



A Division of PORTERCORP 4240 N. 136th AVE HOLLAND, MI 49424 (616) 888-3500

PROJECT NAME: STORY COUNTY CONSERVATION

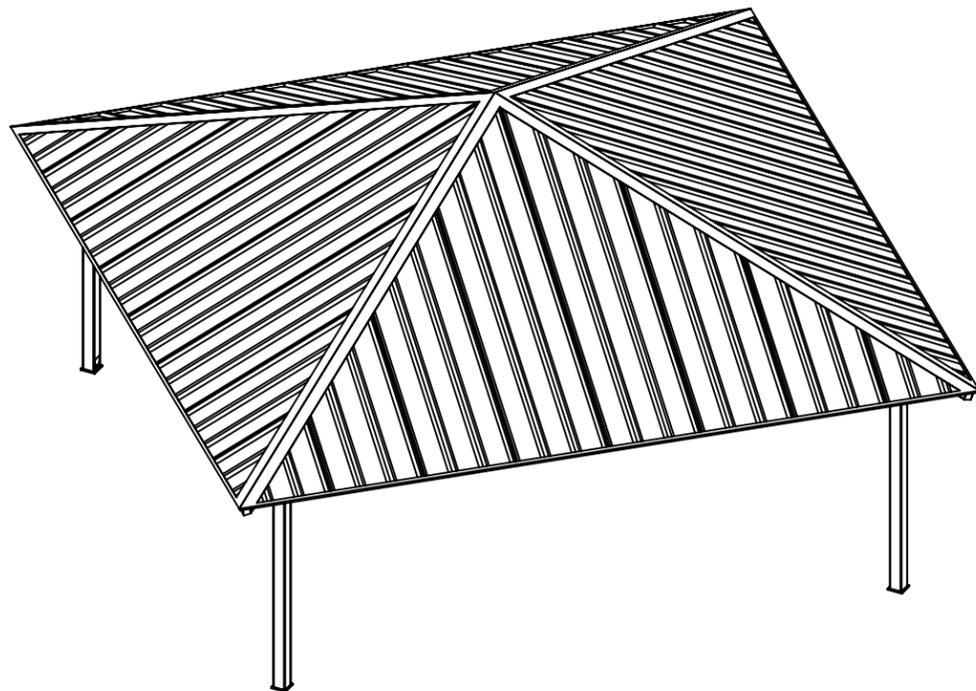
PROJECT LOCATION: AMES, IA

BUILDING TYPE: SQR 24

ROOF TYPE: MULTI-RIB

BUILDING NUMBER: P18237

ORDER NUMBER: 77841



DRAWING LIST:

| SHEET NUMBER | DRAWING DESCRIPTION |
|--------------|-------------------------------------|
| CS | COVER SHEET |
| 1 | ARCHITECTURAL ELEVATIONS |
| 2-2.1 | ANCHOR AND FOOTING LAYOUT / DETAILS |
| 3 | STRUCTURAL FRAMING PLAN |
| 4-4.1 | FRAME CONNECTION DETAILS |
| 5 | ELECTRICAL VIEWS-N/A |
| 6-6.1 | ROOF LAYOUT |
| 7-7.2 | ROOF CONNECTION DETAILS |

MANUFACTURER NOTES:

MATERIALS:

| DESCRIPTION | ASTM DESIGNATION |
|------------------------|------------------|
| TUBE STEEL | A500 (GRADE C) |
| SCHEDULE PIPE | A53 (GRADE B) |
| RMT PIPE | A519 |
| LIGHT GAGE COLD FORMED | A1003 (GRADE 50) |
| STRUCTURAL STEEL PLATE | A36 |
| ROOF PANELS (STEEL) | A653 |
| ANCHOR BOLTS | SEE SHEET 2.1 |

GENERAL NOTES:

- UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. POLIGON MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.
- THE ENGINEERING SEAL FOR THE STRUCTURE DETAILED IN THESE DRAWINGS IS ONLY VALID IF PORTER CORP DESIGNS AND FABRICATES THE STEEL COMPONENTS. FABRICATING THE STEEL COMPONENTS ELSEWHERE VOIDS THE ENGINEERING PROVIDED BY PORTER CORP.
- UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE (SEE SNOW DESIGN DATA). IF THAT SEPARATION DOES NOT EXIST AND THE GROUND SNOW LOAD (Pg) IS GREATER THAN 0 PSF, POLIGON MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.
- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL REFERENCED IN THE GOVERNING BUILDING CODE.
- ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS AND CONFORMS TO AWS D1.1 OR D1.3 AS REQUIRED.
- PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS AND FINAL INSTALLATION INSTRUCTIONS INCLUDED WITH THE STRUCTURE FOR POSSIBLE SUBSTITUTIONS AND IMPROVEMENTS.
- FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.
- THE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES, INCLUDING BRACING, SHORING, LAYDOWN AND PROTECTION OF CONSTRUCTION MATERIALS, ETC. TEMPORARY SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.
- MAKING HOLES, CUTS OR MODIFICATIONS TO THE STRUCTURAL STEEL MEMBERS IS NOT PERMITTED IN THE FIELD WITHOUT SPECIFIC APPROVAL OF POLIGON.

CERTIFICATES:

MIAMI-DADE COUNTY CERTIFICATE OF COMPETENCY NO. 23-0915.11
 PCI (POWDER COATING INSTITUTE) 4000 CERTIFIED

FABRICATOR APPROVALS:

CITY OF PHOENIX, AZ APPROVED FABRICATOR #C08-2010
 CITY OF LOS ANGELES, CA APPROVED FABRICATOR #FB01596
 CITY OF RIVERSIDE, CA APPROVED FABRICATOR #SF_000042
 CITY OF HOUSTON, TX APPROVED FABRICATOR #470
 CLARK COUNTY, NV APPROVED FABRICATOR #264
 STATE OF UTAH APPROVED FABRICATOR 02008-14
 AISC APPROVED FABRICATOR C-00022589
 AWS CERTIFIED WELDING FABRICATOR #221003F



DESIGN CRITERIA:

GENERAL:

2015 INTERNATIONAL BUILDING CODE
 RISK CATEGORY: II

DEAD LOAD:

ROOF DEAD LOAD: 2 PSF
 FRAME DEAD LOAD: SELF WEIGHT

LIVE LOAD:

ROOF LIVE LOAD: 20 PSF

SNOW DESIGN DATA:

GROUND SNOW LOAD (Pg): 25 PSF
 FLAT ROOF SNOW LOAD (P_f): 21 PSF
 SNOW EXPOSURE FACTOR (C_e): 1.0
 SNOW LOAD IMPORTANCE FACTOR (I_s): 1.0
 THERMAL FACTOR (C_t): 1.2
 ROOF SLOPE FACTOR (C_s): 1.0
 DRIFT SURCHARGE LOAD (P_d): 0 PSF
 WIDTH OF SNOW DRIFT (w): 0 FT
 MINIMUM HORIZONTAL SEPARATION DISTANCE (s): 20 FT

WIND DESIGN DATA:

BASIC WIND SPEED (V): 115 MPH
 ALLOWABLE STRESS DESIGN WIND SPEED (V_{asd}): 89 MPH
 GUST EFFECT FACTOR (G): 0.85
 INTERNAL PRESSURE COEFFICIENT (GC_{pi}): 0
 WIND EXPOSURE: C

SEISMIC DESIGN DATA:

STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
 SEISMIC IMPORTANCE FACTOR (I_e): 1.0
 SEISMIC DESIGN CATEGORY: B
 SEISMIC SITE CLASS: D
 SHORT SPECTRAL RESPONSE (S_s): 0.32
 1-SEC SPECTRAL RESPONSE (S₁): 0.08
 DESIGN SHORT SPECTRAL RESPONSE (SDS): 0.33
 DESIGN 1-SEC SPECTRAL RESPONSE (SD1): 0.13
 SEISMIC RESPONSE COEFFICIENT (C_s): 0.11
 RESPONSE MODIFICATION COEFFICIENT (R): 3.00
 EQUIVALENT LATERAL FORCE PROCEDURE
 SEE CALCULATIONS FOR ADDITIONAL DATA

ADDITIONAL CRITERIA:

NONE

I hereby certify that this engineering document was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Print Name: BRENDAN RYAN
 License Number: P24040
 License Renewal Date: 12/31/2024

Pages/Sheets Covered by Seal:
 ALL



PRINT DATE: 12/6/2023
 SCALE: 1:68

DRAWN BY: Nathan Kellcutt
 REV LEVEL: A

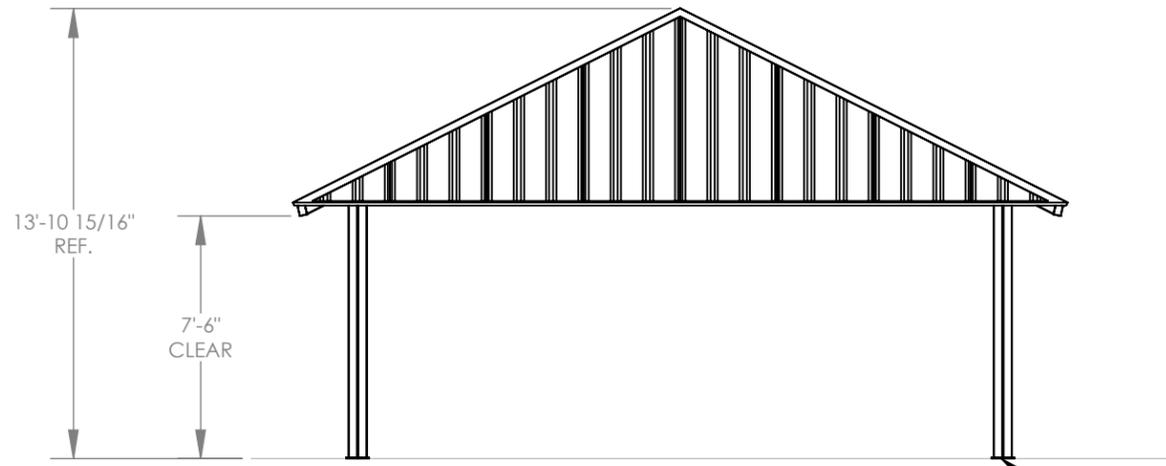
CREATION DATE: 11/15/2016
 ORDER NO: 77841
 CAD MODEL: ~P18237

PROJECT: STORY COUNTY CONSERVATION
 PROJECT LOCATION: AMES, IA
 DRAWING: COVER SHEET

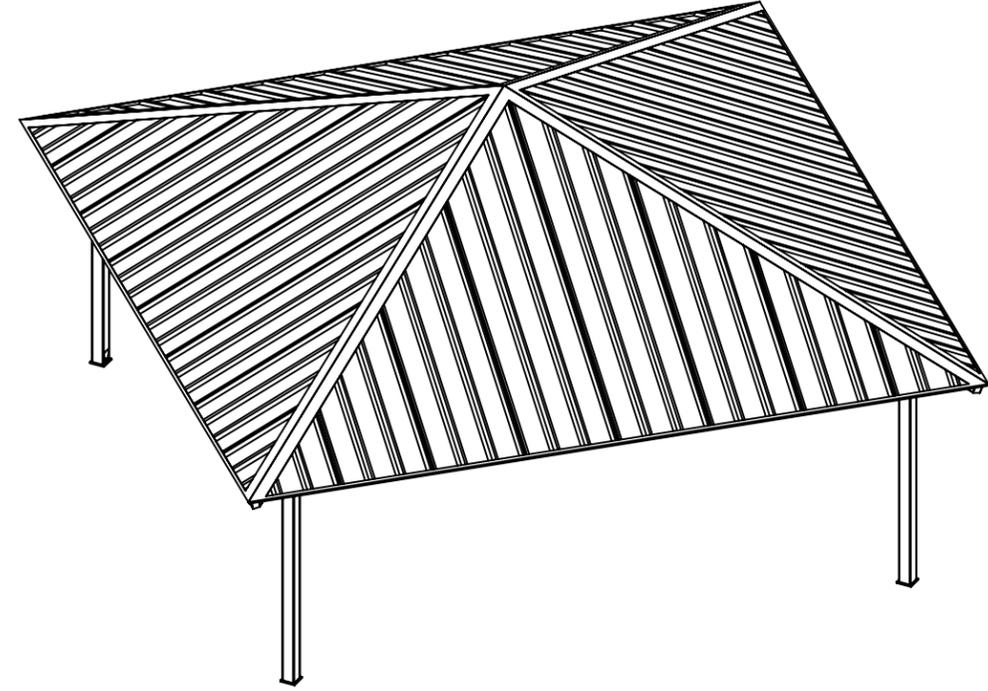
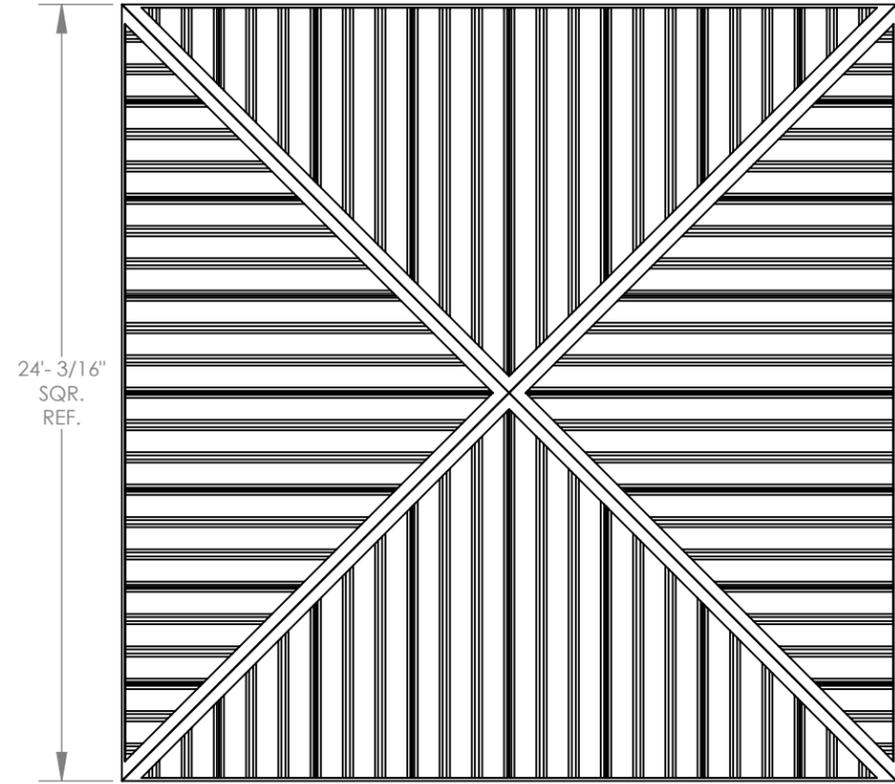
SHEET



IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO BUILDING COMPONENTS DETAILED WITHIN THESE DRAWINGS AND SUPPLIED BY PORTER CORP AS WELL AS THE FOUNDATION DESIGN, IF APPLICABLE.



FINISH GRADE
(ASSUMED AT CONSTANT
ELEVATION UNLESS
OTHERWISE NOTED)

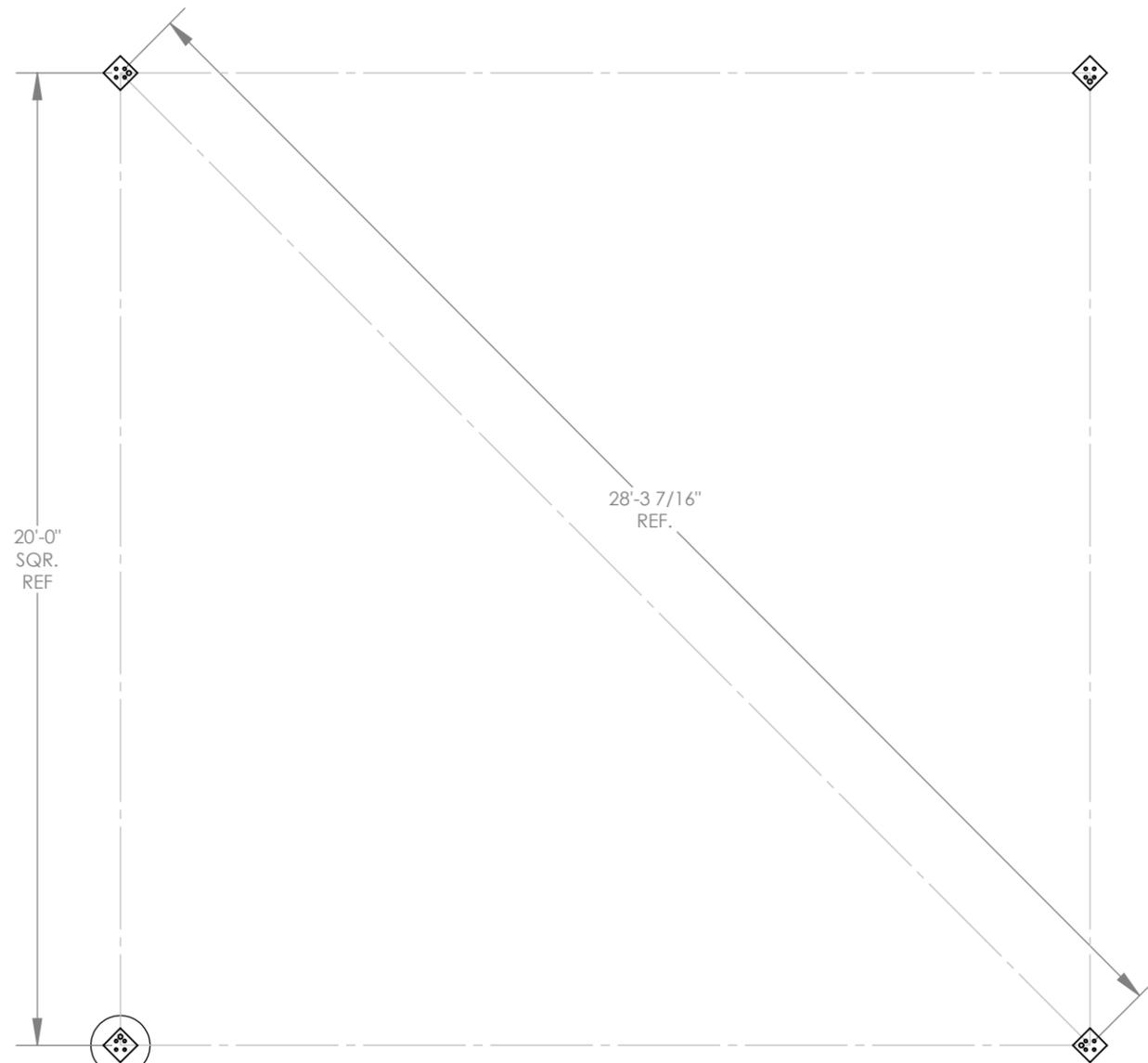


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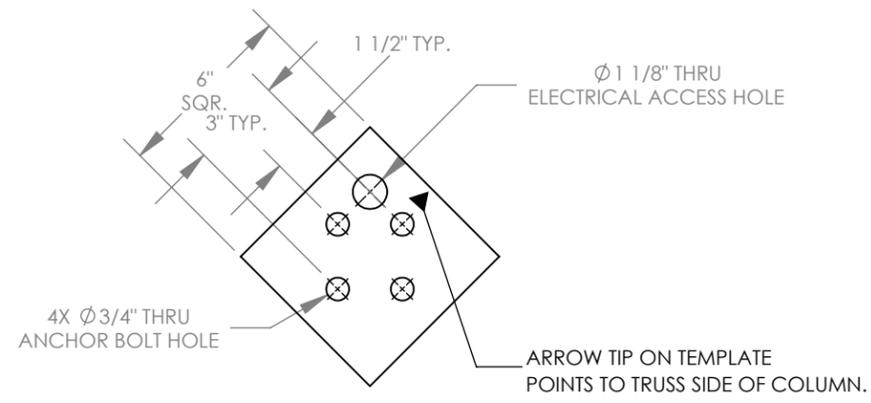
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|-------------------|---------------------------|----------------|------------|------------|-----------------|-------------|-----------|
| PROJECT: | STORY COUNTY CONSERVATION | CREATION DATE: | 11/15/2016 | DRAWN BY: | nathan.kellicut | PRINT DATE: | 12/6/2023 |
| PROJECT LOCATION: | AMES, IA | ORDER NO.: | 77841 | REV LEVEL: | A | SCALE: | 1:68 |
| DRAWING: | ARCHITECTURAL ELEVATIONS | CAD MODEL: | ~P18237 | | | | |
| SHEET | 1 | | | | | | |

ANCHOR AND FOOTING LAYOUT NOTES:

1. ANCHORS MUST BE CENTERED IN FOOTINGS
2. FOOTINGS MUST BE TURNED TO ALIGN WITH COLUMN AND TRUSS CENTERLINE.



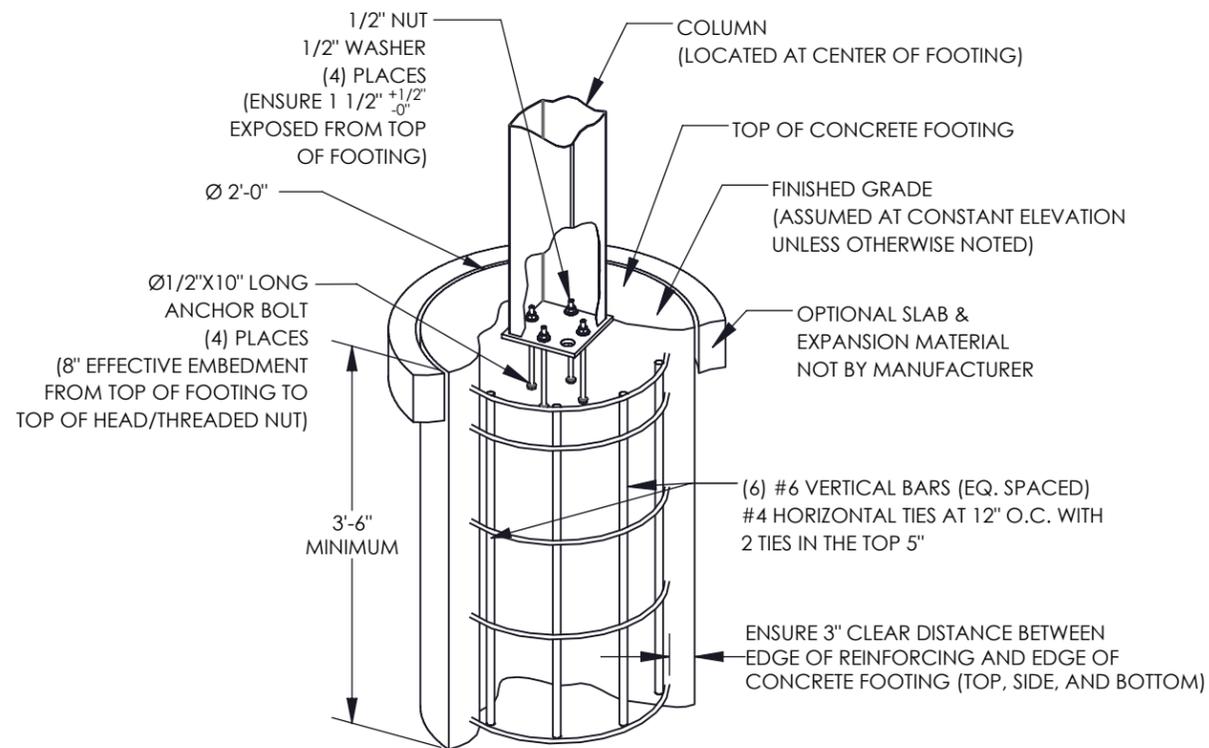
1 SHEET 2



1 ANCHOR BOLT PATTERN
2 BASE PLATE THICKNESS: 1/2"

| | | | |
|------------------------------------|--|----------------------------|-----------------------|
| PROJECT: STORY COUNTY CONSERVATION | CREATION DATE: 11/15/2016 | DRAWN BY: Nathan Kellicott | PRINT DATE: 12/6/2023 |
| | ORDER NO: 77841 | REV LEVEL: A | SCALE: 1:42 |
| PROJECT LOCATION: AMES, IA | CAD MODEL: ~P18237 | | |
| DRAWING: ANCHOR AND FOOTING LAYOUT | WWW.POLIGON.COM MAIN: (616) 888-3500 FIELD SUPPORT: (616) 888-3504 | | |
| SHEET | 2 | | |

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PIER FOOTING OPTION (INTERNAL ANCHOR BOLTS)

FOOTING DESIGN BY MANUFACTURER, FOOTING MATERIALS BY OTHERS.
 (TYPICAL WITH EACH COLUMN, QTY OF REINFORCING AND ANCHOR BOLTS
 SPECIFIED IN NOTES REFLECT SITE SPECIFIC REQUIREMENTS)

ANCHOR BOLT NOTES - INTERNAL (ANCHOR BOLTS LOCATED WITHIN COLUMN):

1. ANCHOR BOLTS SHALL BE ASTM A307 (GRADE A) MATERIAL UNLESS OTHERWISE NOTED.
2. ANCHOR BOLTS SHALL BE EITHER "HEADED" OR "THREADED WITH NUT" AS DEFINED IN THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL.
3. HOOKED ANCHOR BOLTS ARE NOT ACCEPTABLE.
4. ACCURATE ANCHOR BOLT PLACEMENT IS CRITICAL. TO ENSURE THE ANCHOR BOLT LAYOUT MEETS THE DIMENSIONS REQUIRED ON THE DRAWINGS, SURVEY (OR MEASURE) THE LOCATION OF ALL ANCHOR BOLTS PRIOR TO POURING THE FOOTINGS. AN ADDITIONAL SURVEY (OR MEASUREMENT) SHOULD BE MADE AFTER THE FOOTINGS ARE POURED TO CONFIRM THE ANCHOR BOLTS DID NOT SHIFT DURING THE CONCRETE POUR.
5. THE MANUFACTURER STRONGLY RECOMMENDS USING ANCHOR BOLT TEMPLATES BECAUSE THEY SIGNIFICANTLY IMPROVE THE ACCURACY OF ANCHOR BOLT PLACEMENT. AN ANCHOR BOLT TEMPLATE IS PROVIDED WITH ANY ANCHOR BOLT KIT PURCHASED.
6. IF OUTSIDE CONSULTING ENGINEERS ARE DESIGNING THE FOUNDATIONS FOR THIS STRUCTURE, THEY MUST REFER TO THE MANUFACTURER'S CALCULATIONS FOR MINIMUM CONCRETE PROPERTIES (COMPRESSIVE STRENGTH, EDGE DISTANCE, ETC.) REQUIRED FOR THE ANCHOR BOLT DESIGN.
7. ELECTRICAL ACCESS HOLE IS ALWAYS LOCATED IN THE COLUMN BASE PLATE AS SHOWN. BE SURE TO KEEP THE ANCHOR BOLT TEMPLATE PROPERLY ORIENTED WHEN ELECTRICAL ACCESS TO THE COLUMN IS REQUIRED. TEMPLATE MUST BE REMOVED BEFORE INSTALLING COLUMNS.
8. THE CALCULATIONS FOR THIS STRUCTURE ASSUME A PINNED COLUMN BASE.
9. THE FOLLOWING ADHESIVE ANCHORS MAY BE SUBSTITUTED FOR THE CAST-IN-PLACE ANCHOR BOLTS:
 -HILTI HIT-HY 200 (A OR R) V3 ADHESIVE WITH Ø 1/2" HAS-E ROD WITH 6" EFFECTIVE EMBEDMENT.
 CONTRACTOR SHALL FOLLOW ALL INSTALLATION SPECIFICATIONS AND REQUIREMENTS OF ANCHOR MANUFACTURER.

CONCRETE NOTES:

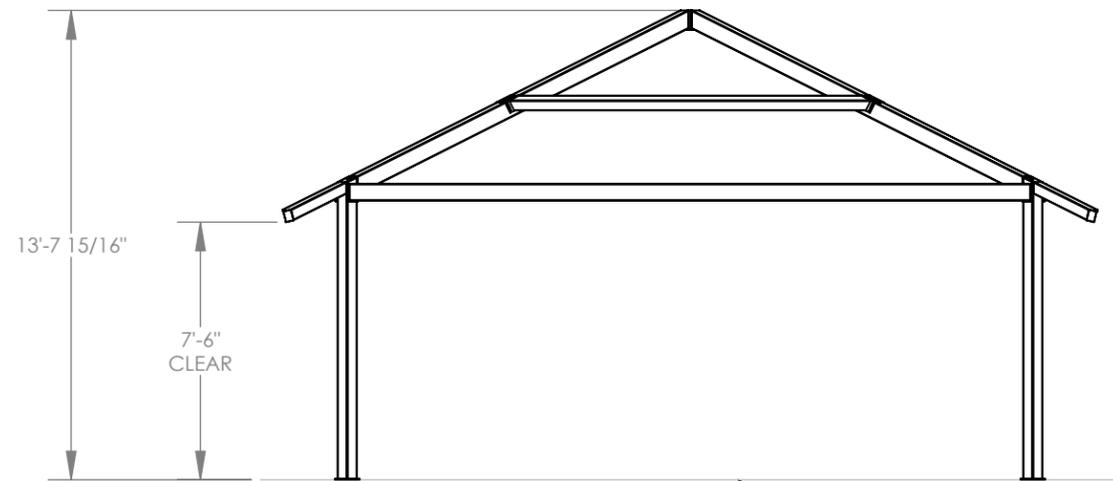
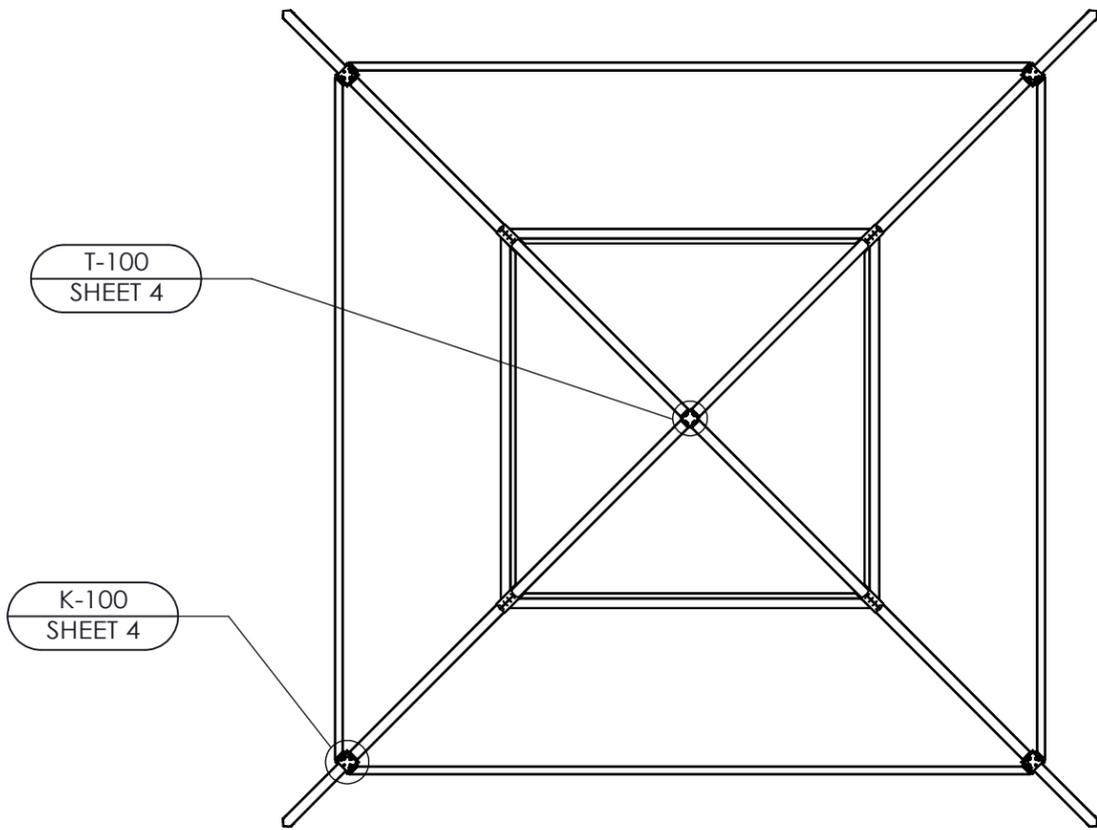
1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE CURRENT "ACI MANUAL OF CONCRETE PRACTICE".
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II OR TYPE V.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CONCRETE MIX DESIGN MEETS THE "ACI MANUAL OF CONCRETE PRACTICE" REQUIREMENTS FOR CONCRETE BY EXPOSURE CLASS.
4. THE USE OF CHLORIDE ACCELERATORS IS NOT PERMITTED.
5. COARSE AGGREGATE SHALL BE #57 OR LARGER.
6. CONCRETE AT PLACEMENT SHALL HAVE A SLUMP OF 4" +/- 1".
7. MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: 4500 PSI.
8. REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A615 (DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A305) AS FOLLOWS:
 GRADE 60: #4 BARS AND LARGER
 GRADE 40: #3 BARS
9. PRIOR TO PLACING OF CONCRETE, REINFORCING STEEL AND EMBEDDED ITEMS SHALL BE WELL SECURED IN POSITION.
10. MAINTAIN 3" CONCRETE COVERAGE TO FACE OF BARS UNLESS OTHERWISE NOTED.
11. BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
12. WELDING OF REINFORCEMENT IS NOT ALLOWED.
13. ALL EXPOSED EXTERNAL CORNER OF FOUNDATIONS TO BE CHAMFERED BY 3/4" BY 45 DEGREES UNLESS NOTED OTHERWISE.
14. ALL NEW CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OF REMOVING FORMWORK. CURING SHALL BE EITHER A MOIST CURE METHOD OR THE USE OF A CURING COMPOUND.

FOUNDATION NOTES:

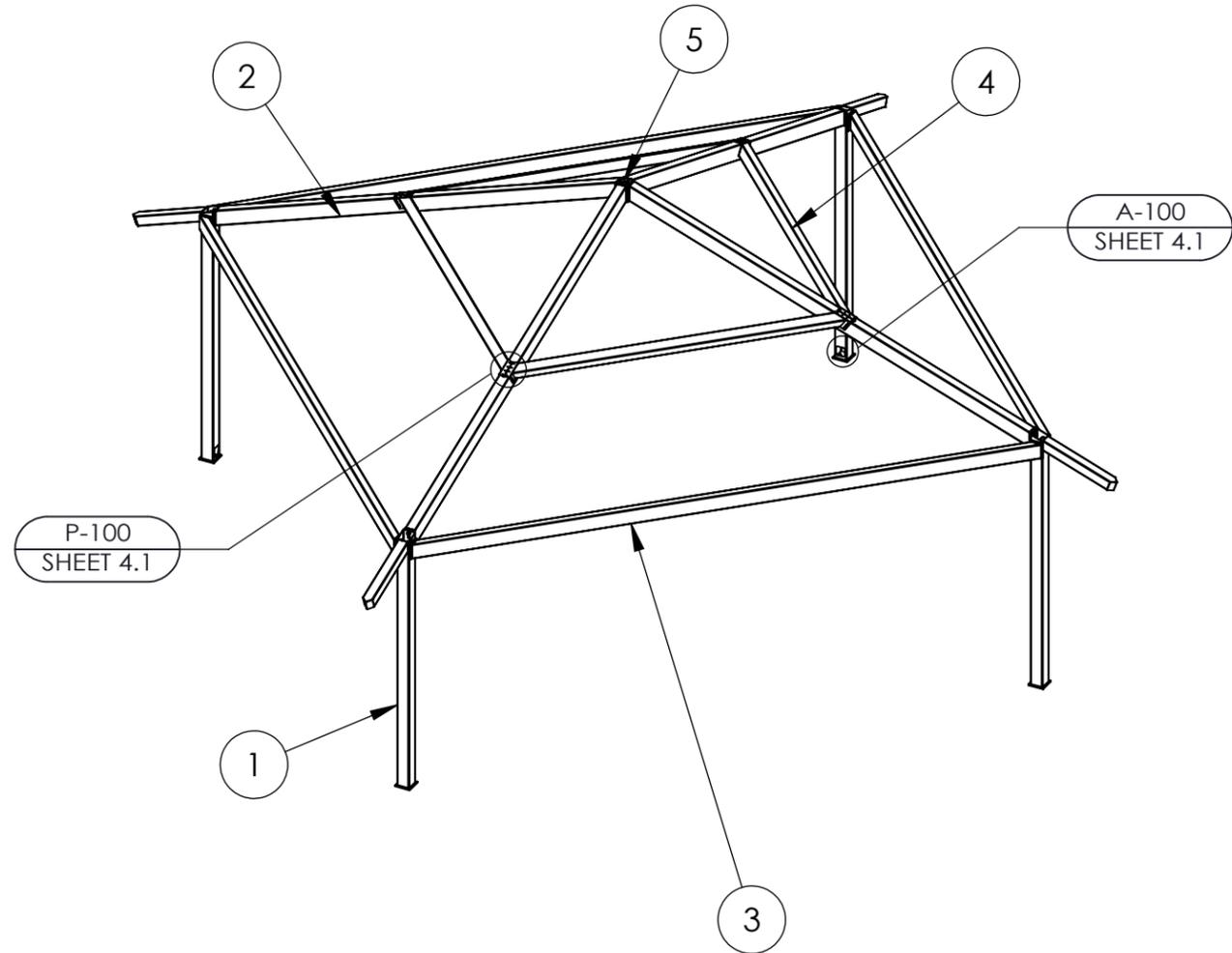
1. FOUNDATIONS SHALL BEAR ON COMPETENT, UNDISTURBED SOIL OR 95% COMPACTED FILL. IF SIGNS OF ORGANIC MATERIAL, UNCONTROLLED FILL, CLAY OR SILT, HIGH WATER TABLE OR OTHER POSSIBLE DETRIMENTAL CONDITIONS ARE FOUND, CONSTRUCTION OF THE FOUNDATIONS MUST BE STOPPED AND A GEOTECHNICAL ENGINEER BE CONTACTED.
2. NO FOUNDATIONS SHALL BE PLACED INTO OR ADJACENT TO SUBGRADE CONTAINING WATER, ICE, FROST, ORGANIC OR LOOSE MATERIAL.
3. WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN FOUNDATION EXCAVATIONS.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCAL FROST DEPTH REQUIREMENT PRIOR TO CONSTRUCTION.
5. IF FOUNDATIONS SHOWN DO NOT MEET LOCAL FROST DEPTH REQUIREMENTS, EXTEND THE DRILLED PIER FOUNDATION AS REQUIRED, EXTENDING THE VERTICAL BARS AND PROVIDING ADDITIONAL TIES TO MEET SPACING REQUIREMENTS AS SHOWN. IF FROST DEPTH REQUIREMENTS ARE NOT MET, AND NO DRILLED PIER DESIGN IS PROVIDED, CONTACT POLIGON.
6. ALLOWABLE SOIL PRESSURES (AS APPLICABLE):

| DRILLED PIER | |
|------------------|------------|
| VERTICAL BEARING | 1500 PSF |
| LATERAL BEARING | 100 PSF/FT |

THE FOUNDATION DESIGN SHOWN ON THESE DRAWINGS IS NOT SITE SPECIFIC, BUT BASED ON THE PRESUMPTIVE ALLOWABLE FOUNDATION PRESSURES IN CHAPTER 18 OF THE BUILDING CODE (CLASS 5 SOIL). THE BUILDING OFFICIAL IN THE JURISDICTION IN WHICH THIS STRUCTURE IS LOCATED MAY REQUIRE A SITE SPECIFIC GEOTECHNICAL REPORT OR LETTER FROM A QUALIFIED LOCAL PROFESSIONAL ENGINEER ATTESTING TO WHETHER THE ACTUAL SITE CONDITIONS MEET THE ASSUMPTIONS IDENTIFIED ABOVE.



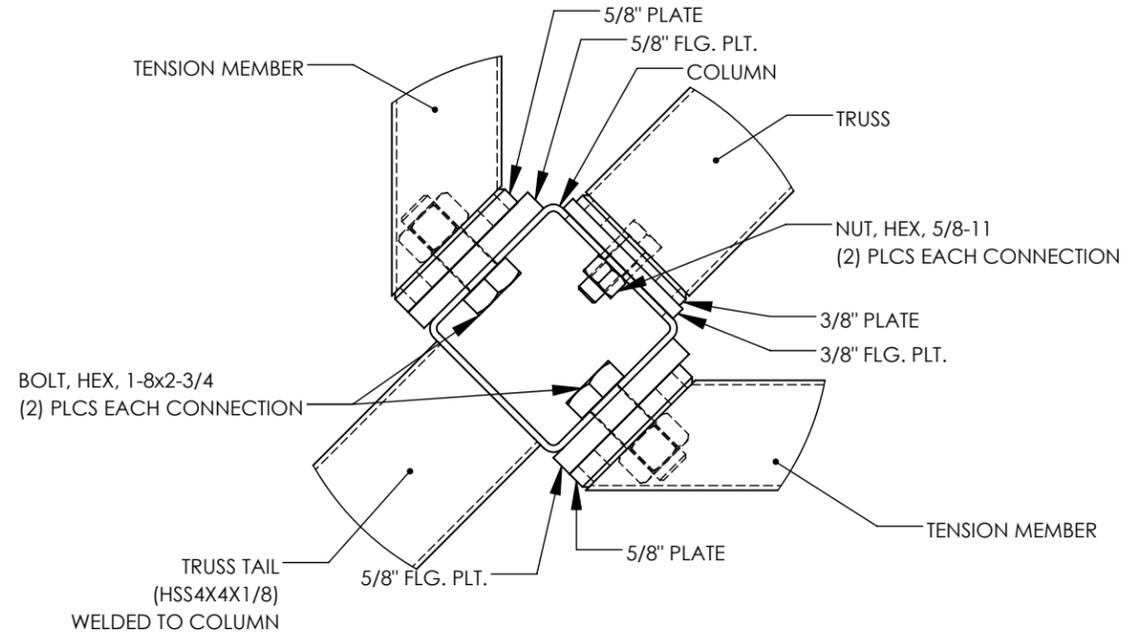
FINISH GRADE
(ASSUMED AT CONSTANT
ELEVATION UNLESS
OTHERWISE NOTED)



| ITEM | QTY. | PART NO. | DESCRIPTION | MATERIAL | WEIGHT |
|------|------|----------|--------------|-------------|--------|
| 5 | 1 | - | C-TUBE ASM | HSS5X5X1/2 | 15.30 |
| 4 | 4 | - | PURLIN A ASM | HSS4X4X1/8 | 68.25 |
| 3 | 4 | - | T-MEM ASM | HSS6X3X1/8 | 150.18 |
| 2 | 4 | - | TRUSS ASM | HSS6X4X1/8 | 122.16 |
| 1 | 4 | - | COLUMN ASM | HSS5X5X3/16 | 135.30 |

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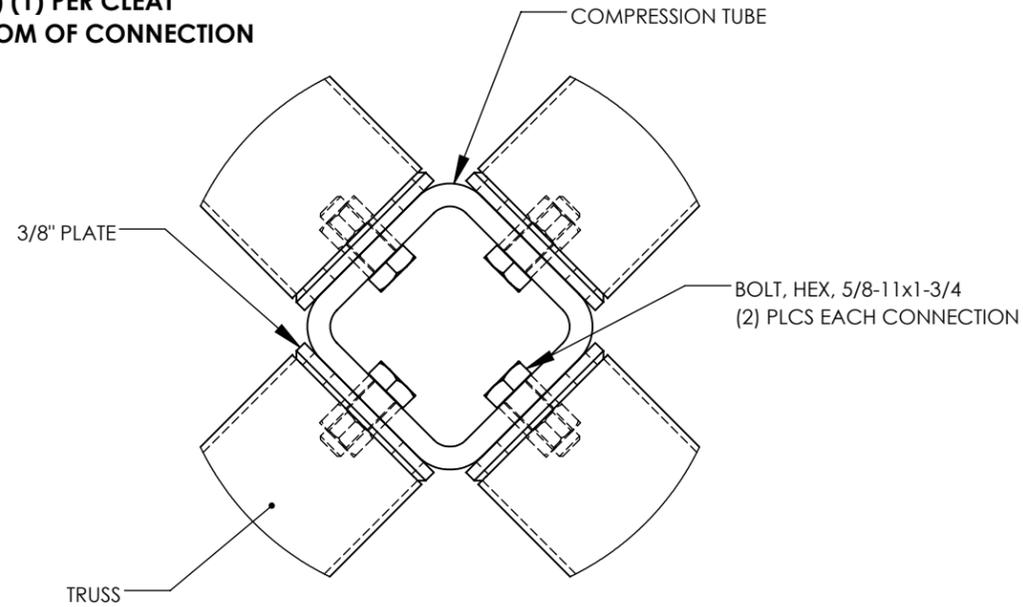
NOTE:
SEE UC-100 FOR U-CLIP INSTALLATION



COLUMN CONNECTIONS

K-100

NOTE:
CTUBE COVER PLATE
ATTACHED WITH POP RIVETS
(1P2903) (1) PER CLEAT
AT BOTTOM OF CONNECTION

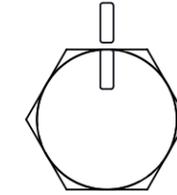


COMPRESSION MEMBER CONNECTION

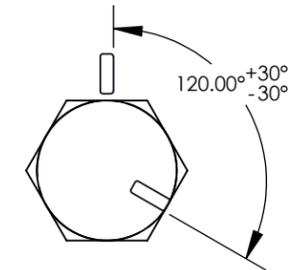
T-100

TURN-OF-NUT PRETENSIONING METHOD:
THESE STEPS ILLUSTRATE THE REQUIREMENTS OUTLINED IN THE AISC SPECIFICATION. THE ROTATION INDICATED IS ACCURATE FOR MOST BOLT DIAMETERS AND LENGTHS BUT IT IS THE RESPONSIBILITY OF THE INSTALLER TO MEET AISC REQUIREMENTS.

STEP ONE:
AFTER SNUG TIGHT,
MATCH MARK PLATE

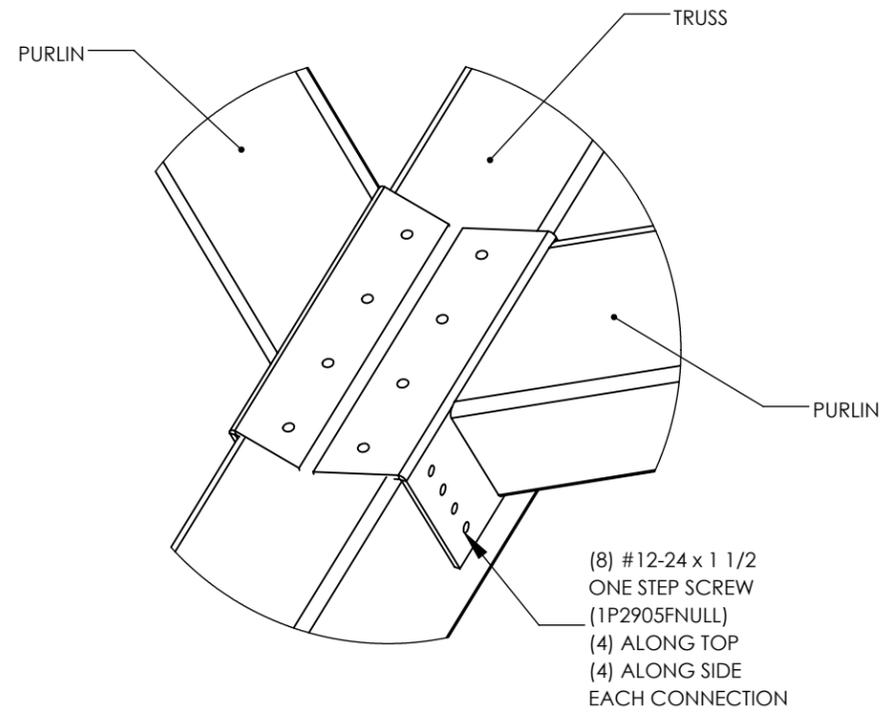


STEP TWO:
THEN TURN BOLT/NUT PAST
SNUG TIGHT 1/3 TURN



CONNECTION NOTES:

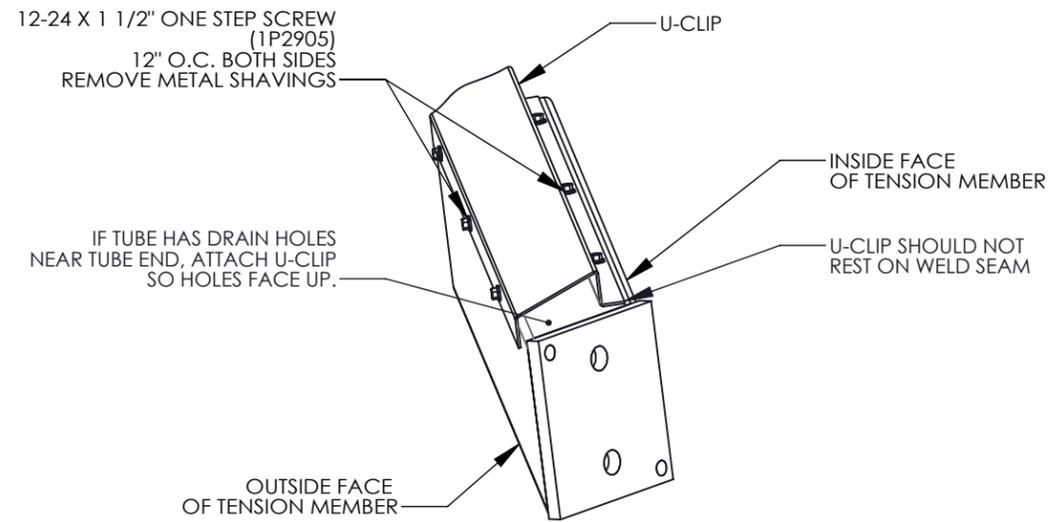
1. HIGH STRENGTH BOLTS SHALL BE ASTM F3125 (A325, TYPE 1) MATERIAL.
2. HIGH STRENGTH NUTS SHALL BE ASTM A563 (GRADE DH) MATERIAL.
3. HIGH STRENGTH WASHERS SHALL CONFORM TO ASTM F436.
4. UNLESS A SNUG-TIGHT JOINT IS PERMITTED IN THE CONNECTION DETAIL, ALL BOLTS ARE TO BE INSTALLED BY ONE OF THE FOLLOWING PRETENSIONING METHODS AS SPECIFIED IN THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", SECTION 8:
A. TURN-OF-NUT PRETENSIONING
B. CALIBRATED WRENCH PRETENSIONING
5. THE SNUG-TIGHT CONDITION IS 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 CONNECTED PLIES INTO FIRM CONTACT.
6. ANCHOR BOLTS NEED NOT BE TIGHTENED PAST SNUG-TIGHT.
7. WHEN INSTALLING BOLTS REFER TO SECTIONS 8.4.1, 8.4.2, AND 8.4.3 OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS" FOR GUIDANCE.
8. LOCAL JURISDICTIONS MAY REQUIRE AN INSPECTOR TO BE PRESENT TO WITNESS HARDWARE INSTALLATION AND INDEPENDENT TESTING. INSPECTION REQUIREMENTS SHOULD BE VERIFIED BY INSTALLER PRIOR TO STEEL ERECTION.
9. ERECTION OF THE FRAMING MEMBERS WILL REQUIRE THE MAIN COLUMNS TO BE PLUMB SQUARE AND TIGHTENED TO THE TRUSSES AND/OR TENSION MEMBERS BEFORE INSTALLING THE PURLINS. PURLINS, IF REQUIRED, MUST BE AS SHOWN IN FRAMING PLAN.
10. TEMPORARY SHORING OR BRACING SHALL BE USED TO COMPACT THE JOINTS UNTIL THE CONNECTED PLIES ARE IN FIRM CONTACT PRIOR TO PRETENSIONING.
11. PRIOR TO THE ERECTION OF SHELTER COMPONENTS, IT IS RECOMMENDED TO CHASE AND TAP STRUCTURAL HARDWARE.
12. ALL BOLTS MUST BE LUBRICATED WITH WAX TO ASSIST IN PROPER TIGHTENING. TO LUBRICATE A BOLT IN THE FIELD, APPLY THE WAX STICK DOWN THE LENGTH OF THE BOLT'S THREADS.
13. TO PREVENT RUST STAINING OF FINISH, ALL METAL SHAVINGS MUST BE REMOVED AFTER INSTALLATION. ENSURE NO SHAVING ARE TRAPPED BETWEEN MATING SURFACES.
14. TOUCH-UP PAINT MUST BE APPLIED TO ALL EXPOSED FASTENERS. PERIODIC TOUCH-UP AT THESE CONNECTIONS IS REQUIRED.



PURLIN CONNECTION

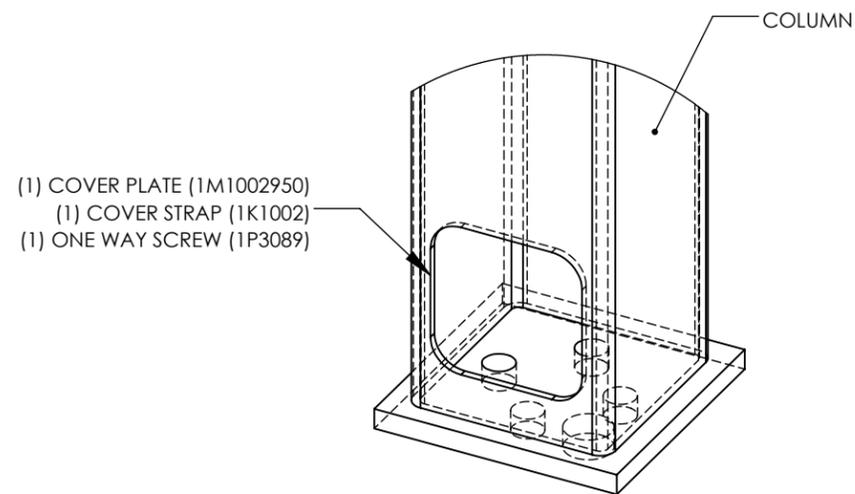
P-100

**NOTE:
U-CLIP MUST BE ATTACHED TO
TENSION MEMBER AS SHOWN
PRIOR TO BUILDING ASSEMBLY.**



U-CLIP CONNECTION

UC-100



ANCHOR ACCESS COVER PLATE

A-100

PRINT DATE: 12/6/2023
SCALE: 1:4

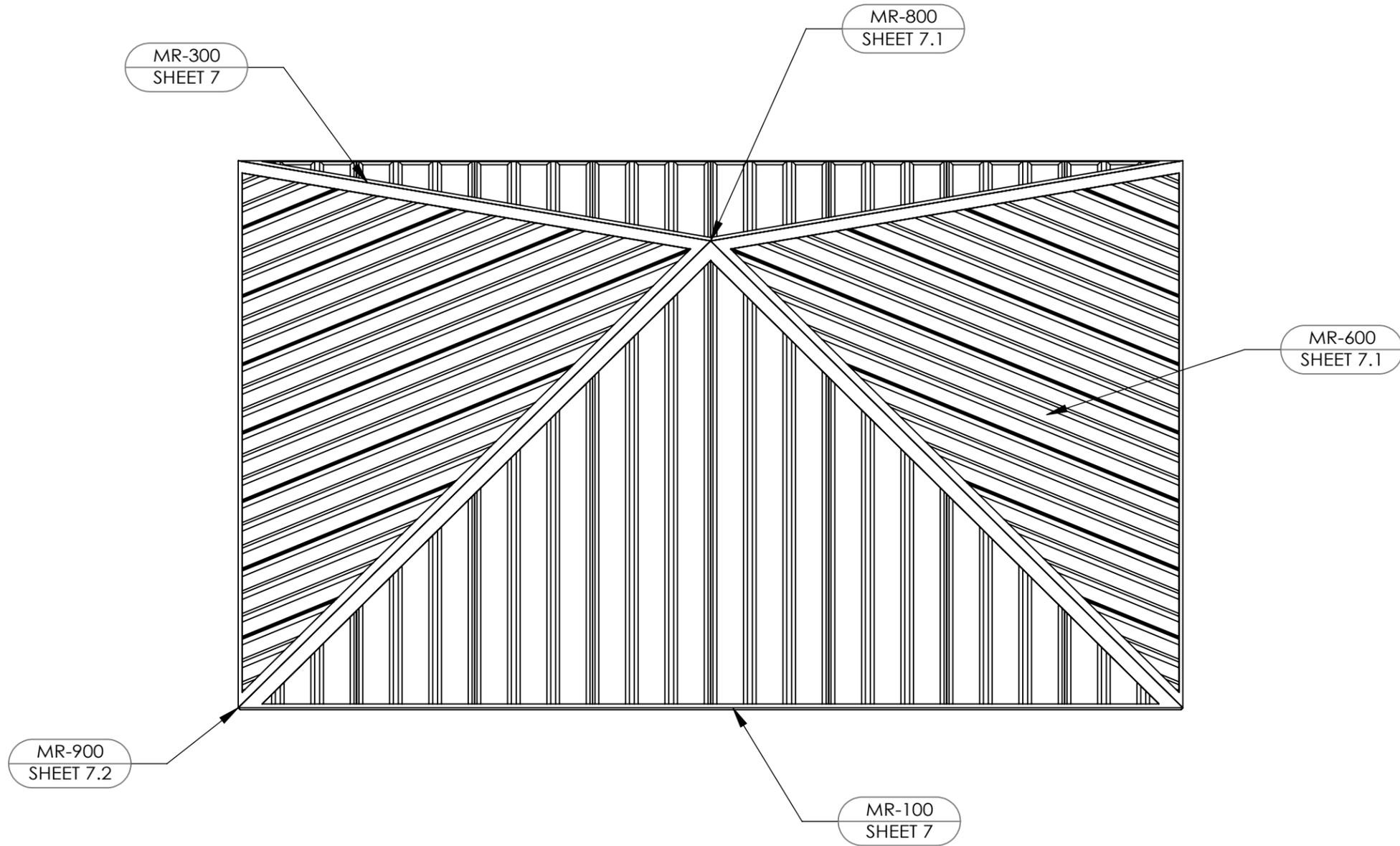
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SHEET

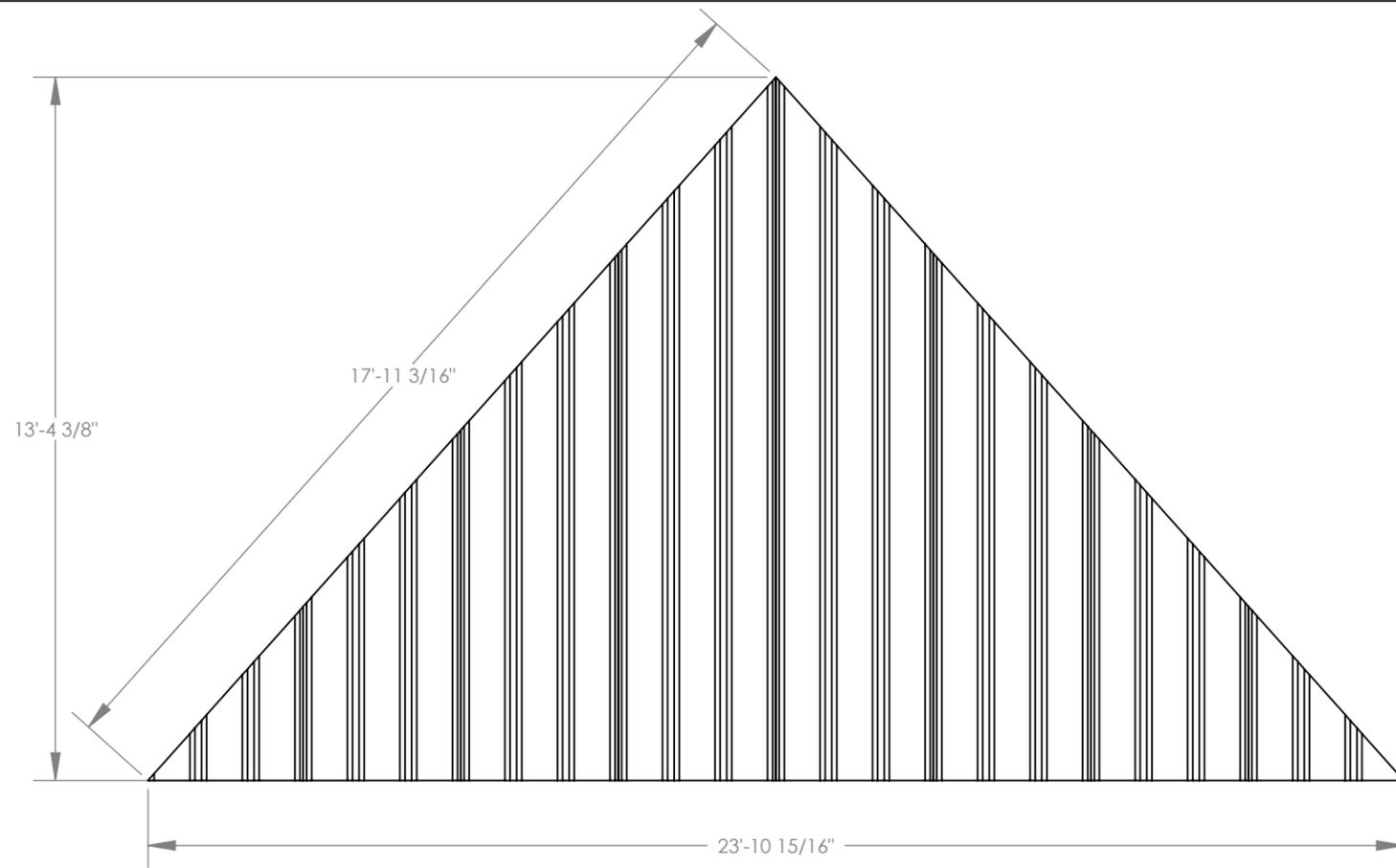
4.1



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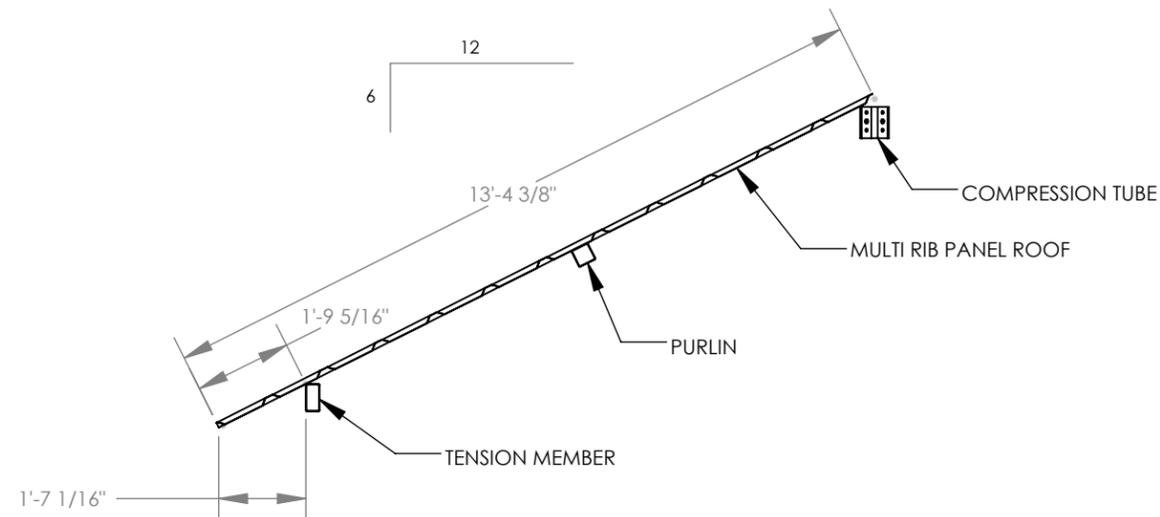
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|---------------------------------------|----------------|------------|------------|-----------------|---|-----------|
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| | ORDER NO: | 77841 | REV LEVEL: | A | SCALE: | 1:40 |
| PROJECT LOCATION: AMES, IA | CAD MODEL: | | ~P18237 | | WWW.POLIGON.COM | |
| DRAWING: ROOF OVERVIEW | | | | | MAIN: (616) 888-3500 FIELD SUPPORT: (616) 888-3504 | |
| SHEET | 6 | | | | | |





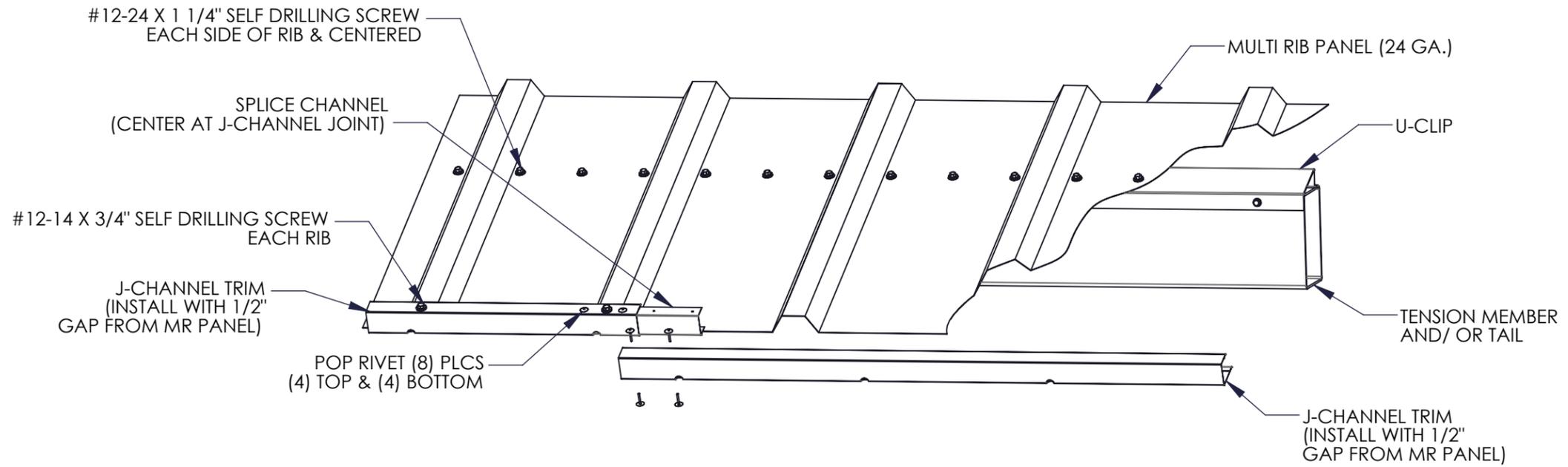
MULTI-RIB NOTES:

1. THE DETAILS SHOWN ARE SUGGESTIONS OR GUIDELINES ON HOW TO ERECT THE SYSTEMS. THE INFORMATION SHOWN IS ACCURATE, BUT IT IS NOT INTENDED TO COVER ALL INSTANCES, BUILDING REQUIREMENTS, DESIGNS OR CODES. THE DETAILS MAY REQUIRE CHANGES OR REVISIONS DUE TO FIELD CONDITIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE ERECTOR TO ENSURE THAT THE DETAILS MEET PARTICULAR BUILDING REQUIREMENTS AND TO ASSURE ADEQUATE WATER TIGHTNESS.
3. THE ERECTOR SHOULD THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH ALL ERECTION INSTRUCTIONS BEFORE STARTING WORK.
4. THE PANELS SHOULD BE INSTALLED PLUMB, STRAIGHT, AND ACCURATELY TO THE ADJACENT WORK.
5. FLASHING AND TRIM SHALL BE INSTALLED TRUE, AND IN PROPER ALIGNMENT, WITH ANY EXPOSED FASTENERS EQUALLY SPACED FOR THE BEST APPEARANCE.
6. SEALANT SHALL BE FIELD APPLIED ON DRY, CLEAN SURFACES. SOME FIELD CUTTING AND FITTING OF PANELS AND FLASHING IS TO BE EXPECTED BY THE ERECTOR AND MINOR FIELD CORRECTIONS ARE A PART OF NORMAL ERECTION WORK.
7. WORKMANSHIP SHALL BE OF THE BEST INDUSTRY STANDARDS AND INSTALLATION SHALL BE PERFORMED BY EXPERIENCED METAL CRAFTSMEN.
8. METAL SHAVINGS FROM DRILLING OR INSTALLATION OF ROOF FASTENERS MUST BE CAREFULLY REMOVED FROM THE ROOF BY BRUSHING OR SWEEPING AT THE END OF EACH DAY DURING INSTALLATION. SHAVINGS LEFT ON THE ROOF WILL QUICKLY RUST AND STAIN THE ROOF FINISH.



IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO BUILDING COMPONENTS (AND FOUNDATION DESIGN IF APPLICABLE) DETAILED WITHIN THESE DRAWINGS.

| | | | |
|---|---|---|---|
| <p>PROJECT: STORY COUNTY CONSERVATION PROJECT LOCATION: AMES, IA DRAWING: ROOF LAYOUT</p> | <p>CREATION DATE: 11/15/2016 ORDER NO: 77841 CAD MODEL: ~P18237</p> | <p>PRINT DATE: 12/6/2023 SCALE: 1:40</p> | <p>poligon by PORTER CORP</p> <p style="font-size: small;">WWW.POLIGON.COM MAIN: (616) 888-3500 FIELD SUPPORT: (616) 888-3504</p> |
| <p>SHEET</p> <p style="font-size: large; font-weight: bold;">6.1</p> | | | |



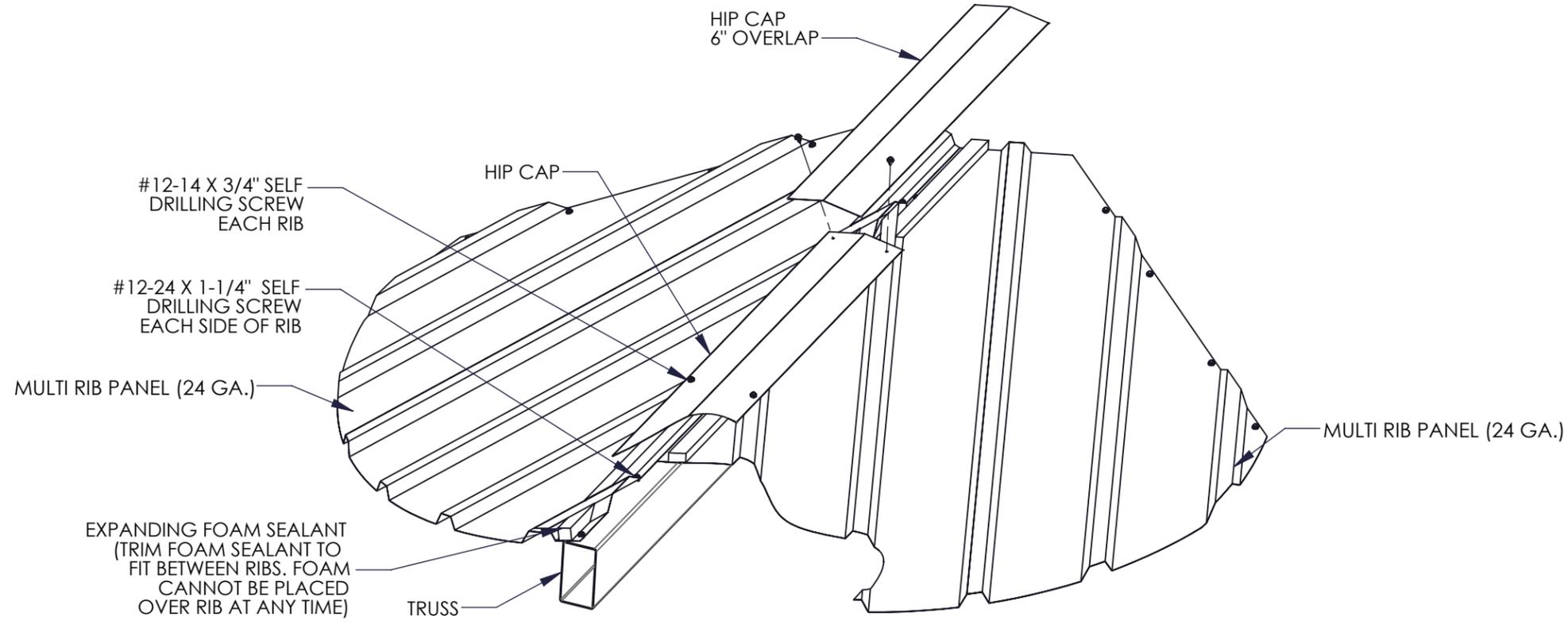
PART DESCRIPTIONS:

-  #12-14x3/4" SELF DRILLING SCREW.
-  #12-24x1 1/4" SELF DRILLING SCREW.
-  1/8" POP RIVET.

2023A

EAVE DETAIL

MR-100

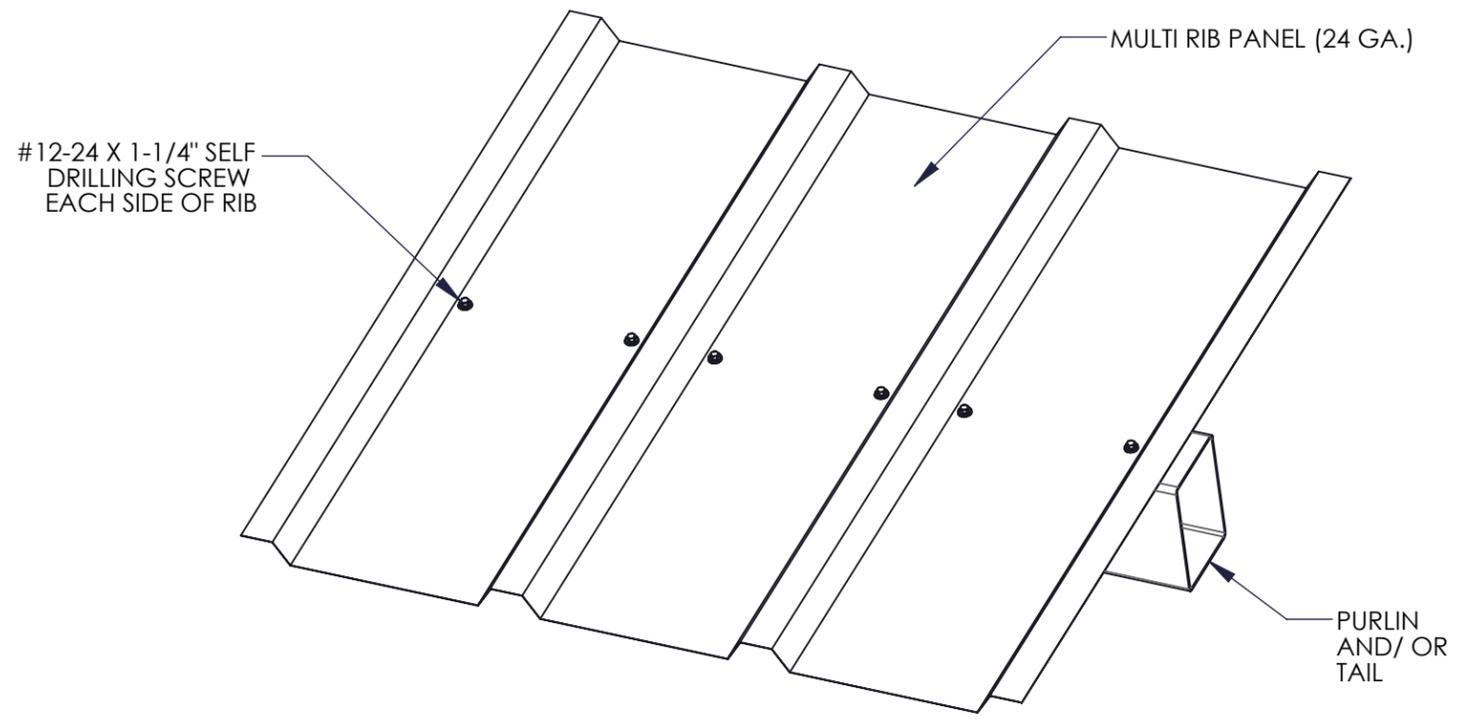


2023A

TRUSS DETAIL

MR-300

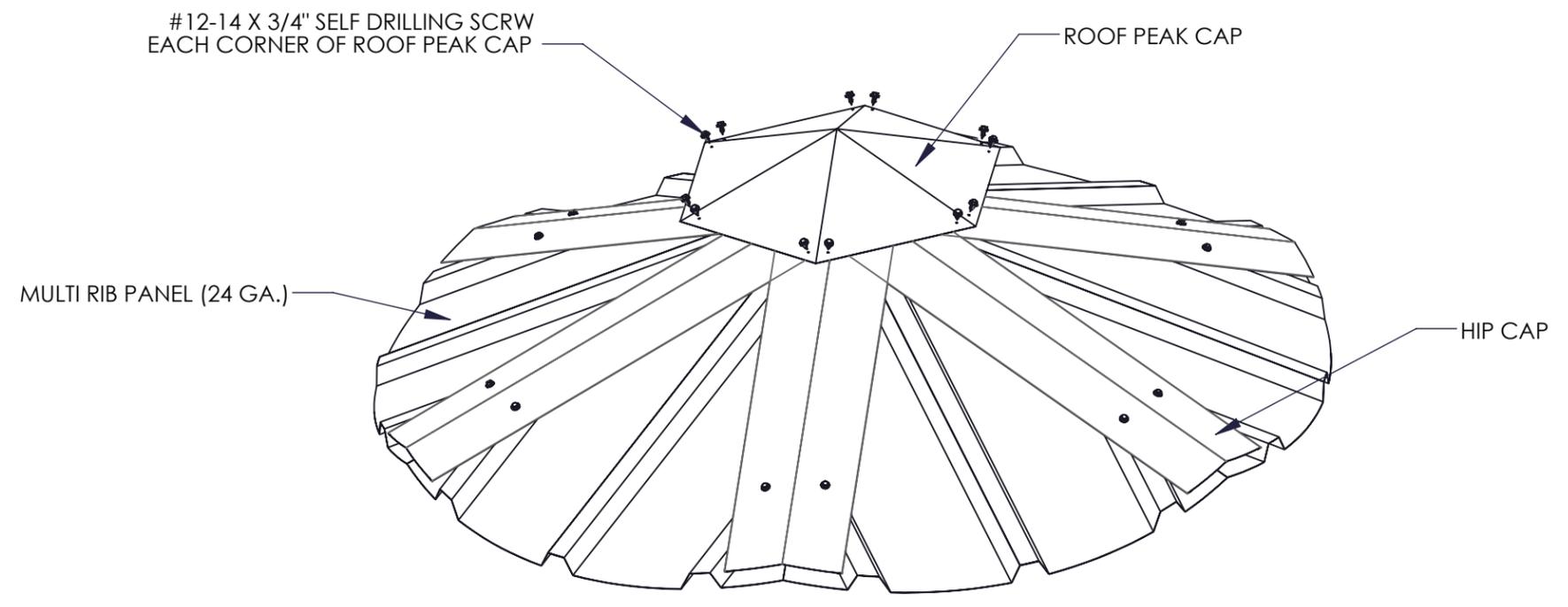
| | | | | |
|---|---|--|--|---|
| <p>PROJECT: STORY COUNTY CONSERVATION</p> <p>PROJECT LOCATION: AMES, IA</p> <p>DRAWING: ROOF CONNECTION DETAILS</p> | <p>CREATION DATE: 11/15/2016</p> <p>ORDER NO: 77841</p> <p>CAD MODEL: ~P18237</p> | <p>DRAWN BY: Nathan Kellicut</p> <p>REV LEVEL: A</p> | <p>PRINT DATE: 12/6/2023</p> <p>SCALE: NTS</p> | <p>WWW.POLIGON.COM</p> <p>MAIN: (616) 888-3500</p> <p>FIELD SUPPORT: (616) 888-3504</p> |
| | <p>poligon by PORTER CORP</p> | | | |
| <p>IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO BUILDING COMPONENTS (AND FOUNDATION DESIGN IF APPLICABLE) DETAILED WITHIN THESE DRAWINGS.</p> | | | | <p>SHEET</p> <p>7</p> |



2022A

PURLIN DETAIL

MR-600



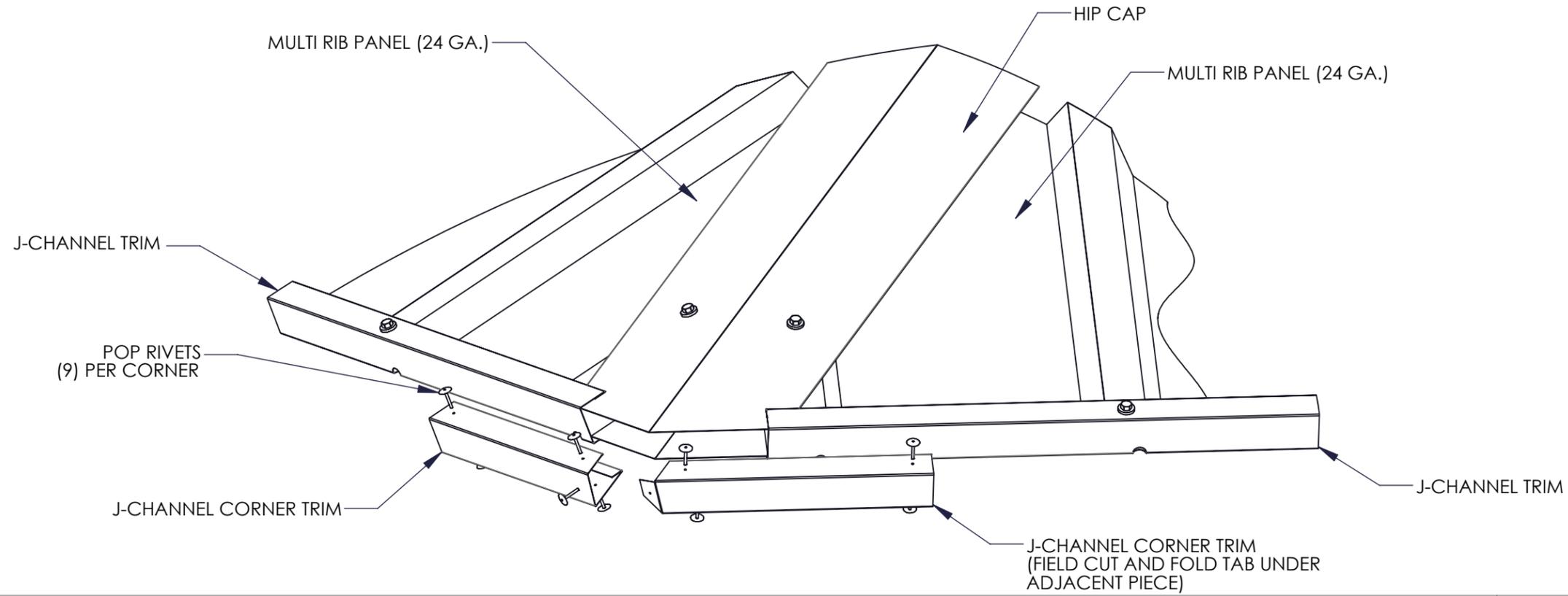
2022A

ROOF PEAK DETAIL

MR-800

| | | | |
|--|--|-------------------------------------|--|
| PROJECT: STORY COUNTY CONSERVATION PROJECT LOCATION: AMES, IA DRAWING: ROOF CONNECTION DETAILS | DRAWN BY: Nathan Kellicut REV LEVEL: A | PRINT DATE: 12/6/2023 SCALE: NTS | WWW.POLIGON.COM MAIN: (616) 888-3500 FIELD SUPPORT: (616) 888-3504 |
| | CREATION DATE: 11/15/2016 ORDER NO: 77841 CAD MODEL: ~P18237 | | |
| SHEET | | 7.1 | |

IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO BUILDING COMPONENTS (AND FOUNDATION DESIGN IF APPLICABLE) DETAILED WITHIN THESE DRAWINGS.



2022A

CORNER DETAIL

MR-900

PRINT DATE: 12/6/2023

SCALE: NTS

REV LEVEL: A

ORDER NO: 77841

CAD MODEL: ~P18237

PROJECT: STORY COUNTY CONSERVATION

PROJECT LOCATION: AMES, IA

DRAWING: ROOF CONNECTION DETAILS

SHEET

7.2

IF THESE DRAWINGS ARE SEALED, THE SEAL APPLIES ONLY TO BUILDING COMPONENTS (AND FOUNDATION DESIGN IF APPLICABLE) DETAILED WITHIN THESE DRAWINGS.