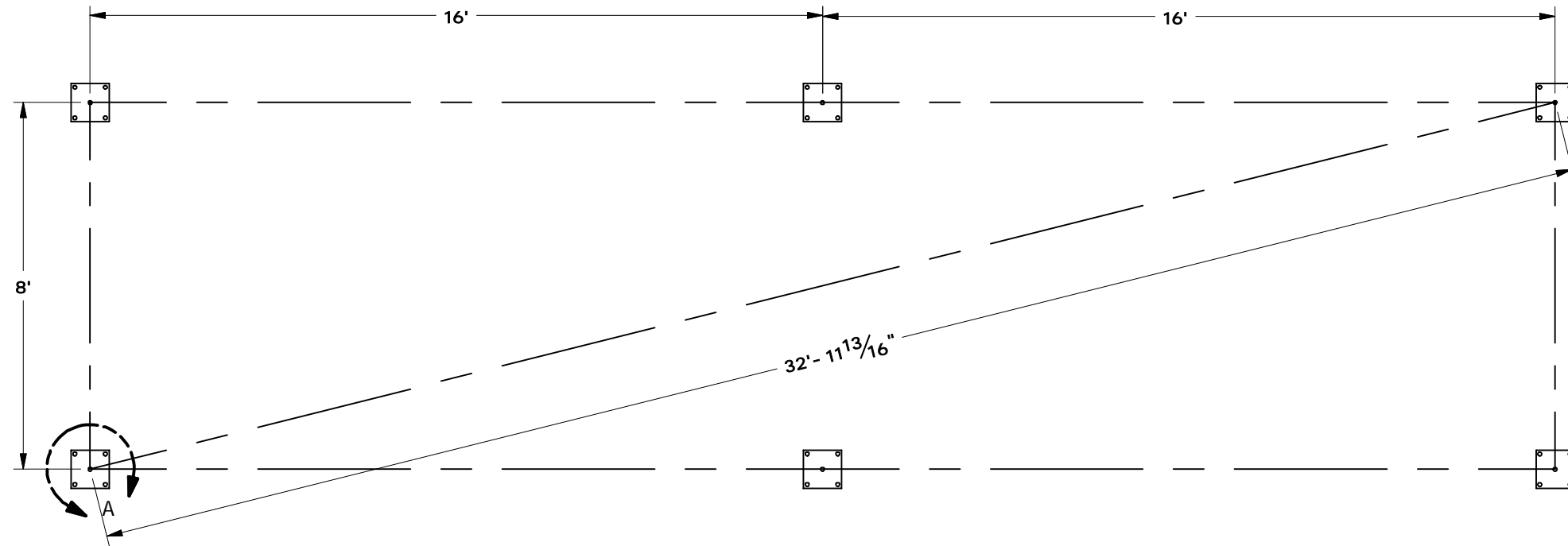
CONCRETE STRENGTH  $F'_c = 2500$  PSI  
 REBAR GRADE  $F_y = 60$  KSI  
 SLAB IS REQUIRED. IF NO SLAB IS TO BE  
 INSTALLED, CONTACT THE ICON ENGINEERING  
 DEPARTMENT.

SEISMIC TIE HOOK DETAIL



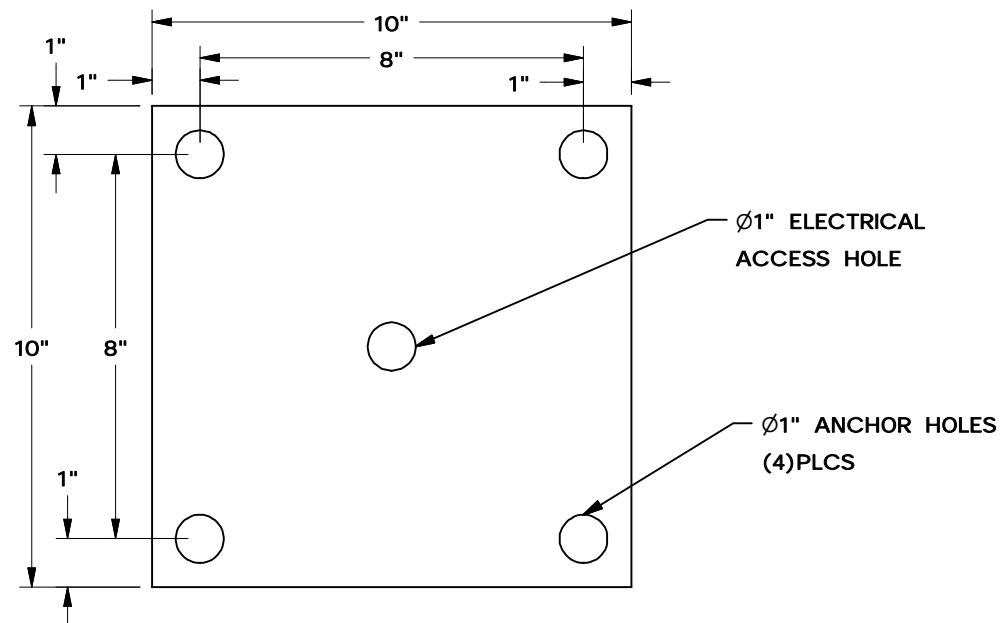
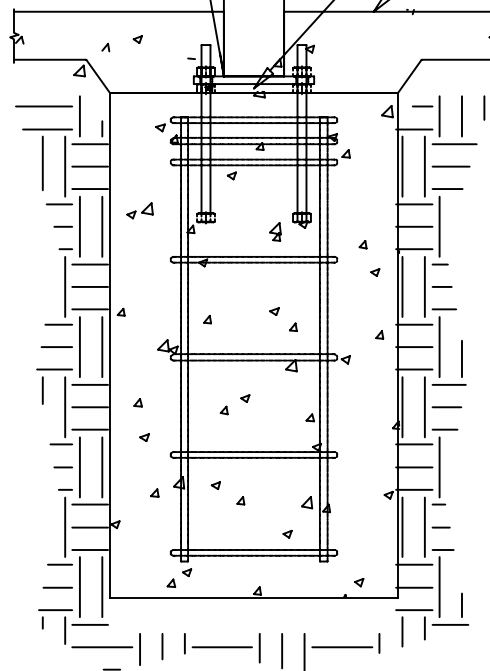
(4) 3/4"x 14" F1554 ANCHOR RODS

(4) #5  
 LONGITUDINAL  
 BARS



ANCHOR BOLT LAYOUT

COLUMN TO BASE PLATE 3/16  
 COLUMN  
 FILL WITH NON-SHRINKING GROUT  
 TOP OF FINISHED FLOOR



BASE PLATE MATERIAL  
 5/8" THICK HRF.  $F_y = 36$  ksi  
 DETAIL A

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Anchor Bolt Layout

DRAWN BY:

lisam

DATE:

8/30/2017

JOB NO.:

5493

REVISION:

BUILDING TYPE:

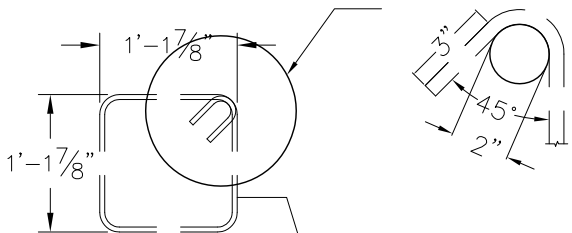
RG10X34TS- P4

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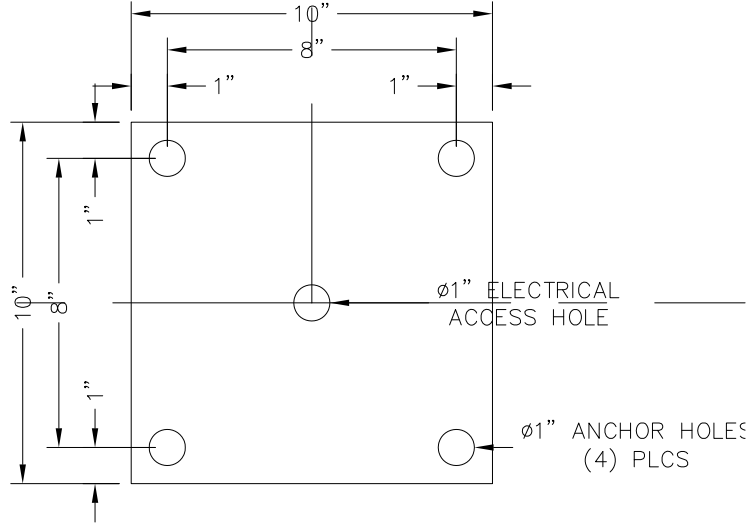
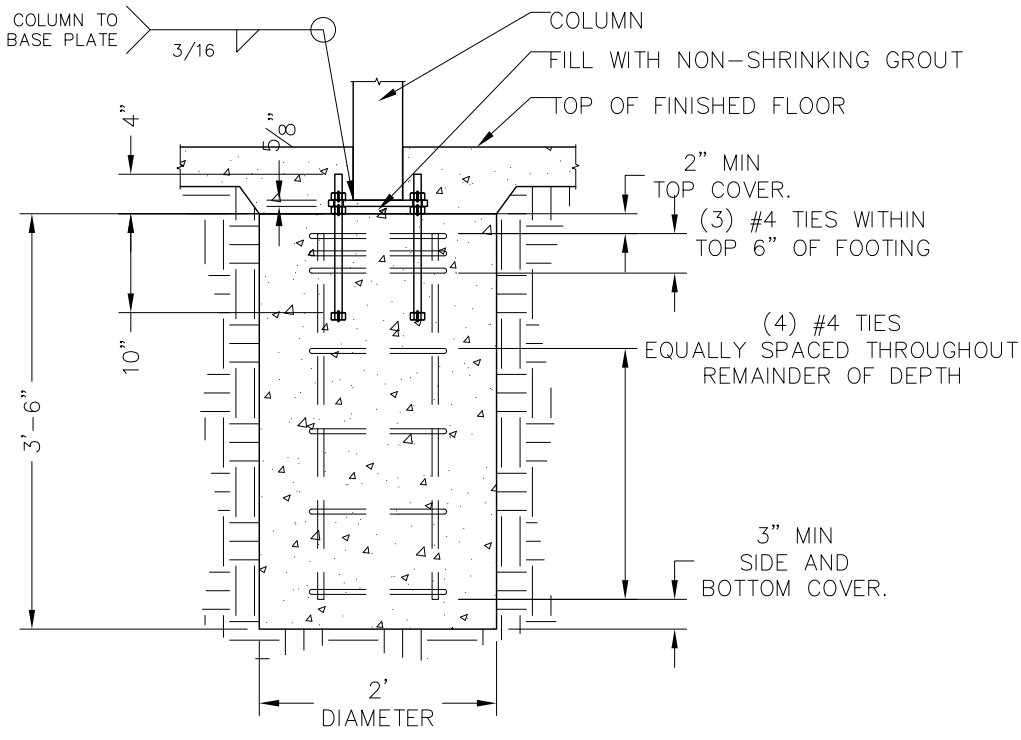
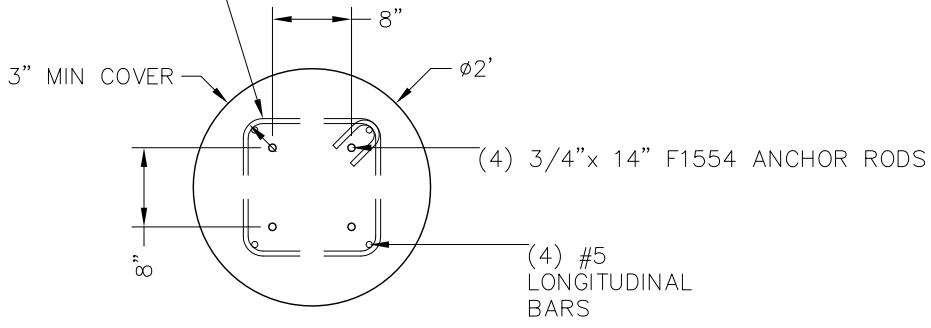
BAYHILL  
 CEDAR HILLS, UT

SHEET

**3.0**



CONCRETE STRENGTH  $F'_c = 2500$  PSI  
 REBAR GRADE  $F_y = 60$  KSI  
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 DEPARTMENT.



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 Engineering\AcadStandard\Blocks\CONFOOTING

| ITEM | QTY | PART NUMBER | DESCRIPTION      | MASS  | STOCK              |
|------|-----|-------------|------------------|-------|--------------------|
| 1    | 6   |             | COLUMN           | 125.2 | HSS5X5X0.1875      |
| 2    | 6   |             | RAFTER           | 40.1  | HSS5X5X.125        |
| 3    | 2   |             | TIE BEAM-RH      | 110.5 | HSS4X3X0.125       |
| 4    | 2   |             | TIE BEAM-LH      | 110.5 | HSS4X3X0.125       |
| 5    | 3   |             | CONNECTION TUBE  | 14.0  | HSS5X5X0.5, 5.833L |
| 6    | 2   |             | RIDGE BEAM       | 135.1 | HSS5X5X0.125       |
| 7    | 2   |             | RIDGE BEAM TAIL  | 10.1  | HSS5X5X0.125       |
| 8    | 2   |             | TIE BEAM TAIL-RH | 6.8   | HSS4X3X0.125       |
| 9    | 2   |             | TIE BEAM TAIL-LH | 110.5 | HSS4X3X0.125       |

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Frame Layout

DRAWN BY:

lisam

DATE:

8/30/2017

JOB NO.:

5493

REVISION:

BUILDING TYPE:

RG10X34TS- P4

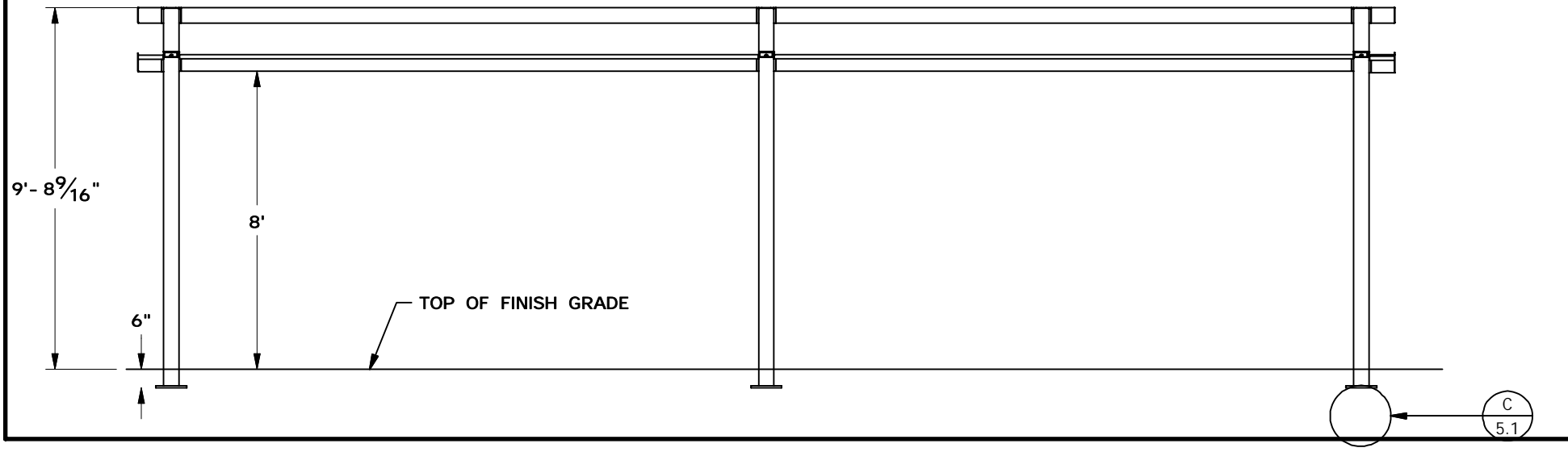
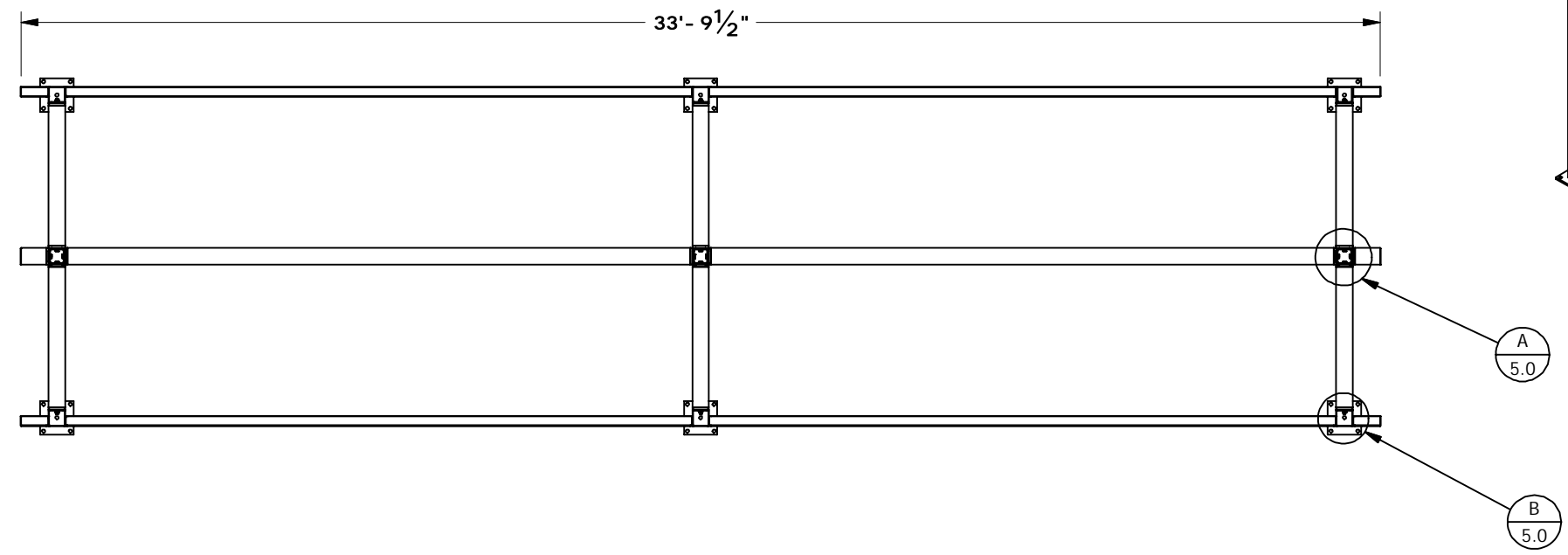
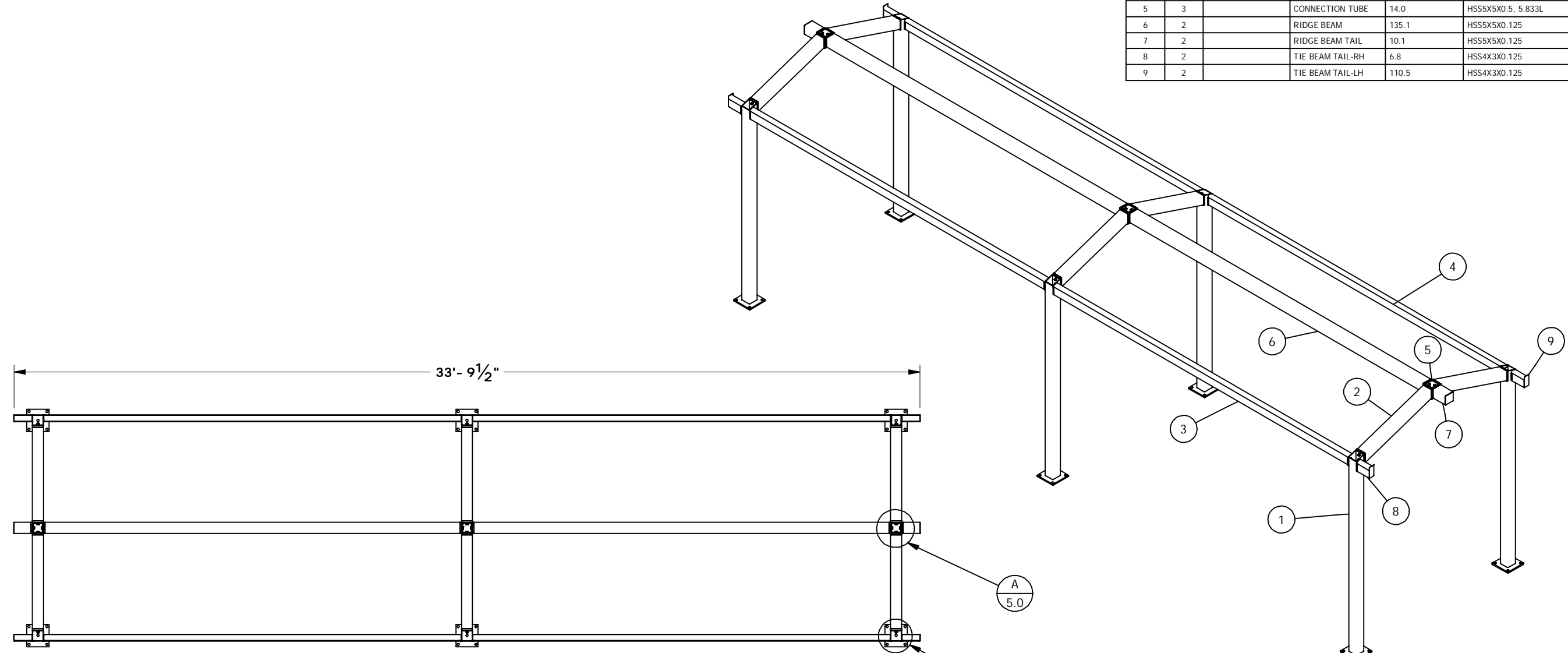
PROJECT NAME:

BAYHILL  
 CEDAR HILLS, UT

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**4.0**

PRINTED ON : 8/30/2017



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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

DRAWN BY:

lisam

DATE:

8/30/2017

JOB NO.:

5493

REVISION:

BUILDING TYPE:

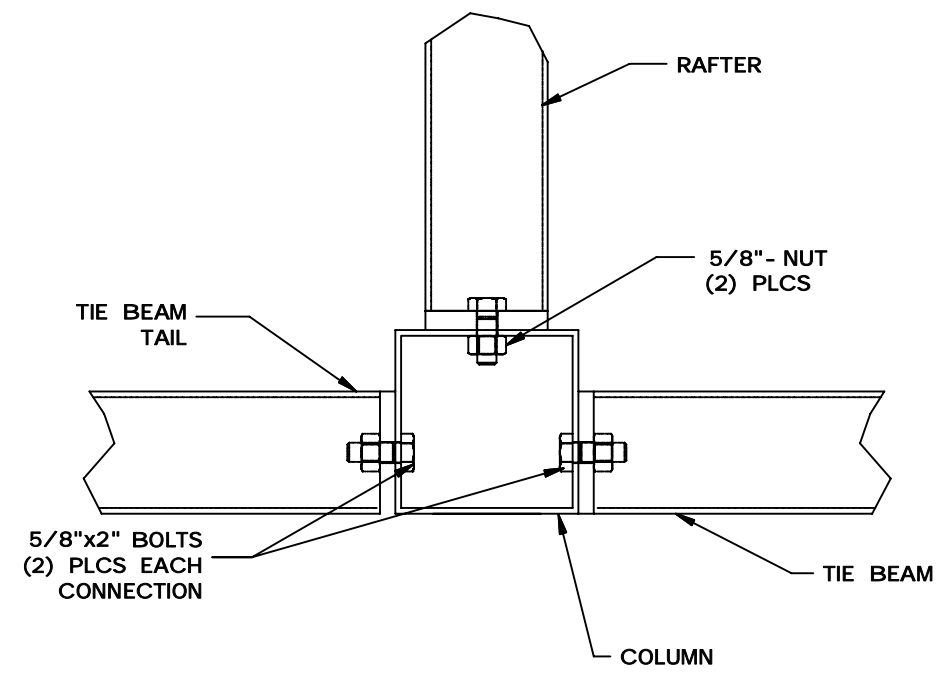
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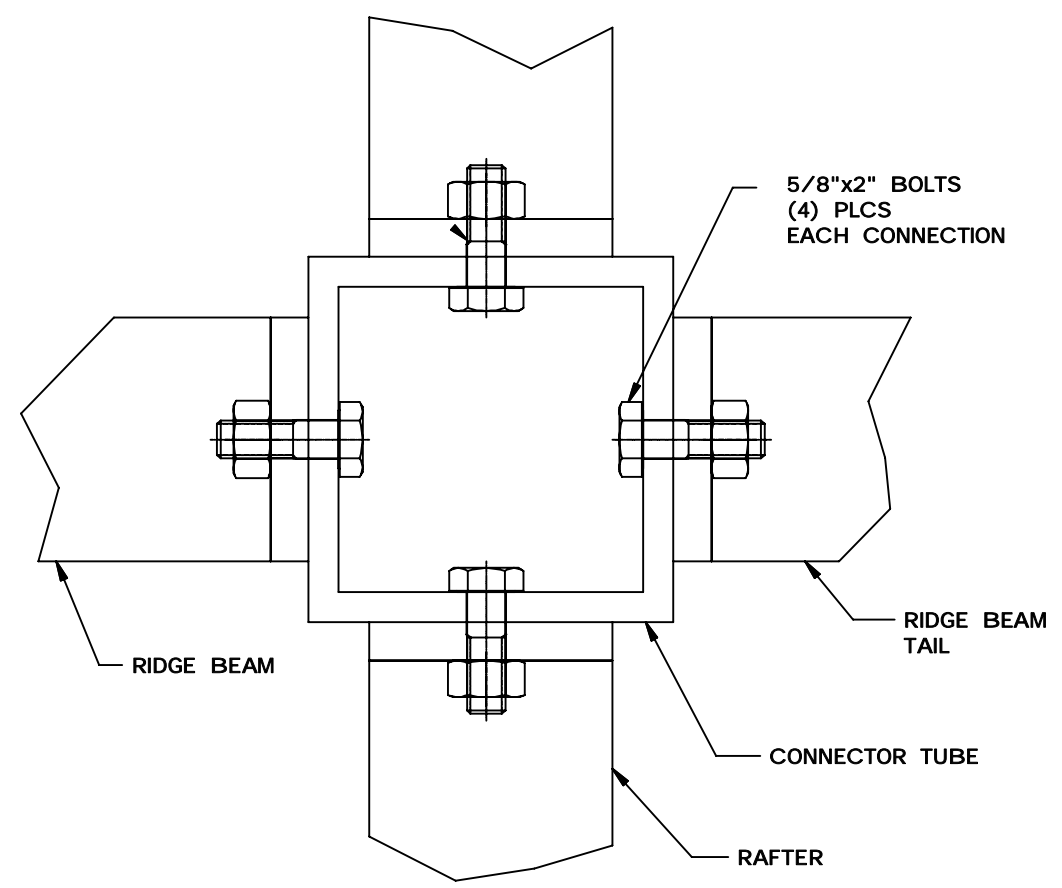
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**5.0**

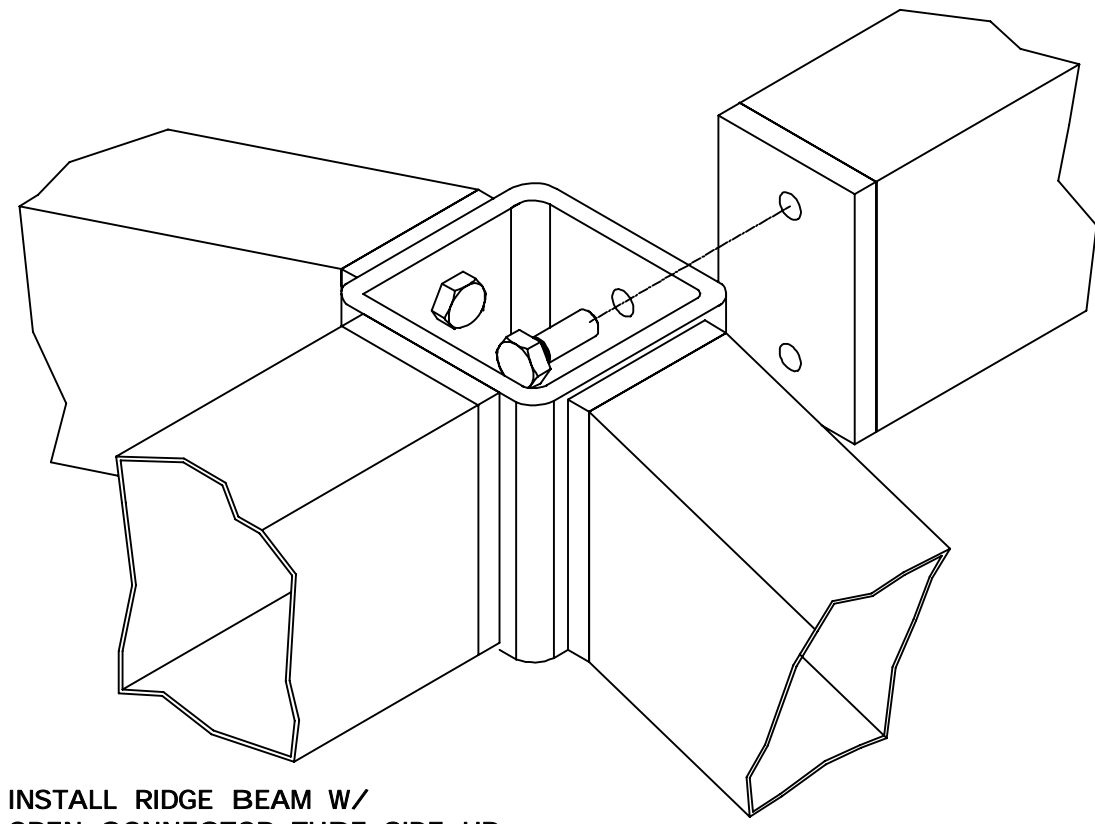
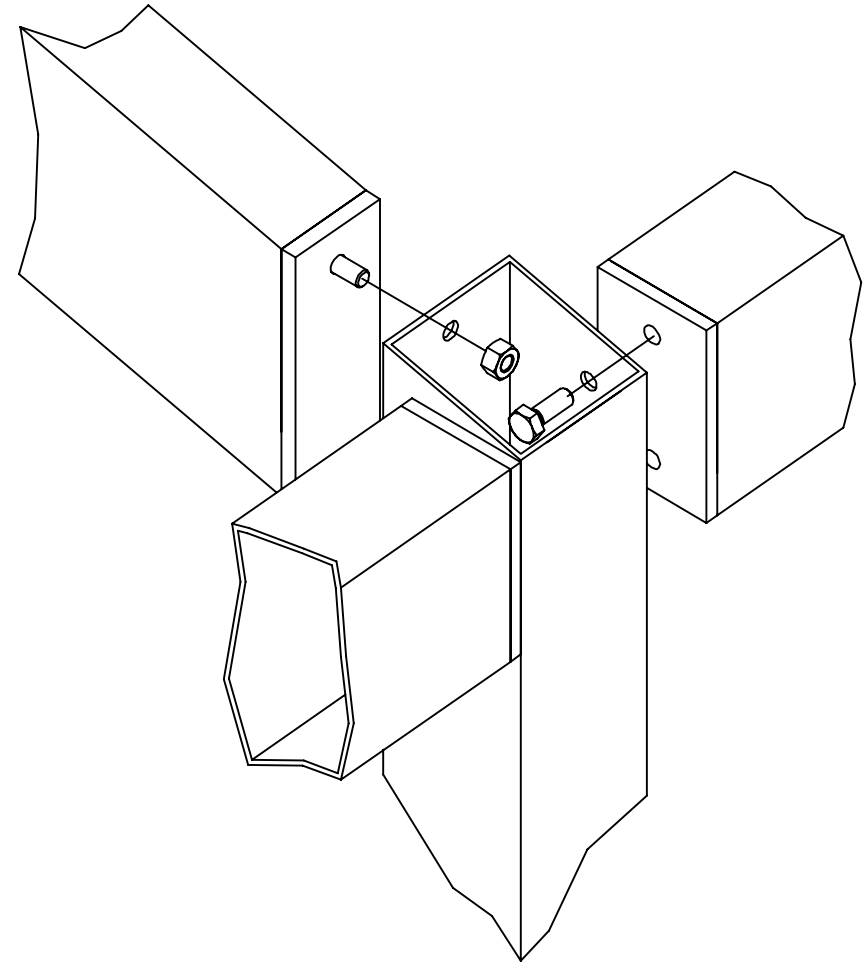


RAFTER & TIE BEAM CONNECTION  
 @ COLUMN **DETAIL A**



INSTALL RIDGE BEAM W/  
 OPEN CONNECTOR TUBE SIDE UP

RAFTER CONNECTION  
 @ CONNECTOR TUBE **DETAIL B**



Frame Connections

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DATE:

8/30/2017

JOB NO.:

5493

REVISION:

BUILDING TYPE:

RG10X34TS- P4

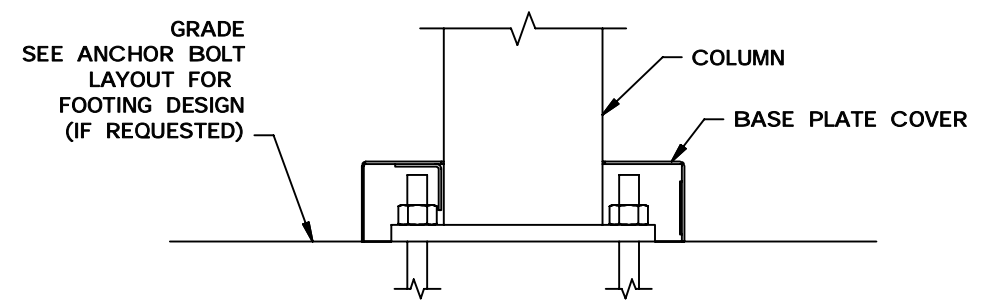
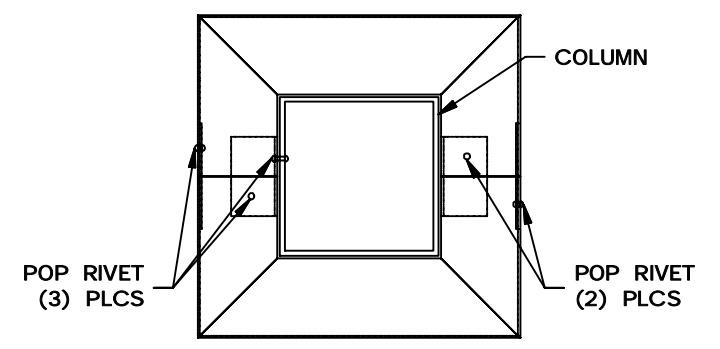
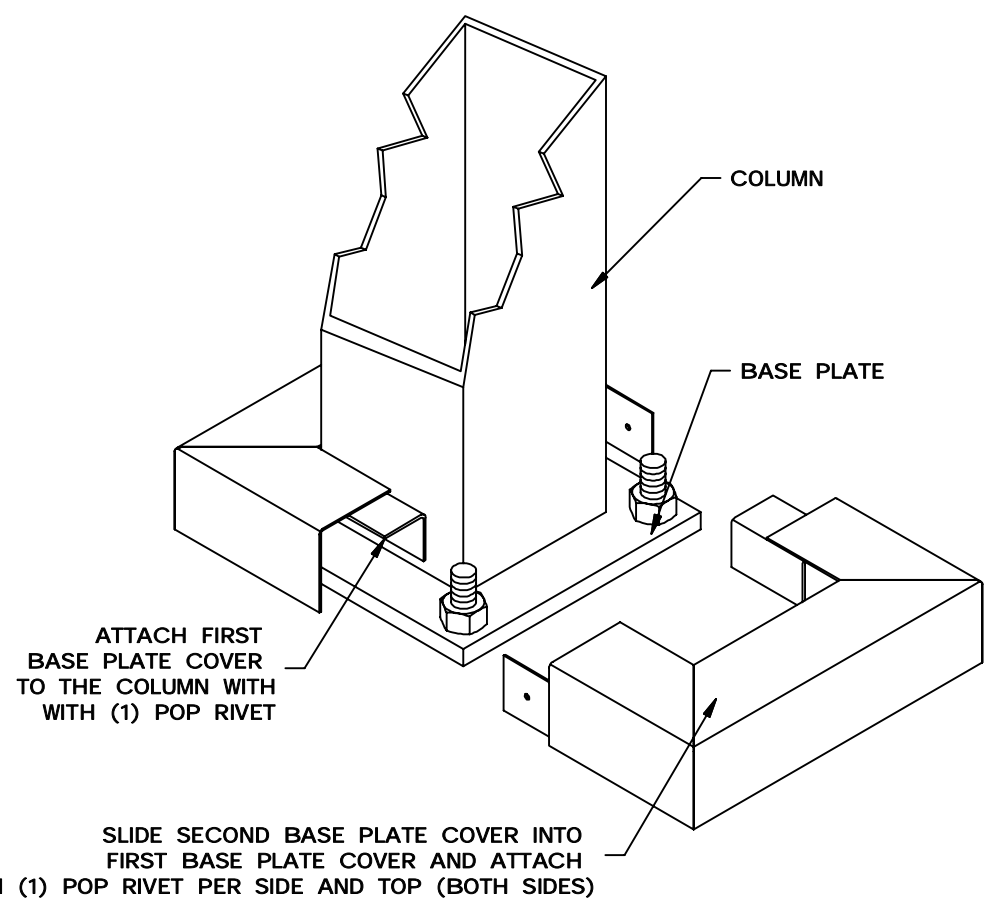
PROJECT NAME:

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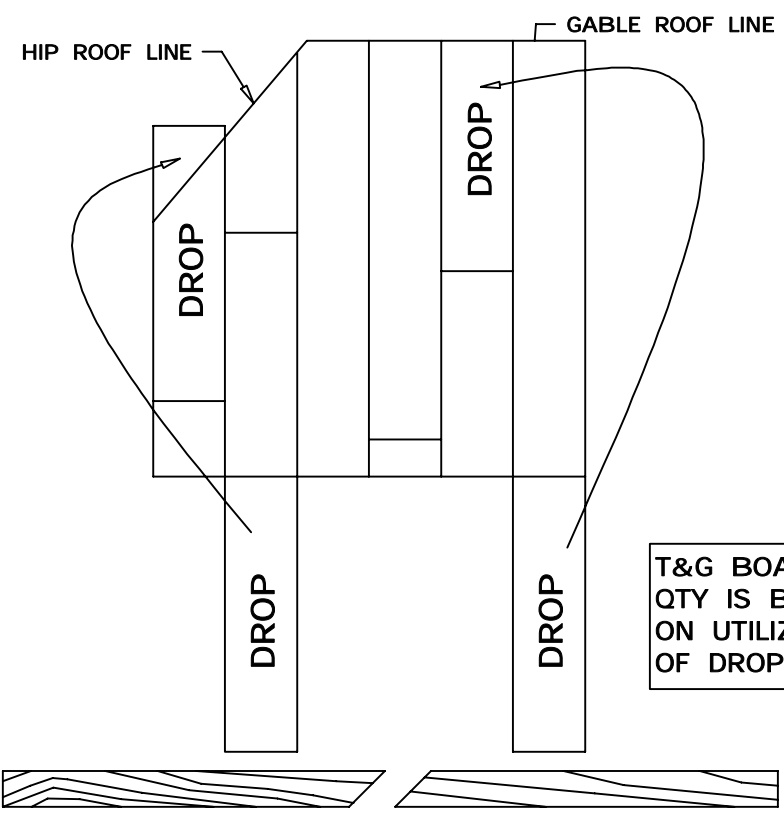
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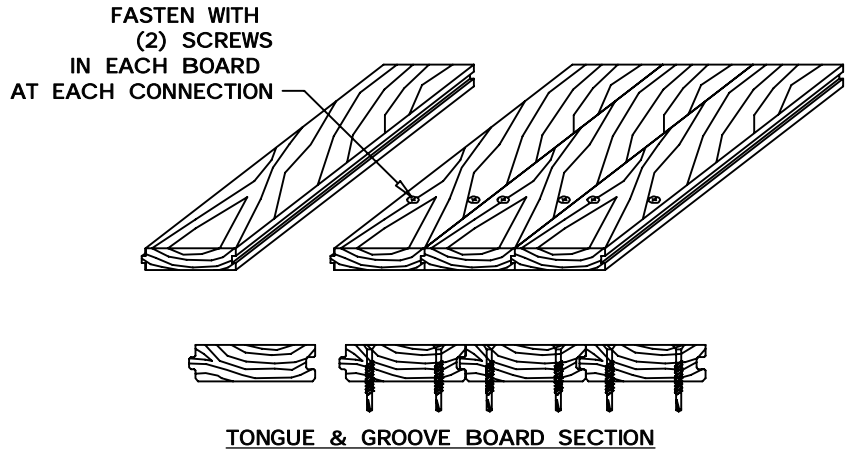


BASE PLATE COVER CONNECTION @ COLUMN DETAIL C

T & G Roof Layout

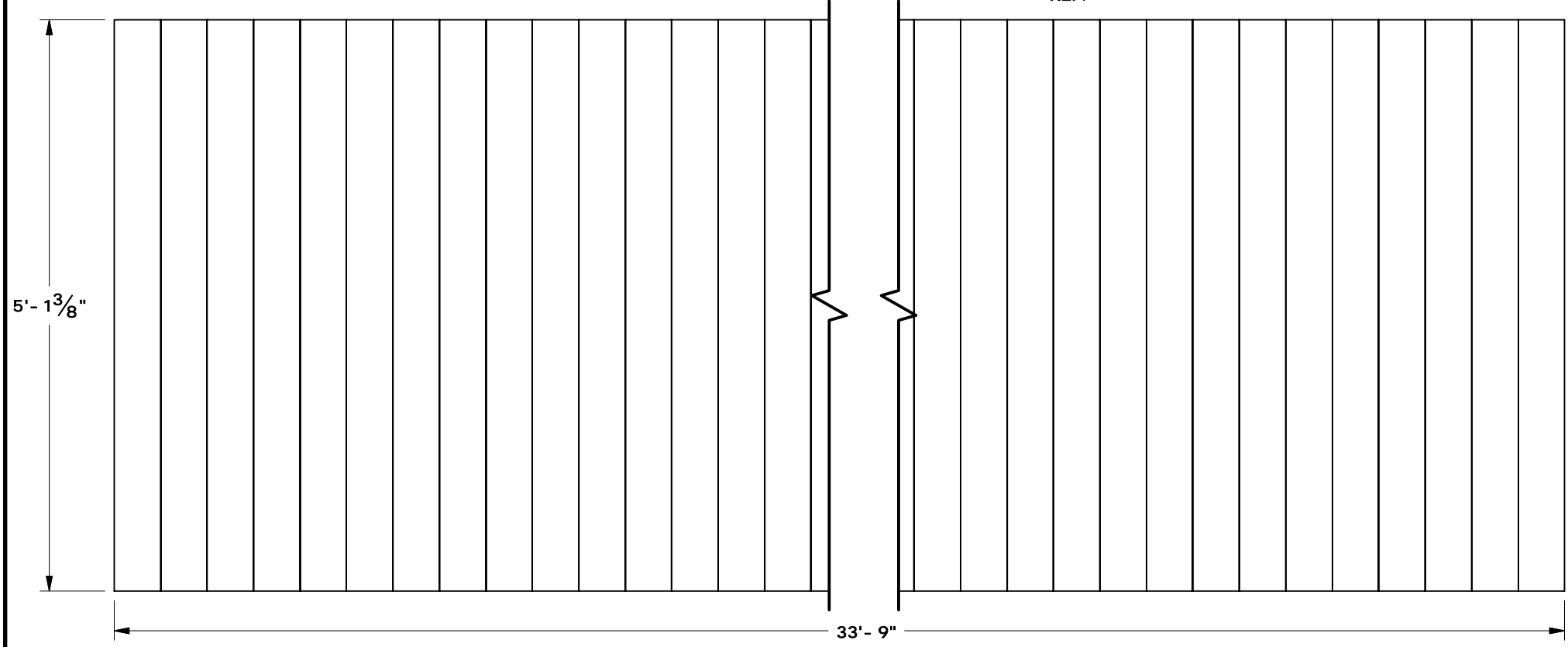
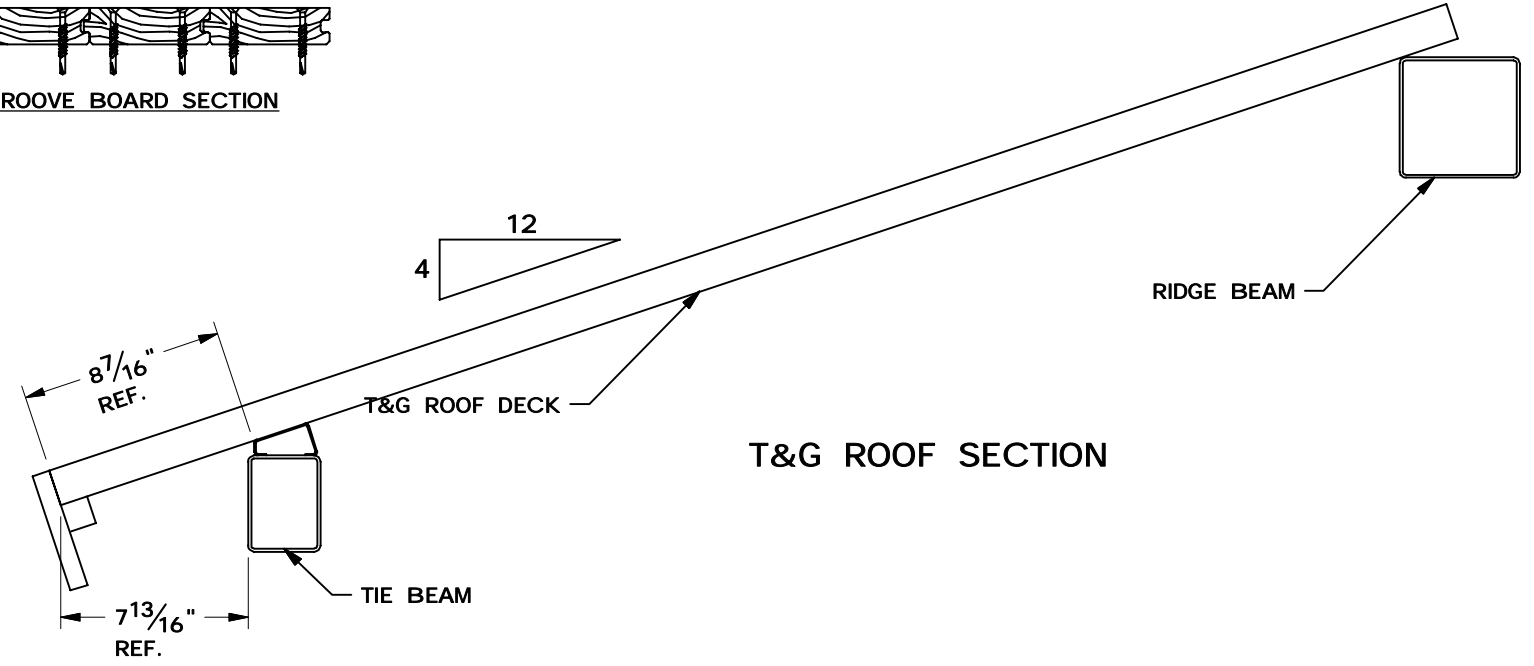


T&G BOARD QTY IS BASED ON UTILIZATION OF DROP.



T & G ROOF DECK: 2X6 TONGUE AND GROOVE WOOD ROOF DECK, WESTERN LODGEPOLE PINE, KILN DRIED, #2 OR BETTER, ONE EDGE V'D, ONE EDGE GROOVED. IF REQ'D, FASCIA SHALL BE PINE.

**SPLICING T&G BOARD**  
 MITER ENDS OF T&G AT 45° WHEN SPLICING TWO BOARDS TOGETHER.  
 STAGGER SPLICES ON ADJACENT BOARD AT LEAST 24" APART.  
 SPLICES MAY OR MAY NOT FALL OVER TOP OF A PURLIN.



T&G ROOF LAYOUT

|                |                         |
|----------------|-------------------------|
| DRAWN BY:      | lisam                   |
| DATE:          | 8/30/2017               |
| JOB NO.:       | 5493                    |
| REVISION:      |                         |
| BUILDING TYPE: | RG10X34TS- P4           |
| PROJECT NAME:  | BAYHILL CEDAR HILLS, UT |

SHEET  
**6.0**





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.

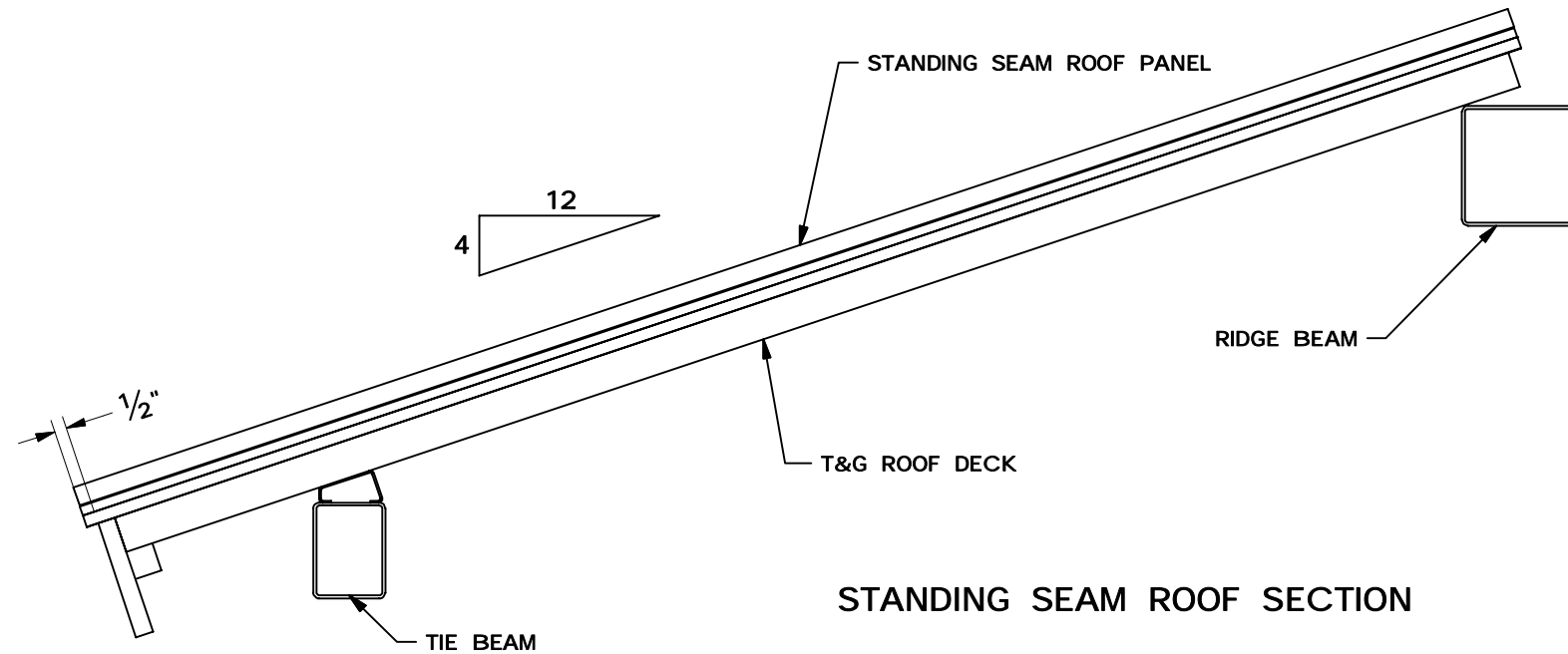
THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.

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.

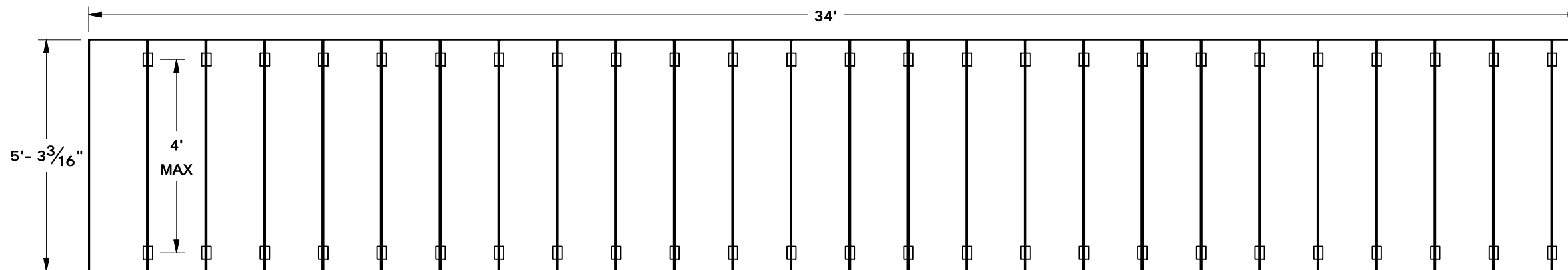
THE INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN AND WORKMANSHIP SHALL MEET THE BEST INDUSTRY STANDARDS.



STANDING SEAM ROOF SECTION

**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 LAYOUT

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SS Roof Layout

DRAWN BY:

lisam

DATE:

8/30/2017

JOB NO.:

5493

REVISION:

BUILDING TYPE:

RG10X34TS- P4

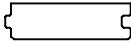
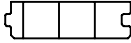

PROJECT NAME:

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CEDAR HILLS, UT

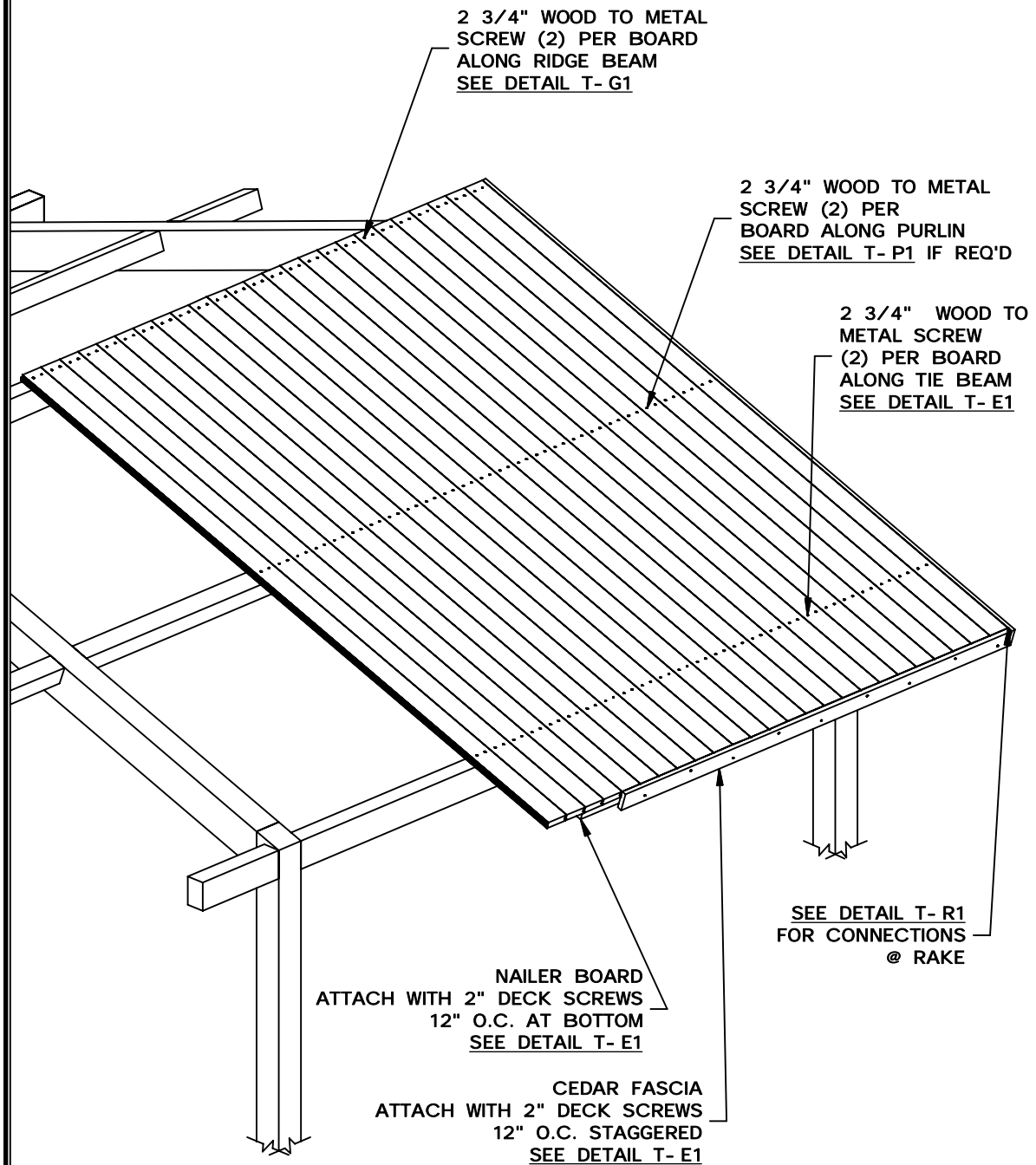
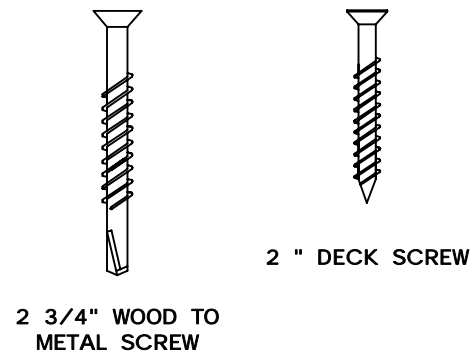
SHEET

**7.0**

**ORDER OF INSTALLATION**

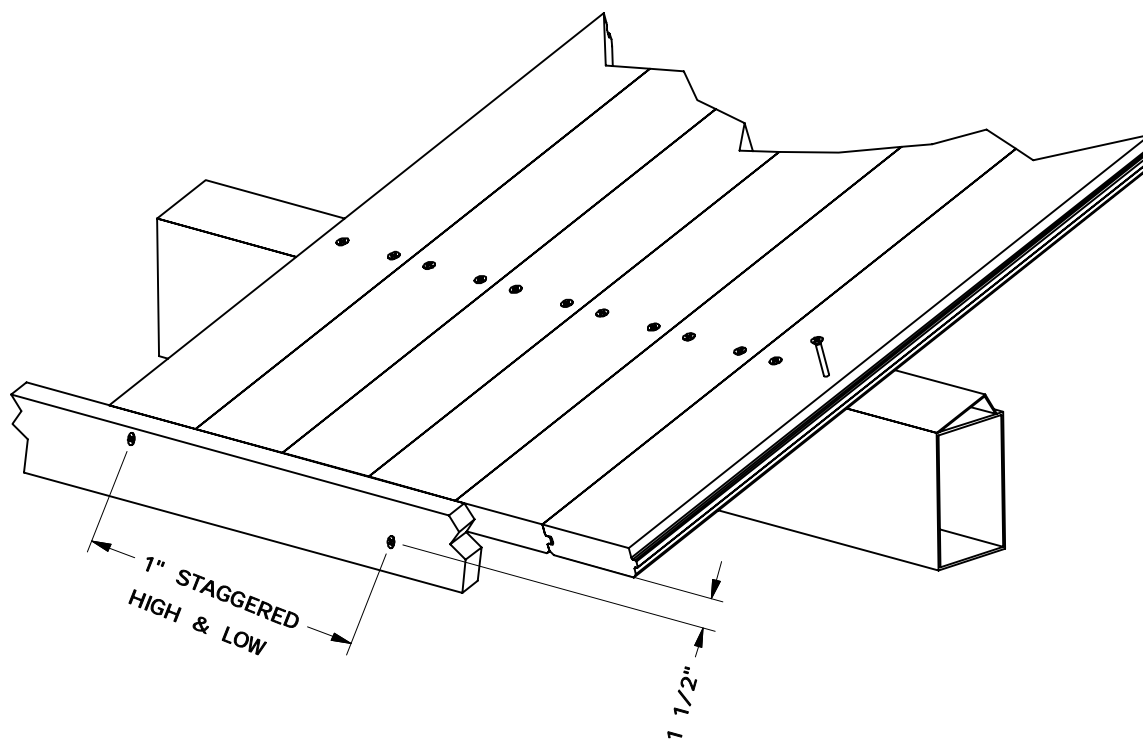
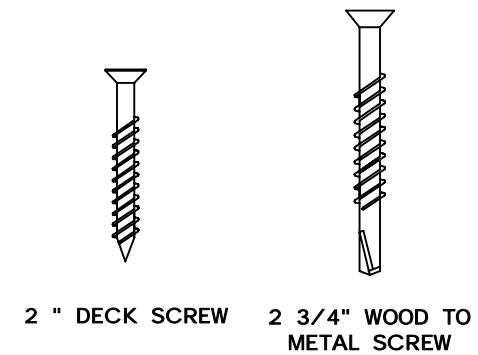
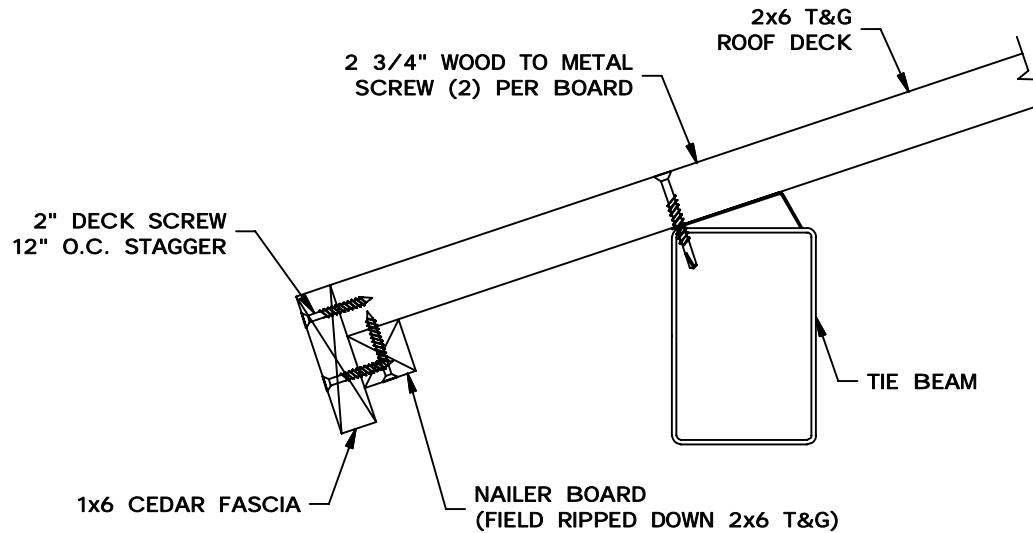
-  T&G BOARD  
SEE DETAILS T- E1, T- G1, & T- P1
-  NAILER - RIP THREE PER T&G BOARD AS SHOWN  
SEE DETAIL T- E1 & T- R1
-  1"x6" CEDAR FASCIA  
SEE DETAIL T- E1 & T- R1

**FASTENERS**



T&G ROOF DECK LAYOUT

**ROOF**



T&G ROOF DECKING

@ TIE BEAM

**T- E1**

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**Roof Connections**

DRAWN BY:

lisam

DATE:

8/30/2017

JOB NO.:

5493

REVISION:

BUILDING TYPE:

RG10X34TS- P4

PROJECT NAME:

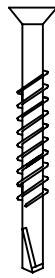
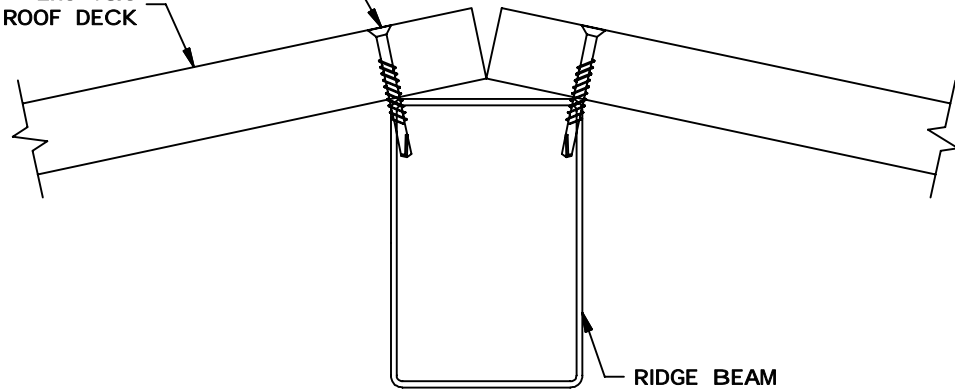
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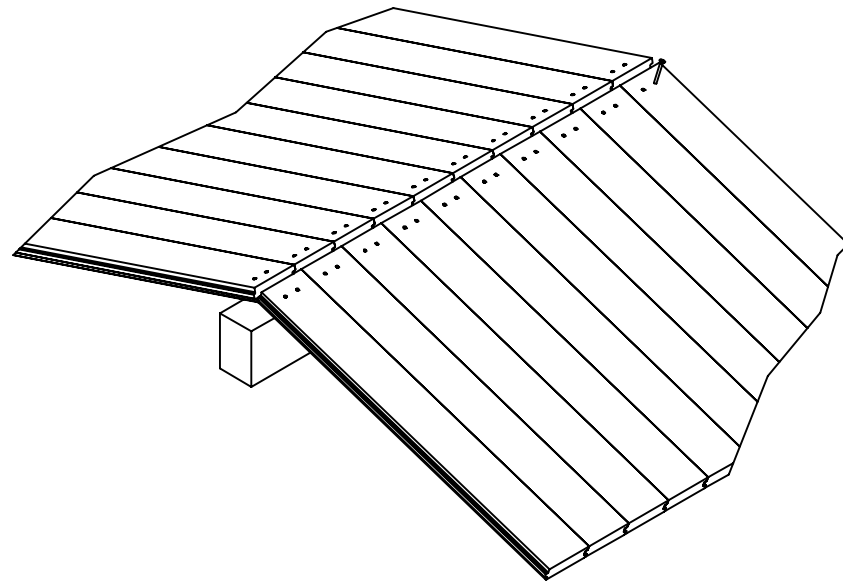
**8.0**

2 3/4" WOOD TO METAL  
SCREW (2) PER BOARD

2x6 T&G  
ROOF DECK



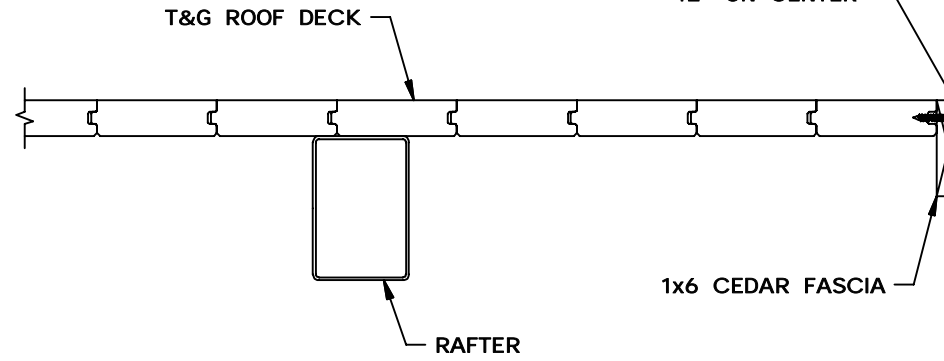
2 3/4" WOOD TO  
METAL SCREW



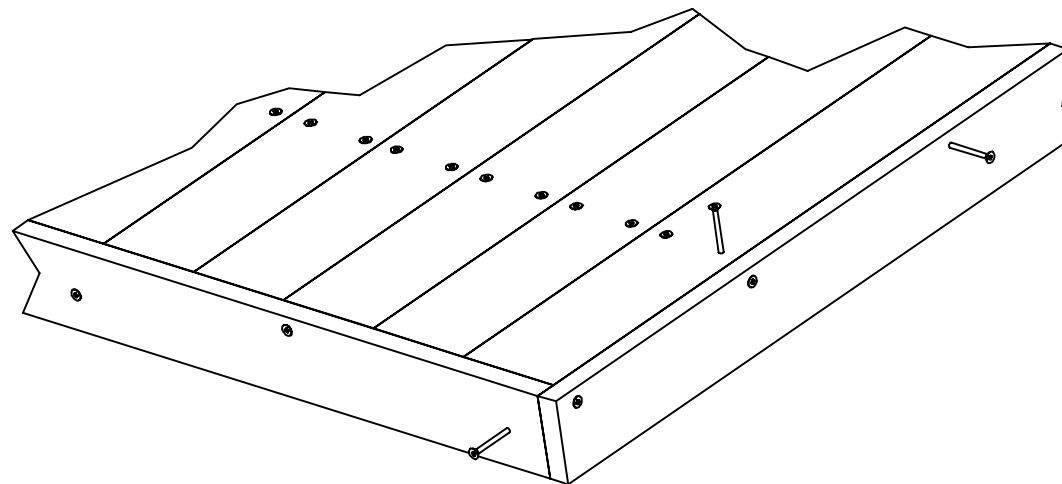
T&G ROOF DECK CONNECTION @ RIDGE

T- G1

2" DECK SCREW  
12" ON CENTER



2" DECK SCREW



T&G ROOF DECK CONNECTION DETAIL @ RAKE

T- R1

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# Roof Connections

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lisam

DATE:

8/30/2017

JOB NO.:

5493

REVISION:

BUILDING TYPE:

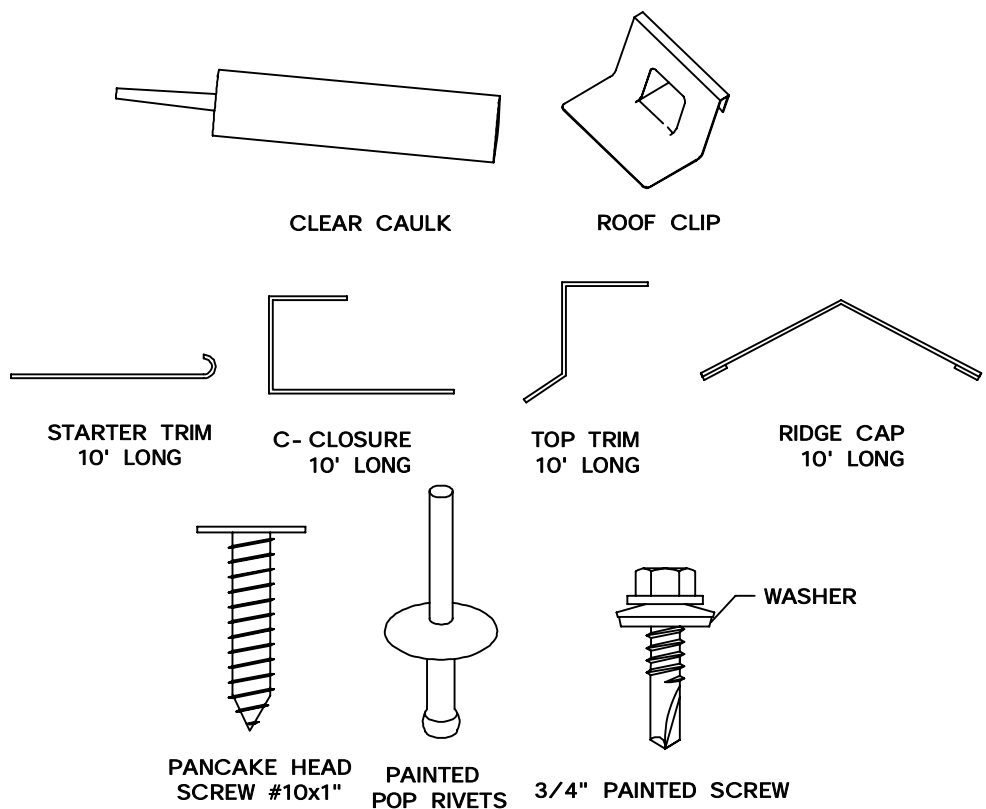
RG10X34TS- P4

PROJECT NAME:

BAYHILL  
CEDAR HILLS, UT

SHEET

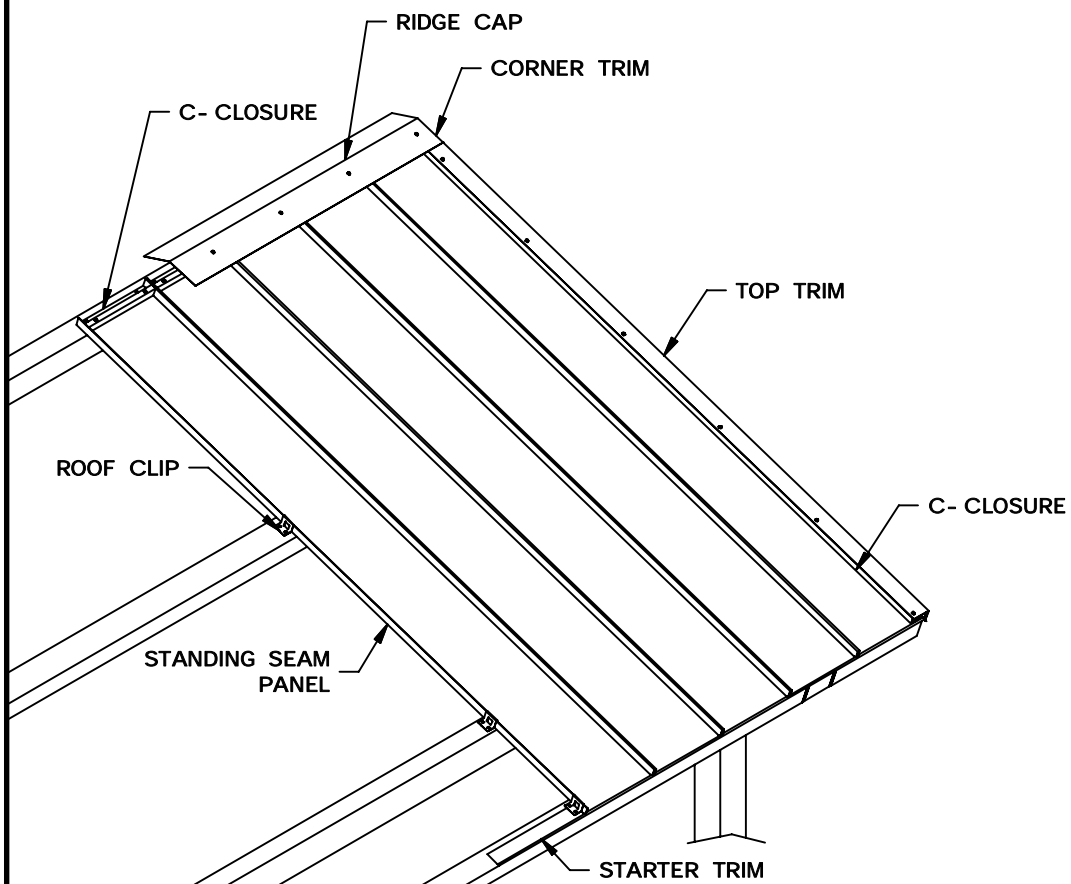
# 8.1



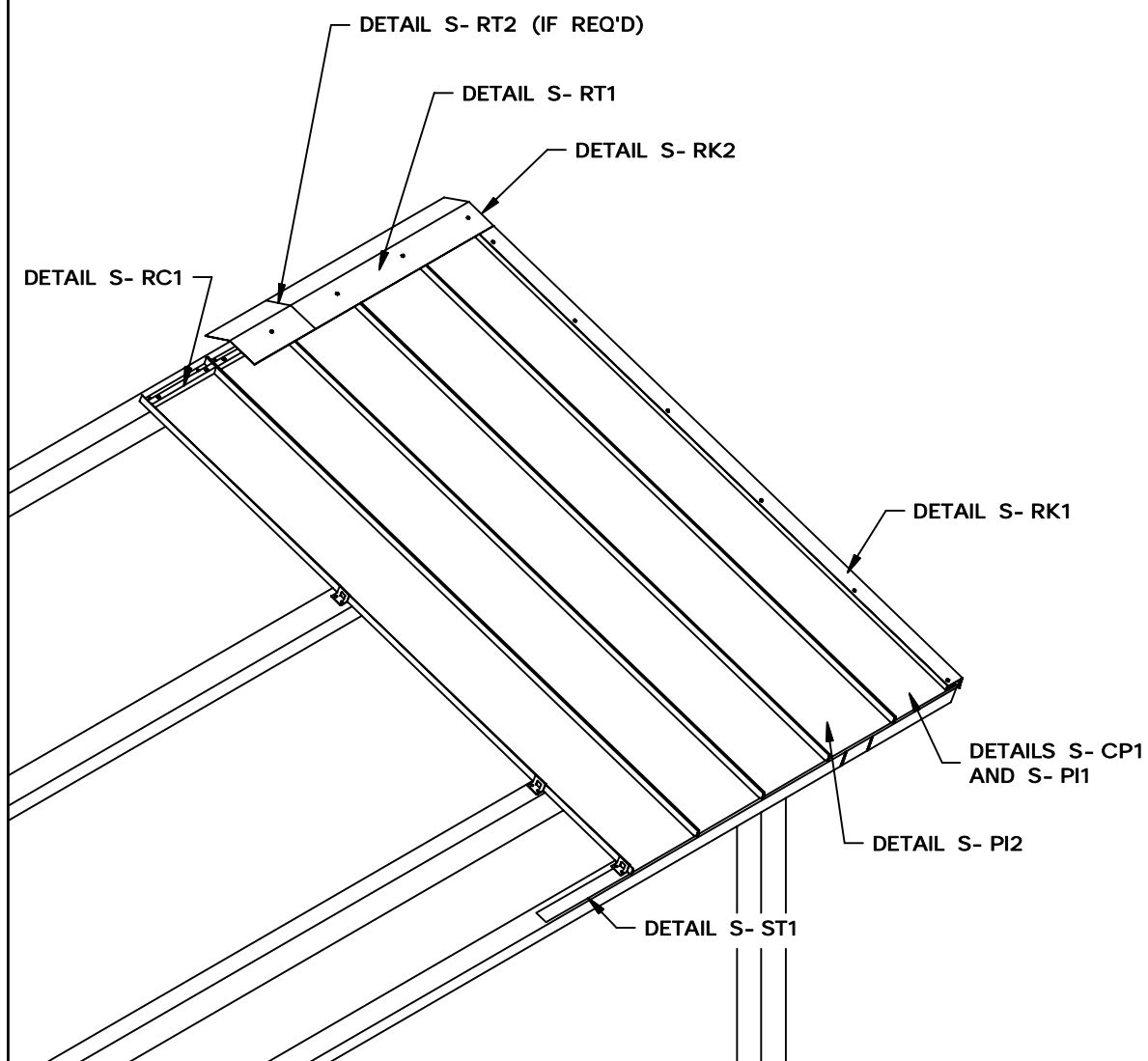
THESE DETAILS ASSUME THAT ALL COMPONENTS OF THIS ROOF SYSTEM WILL BE INSTALLED PLUMB AND SQUARE. CAULK AND TRIM SHOULD ALSO BE INSTALLED TO INSURE WATER TIGHTNESS

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- RK1 TOP TRIM & C- CLOSURE @ RAKE
- S- RC1 C- CLOSURE @ RIDGE
- S- RK2 RIDGE CORNER TRIM
- S- RT1 RIDGE CAP
- S- RT2 LAPPING RIDGE CAP (IF REQ'D)



TRIM REFERENCE



ORDER OF INSTALLATION

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8.2

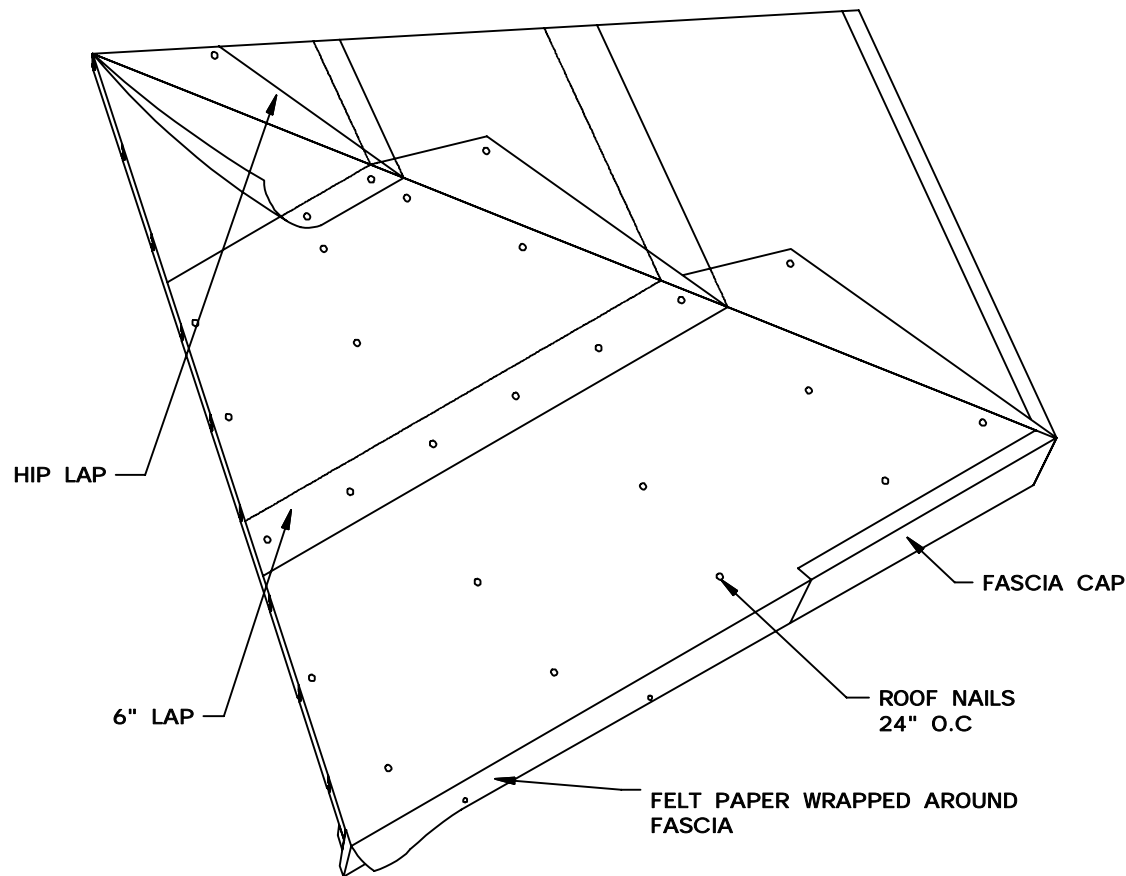
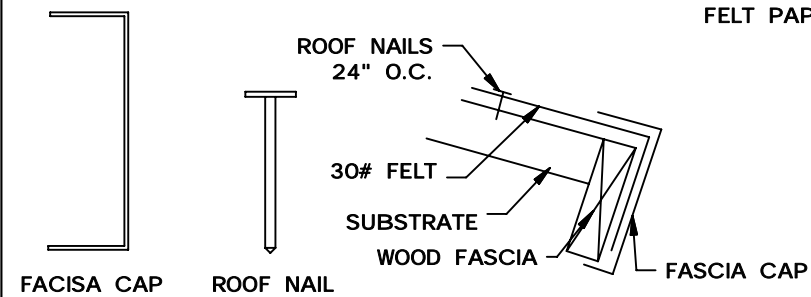
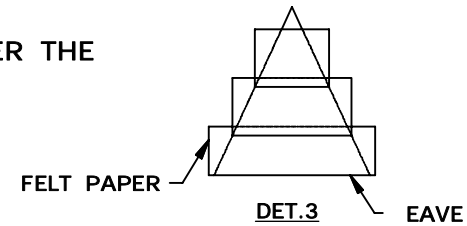
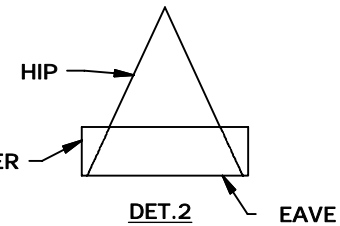
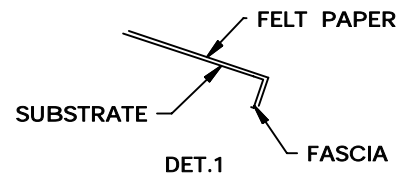
**INSTALLATION OF FELT PAPER**  
 TO START MEASURE EAVE LENGTH AND CUT THE 30# FELT PAPER TO LENGTH + 6"

PLACE FELT ON ROOF AND WRAP THE PAPER OVER THE FASCIA SEE DET.1  
 ALLOW THE FELT TO LAY OVER THE HIP SEE DET.2

NAIL FELT DOWN WITH ROOFING NAILS 24" O.C.

CONTINUE INSTALLING FELT UP THE ROOF SECTION LAPPING THE PREVIOUSLY INSTALLED PIECE 6" SEE DET.3

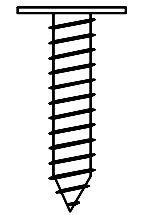
INSTALL THE FASCIA CAP BY SLIDING IT OVER THE WOOD FASCIA (FASTENERS USED TO ATTACH STARTER TRIM WILL SECURE FASCIA CAP)



FELT PAPER INSTALLATION

S- FP1

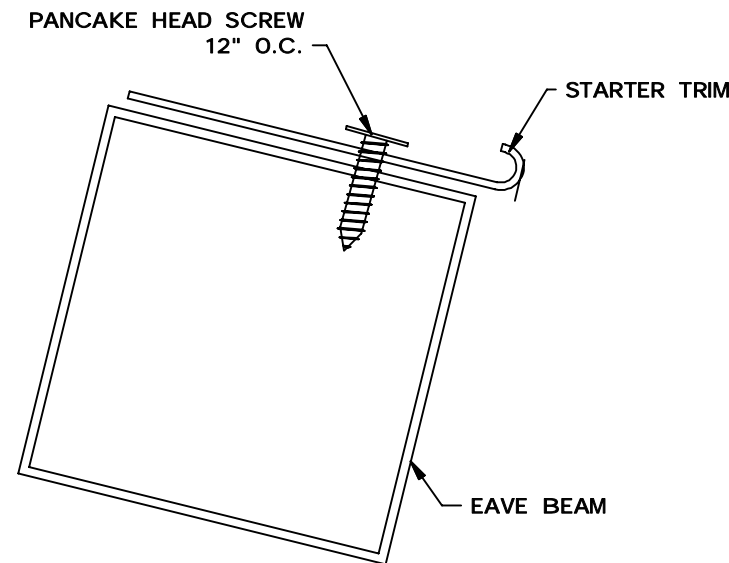
INSTALL STARTER TRIM OVERHANGING THE EDGE OF THE EAVE BEAM 1/2". ATTACH STARTER TRIM WITH PANCAKE HEAD SCREWS 12" O.C.



PANCAKE HEAD SCREW #10x1"



STARTER TRIM



STARTER INSTALLATION

S- ST1

Roof Connections

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DATE:

8/30/2017

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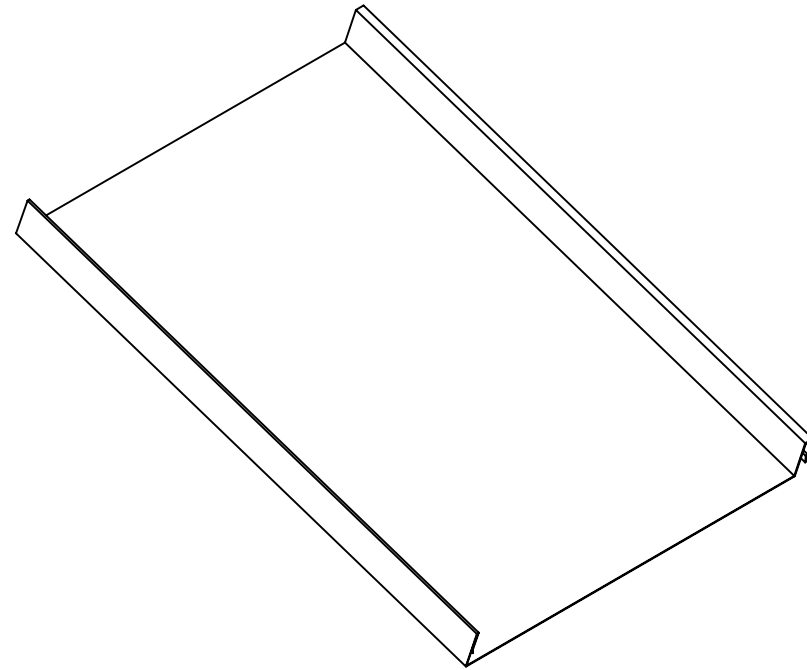
PROJECT NAME:

BAYHILL  
 CEDAR HILLS, UT

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8.3

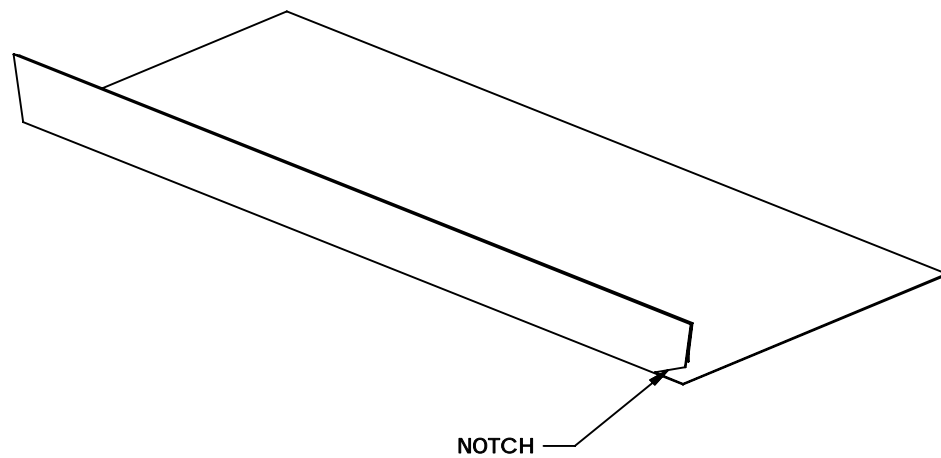
MEASURE, MARK & CUT THE FIRST ROOF PANEL



NOTCH RIB TO ALLOW PANEL TO SLIDE INTO STARTER TRIM



NOTCH PANEL BACK TO ACCEPT THE STARTER TRIM

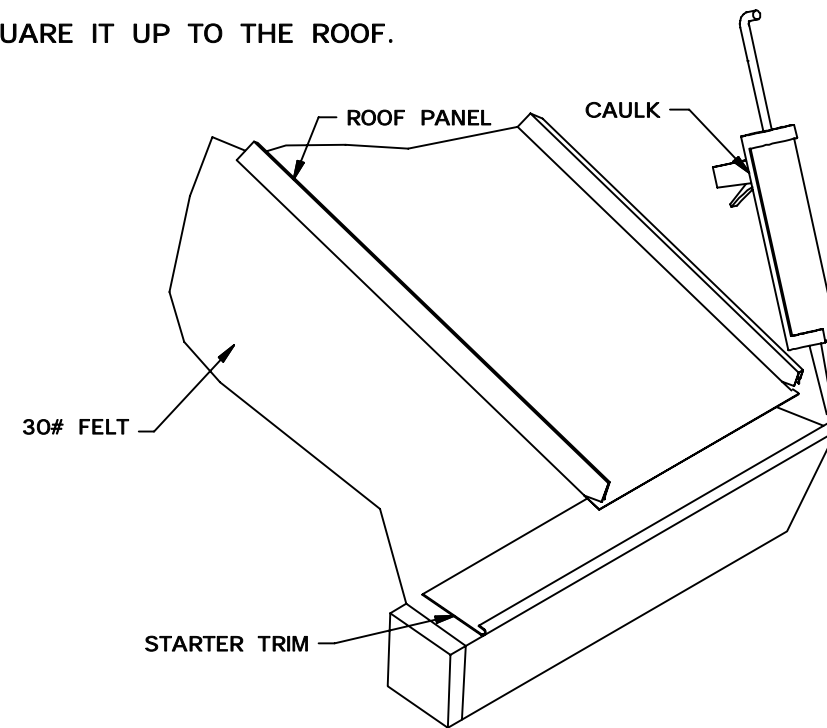


NOTCH

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 1/4" BEAD OF CAULK THE APPROXIMATE LENGTH OF THE PANEL. SLIDE THE PANEL INTO PLACE, AND SQUARE IT UP TO THE ROOF.



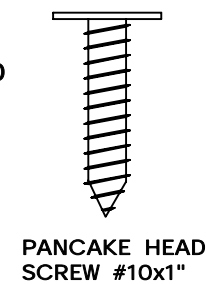
30# FELT

ROOF PANEL

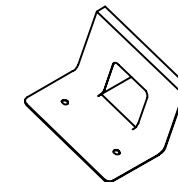
CAULK

STARTER TRIM

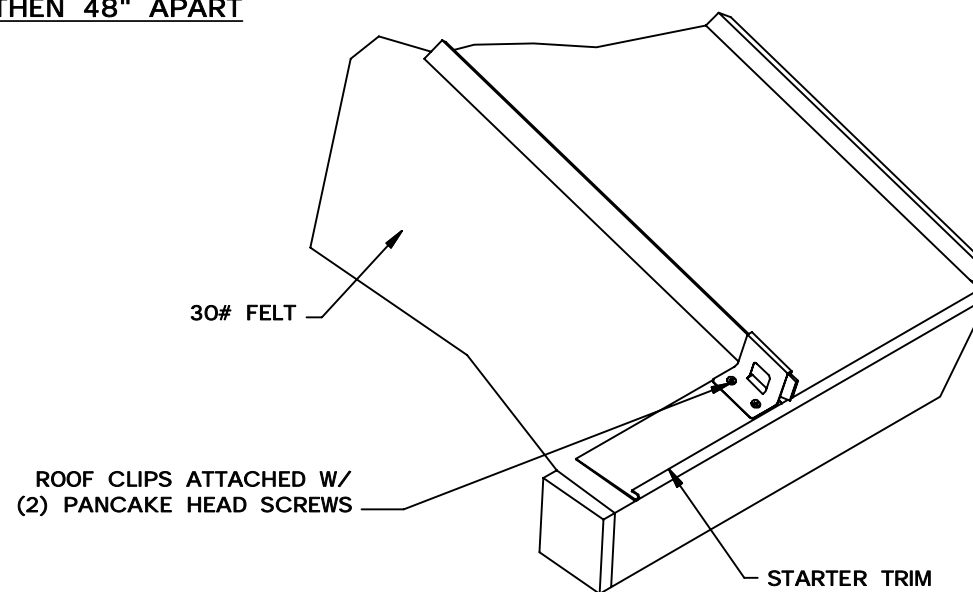
WITH THE ROOF PANEL IN PLACE AND SQUARE, INSTALL THE ROOF CLIPS WITH (2) PANCAKE HEAD SCREWS. ROOF CLIPS SHOULD BE NO MORE THEN 48" APART



PANCAKE HEAD SCREW #10x1"



ROOF CLIP (2) SCREWS



30# FELT

ROOF CLIPS ATTACHED W/ (2) PANCAKE HEAD SCREWS

STARTER TRIM

INSTALLATION OF FIRST ROOF PANEL

S- PI1

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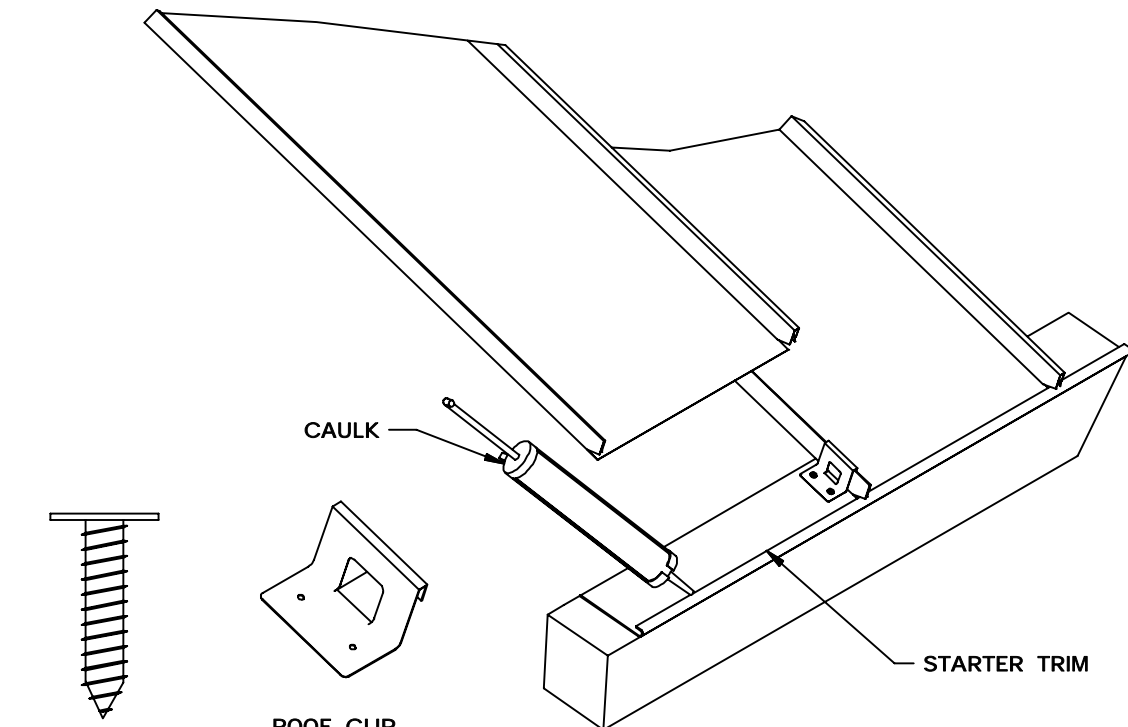
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**8.4**

AFTER THE SECOND ROOF PANEL HAS BEEN CUT TO LENGTH (IF NECESSARY) AND NOTCHED, TEST FIT PANEL. THEN APPLY A 1/4" BEAD OF CAULK INSIDE THE STARTER TRIM

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



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

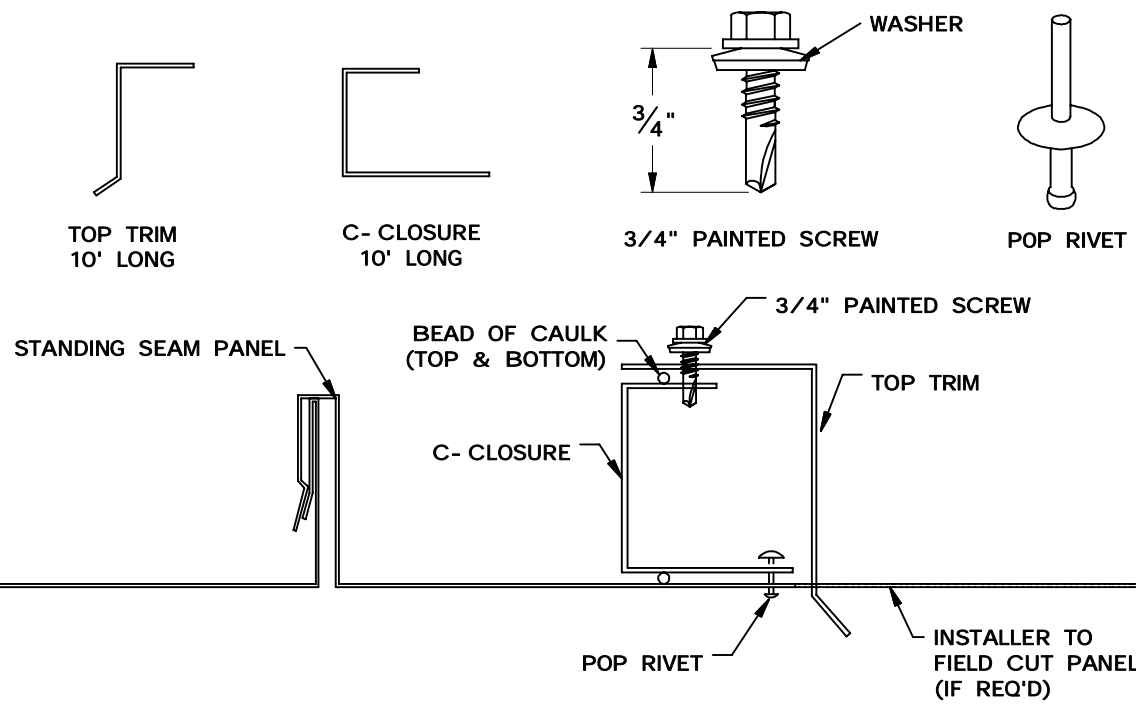
PANELS ARE INSTALLED

ROOF CLIP ATTACHED WITH (2) PANCAKE HEAD SCREWS

ROOF CLIPS ARE INSTALLED AT EVERY CROSS MEMBER

INSTALLATION OF SECOND ROOF PANEL

S- PI2



CONTINUOUS CAULK BEAD (TOP & BOTTOM)

IF MULTIPLE PIECES OF TOP TRIM ARE REQUIRED THEN LAP THE SECOND PIECE OF TOP TRIM OVER THE FIRST PIECE 6". CAULK AND FASTEN W/ 3/4" PAINTED SCREWS.

TOP TRIM ATTACHED W/ 3/4" PAINTED SCREW 12" O.C. ATTACH TO C-CLOSURE

TOP TRIM

INSTALLER TO FINISH END

C-CLOSURE ATTACHED WITH POP RIVETS 12" O.C. (BOTTOM)

TOP TRIM INSTALLATION @ RAKE

S- RK1

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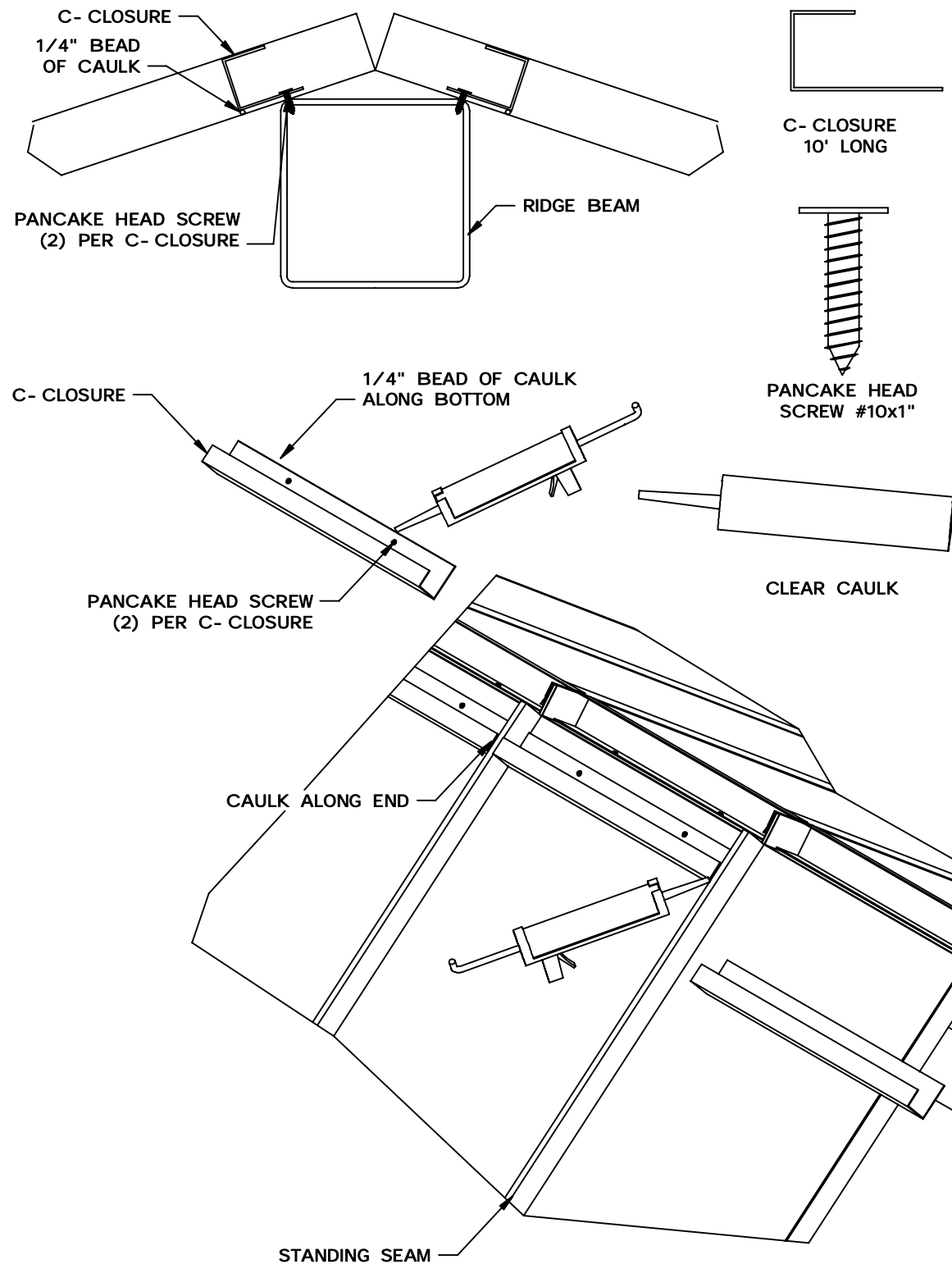
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8.5

TO INSTALL C- CLOSURES ALONG THE RIDGE MEASURE, MARK & CUT THE C- CLOSURE TO LENGTH.

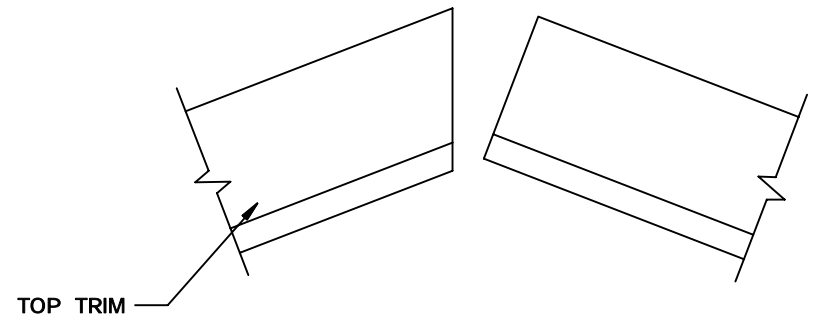
APPLY A 1/4" BEAD OF CAULK TO THE BOTTOM OF THE C- CLOSURE AND FASTEN IT TO THE ROOF WITH (2) PANCAKE SCREWS ALONG THE RIDGE BEAM. THEN APPLY CAULK TO THE END OF THE C- CLOSURE FOR WATER TIGHTNESS



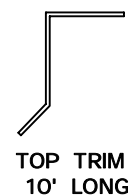
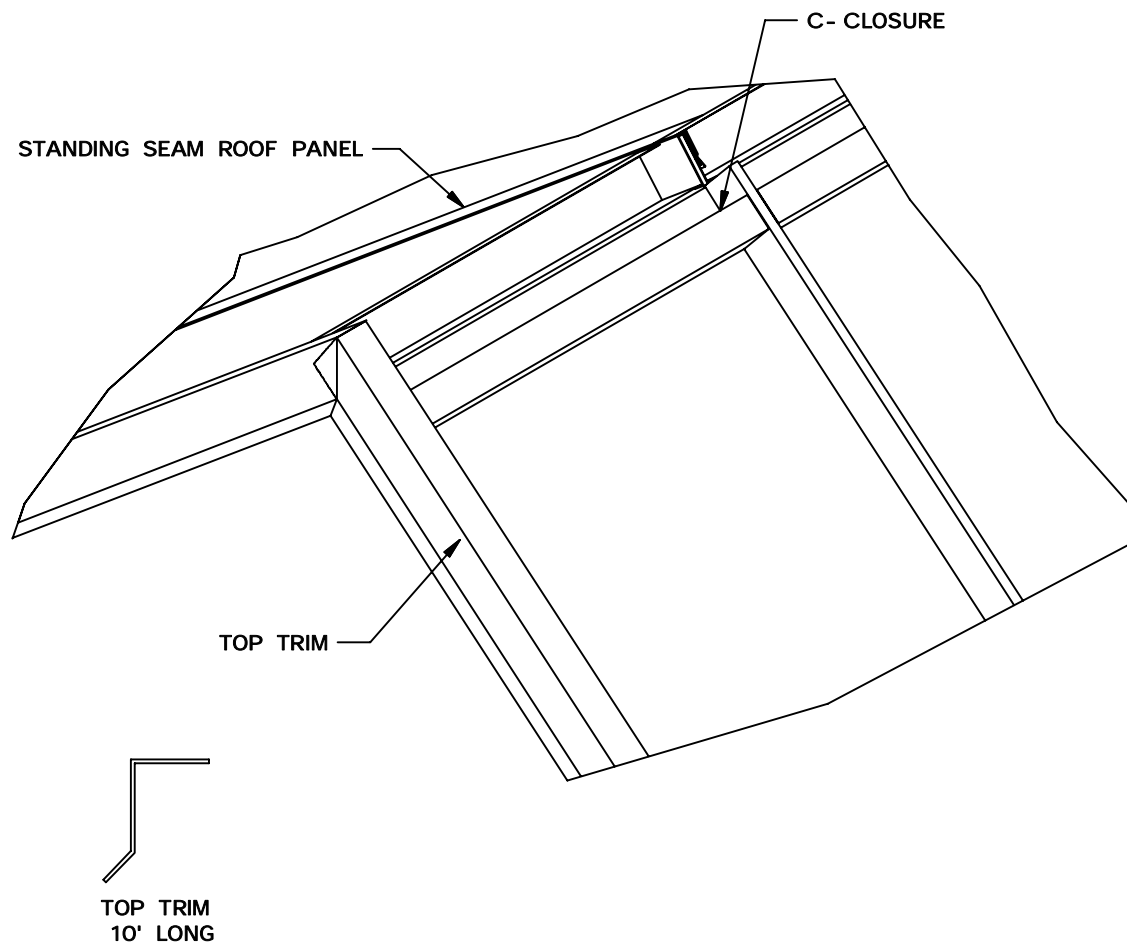
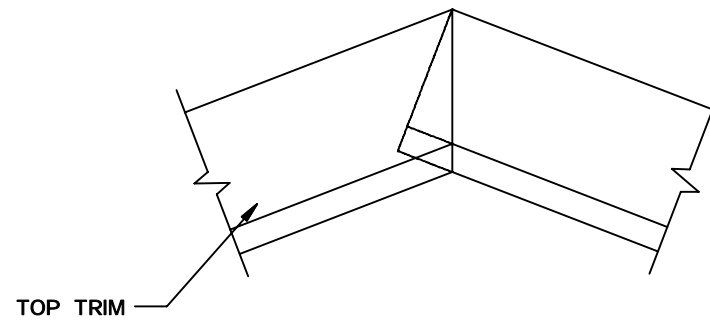
INSTALLATION OF C- CLOSURE @ RIDGE

S- RC1

TO FINISH OFF THE END OF THE RIDGE, CUT THE TOP TRIM AS SHOWN.



INSTALL TOP TRIM WITH MITERED END ON TOP



INSTALLATION OF CORNER TRIM

S- RK2

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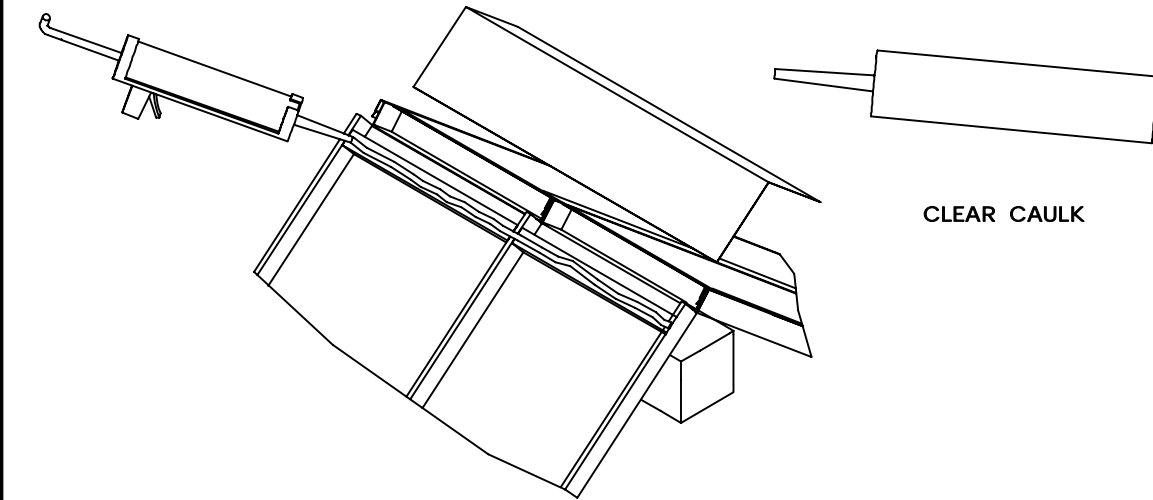
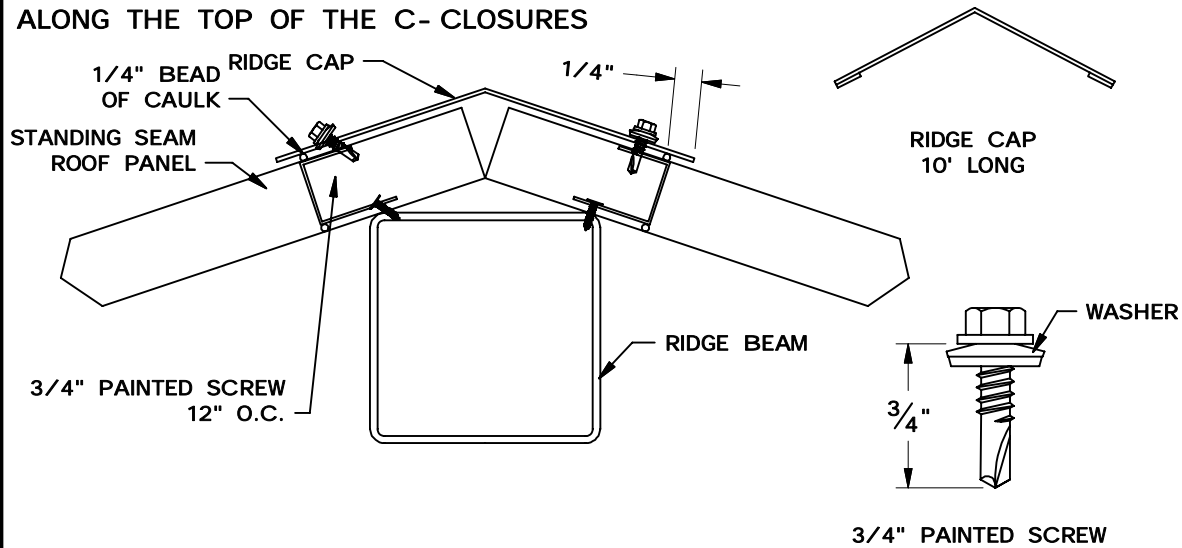
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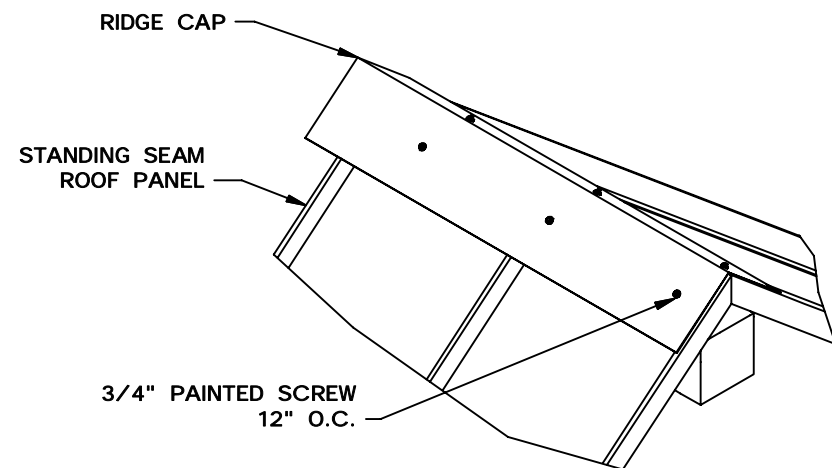
8.6



TO INSTALL RIDGE CAP:  
FIRST APPLY A 1/4" BEAD OF CAULK  
ALONG THE TOP OF THE C- CLOSURES



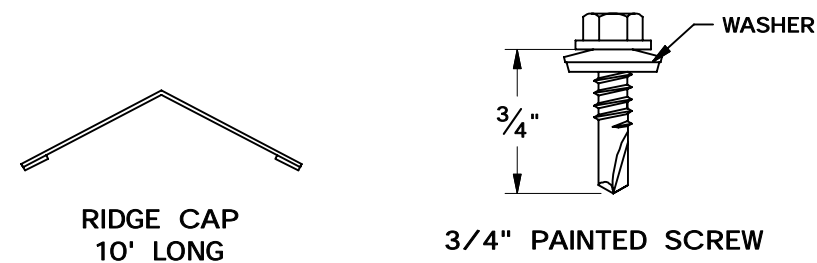
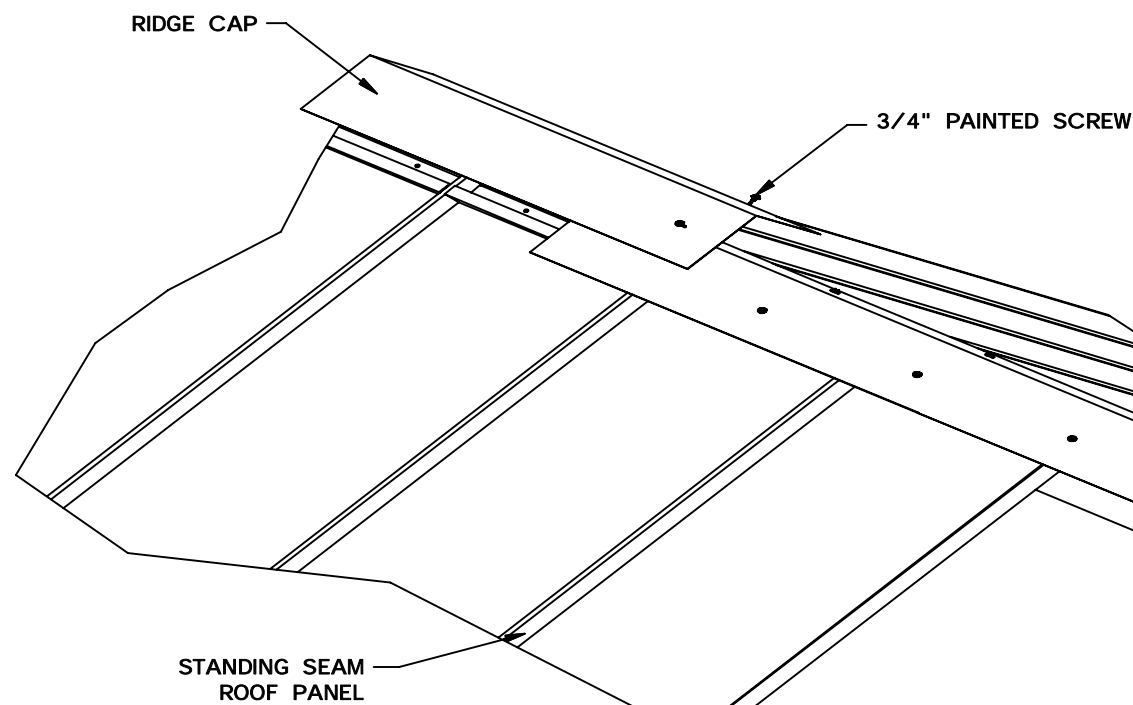
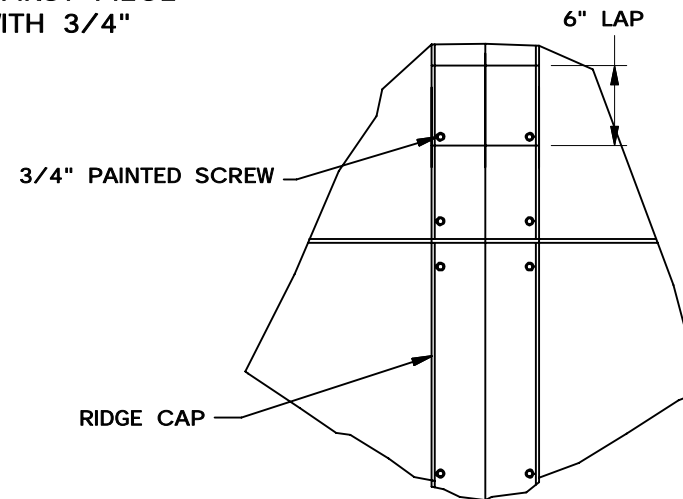
THEN FASTEN THE RIDGE CAP TO THE  
C- CLOSURE WITH PAINTED 3/4" SCREW  
12" O.C.



INSTALLATION OF RIDGE CAP

S- RT1

IF MULTIPLE PIECES OF RIDGE CAP ARE  
REQUIRED THEN LAP THE SECOND PIECE  
OF RIDGE CAP OVER THE FIRST PIECE  
6", CAULK AND FASTEN WITH 3/4"  
PAINTED SCREWS.



LAPPING RIDGE CAP

S- RT2

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8.7