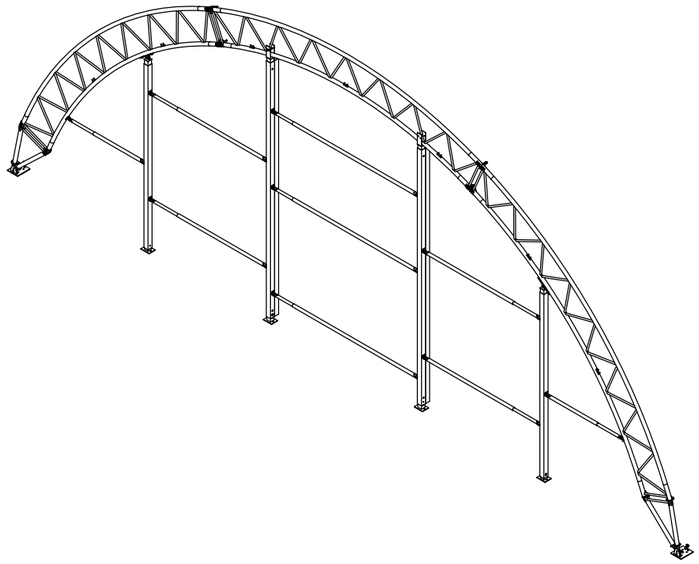
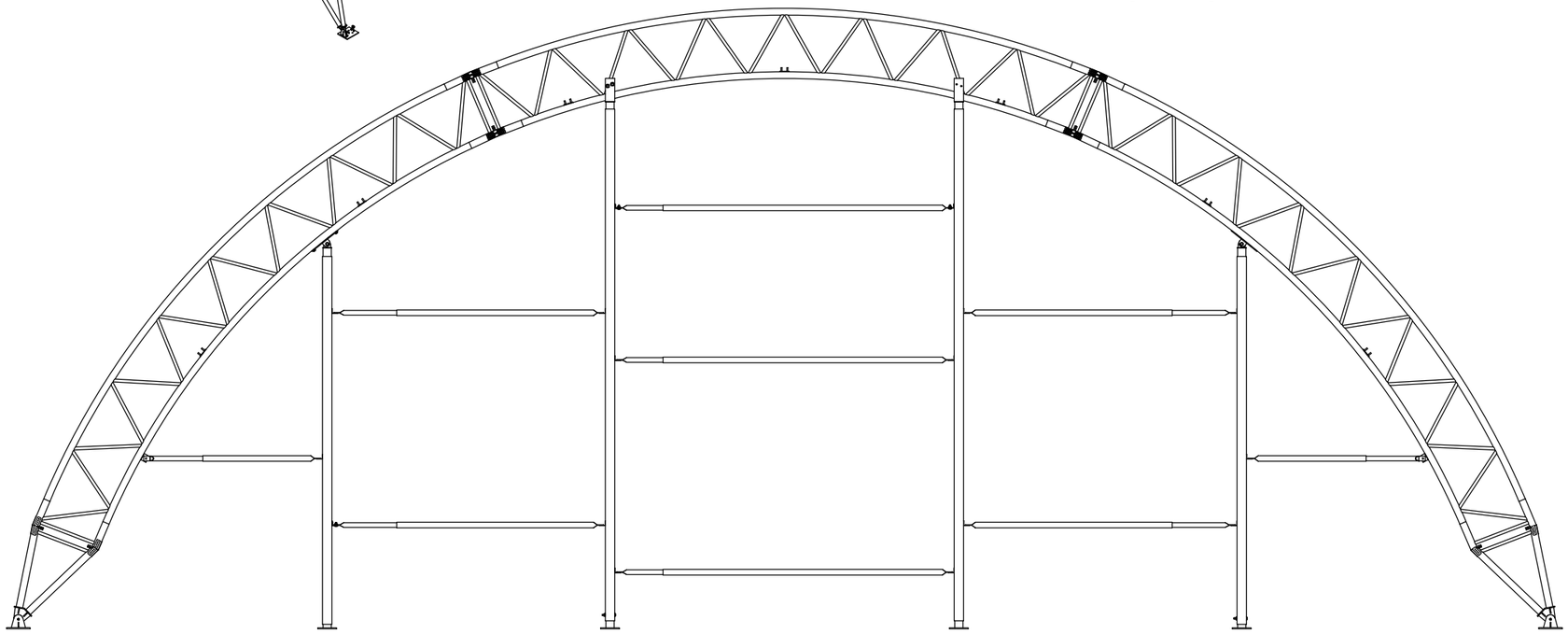




TE055SLD

55' ENDWALL
36" X 36" CENTERED VENT

CONTENT GUIDE:

CUSTOMER DESIGN APPROVAL

PLEASE SIGN AND CHECK THE APPROPRIATE BOX BELOW THE SIGNATURE AFTER REVIEWING THE DOCUMENTS

MY SIGNATURE BELOW ACKNOWLEDGES THAT I HAVE READ AND REVIEWED ALL THE SHEETS LISTED IN THE CONTENT GUIDE AND AGREE TO THE SPECIFICATIONS SHOWN UNLESS OTHERWISE NOTED

UPON ACCEPTANCE OF THE DRAWINGS, ANY DEVIATIONS FROM THE SIGNED DRAWINGS AND SPECIFICATIONS OUTLINED IN THE EXECUTED DRAWINGS ARE SUBJECT TO ADDITIONAL CHARGES AND MAY RESULT IN DELAY OF INSTALLATION OR DELIVERY OF YOUR STRUCTURE. A CHANGE ORDER WILL BE ISSUED TO YOU WITH THE OUTLINED ADDITIONAL COST ASSOCIATED WITH THESE CHANGES AND A PROPOSED NEW DELIVERY SCHEDULE.

NO CHANGES WILL BE ACCEPTED UNLESS WE HAVE A CHANGE ORDER SIGNED BY AN AUTHORIZED REPRESENTATIVE.

FIRE-RATED OR NON FIRE-RATED TBD

TERMINATION OF FABRIC TBD

FABRIC COLOR TBD

WEIGHT OF MATERIAL 12.5 **OZ.**

CUSTOMER SIGNATURE *DATE*

☐ **APPROVE** ☐ **APPROVE WITH CHANGES**

Developed By

ClearSpan

A Division of
Engineering Services & Products Co.
1440 18th Ave. SW
Dyersville, IA 52040
P: 563.875.6113
F: 563.875.2317
www.espco.com/

Order Number: --

Customer Number: --

Customer Information: -- -- --

Customer Contact: --

Customer Contact Phone: --

Structure SKU #: TE055SLD

Structure Size: 55W SOLID ENDWALL 12.5

Structure Description: 55' ENDWALL

Sheet Title: COVER SHEET

PDMWorks Project: --

Drawings

Drawn By:	Creation Date:
TS	11/9/2011

Revisions:

No.	By:	Revision Date:
1		
2		
3		

Sheet: **L1-1.0**

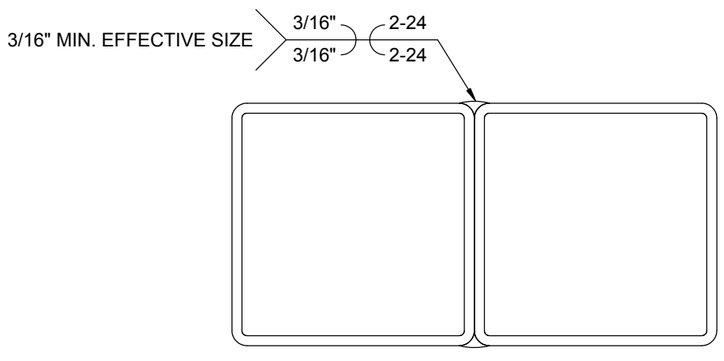
MATERIAL SPECIFICATIONS

MARK	PART NUMBER	MATERIAL
COLUMNS		
C1	EWC1P156G08	4" x 4" 8 GAUGE 1-PLY SQUARE TUBE - 156" LONG
C2	EWC2P217G08	4" x 4" 8 GAUGE 2-PLY SQUARE TUBE - 217" LONG
TELESCOPING PURLINS		
P1	200TP052	2.00" OD ROUND PIPE - 9 GAUGE
P2	2375TP050	2.375" OD ROUND PIPE - 14 GAUGE
P3	2375TP085	2.375" OD ROUND PIPE - 14 GAUGE
P4	2375TP120	2.375" OD ROUND PIPE - 14 GAUGE
INSERTS		
F	106762	3.5" SQ TUBE X 16" / 3/8" STEEL PLATE
T1	108151	3.5" SQ TUBE X 16" / 1/4", 3/8" STEEL PLATE
T2	EWIT2875	3.5" SQ TUBE X 16" / 1/4", 3/8" STEEL PLATE
BRACKETS		
PB	106755	1/8" STEEL PLATE

Box Bolt Hole Sizes & Installation Torque[1]

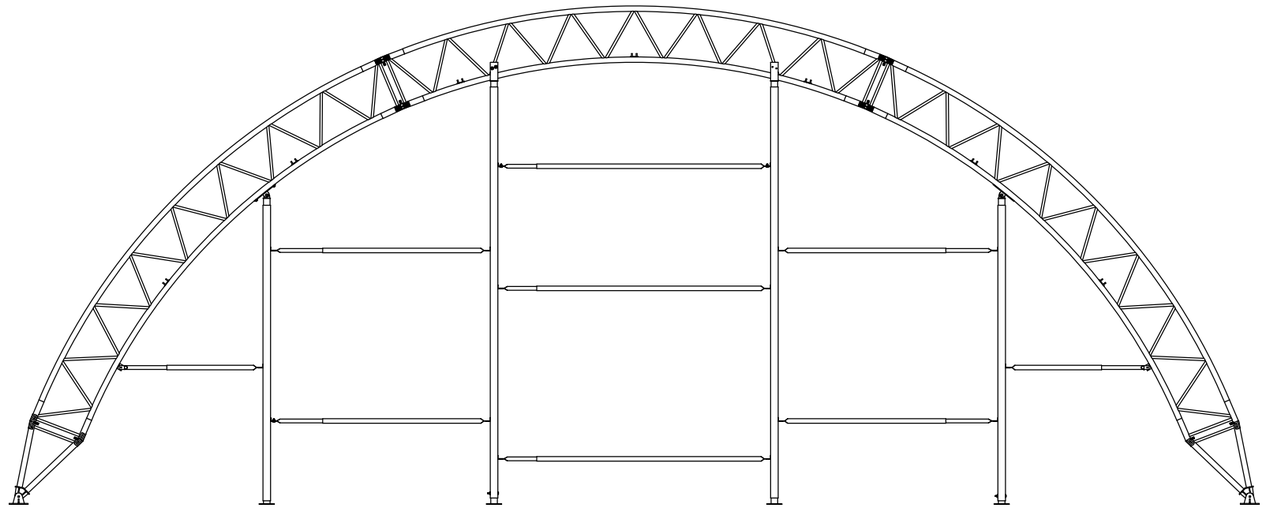
Box Bolt Dia.	Hole Dia.	Installation Torque
1/4"	1/2"	14 ft-lb
5/16"	5/8"	18 ft-lb
3/8"	3/4"	33 ft-lb
1/2"	13/16"	59 ft-lb
5/8"	1-1/8"	140 ft-lb
3/4"	1-3/8"	221 ft-lb

1. Refer to Box Bolt Technical Data for more information if using Box Bolts.



2-PLY PIPE WELD DETAIL

PLEASE REFER TO SHEET [M3-1.0] FOR PART LOCATIONS.



Developed By
ClearSpan
A Division of
Engineering Services & Products Co.
1440 18th Ave. SW
Dyersville, IA 52040
P: 563.875.6113
F: 563.875.2317
www.espco.com/

Order Number:
--

Customer Number:
--

Customer Information:
--
-- --

Customer Contact:
--

Customer Contact Phone:
--

Structure SKU #:
TE055SLD

Structure Size:
55W SOLID ENDWALL 12.5

Structure Description:
55' ENDWALL

Sheet Title:
MATERIAL SPECIFICATIONS

PDMWorks Project:
--

Drawings

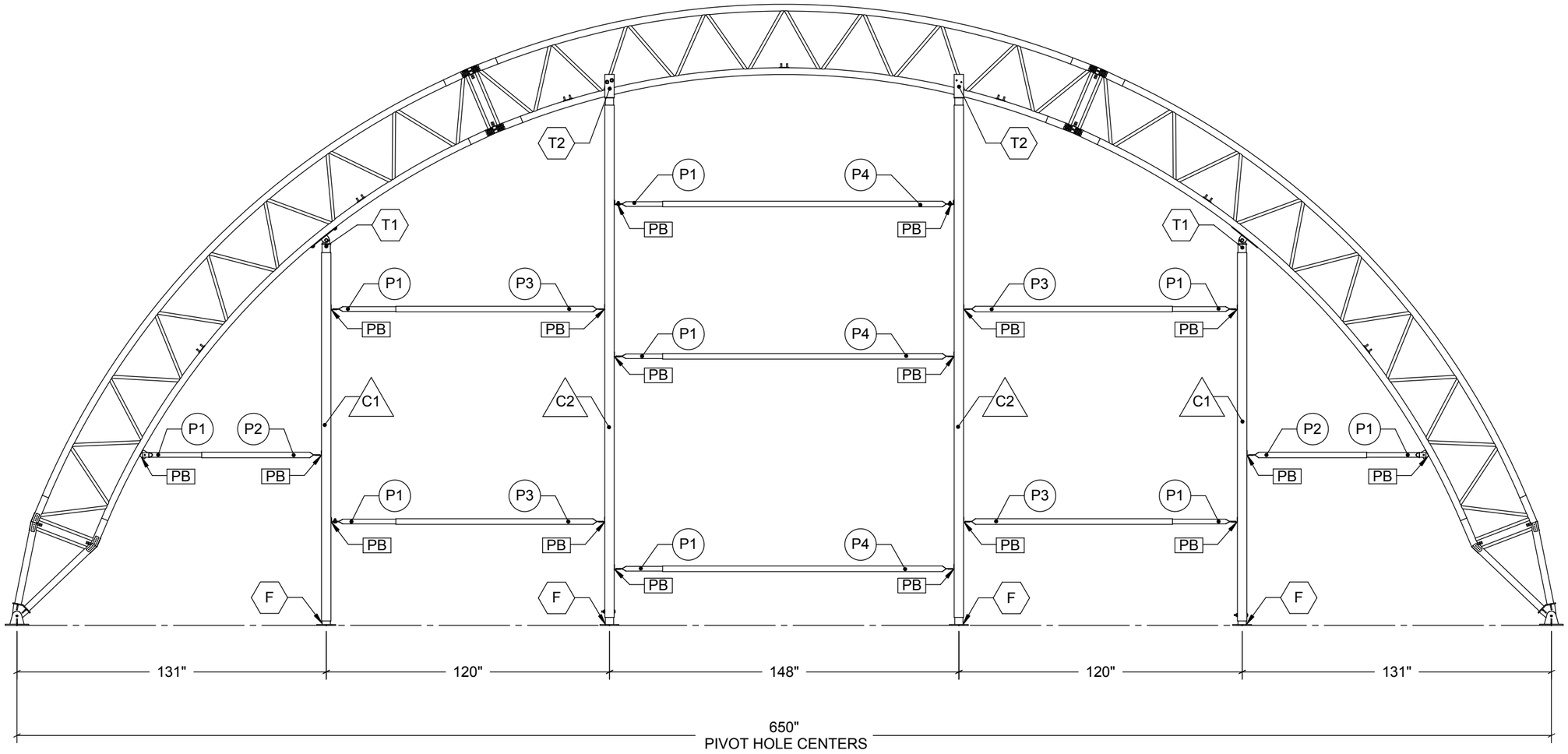
Drawn By:	Creation Date:
TS	11/9/2011

Revisions:

No.	By:	Revision Date:
1		
2		
3		

Sheet:
L2-1.0

PART LOCATIONS & LAYOUT



COLUMNS

C1 : EWC1P156G08 (4" x 4" 1-PLY SQUARE TUBE)
C2 : EWC2P217G08 (4" x 4" 2-PLY SQUARE TUBE)

TELESCOPING PURLINS

P1 : 200TP052 (2.00" OD ROUND PIPE - 9 GAUGE)
P2 : 2375TP050 (2.375" OD ROUND PIPE - 14 GAUGE)
P3 : 2375TP085 (2.375" OD ROUND PIPE - 14 GAUGE)
P4 : 2375TP120 (2.375" OD ROUND PIPE - 14 GAUGE)

INSERTS

F : 106762 (BOTTOM COLUMN INSERT)
T1 : 108151 (TOP COLUMN INSERT)
T2 : EWIT2875 (TOP COLUMN INSERT)

BRACKETS

PB: 106755 (PURLIN BRACKET)

NOTES:

- ALL DIMENSIONS ARE FROM CENTER TO CENTER UNLESS OTHERWISE NOTED.
- REFER TO SHEET M5-1.0 FOR PLATE & ANCHOR HOLE LAYOUTS.
- TELESCOPING PURLIN LOCATIONS ARE ADJUSTABLE AND FIELD DETERMINED. GENERIC LAYOUT IS SHOWN.
- ADDITIONAL FRAMING, IF REQUIRED, WILL BE CUT IN FIELD USING 2" X 3" RECTANGULAR TUBING & 107923 INSERTS.

Developed By
ClearSpan
A Division of
Engineering Services & Products Co.
1440 18th Ave. SW
Dyersville, IA 52040
P: 563.875.6113
F: 563.875.2317
www.esapco.com/

Order Number: --

Customer Number: --

Customer Information: -- -- --

Customer Contact: --

Customer Contact Phone: --

Structure SKU #: TE055SLD

Structure Size: 55W SOLID ENDWALL 12.5

Structure Description: 55' ENDWALL

Sheet Title: PART LOCATIONS & LAYOUT

PDMWorks Project: --

Drawings

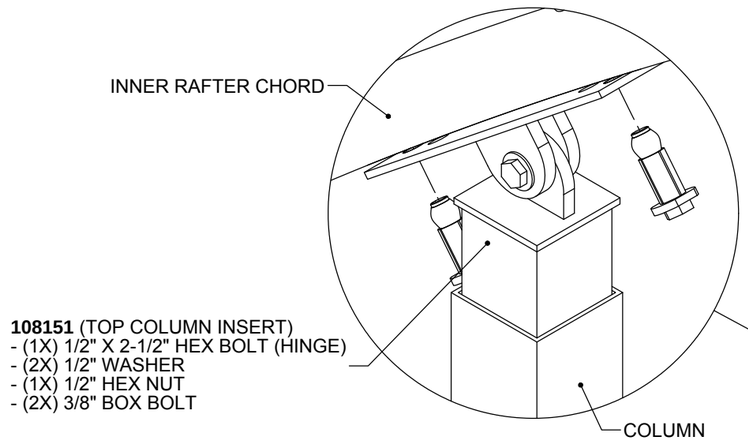
Drawn By:	Creation Date:
TS	11/9/2011

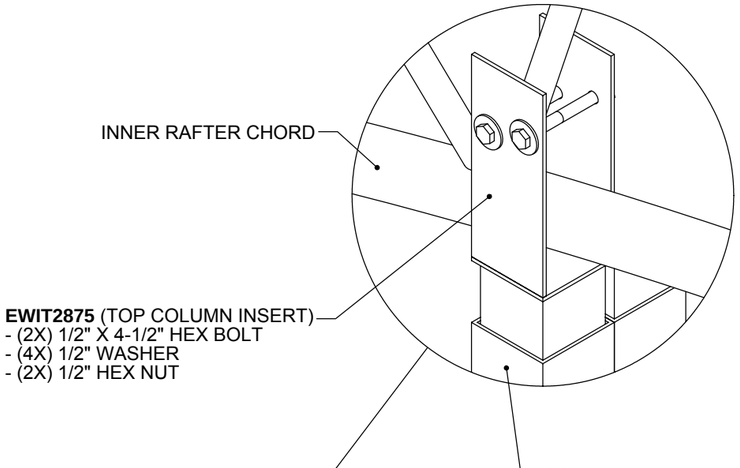
Revisions:

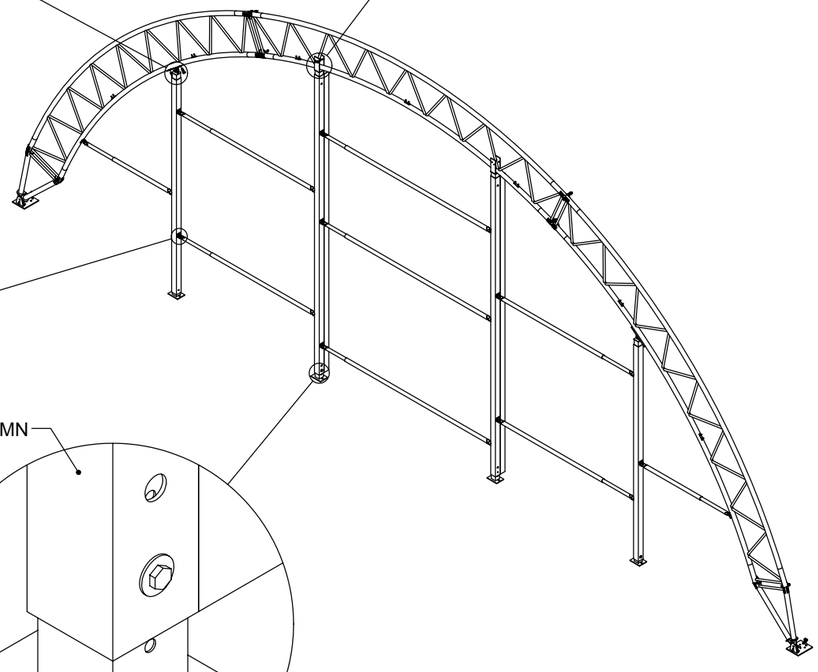
No.	By:	Revision Date:
1		
2		
3		

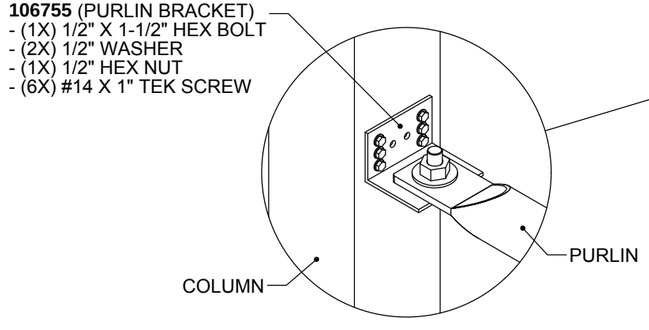
Sheet: **L3-1.0**

CONNECTION DETAILS









Developed By
ClearSpan
A Division of
Engineering Services & Products Co.
1440 18th Ave. SW
Dyersville, IA 52040
P: 563.875.6113
F: 563.875.2317
www.espco.com/

Order Number:
--

Customer Number:
--

Customer Information:
--
-- --

Customer Contact:

Customer Contact Phone:
--

Structure SKU #:
TE055SLD

Structure Size:
55W SOLID ENDWALL 12.5

Structure Description:
55' ENDWALL

Sheet Title:
CONNECTION DETAILS

PDMWorks Project:
--

Drawings

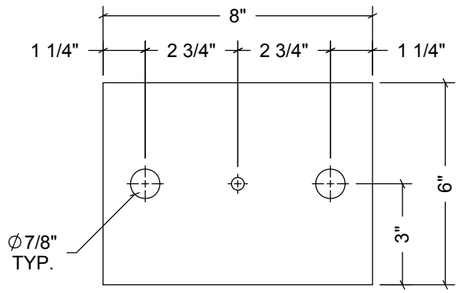
Drawn By:	Creation Date:
TS	11/9/2011

Revisions:

No.	By:	Revision Date:
1		
2		
3		

Sheet:
L4-1.0

ANCHOR HOLE LAYOUT



106762
BASE DETAILS

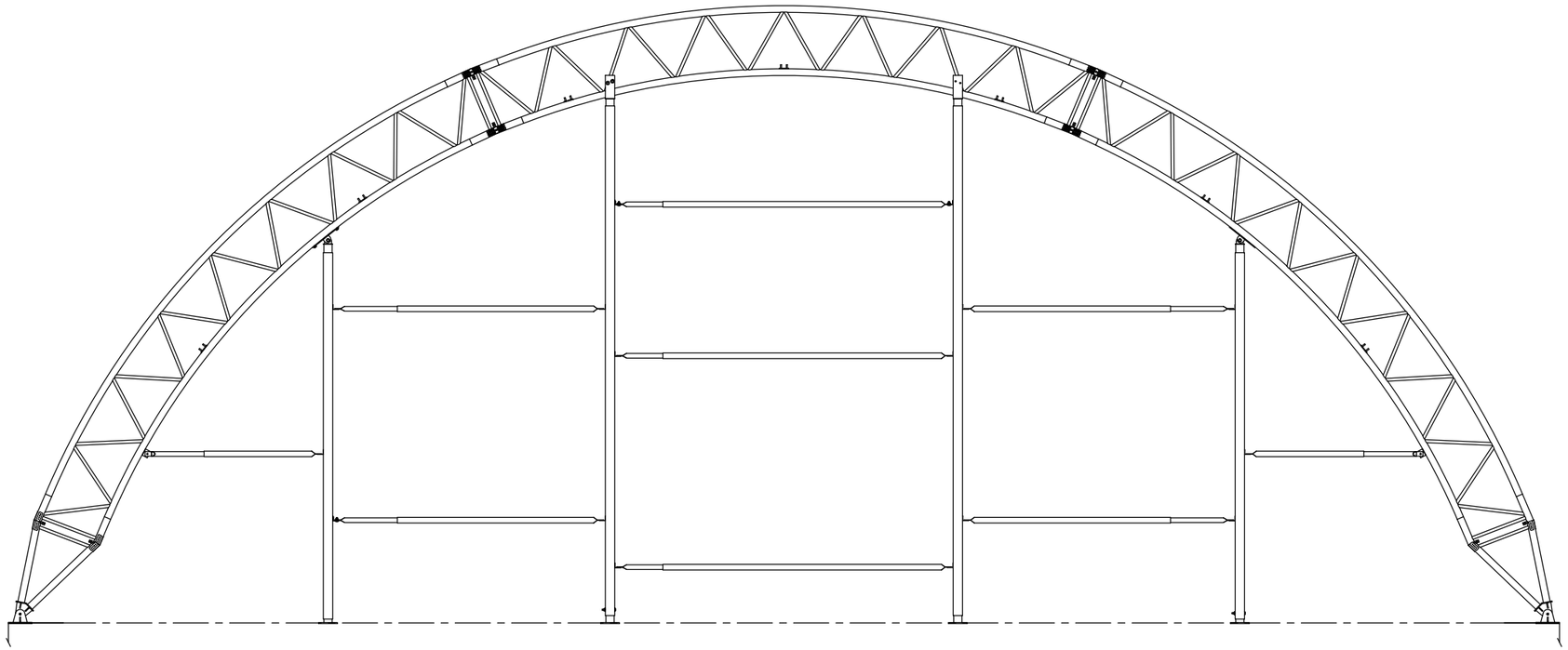
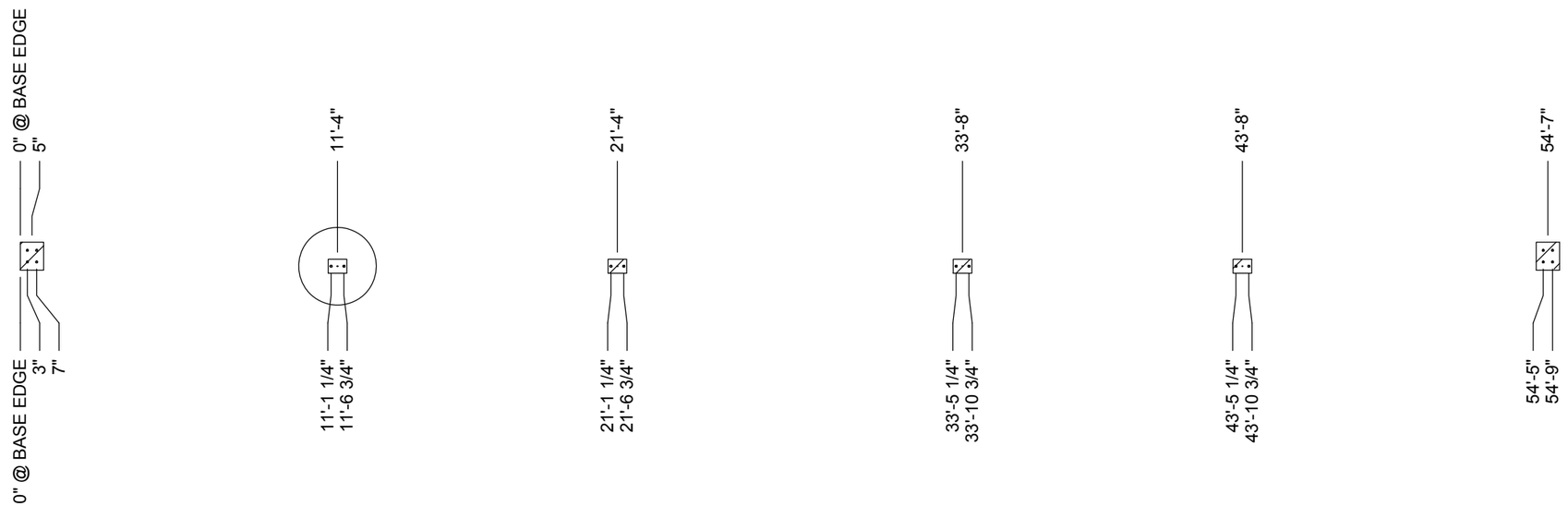


PLATE CENTERS:

ANCHOR HOLE CENTERS:



Developed By
ClearSpan
A Division of
Engineering Services & Products Co.
1440 18th Ave. SW
Dyersville, IA 52040
P: 563.875.6113
F: 563.875.2317
www.esapco.com/

Order Number:
--

Customer Number:
--

Customer Information:
--
--

Customer Contact:
--

Customer Contact Phone:
--

Structure SKU #:
TE055SLD

Structure Size:
55W SOLID ENDWALL 12.5

Structure Description:
55' ENDWALL

Sheet Title:
ANCHOR HOLE LAYOUT

PDMWorks Project:

Drawings

Drawn By:	Creation Date:
TS	11/9/2011

Revisions:

No.	By:	Revision Date:
1		
2		
3		

Sheet:
L5-1.0

ClearSpan™
End Panel Installation

Typical End Panel* Installation
(*Actual end panel may differ.)

Revision date: 10.27.09

YOU MUST READ THIS DOCUMENT BEFORE YOU BEGIN TO ASSEMBLE THE END WALL KIT.

Thank you for purchasing this ClearSpan™ end panel. When properly assembled and maintained, this product will provide years of reliable service. These instructions include helpful hints and important information needed to safely install the end panel. Please read these instructions ***before*** you begin.

If you have any questions during the assembly, contact Customer Service for assistance.

SAFETY PRECAUTIONS

- Wear eye protection.
- Wear head protection.
- Wear gloves when handling metal tubes.
- Use a portable GFCI (Ground Fault Circuit Interrupter) when working with power tools and cords.
- Do not climb on the shelter or framing during or after construction.
- Do not occupy the shelter during high winds, tornadoes, or hurricanes.
- Provide adequate ventilation if the structure is enclosed.
- Do not store hazardous materials in the shelter.
- Provide proper ingress and egress to prevent entrapment.

WARNING: For safety reasons, those who are not familiar with recognized construction methods and techniques must seek the help of a qualified contractor.

ASSEMBLY PROCEDURE

Following the instructions as presented will help ensure the proper assembly of your end wall. The steps outlining the assembly process are as follows:

1. Verify that all parts are included in the shipment. Notify Customer Service for questions or concerns.
2. Read these instructions, the Must Read document, and all additional documentation included with the shipment ***before*** you begin.
3. Gather the tools, bracing, ladders (and lifts), and required assistance.
4. Check the weather ***before*** you install the end wall panel. *Do not install end panels on a windy or stormy day.*
5. Assemble the end wall frame and install panel.
6. Read the care and maintenance information at the end of these instructions.
7. Complete and return all warranty information as instructed.

REQUIRED TOOLS

The following list identifies the main tools needed to assemble the end wall. *Additional tools and supports may be needed depending on the structure, location, and application.*

- Tape measure or measuring device
- Variable speed drill and impact driver (cordless with extra batteries works best)
- Metal file and metal cutting saw
- Wrenches and impact socket set, or an adjustable wrench
- Scissors or utility knife
- Hammers and gloves
- Adjustable pliers and self-locking pliers
- Ladders, work platforms, and other machinery for lifting designed to work safely at the height of the building and end wall.

IMPORTANT NOTICE: PLEASE READ!

The information presented within these pages describe a typical end panel installation. The panel and frame throughout this manual may differ from the actual components. The basic steps present within this document describe how most end panels are installed.

For best results and to adapt these instructions for your end panel, examine your end panel and the panel components and *read through this document before you begin*.

The steps to cut an end panel for a typical door installation are applicable for most common doors: gathering, overhead, and pedestrian. If the end wall has not been framed for the pedestrian door, measure the door and frame the end wall based on the door dimensions.

The end panel is installed after the end wall is framed and before any door is installed.

ATTENTION: Some procedures shown within these pages may not apply to your end wall and end panel. ***It is the responsibility of the installation crew/contractor/owner to adapt these instructions as needed to install the end panel.***

If you or the installation crew are not familiar with the installation of similar components, consult the services of a qualified contractor.

Observe standard safety procedures when operating the lifts and when installing the panel.

TO AVOID POTENTIAL DAMAGE AND INJURY, DO NOT INSTALL THE PANEL DURING WINDY CONDITIONS OR WHEN SUCH CONDITIONS ARE EXPECTED!

UNPACK AND IDENTIFY PARTS

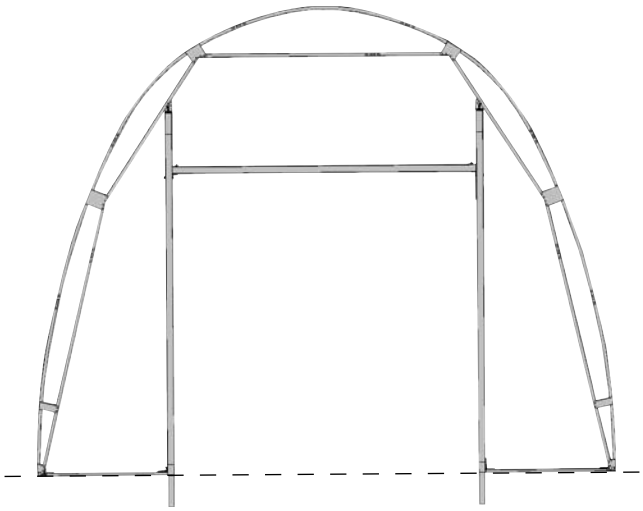
The following steps will ensure that you have all the necessary parts *before* you begin.

1. Unpack the contents of the shipment and place where you can easily inventory the parts. Refer to the Bill of Materials/Spec Sheets.
2. Verify that all parts listed on the Bill of Materials/Spec Sheets are present. If anything is missing or you have questions, consult the shelter diagrams for clarification, or contact Customer Service.

   NOTE: At this time, you do not need to open the plastic bags containing smaller parts such as fasteners and clamps.

Space below is reserved for customer notes.

END PANEL INSTALLATION

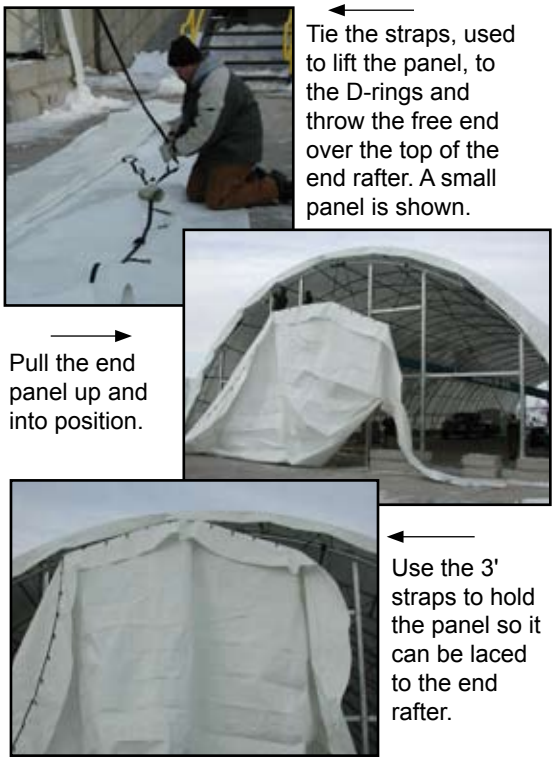


The following procedure describes installing an end panel that includes D-rings near the top edge, and vertical and horizontal pockets sealed to the inside panel surface. ***Additional steps are needed for end panels that include PVC conduit that follows the outer edge of the panel. That procedure follows this procedure.*** Complete these steps to install an end panel.

SPECIAL NOTE: Ratchets used to secure the *bonnet of the main cover* are typically removed and repositioned to install the end panel. Once the end frame and panel are installed, these ratchets are reattached to the end frame base rail. See the photos and diagrams throughout this manual for examples. *May not apply to all buildings.*

1. Position the end panel flat on ground with its long edge placed along the end wall base rail.
2. Locate the end panel D-rings and tie strap (or customer-supplied rope) to the center-most D-rings for lifting. (Large end panels require additional straps to lift the panel. *Never lift a large panel using only a single D-ring.)* Tie at least two (2) additional straps to D-rings on each side of the center D-rings. Space these a few feet from the center-most D-rings.

   NOTE: The end panel, location, and available lifts all affect how best to pull a panel into position. Attach the straps or rope to the D-rings in the position that will best serve your specific end panel and building. *To prevent personal injury or property damage, do not install end panel or main cover during stormy or windy conditions. Using a lift to pull large, heavy panels into place is recommended. Consult the photos throughout these instructions for additional information.*
3. With the straps or rope in place, loosen the main cover bonnet (if the main cover is installed) and pull it back and off the end rafter. Using the proper lifts and with assistance, lift or pull the end panel into position and secure it to the top chord of the end rafter. Tie the end panel to the rafter chord using short sections of strap to hold it in position. When pulling the top edge of the end panel up to the rafter, verify that the lower end of the panel remains on the ground.



Tie the straps, used to lift the panel, to the D-rings and throw the free end over the top of the end rafter. A small panel is shown.

Pull the end panel up and into position.

Use the 3' straps to hold the panel so it can be laced to the end rafter.

End panel shown differs from actual panel.

IMPORTANT: TO PREVENT END PANEL DAMAGE, TIE THE STRAP (OR STRAPS) USED TO LIFT THE PANEL TO AT LEAST TWO (2) D-RINGS. NEVER LIFT A HEAVY PANEL BY ONE D-RING!

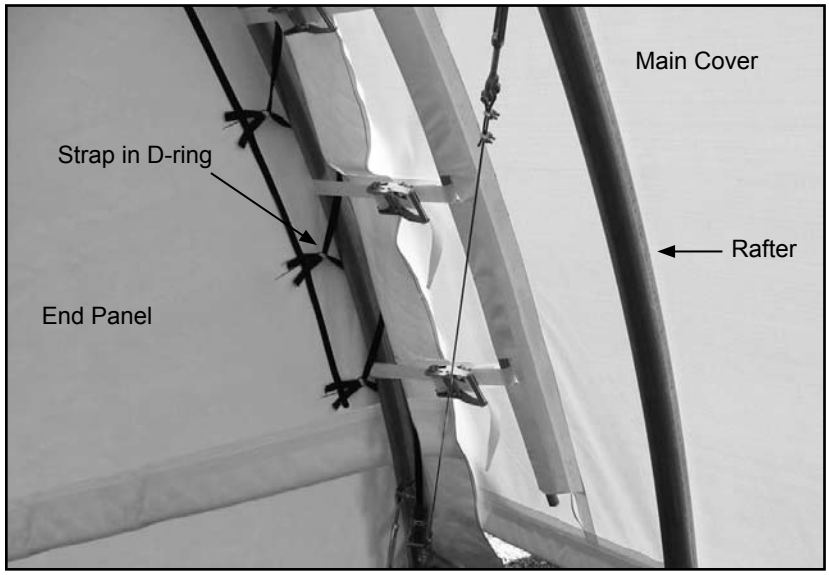


Photo (above): View is from the inside of the shelter looking at the end panel. Frame and rafter shown are different from your frame. The technique used to secure the end panel is the same however. Photo shows the main cover already installed.

END PANEL INSTALLATION (CONTINUED)

4. Once the end panel is pulled into place and temporarily secured, take the 1" strapping and weave the end of the strap through the D-rings and around the end rafter pipe as shown in the example below. Begin at the bottom of the panel and work up and around the rafter to the other end of the panel. *Keep the panel evenly stretched along the rafter during the procedure.* The end panel flap that extends beyond the D-rings is tucked between the rafter and the main cover bonnet after the bonnet is pulled back over the end rafter. The bottom edge of the panel will touch the ground.

   NOTE: Some end panels include D-rings for pulling the panel into position. Once the panel is in place, a PVC conduit is assembled and slid into a pocket along the outer edge of the panel. If your panel is designed with a perimeter PVC pocket, do not lace the D-rings to the rafter as shown. Skip the remainder of this procedure and continue with the next procedure that describes how to install the PVC conduit.

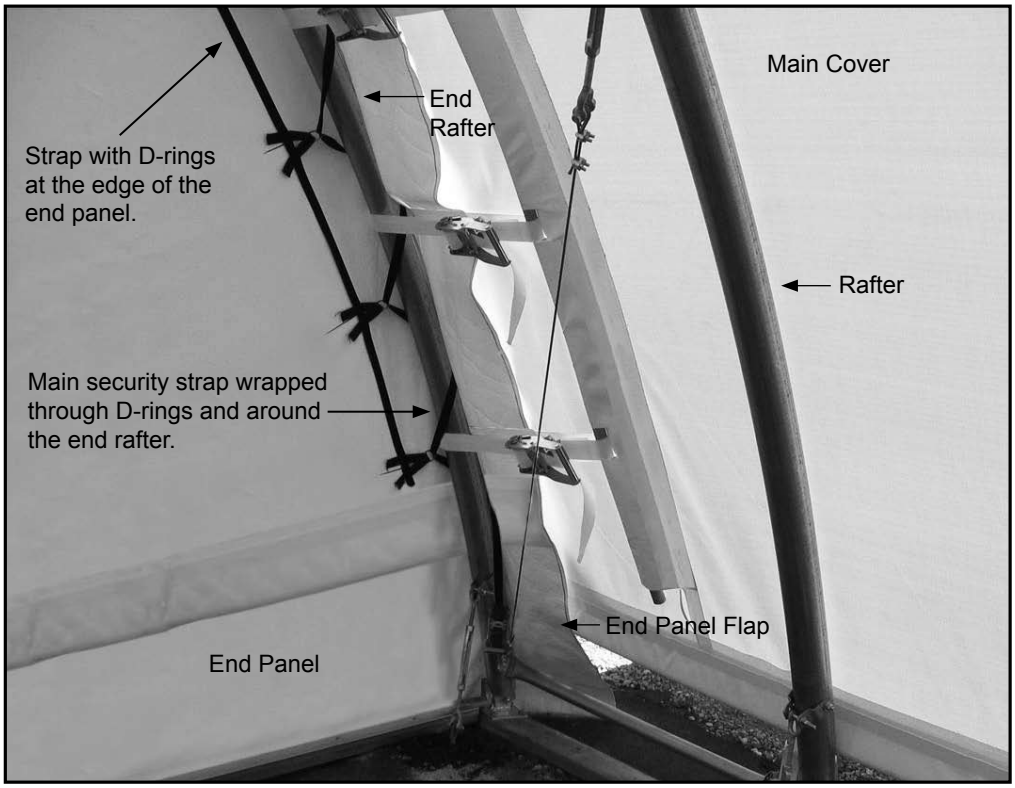


Photo above shows a building with the main cover already installed. View is from the inside looking up at the rafter and main cover. Rafter design differs from the rafter of your building.

5. Stretch the bottom of the end panel evenly out on the ground along the bottom frame tube of the end wall frame (if needed) and tighten the black strap at the top of the end panel.

   NOTE: Verify that the lower end of the panel remains on the ground as the top is tightened. (In a later step, the end panel is stretched from the bottom to pull the panel tight and into position using the end panel horizontal conduit, straps, and ratchets.)

6. With the top edge of the end panel secured to the top of the end rafter and the panel evenly stretched, continue with the End Panel Conduit Installation steps.

END PANEL INSTALLATION (continued)

Some end panel designs include a PVC conduit that slides into a pocket along the outer edge/perimeter of the panel. This conduit follows the contour of the end rafter/end panel. Panels of this design are lifted into position using the D-rings attached to the end panel. Once the panel is in place, the PVC conduit is assembled and slid into the pocket.

The PVC is then used to lift and secure the end panel to the end rafter. Ratchet and strap assemblies are spaced approximately every two feet (2') along the conduit. Do not fully tighten the ratchets and straps until the horizontal conduit is installed and attached to the end wall using additional ratchets (or winches) and straps.

TIGHTEN THE PANEL: Together with the horizontal conduit (installed in the next procedure), the ratchet and strap assemblies are tightened to stretch the end panel. Do not overtighten the ratchets. Examine the panel as it is stretched and adjust the strap tension as needed to achieve the desired results.

In addition to the previous steps describing how to pull the panel up into position using the D-rings, complete the following steps if the end panel includes a PVC pocket along its outer edge. Use the photos showing a similar end panel to install your end panel.

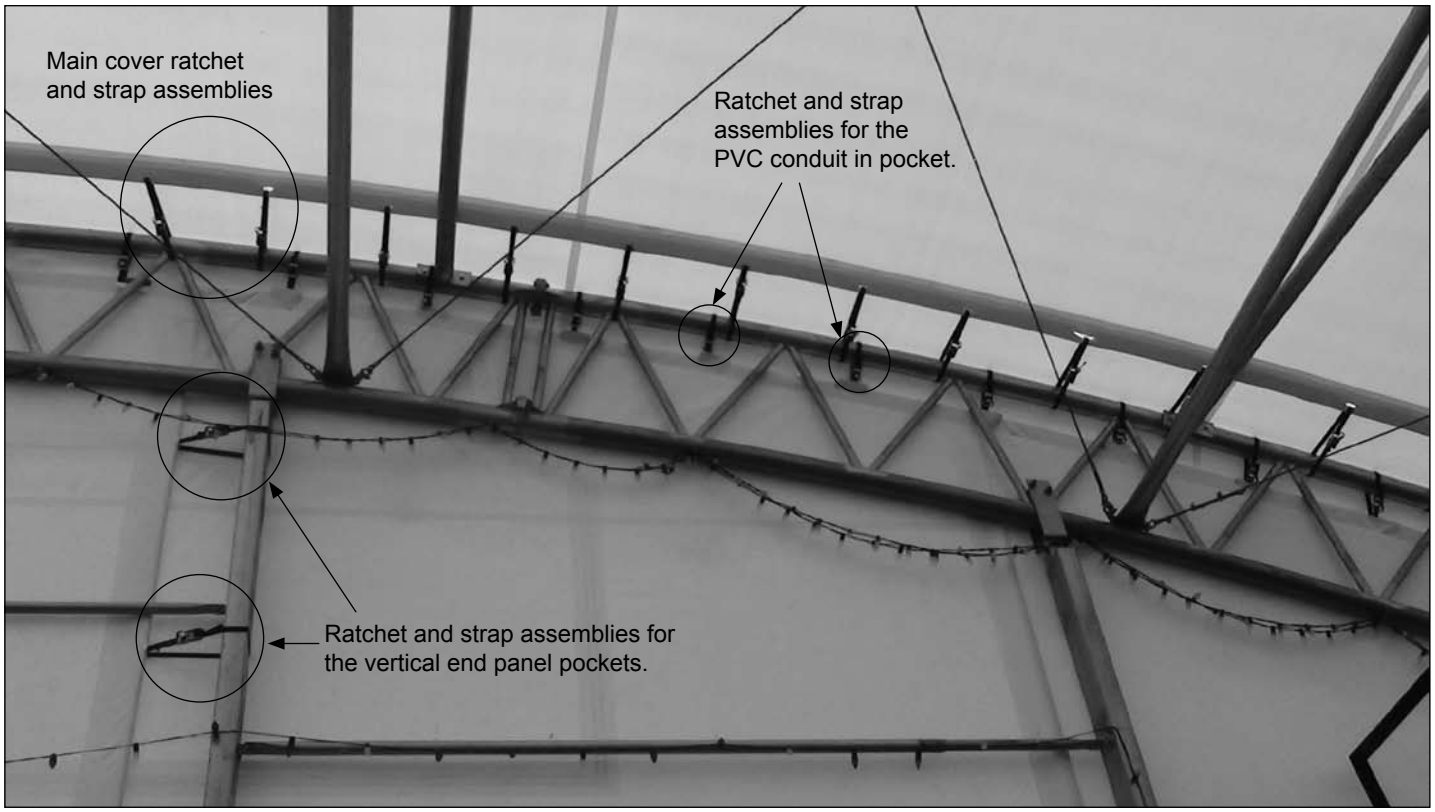
Photo above shows the D-rings attached to the end panel. D-rings are used to pull the panel into position.

Photo to the right shows the same panel from the inside of the building. D-rings have been tied to the end rafter to keep the panel in position while the PVC is installed.

END PANEL INSTALLATION (CONTINUED)

Sections of PVC, glued and joined to be slid into the end panel pocket.

Photo below shows the installed end panel as seen from inside looking up at the end rafter.



After pulling the panel into place and installing the PVC and ratchet and straps, continue by installing the horizontal conduit.

END PANEL INSTALLATION (CONTINUED)

The typical end panel includes vertical and horizontal pockets on the inside surface. PVC tubes (vertical) and metal pipe (horizontal) are inserted into these pockets. The conduit is secured to the vertical frame members of the end wall using straps and to the base rail using ratchets and straps. *See the photos near the end of these instructions for examples.*

Install Horizontal End Panel Conduit

Required Pipe: 1.66" x 99" Swaged Pipe (#166S099)

Complete these steps:

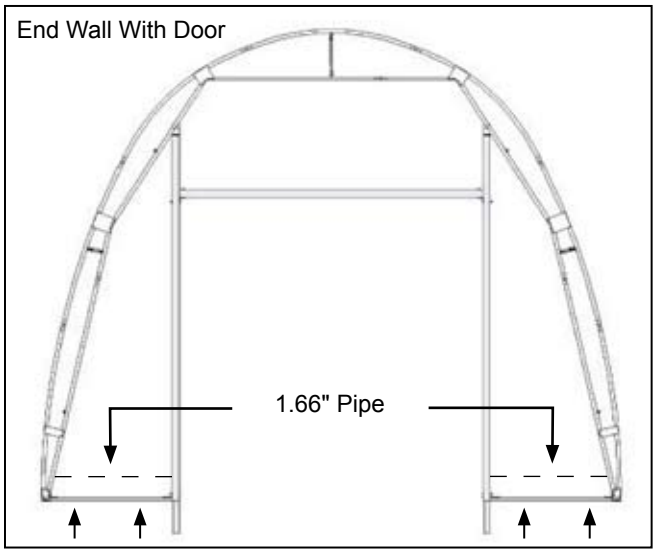
1. Locate the pipes and assemble sections to achieve the required length. (Cut to length if needed.)

   NOTE: For an end wall that includes overhead, gathering, or pedestrian doors, assemble short sections to install on each side of each door opening. Do not install the conduit within a door opening. Cut to length as needed. See the diagram below.

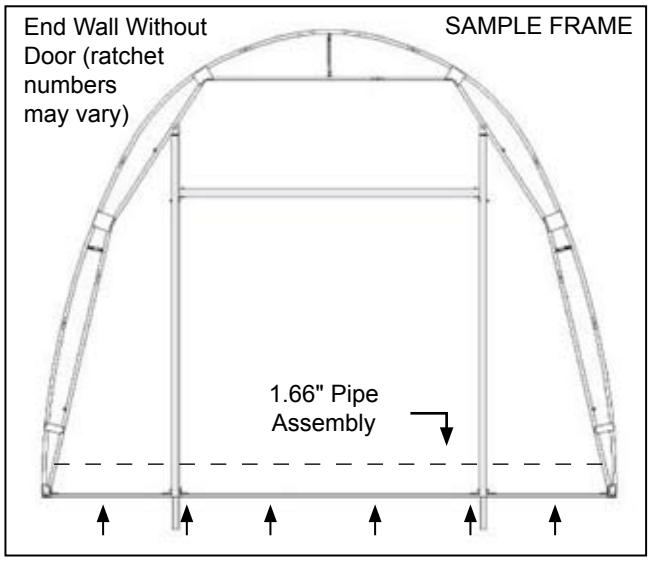
2. Secure each pipe joint with a Tek screw and wrap the joint and screw with duct tape to prevent damage to the end panel.

3. Insert the conduit into the end panel horizontal pocket. See diagrams for locations.

4. Locate the ratchets or winches, space them evenly *along the inside of the end wall*, and attach these as instructed. See arrows below. *For most end walls, ratchets or winches are attached to either the mounting foot, vertical supports, or the end wall base rail if present.*



ATTENTION: When dividing the remaining QH1065 ratchets, consider the width of the building and door placement. Position ratchets evenly and as needed to best secure the end panel horizontal conduit.

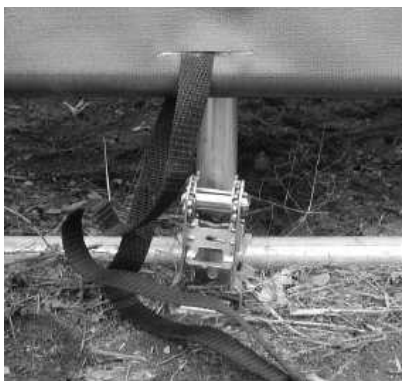


NOTE: If no base rail is present, attach the ratchets/winches to the back side of the vertical end frame members. See the photo at the back of these instructions.

5. Once the ratchets/winches are attached, make a horizontal slit (approximately 3"– 6" long) in the horizontal pocket of the end wall panel (that contains the conduit) directly above each ratchet.

WARNING: Cut only the end panel pocket. *DO NOT cut through the end panel.*

6. Locate the 2" strapping and cut a section that reaches from the ratchet/winches, around the horizontal conduit in the end panel pocket, and back to the ratchet/winches.



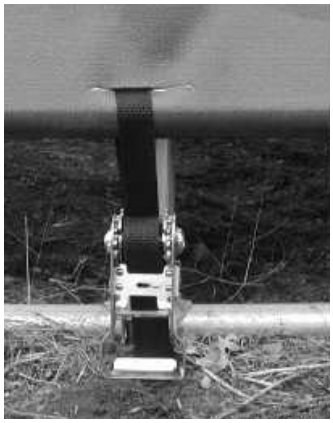
NOTE: Allow enough extra strap so you can insert both ends of the strap into the ratchet/winch.

END PANEL INSTALLATION (CONTINUED)

7. Thread one end of the strap through the slit, around the conduit, and back to the ratchet/winch.

8. Align the strap ends and insert both ends into the slot in the center hub of the ratchet/winch.

9. Tighten slightly and repeat the steps for the remaining straps and ratchets/winches.



10. Verify that the panel is in the desired position and evenly tighten the ratchets/winches to stretch the end panel toward the base rail of the end wall.

    For end panels that include the PVC conduit installed along the outer edge of the end panel, move to the ratchet and strap assemblies and adjust as needed to achieve the desired results. (See previous procedure for details.) Stretch panel as needed to remove any wrinkles. Alternate between upper and lower ratchets and straps as needed.

    NOTE: *Do not overtighten the ratchets.* If the strap is too long and binds up in the ratchet, loosen the ratchet, cut the strap to length, and retighten.

11. After tightening the horizontal end panel conduit, continue by installing the vertical PVC conduits for the end panel. *This procedure is for an end panel that is without an overhead or gathering door.*

    ATTENTION: If you are installing an panel that includes an overhead or gathering door, skip to and complete the Cut Door Opening procedure. Depending on building width, *there may be no vertical PVC conduits for an end panel that includes an overhead or gathering door.*

    Examine the inside surface of the end panel and proceed as needed by cutting the door openings.

End Wall and Panel–No Overhead Door: Install the Vertical PVC End Panel Conduits

If your end wall includes an overhead or gathering door, skip this procedure and complete the Cut Door Opening procedure.

NOTE: The PVC conduits are attached to the vertical frame member of the end wall using straps and ratchets.

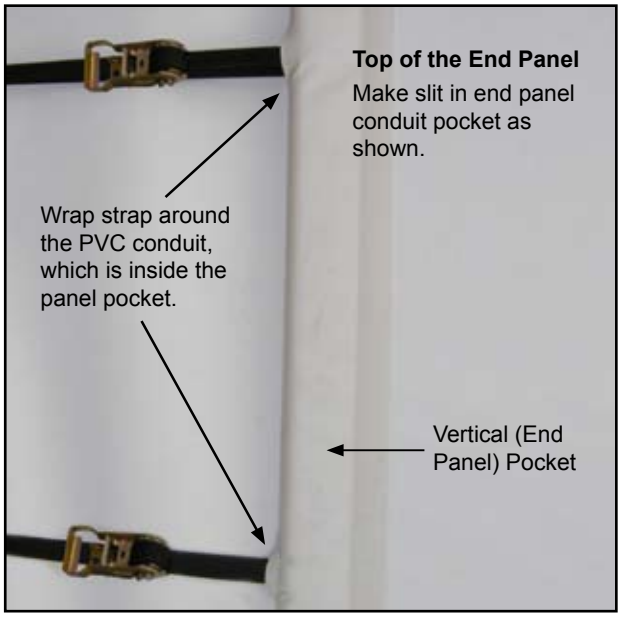
1. Take the 10' PVC conduit sections, seat the sections together, secure the joint with a Tek screw and wrap with duct tape, and slide the assembled conduit into one vertical pocket of the end panel. Conduit length varies with end panel height.

   NOTE: Use PVC glue to secure each PVC joint. The PVC is flexible enough to feed up from the bottom and into the end panel pocket.

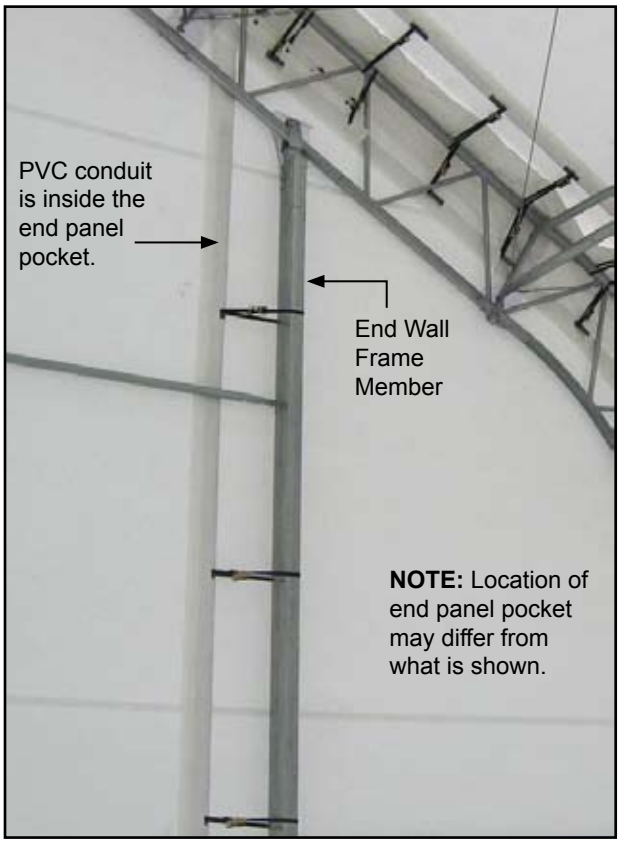
2. Space the ratchet and straps 24". In those locations, cut a 6" vertical slit *in the conduit pocket* of the end panel. *DO NOT cut the end panel*. Cut only the conduit pocket!

3. Beginning at the bottom of the conduit pocket, take the strap and insert the strap through the slit, around the PVC conduit, and around the closest vertical end wall frame member *that is not part of the door frame*.

   Most buildings use pre-assembled ratchet and straps. See the following photos for an example.



NOTE: The photos show a frame and end panel that differs from the actual frame and end panel. End panel is attached in a similar manner however. Photos show frame as seen from the inside the shelter.



4. Insert the strap end into the slot in the center hub of the ratchet and slightly tighten.

5. Move to the next slit and repeat the process and work up the conduit and pocket.

6. Repeat the steps to assemble and install the remaining PVC conduit, ratchets, and strapping.

7. Verify that the panel is in the desired position and evenly tighten the ratchets to stretch the end panel.

   NOTE: Do not overtighten. Strap is used to keep the panel from flapping during windy conditions.

8. Recheck all straps and ratchets to verify they are snug.

9. If needed, reattach the ratchets for the main cover bonnet. *May not apply to all buildings.*

10. After attaching the ratchets and if the main cover is installed, pull the main cover bonnet into place and secure it using the ratchets.

    NOTE: If desired and depending on the application, the bottom portion of the end panel can be pulled under the bottom end wall frame tube and secured to the tube with Tek screws and washers. Or, the bottom edge of the end panel can be allowed to run along the end wall to help direct runoff away from the building.

Install Gathering Door Flat Plates

This procedure applies to the installation of gathering doors only. If your end wall does not include the installation of a gathering door, skip this procedure.

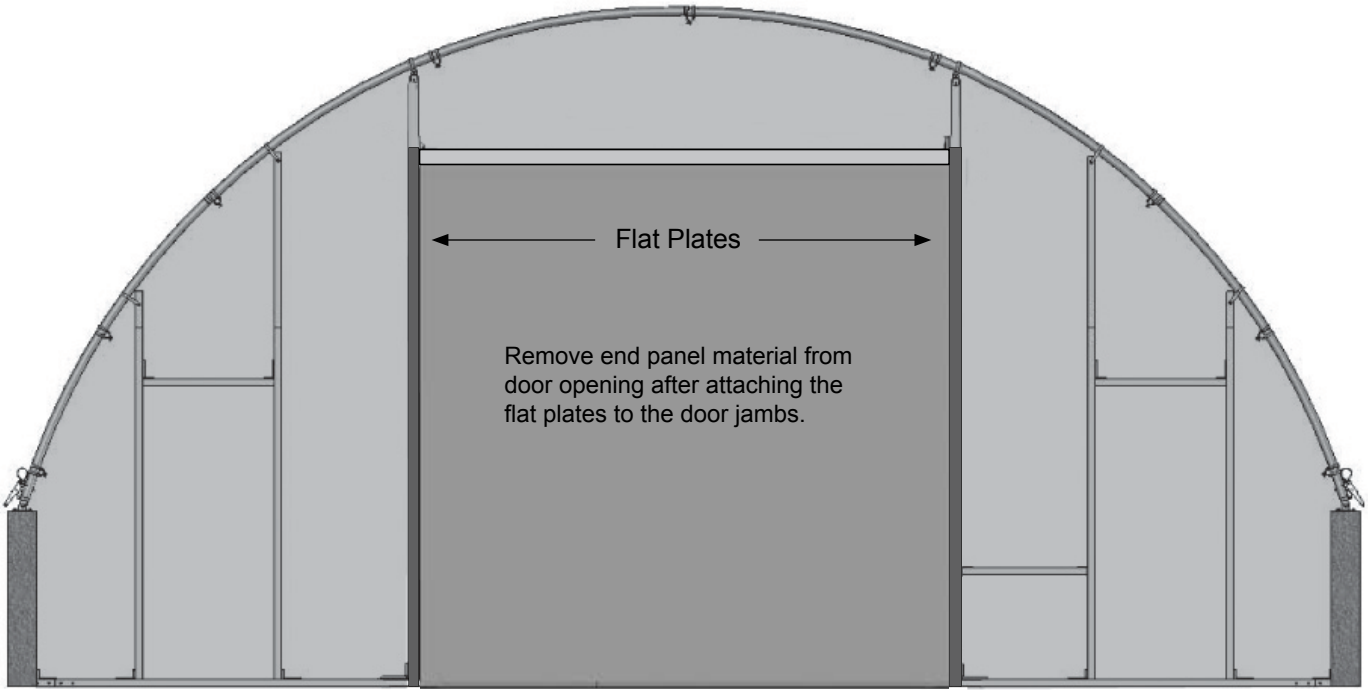
Before cutting the door opening in the end panel, secure the flat plates along each door jamb. These provide a mounting surface for additional gathering door hardware. Plates run from ground level up to the header along each side of the door opening. They also help to secure the end panel to the end wall frame. Required parts include:

- 16 gauge galvanized flat plates
- Fasteners (type depends on the door frame material)

Photo shows the door opening cut and secured in place. Door opening is cut in the following procedure.

Complete these steps to attach the flat plates to the door jambs.

1. Take one section of the flat plate material and pre-drill the mounting holes. Measure 1" in from one long edge and mark hole locations at approximately 24" on-center throughout the length. Set the first hole 1" in from the end. Repeat this for the remaining flat plates.
2. Beginning at ground level, place the first section of flat plate against the door jamb *flush with the inside edge* and secure to the jamb using the appropriate fasteners. See diagram below.
3. Cut a section of flat plate material to finish the area above the first plate and secure that to the jamb.
4. Repeat the steps to attach the plates to the remaining jamb and to the jambs at the other end of the building.
5. Continue by removing the end panel material from within the door opening as described in the next procedure.



End Wall and Panel–With Overhead or Gathering Door: Cut Door Openings

Follow these steps to cut a door opening in the installed and stretched end panel:

1. Consult the diagram below and mark a border on the end panel *within the door frame* of the end wall.
2. Using the diagram and marks as guides, remove the end panel material. See the shaded area in the diagram below.
3. To allow the end panel to wrap around the door framing, make a diagonal cut from the corner of the door frame to the corner of the end panel where the material was removed. See the circles in the diagram below.

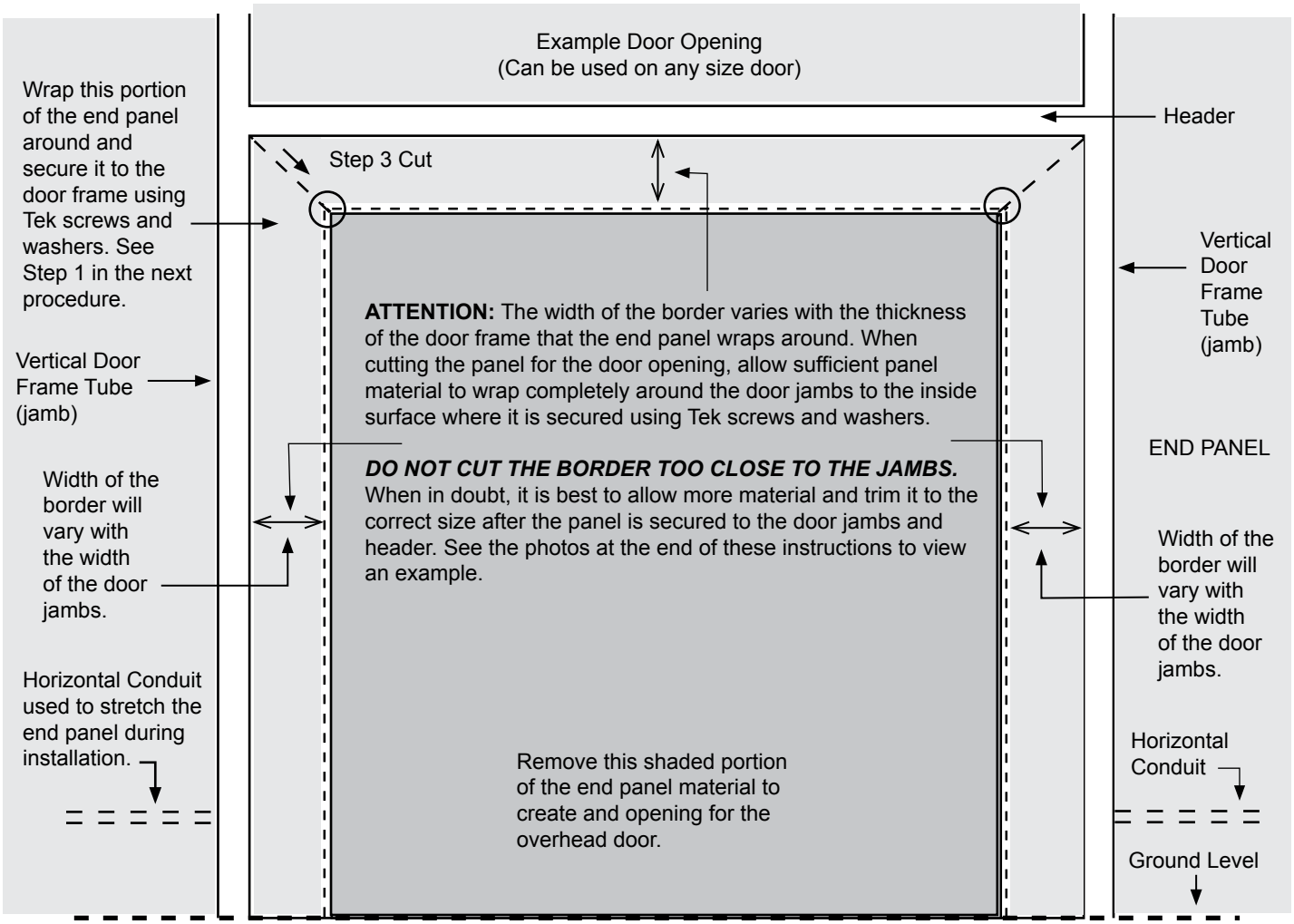
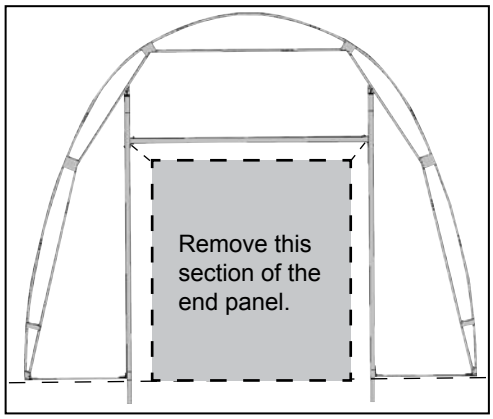


Diagram above shows the end wall and end panel as seen from inside a similar shelter.

4. Continue with the Secure End Panel to Frame Instructions that follow.



Sample end frame is shown. Consult the photos near the back of these instructions for additional details.

SECURE END PANEL TO FRAME INSTRUCTIONS

1. With the door opening cut in the end panel, secure the panel to the door frame as shown in the diagram below.

   NOTE: For the exposed corners of the door frame that remain after wrapping the panel around the frame members, cut a 16" x 16" piece of material *from the scrap end panel material* and secure the piece to the exposed framing.

Secure the end panel to the inside surface of the frame tube using a Tek screw and neo-bonded washer.

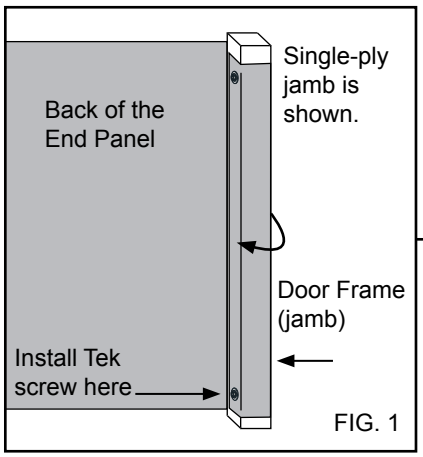
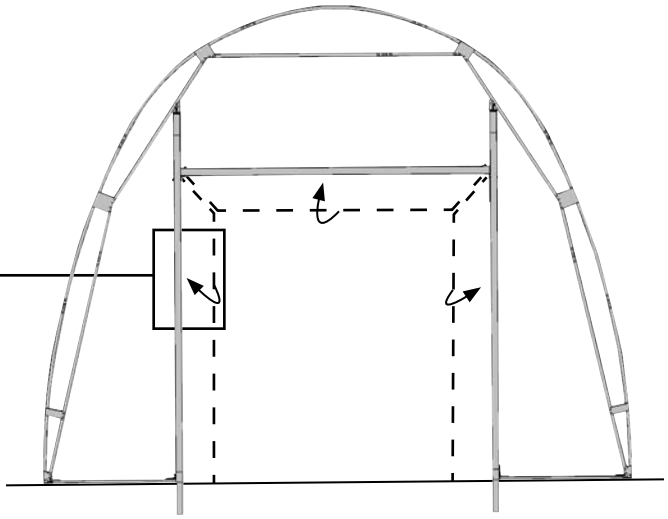


FIG. 1



   ATTENTION: *DO NOT secure the end panel to the inside or back of the door jambs.* Secure the flap to the surface of the door jamb shown in FIG. 1. Some door kits use this surface for tracks and brackets. View above shows the back or inside surface of the rafter as seen when standing inside the assembled frame.

2. After securing the end panel around the door frame, install the door according to the instructions included with the door.

   NOTE: If desired and depending on the application, the bottom portion of the end panel can be pulled under the bottom end wall frame tube and secured to the tube as shown above. Or, as mentioned, the bottom edge of the end panel can be allowed to run along the end wall to help direct runoff away from the building.

3. After installing the door according to the manufacturer's instructions, reattach the main cover bonnet or install the main cover if this has not been done. May not apply to some end panels and buildings.

SHELTER CARE AND MAINTENANCE

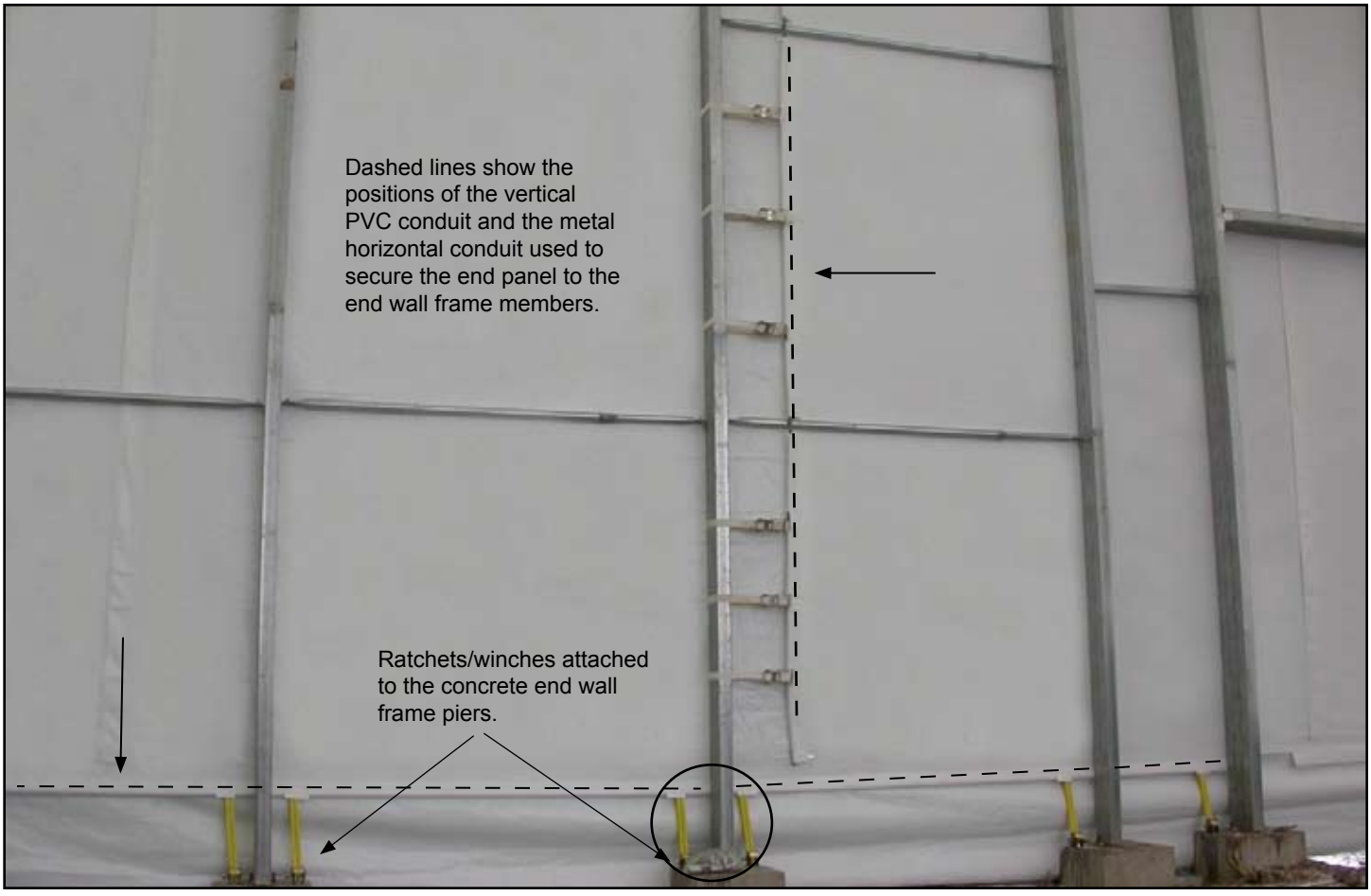
Proper care and maintenance of your ClearSpan™ building is important. Check the following items periodically to properly maintain your building:

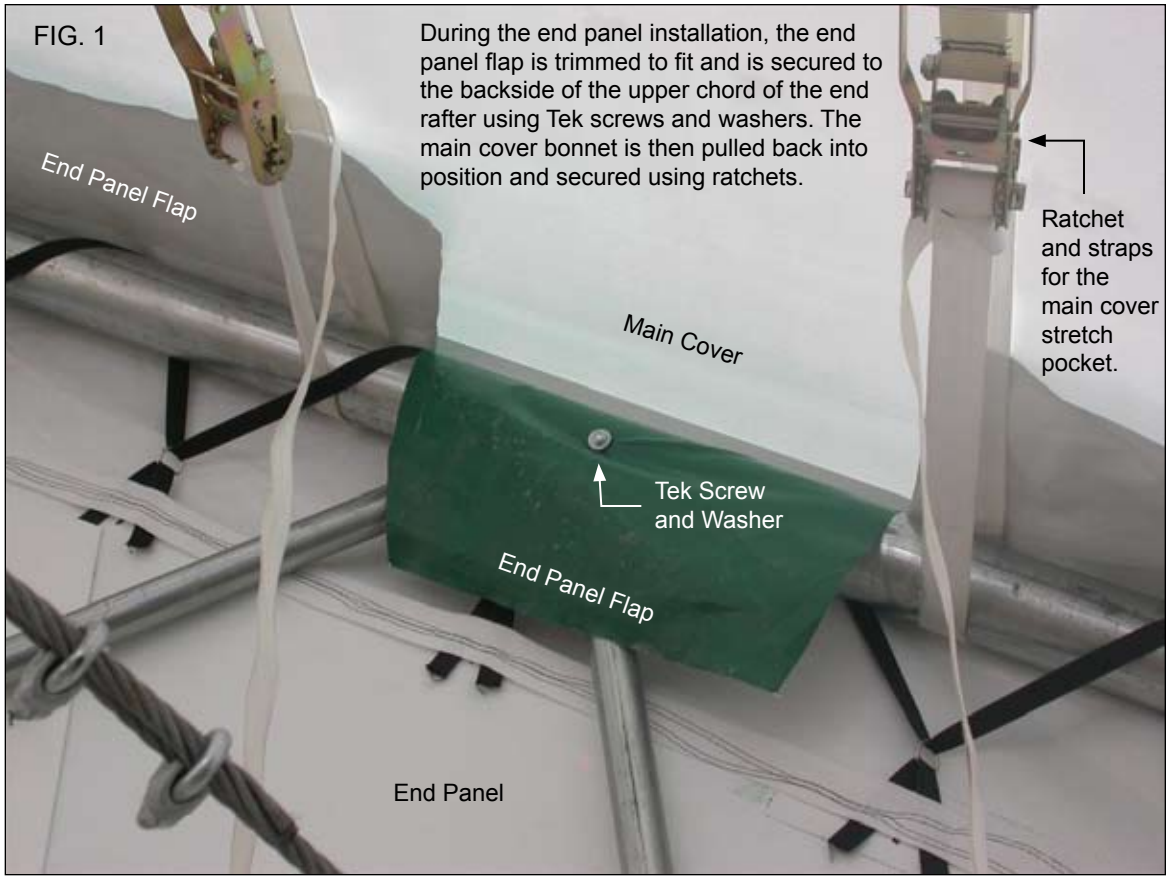
- Regularly check the main cover and end panels (if equipped) to see that these remain tight and in proper repair.
- Check the cable turnbuckles and cable clamps to see that these remain tight. Tighten as needed.
- Check the cable to verify that it is not worn or wearing on a frame member.
- Verify that all ground anchors (if equipped) are tight and in good repair.
- Verify that all bolts and nuts are tight.
- Verify that all ratchets and straps are tight and in good repair. Replace worn or damaged parts as needed.
- Inspect the anchor system and replace any worn or damaged parts.
- Do not climb or stand on the building at anytime.
- Remove debris and objects that may accumulate on the shelter. Use tools that will not damage the cover when removing debris.
- *Inspect the building and all components frequently and attend to all findings promptly.*
- Remove snow to prevent excess accumulation. Use tools that will not damage the cover when removing snow.
- Check the contents of the shelter to verify that nothing is touching the cover or the side panels (if equipped) that could cause damage.
- For replacement or missing parts, call 1-800-245-9881 for assistance.

NOTE: With the exception of Truss Arch buildings, ClearSpan™ shelters and greenhouses do not have any tested loading criteria.

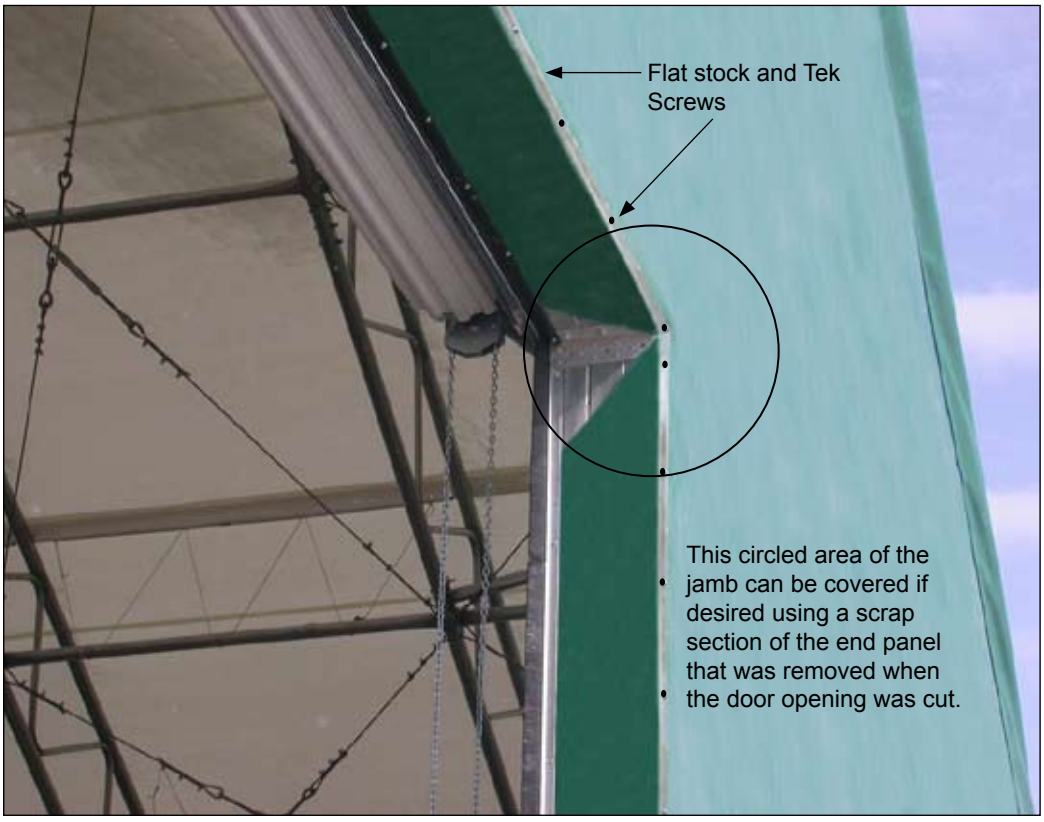
Space below is reserved for customer notes.

Photo above shows ratchet and strap assemblies used to secure the vertical PVC conduits to the end wall vertical frame members. The circled areas show where the ratchets are attached to the concrete piers. These ratchets secure the horizontal end panel conduit and are used to stretch the panel. Photo also shows where the end panel is wrapped around the door jambs. See arrows and next page.





View shows the end rafter as seen from inside the assembled building.



This photo shows the end panel as it wraps around the door jamb and header of the end wall. Flat stock and Tek screws can also be seen securing the end panel to the door frame from the outside. The jamb dimension and overhead door may differ for your truss arch building.