

**City of Negaunee
PO Box 70
319 W. Case Street
Negaunee, MI 49866
906 475-9991**

INVITATION FOR BIDS

Sealed bids will be received by the City of Negaunee located at 319 W. Case Street, Negaunee, Michigan, 49866 until 1:00PM, April 24, 2023, a for **Bike Shelter** for the Negaunee Downtown Enhancement Project.

Bid shall be submitted and addressed to the Negaunee City Clerk, City of Negaunee, PO Box 70, 319 W. Case Street, Negaunee, MI 49866. Envelope shall be sealed and clearly marked "**Bike Shelter**"– Negaunee Downtown Enhancement Project." Bids must be received before or by the above date and time. No fax or email bids will be accepted.

Bids will be opened on April 24, 2023, at 1:00PM at **319 W. Case Street (City Hall), second floor conference room.**

The City reserves the right to accept any or all bids or accept any part of a bid. Each of the items may be purchased individually or as a lump sum bid.

BID FORM

Vendor: _____

Address: _____

City of Negaunee – Streetlight Vendor				
Item Description	Quantity	Unit	Unit Price	Total Price
Item 1		Each		
Item 2		Each		
Item 3 (total shipping)		Each		

TOTAL BID

\$

(words)

Item 1: Construction of one bike shelter

Construct one bike shelter 8ft (W) by 10 ft (L) by 8ft (H), with 3:13 roof slope, base to be affixed to concrete surface. Icon design or equivalent (see attached specifications and sample plans)

Metal roof color to be chosen by owner.

Flooring to be poured concrete supplied by others.

Permits to be acquired by contractor.

Item 2: Installation/assembly based on Manufactures specifications and standard building codes of the State of Michigan, Marquette County.

Item 3: Shipping (priced by shipping source)

Shipping by source

Delivered to:600 Cherry Street, Negaunee, Michigan 49866

Product Guide Specification

DIVISION 10 73 00

SPECIALTIES MANUFACTURER OF PROTECTIVE COVERS

PART 1 - GENERAL

1.01 DESCRIPTION OF PRODUCT

- A. Shelter Type: **8' X 10' Monoslope style shelter with Multi-Rib roof panels.**
- B. Roof Slope: **3:12**
- C. Clear height under Tie Beam (UTB): **8'-0"**. This is the clearance under the tie beam which spans between the columns.

1.02 REFERENCES

A. REFERENCED STANDARDS

- 1. AISC – American Institute of Steel Construction
 - a. AISC Steel Construction Manual – 14th edition
 - b. AISC 360-10 Specification for Structural Steel Buildings
- 2. ASTM – American Society for Testing and Materials
 - a. ASTM A36/A36M – Standard Specification for Carbon Structural Steel; 2008
 - b. ASTM A325 – Standard Specification for Structural Steel Bolts, Heat Treated, 120/105 ksi Minimum Tensile Strength; 2010
 - c. ASTM A563 – Standard Specification for Carbon and Alloy Steel Nuts; 2007a
 - d. ASTM A500 – Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2010a
 - e. ASTM A653/A653M – Standard Specification for Sheet Steel, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvanealed) by the Hot Dip Process; 2010
 - f. ASTM A792/A792M – Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy Coated by the Hot-Dip Process; 2010
 - g. ASTM F1554 – Standard Specification for Anchor Bolts, Steel, 36, 50 and 105 ksi Yield Strength; 2007a
- 3. AWS – American Welding Society
 - a. D1.1
 - b. D1.3
 - c. D1.8
- 4. OSHA – Occupational Safety and Health Administration
 - a. Steel Erection Standard 29 CFR 1926.750 Part R
- 5. SSPC – Steel Structures Painting Council
 - a. SSPC-SP 2 – Hand Tool Cleaning; 2004
 - b. SSPC-SP 10/NACE No. 2 – Near White Blast Cleaning; 2007
- 6. LEED – Leadership in Energy and Environmental Design
- 7. ISO – International Organization for Standardization

1.03 SYSTEM DESCRIPTION

- A. The structure shall be a pre-engineered package and shall be shipped as a pre-cut (excluding standing seam roof panels) and pre-fabricated package that shall include the structural framing members, roof panels, fasteners and roof trim as well as job specific installation instructions. The structure will be shipped in an un-assembled package for ease of shipment and minimum shipping charges.

1.04 SUBMITTALS

- A. Submit a minimum of four (4) sets of submittal drawings and (2) sets of structural calculations signed and sealed by a Professional Engineer licensed in the state of Michigan.
- B. PRODUCT DESIGN REQUIREMENTS:
1. The structure shall meet the following design requirements:
 - a. Building Code: 2015 International Building Code
 - b. Ground Snow Load: 60 p.s.f.
 - c. Live Load: 20 p.s.f.
 - d. Wind Speed: 90 m.p.h. Exp "C"
 - e. Seismic Design Category: D
- C.
- D. SUBMITTAL REQUIREMENTS
1. Calculations:
 - a. Design according to the requirements of the national, state or local building codes as indicated in Section 1.04.B.
 - b. Calculations shall include all member design for each different member type.
 - c. Connection design for each different connection that will determine the design of the bolts, welds, plate thickness and anchorage to the foundation.
 - d. Foundation design shall be for the loads applied, not a generic foundation design, while taking into account all soils information.
 2. Submittal Drawings:
 - a. Anchor bolt layout with all appropriate dimensions for installation.
 - b. Site specific foundation design.
 - c. Isometric as well as elevation and plan views of the farming members along with the member sizes and locations indicated on the drawings.
 - d. Connection details for every connection on the frame.
 - e. Roof panel connections and trim installation details.
 - f. All accessories on the structure shall have an installation detail as well as connection details.
- E. FOUNDATION DESIGN
1. The foundation design shall be supplied by the manufacturer.
 2. Anchor bolts shall be supplied by the manufacturer.
 3. Foundation materials and labor shall be provided by the structure contractor.
 4. Owner should provide site specific soils information for proper foundation design, if that data is not provided the foundation will be design for the minimum soil values allowed by code.

1.05 QUALITY ASSURANCE

- A. MANUFACTURER QUALIFICATIONS
1. The product shall be designed, engineered and fabricated at a facility operated and directly supervised by the manufacturer.
 2. The manufacturer shall have a minimum of 15 years in steel shelter fabrication.
 3. Full Time on Staff Quality Assurance Manager.
 4. All welders must be AWS certified for welding steel structures.
 5. Membership in the American Welding Society (AWS).
 6. Membership in the American Institute of Steel Construction (AISC).
 7. Access to Licensed Engineer.
 8. Published Quality Control System manual.
 9. Quality Control System must pass an annual audit by a Third Part Agency.
 10. ISO 9001 certification for Powder Coating System.

1.06 FIELD OR SITE CONDITIONS

- A. Foundations shall be installed per the ICON installation drawings.
 - 1. All foundations shall be cast at the same elevation unless specifically noted on the ICON installation drawings.
- B. Anchor bolts shall be placed in the foundation as per the ICON installation drawings utilizing the anchor bolt template supplied with the anchor bolts.
 - 1. Anchor bolts shall be installed per the dimensions and orientation shown on the drawings.

1.07 MANUFACTURER WARRANTY

- A. Shelter shall have a 10-year limited warranty on the steel framing members.
- B. For all Metal Roofing there will be a pass-through warranty direct from the metal Roofing supplier, warranty shall be provided on request.

2.01 SHELTER SYSTEM AND MATERIALS

- A. MANUFACTURERS:
 - 1. Acceptable Manufacturer: ICON Shelter Systems, Inc., 1455 Lincoln Rd., Holland, MI, 49423. Website: www.iconshelters.com or approved equivalent.
 - 2. The product shall be designed and fabricated at a facility operated and directly supervised by the manufacturer.
- B. SUBSTITUTION LIMITATIONS:
 - 1. Substitutions must be approved a minimum of ten (10) business days prior to bid. All approved manufacturers shall be notified on writing before the bid date and shall not be allowed to bid without written notification. Any approval of an alternate manufacturer shall be through and official bid addendum prior to the bid date.
 - 2. Alternate suppliers shall meet the requirements, qualifications and provide proof of certifications listed under Section 1.05 QUALITY ASSURANCE.
 - 3. Alternate suppliers shall provide documentation that the power-coat system being provided meets or exceeds the ICON supplied powder-coat system listed under Section 2.01(c)(8).
- C. PRODUCT REQUIREMENTS AND MATERIALS:
 - 1. GENERAL:
 - a. The pre-engineered and pre-fabricated package of parts shall be pre-cut and packaged unless noted otherwise. These packages will include all parts and pieces necessary to field assemble

the shelter at the jobsite. The shelter shall be shipped in knocked down format to minimize shipping expenses. Field labor will be kept to a minimum with no on-site welding required.

2. CONCRETE FOR FOUNDATIONS:
 - a. Concrete shall have a minimum 28-day compressive strength of 2,500 psi unless noted otherwise on the foundation detail.
 - b. Reinforcing steel shall be ASTM A615, Grade 60.
3. COLUMNS:
 - a. Hollow Structural Section (HSS) columns shall meet ASTM A500, Grade B with a minimum wall thickness of 3/16" (0.1875").
 - b. Unless the columns are direct buried in the foundation the columns shall attach to the foundation with a minimum of four (4) anchor rods and shall meet OSHA Steel Erection Standard 29 CFR 1926.755(a)(1).
4. STRUCTURAL FRAMING:
 - a. All Hollow Structural Sections (HSS) shall meet ASTM A500, Grade B. "I" Beams, tapered columns or open channel sections shall not be accepted for primary members.
5. COMPRESSION RINGS:
 - a. Compression rings shall be made of ASTM A36 structural plate or of structural channel welded together to form the ring. All connections not requiring compression rings shall use ASTM A500, Grade B HSS sections for these connections.
6. CONNECTION REQUIREMENTS:
 - a. Anchor rods shall be ASTM F1554, Grade 36 unless otherwise noted.
 - b. Structural fasteners shall be ASTM A325 high strength bolts and A563 nuts.
 - c. All structural fasteners shall be hidden within the framing members whenever possible.
 - d. No field welding shall be required to finish the construction of the shelter.
 - e. Manufacturer shall supply extra fasteners.
7. ROOFING MATERIALS:
 - a. PRIMARY ROOF DECK – MULTI-RIB METAL ROOFING
 - 1) Roofing shall be a minimum of 24-gauge Galvalume steel sheet with ribs that are 1 3/16" tall and 12" on center. Ribs shall run with the slope of the roof for proper drainage.
 - 2) Roof outside surface shall be a baked on Kynar 500 paint finish and shall be supplied in one of the manufacturer's standard colors: TBD Ceiling color to be a "wash coat" primer.
 - 3) Roof panels shall have the roof angles factory pre-cut to size to provide ease of installation.
 - 4) Metal roofing trim shall match the color of the roof and shall be factory made from 26-gauge Kynar 500 painted Galvalume sheet steel.
 - 5) Trim includes panel ridge caps, hip caps, eave "J" trim, splice channels, rake trim, roof peak cap and corner trim as applicable for the model selected. Trim may need to be field cut to length. Please refer to the installation drawings for additional information and detail.
 - 6) Ridge, hip and valley caps shall be pre-formed with a single central bend to match the roof slope and shall be hemmed on both edges.
 - 7) Roof peak caps shall be pre-fabricated with no field assembly required.
 - 8) Manufacturer shall supply roof screws painted to match the roof.
8. FACTORY FRAME FINISH:
 - a. Weathering Steel
9. ACCESSORIES
 - a. ELECTRICAL ACCESS
 - 1) Standard in all column bases is a 3" diameter hole, located in the center of the plate. This allows electrical wiring into the column base.

PART 3 - EXECUTION

3.01 STORAGE AND HANDLING



1455 Lincoln Ave
Holland, MI 49423
616-396-1019
fax. 616-396-0944
www.iconshelters.com

- A. When the shelter arrives at the jobsite protect the products from weather, sunlight and damage.
- B. When unloading, pad the forks and use other precautions to protect the powder-coated finish. Do not use chains to move the materials, use straps. Handle all materials carefully in the field to avoid scratching the powder-coat finish.
- C. Contractor shall store the product elevated from the soil to allow full air circulation around the materials as do not introduce mold, decay, fungi or insects into or on the materials. One end of the materials shall be elevated higher than the other end if storage will be longer than a few days as to allow the water to run off the materials.

3.02 INSTALLATION OF MATERIALS

- A. The shelter shall be placed on prepared foundations that were designed by the manufacturer (unless otherwise noted). Materials for these foundations are not supplied by ICON but by the foundation installation contractor. Foundation shall be constructed to all local building code requirements and per good construction practices for the specific site conditions.
 - I. In accordance with OSHA Steel Erection Standard 29 CFR 1926.750 Part R, anchor rods shall be installed for proper column stability and shall have a minimum of four (4) anchor bolts per column. Therefore, no single anchor rod column base connections shall be allowed.
- ~~B. The contractor shall install all parts and pieces per the manufacturer's supplied installation instructions and these specifications.~~
- C. The interface with other work required is to be coordinated by the customer or the customer's agent. Some design may have electrical or plumbing requirements that are not supplied by ICON.
- D. Tolerances on structural steel members are set according to AISC Code of Standard Practice for Steel Buildings and Bridges and have been used for the fabrication of this product. These tolerances will not and cannot be increased. No field slotting or opening of holes will be allowed without proper guidance from the ICON Engineering Department.

3.03 REPAIR

- A. No field modifications or corrections are allowed without authorization from the ICON Engineering Department.

3.04 SITE QUALITY CONTROL

- A. ICON does not require any on-site inspections or testing but these may be required by local authorities and the local building inspector. Please be aware of any on-site requirements prior to starting installation.

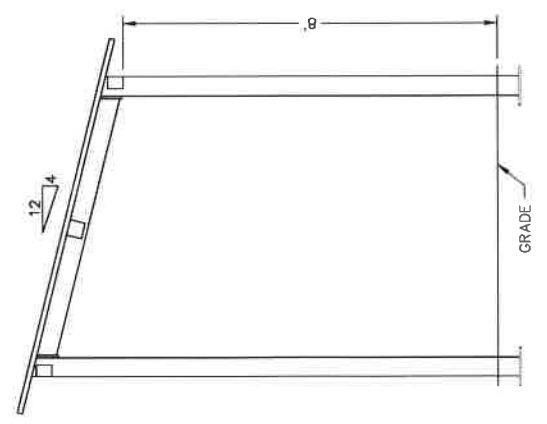
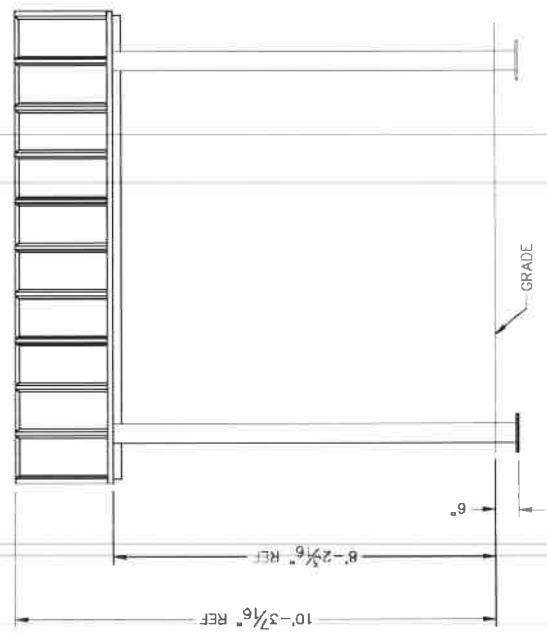
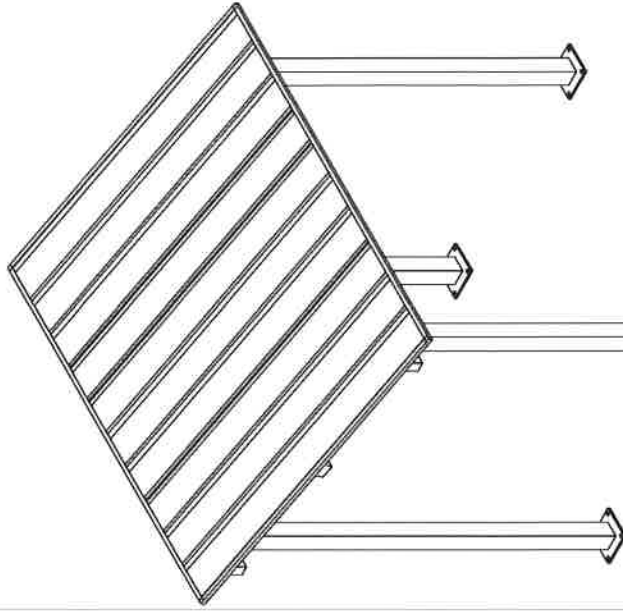
END OF SECTION

ICON
 Shelter Systems Inc
 DISTINCTIVE STEEL SHELTERS
 WWW.ICONSHelters.COM
 COMPANY OFFICE: SHELTER
 3193 BARS RD.
 HUNTSVILLE, AL 35894
 256-833-1111
 256-833-1112
 256-833-1113
 256-833-1114

Elevation

DRAWN BY:	ACP
DATE:	1/20/2016
JOB NO.:	
STANDARD	
REVISION:	
BUILDING TYPE:	MPBX10M-P3
PROJECT NAME:	

SHEET
1.0



PRELIMINARY: NOT FOR CONSTRUCTION

Z (INSIDE OF BUILDING)



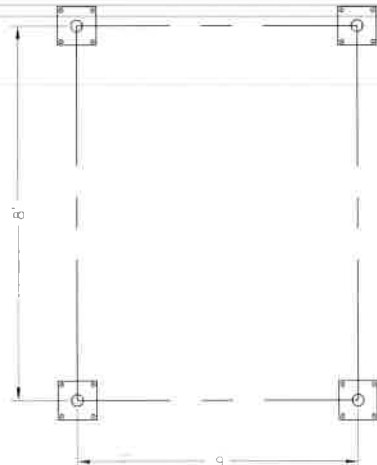
THESE FOUNDATION LOADS ARE FOR ESTIMATING PURPOSE ONLY.
THE ACTUAL LOADS WILL BE DETERMINED IN THE FINAL ENGINEERING

- NOTES:**
- ALL SERVICE UNFACTORED SERVICE LOADS
 - ALL FOUNDATION DESIGN HAS NOT BEEN PERFORMED BY ICON SHELTER SYSTEMS INC.
 - A LICENSED ENGINEER FAMILIAR WITH SOIL CONDITIONS AT CONSTRUCTION SITE
 - MUST PERFORM A FOUNDATION DESIGN
 - THE STRUCTURE HAS BEEN ENGINEERED AS AN OPEN STRUCTURE
 - ALL COORDINATES ARE LOCAL TO THE COLUMN

- DEFINITIONS:**
- DL = SERVICE LEVEL DEAD LOAD REACTION WITH THE GREATEST AXIAL LOAD
 - SL = SERVICE LEVEL SNOW LOAD REACTION WITH THE GREATEST AXIAL LOAD
 - W-UPLIFT = SERVICE LEVEL WIND LOAD REACTION WITH THE GREATEST UPLIFT LOAD
 - W-FY = SERVICE LEVEL WIND LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Y DIRECTION
 - W-FZ = SERVICE LEVEL WIND LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Z DIRECTION
 - E-Y = SERVICE LEVEL SEISMIC LOAD REACTION WITH THE GREATEST SHEAR VALUE ACTING IN THE SAME DIRECTION AS THE DL SHEAR LOAD
 - E-Z = SERVICE LEVEL SEISMIC LOAD REACTION WITH THE GREATEST MAGNITUDE OF SHEAR IN THE LOCAL Z DIRECTION

LOADS TO FOUNDATION (REF. W-REPS)	FOUNDATION LOADS		
	AXIAL (F _x)	SHEAR (F _y)	MOMENT (M _y)
DL	0.24	-0.01	-0.30
SL	1.12	-0.08	-2.25
W-UPLIFT	-0.21	0.03	-5.22
W-FY	-0.19	0.06	-3.90
W-FZ	0.20	-0.03	7.28
E-FY	-0.12	0.17	0.00
E-Z	-0.21	-0.01	11.13

LOADS TO FOUNDATION (REF. W-REPS)	FOUNDATION LOADS		
	AXIAL (F _x)	SHEAR (F _y)	MOMENT (M _y)
DL	0.24	0.00	-0.43
SL	0.80	0.04	-3.17
W-UPLIFT	-0.87	-0.06	5.33
W-FY	0.39	-0.06	-3.56
W-FZ	0.70	0.04	-7.54
E-FY	0.12	-0.13	0.00
E-Z	0.21	0.00	-8.86



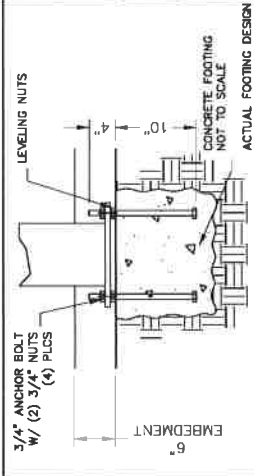
PRELIMINARY: NOT FOR CONSTRUCTION

ICON
Shelter Systems Inc.
DISTINCTIVE STEEL SHELTERS
12700 Highway 2004, Kirtlandville, TN 37053, USA
1485 LINCOLN AVE
HOLLAND MI 49421
616.061.0719
800.448.0285
616.160.0445 FAX

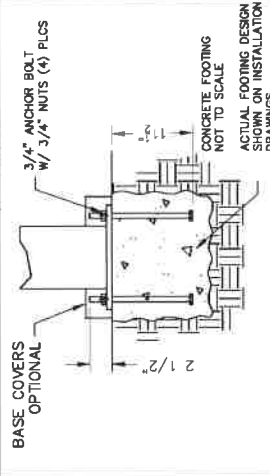
Anchor Bolt Layout

DRAWN BY: ACP
DATE: 1/20/2016
JOB NO.:
STANDARD:
REVISION:
BUILDING TYPE: MP8x10M-P3
PROJECT NAME:

SHEET 2.0



PRELIMINARY DRAWINGS SHOWN AS 6" BURIED
STANDARD BASE CONNECTION
COLUMN TYPE: A (6" BURIED)



PRELIMINARY DRAWINGS SHOWN AS 6" BURIED
OPTIONAL BASE CONNECTION
COLUMN TYPE: B (SURFACE MOUNT W/ COVERS)

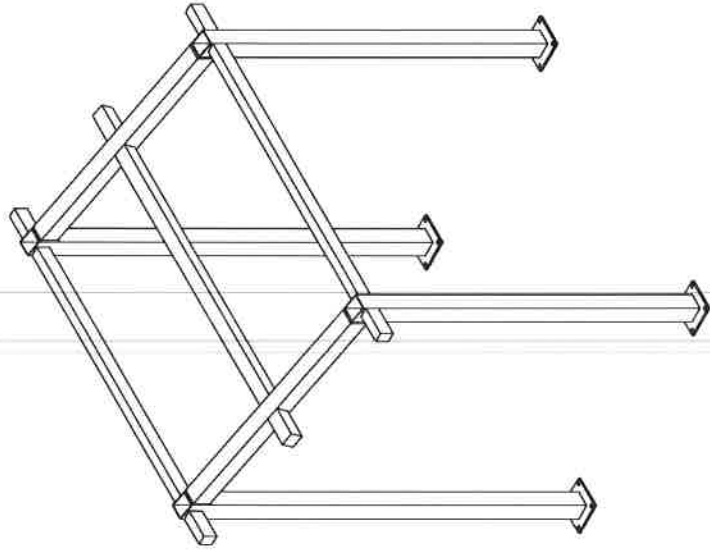
ICON
 Shelter Systems Inc
 DISTINCTIVE STEEL SHELTERS
 WWW.ICONSHELTERS.COM
 1455 LINCOLN AVE
 HOLLAND, MI 49423
 616.963.0319
 800.428.0985
 616.963.0445 FAX

Frame

DRAWN BY:	ACP
DATE:	1/20/2016
JOB NO.:	
STANDARD	
REVISION:	
BUILDING TYPE:	
MPBx10M-P3	
PROJECT NAME:	

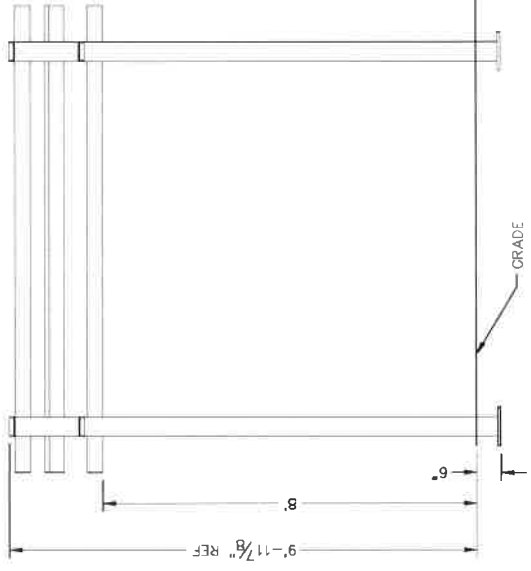
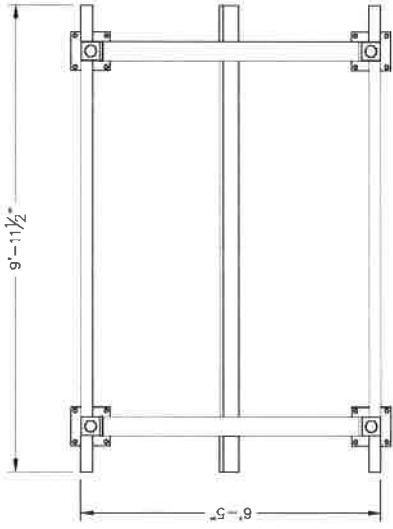
SHEET
3.0

PRELIMINARY: NOT FOR CONSTRUCTION

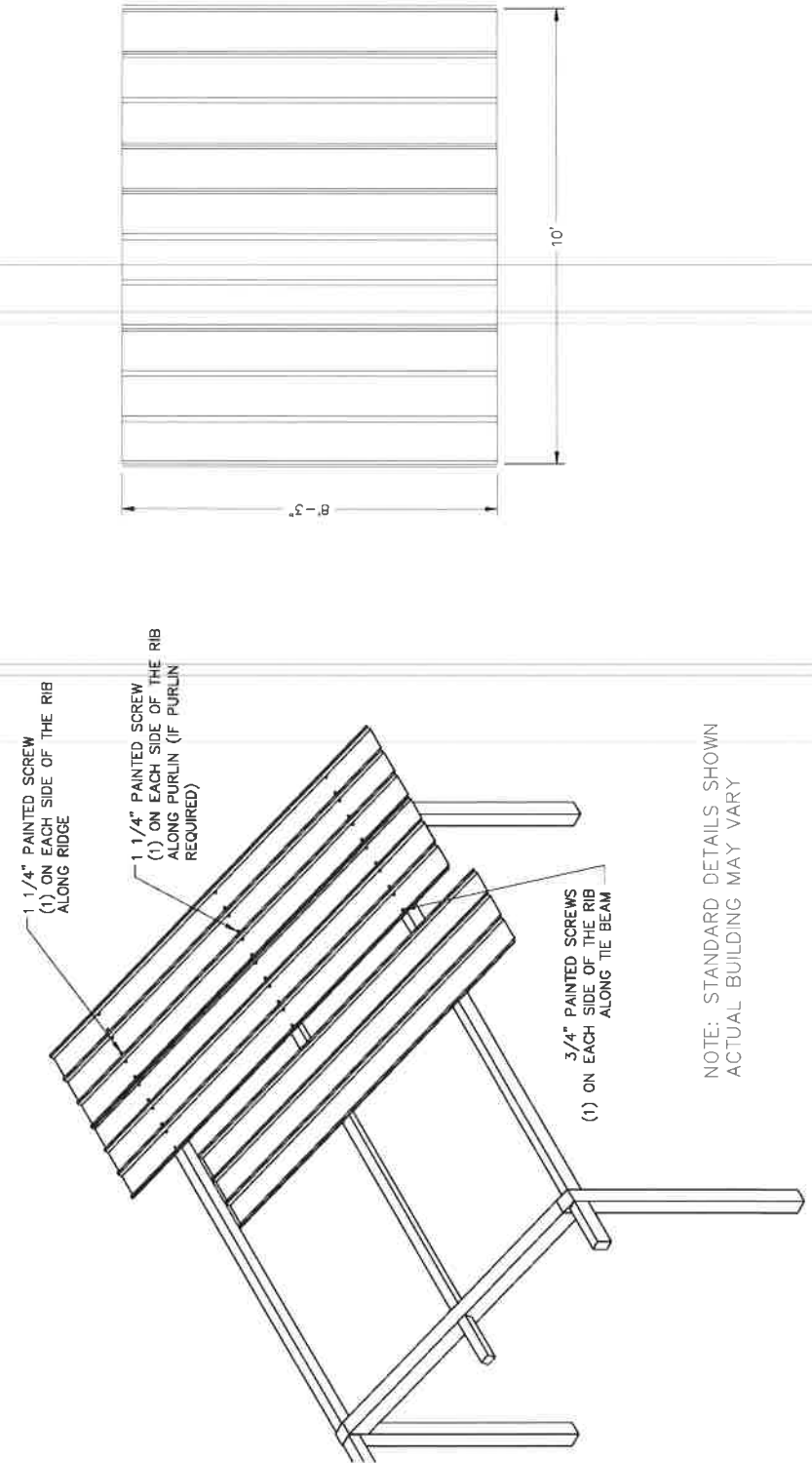
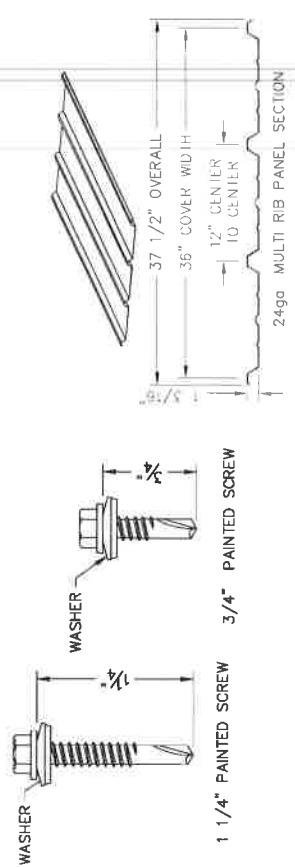


ALL STRUCTURAL COMPONENTS WILL BE:
 TUBE: ASTM A500 GRADE B
 PLATE: ASTM A36
 BOLTS: ASTM A325
 NUTS: ASTM A563
 WELDING: GMAW

NOTE:
 COLUMN SIZE: HSS 5x5x3/16



PRELIMINARY: NOT FOR
 CONSTRUCTION



NOTE: STANDARD DETAILS SHOWN
 ACTUAL BUILDING MAY VARY