

Fabric Covered Building Roof Systems
ATTACHMENT B (ATT B) INFORMATION SHEET

VENDOR INSTRUCTIONS: Please provide information requested in the fields below, and submit this form with your bid, including all other documentation specified below and in the contract specifications. **Failure to complete this form in its entirety will result in the disqualification of the bid.**

PART I

Vendor's Name: Cover-All Buildings of WV, Inc.

Building System Manufacturer Name: Britespan Building Systems, Inc.

Professional Certification* (Reference Section 3.2.5.1)

- ISO 9001:2015 Certificate*
Expiration Date: 08/13/2028
- or-
- Other Equivalent Certification* (Provide Name Below)

Expiration Date: ___/___/_____

***Attach ISO 9001:2015 Certificate -or- Equivalent Certificate. For Equivalent Certification, attach related documentation for equivalency evaluation with the bid.**

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WV PURCHASING
DIVISION

PART II

Vendor Structure References (Reference Section 3.2.5.2)

List three (3) Fabric Covered Roof Systems structures purchased through your company, which are sized 70'x140 or greater, and were built five (5) or more years ago.

Site Name	Location	Year Built
1 WVDOH -BRAGG OUTPOST	200 SAMAITAN DRIVE SHADY SPRINGS, WV 25918	2014
2 WVDOH -I77 MILL RUN	1758 MILL RUN RD PARKERSBURG, WV 26104	2014
3 WVDOH – RALEIGH CO	379 COUNTY HEADQUARTERS BECKLEY, WV 25081	2016

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PART III

Technical Expert Information* (Reference Section 3.2.5.3)

List Technical Expert's name and five (5) reference structures below which the Technical Expert has worked on or supervised the construction of, which are similar to those requested within these contract specifications. Technical Expert References are for WVDOH's informational purposes only and do not dictate the Technical Expert for any project.

Technical Expert's Name: Nathaniel G Rohrig

*Attach a detailed copy of the Technical Expert's resume with bid.

Site Name	Location	Year Built
1 DISTRICT ONE SALT SHED(S) ST. ALBANS AND SCARY CREEK	ST. ABANS AND SCARY CREEK, WV 55' X 100'	2009
2 WVDOH - MARTINSBURG	1823 ROCK CLIFF DRIVE MARTINSBURG, WV 25401 72' X 140'	2020
3 WVDOH - BURNSVILLE	RT 1 BOX 345 BURNSVILLE, WV 26335 40' X 70'	2019
4 WVDOH-PRINCETON	COUNTY ROUTE 27/3 PRINCETON, WV 24740 55' X 100'	2018
5WVDOH -MASON COUNTY	ROUTE 2 & CR FAIRGROUND RD POINT PLEASANT, WV 24740 55' X 100'	2017

VENDOR PREFERENCE CERTIFICATE

Certification and application is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

1. Application is made for 2.5% vendor preference for the reason checked:
[checked] Bidder is an individual resident vendor and has resided continuously in West Virginia, or bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia, for four (4) years immediately preceding the date of this certification; or,

[] Bidder is a resident vendor partnership, association, or corporation with at least eighty percent of ownership interest of bidder held by another entity that meets the applicable four year residency requirement; or,

[] Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,

2. Application is made for 2.5% vendor preference for the reason checked:
[checked] Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,

3. Application is made for 2.5% vendor preference for the reason checked:
[] Bidder is a nonresident vendor that employs a minimum of one hundred state residents, or a nonresident vendor which has an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia and employs a minimum of one hundred state residents, and for purposes of producing or distributing the commodities or completing the project which is the subject of the bidder's bid and continuously over the entire term of the project, on average at least seventy-five percent of the bidder's employees or the bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years and the vendor's bid; or,

4. Application is made for 5% vendor preference for the reason checked:
[checked] Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,

5. Application is made for 3.5% vendor preference who is a veteran for the reason checked:
[] Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,

6. Application is made for 3.5% vendor preference who is a veteran for the reason checked:
[] Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

7. Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules.

[] Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

8. Application is made for reciprocal preference.
[] Bidder is a West Virginia resident and is requesting reciprocal preference to the extent that it applies.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) rescind the contract or purchase order; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: Cover-All Building of WV, Inc.

Signed: [Signature]

Date: 11-3-2025

Title: President

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

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SPECIFICATIONS

1. **PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Division of Highways to establish an open-end contract for Fabric Covered Roof Systems, for WVDOH salt shed building sites throughout the state of West Virginia

2. **DEFINITIONS:** The terms listed below shall have the following meanings assigned to them throughout and for the purpose of this Solicitation. Additional definitions can be found in Section 2 of the General Terms and Conditions.
 - 2.1 **“ADO” and “Agency Delivery Order”** - A written order entered by WVDOH personnel in the wvOASIS financial system against a master agreement, authorizing quantities of commodities and/or services to be delivered in accordance with all terms, conditions, and prices stipulated in the original contract.
 - 2.2 **“ANSI”** - The American National Standards Institute. Reference: www.ansi.org.
 - 2.3 **“ASCE”** - The American Society of Civil Engineers. Reference: www.asce.org.
 - 2.4 **“ASTM”** - ASTM International, formerly known as American Society for Testing and Materials, is an international standards organization that develops and publishes voluntary consensus technical standards for a wide range of materials, products, systems, and services. Reference: www.astm.org.
 - 2.5 **“Contract Item(s)”** - The list of items available for Vendor to provide pricing as identified in Section 3 of this Solicitation and referenced throughout.
 - 2.6 **“Contractor” or “Vendor”** - Interchangeably used throughout this Solicitation and in any cited Sections of the West Virginia Department of Transportation, Division of Highways Standard Specifications, Roads and Bridges, adopted latest Standard Specs edition, as amended, including any Supplementals and refers to any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract, as context requires.
 - 2.7 **“FOB” or “Free on Board”** - Indicates that the price for goods includes delivery at the Vendor’s expense to a specified point, and that the Vendor retains liability for loss or damage until the goods are delivered.
 - 2.8 **“Information Sheet”** – The data collection source for Vendor qualification information and references, attached hereto as **Attachment B (ATT B)**.

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- 2.9 **“Liquidated Damages”** - Monetary compensation due from the Vendor in the event the Vendor’s performance falls short of contractual stipulation or breaches the contract. Delays in the delivery of goods and/or services or quality failures or corrections by the Vendor may result in the Agency assessing charges for such deficiencies per these contract Specifications, the Standard Specs Section 108.7, as amended, and calculated from the table posted in Section 6.3.1 of these Specifications.
- 2.10 **“Pricing Pages,” “Attachment A,” and “ATT A”** - The schedule of prices attached hereto as Attachment A (ATT A) and used to evaluate Solicitation responses.
- 2.11 **“PSF”** - Pounds per Square Foot.
- 2.12 **“PSI”** - Pounds per Square Inch.
- 2.13 **“Roof System(s)”** - All components comprised in a steel framed, single-span truss arch Fabric Covered Building Roof System which will be used to cover WVDOH salt sheds.
- 2.14 **“Solicitation”** - The official notice of an opportunity to supply the State with goods or services.
- 2.15 **“Standard Specs”** - Used throughout this solicitation means the West Virginia Department of Transportation, Division of Highways Standard Specifications, Roads and Bridges, most recent edition, as modified or amended by all subsequent Supplemental Specifications.
- 2.16 **“WVDOH” or “Agency”** - Interchangeable terms for the West Virginia Division of Highways.

3. GENERAL REQUIREMENTS:

- 3.1 **Standard Specifications Roads and Bridges:** The following Standard Specs Sections shall apply, as applicable, to the administration of this contract: 101, 102, 103, 104, 105, 106, 107, 108, 109, and 110, as amended.

Free electronic copies of the Standard Specs and Supplementals are available at: <https://transportation.wv.gov/highways/TechnicalSupport/specifications/Pages/default.aspx>. Hard copies of these publications may be purchased from Technical Support Division, by completing the Specification Order Form provided within the website.

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3.2 Contract Items and Mandatory Requirements: Vendor shall provide Agency with the Contract Items listed below on an open-end and continuing basis. Contract Items must meet or exceed the mandatory requirements as shown below.

3.2.1 WVDOH requires Fabric Covered Roof Systems for salt sheds in the sizes below:

Fabric Covered Building Roof System Size 40' x 70' - one door
(2800 Sq Ft)

Fabric Covered Building Roof System Size 54' x 100' - one door
(5400 Sq Ft)

Fabric Covered Building Roof System Size 72' x 100' - one door
(7200 Sq Ft)

Fabric Covered Building Roof System Size 72' x 140' - one door
(10,800 Sq Ft)

Fabric Covered Building Roof System Size 72' x 140' - two doors
(10,800 Sq Ft)

Vendor shall provide a price for every size of Fabric Covered Roof System listed on the **Pricing Pages, Attachment A (ATT A)**. Vendor shall factor into their bid price all anticipated expenses for the roof system, including any specialized tools required for installation, warranty, delivery FOB to Agency designated site, and expenses related to providing a technical expert to be on-site for installation by Agency forces. No separate per diem will be assessed. All Contract Items on the Pricing Pages must be bid. Failure to bid all Contract Items shall result in the disqualification of the bid.

3.2.1.1 The design shall comply with the ASCE 7-22 manual as amended on "Minimum Design Loads for Buildings and Other Structures".

3.2.1.1.1 The minimum interior wall height clearance is 13 feet above the finished floor slab. There are no exceptions for less than 13 feet due to shed loading clearance.

3.2.1.1.2 The minimum wall thickness is 12 inches.

3.2.1.1.3 The minimum interior clearance required at the apex of the arch shall be as follows:

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40' x 70' = 26'

54' x 100' = 37'

72' x 100' = 39'

72' x 140' = 39'

In addition to the design loads required by the building code, a ground snow load of 35 PSF shall be utilized for all locations unless otherwise required by state or local code. The load combinations shall be as specified in applicable building codes. See the WV State Fire Commission State Building Code, Title 87 Series 4:
<https://firemarshal.wv.gov/media/39301/download?inline>

3.2.2 Steel Frame Requirements

- 3.2.2.1** Each member must be designed to withstand stresses resulting from combinations of loads that produce maximum allowable stresses in that member.
- 3.2.2.2** Each assembly shall be properly piece-marked to assist with the identification and erection of the roof system. Piece-marks by secured tagging or welding practices (prior to final coating of or assembly) shall be labeled in clear, easily identifiable locations.
- 3.2.2.3** Structural steel must comply with ANSI/AISC 360 as amended, "Specification for Structural Steel Buildings," most recent edition for design requirements and allowable stresses.
- 3.2.2.4** Welded connections must comply with the most recent edition of the provisions of ANSI/AISC 360 as amended, "Specification of Structural Steel Buildings."
- 3.2.2.5** The entire system, including welds, shall be galvanized to resist corrosion from road salt stored within the structure in accordance with ASTM A123 as amended, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products. All fasteners shall be galvanized in accordance with ASTM A153 as amended, "Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Hardware."
- 3.2.2.6** Steel tubing shall be round and cross members and back wall framing members shall comply with ASTM A500 as amended, Grade B, ASTM A501 as amended or ASTM A53 as amended.

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3.2.2.7 Steel connection members shall be fabricated from plate or bar stock and provide 42,000 PSI minimum yield strength and comply with ASTM A529 as amended, ASTM A570 as amended or ASTM A572 as amended.

3.2.2.8 Bolts for structural framing shall comply with ASTM A307 as amended or ASTM A325 as amended specifications as necessary for design loads and connection details, including bolts for use in corrosive environments.

3.2.2.9 The roof system is to include hollow structural steel end wall steel and fabric on both ends. The back wall shall be completely enclosed except when the 72' x 140' requires a front and a back door.

3.2.2.10 The front wall shall include an accordion-style fabric door, centered along the front wall, for all sizes at no less than 18' x 18' opening. The door **must** accommodate manual operation without assistance from powered operators or winch systems.

3.2.3 Industrial Fabric Cover Requirements

3.2.3.1 The industrial fabric cover shall be woven high density polyethylene tape with double stack weave – finish coated sides, meeting or exceeding the following requirements:

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TABLE 3.2.3.1.A

REQUIREMENT DESCRIPTION	REQUIREMENT	SPECIFICATION AS AMENDED
Weave	16 x 16 PSI woven clear HDPE scrim	
Coating Thickness	4.0 mil average each side (94 g/m ²)	
Coating Composition	Modified LDPE coating with UV protection	
Weight	12.5 oz/yd ² (373 g/m ²) +/-5%	
Thickness	23 mils (0.635mm)	ASTM D5199
Hydrostatic Resistance Method	171 PSI (1180 kPa)	ASTM D751A
Grab Tensile	Warp: 340 lbs. (1511 N) Weft: 340 lbs. (1511 N)	ASTM D5034 ASTM D5034
Strip Tensile	Warp: 250 lbs. (1112 N) Weft: 250 lbs. (1112 N)	ASTM D5035 ASTM D5035
Tongue Tear	Warp: 115 lbs. (511 N) Weft: 115 lbs. (511 N)	ASTM D2261 ASTM D2261
Mullen Burst	675 PSI (4658 kPa)	ASTM D3786
Cold Crack	Minus 60° C	ASTM D2136

TABLE 3.2.3.1. B

FIRE RATINGS REQUIREMENT:

Test/Standard As Amended:	Flame Spread:	Smoke Developed:	Char Length:
ASTM E84	FS10	SD 58	6.5
Can/ULC 5102.2-M88	FS15	SD 125	6.5

3.2.3.2 The cover fastening system shall be compatible with the requirement in Tables 3.2.3.1 A and 3.2.3.1.B, including zero-

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stretch belting, welded fabric pockets and 10,000-pound capacity lashing winches coated to prevent corrosion.

3.2.3.3 The system shall include aluminum flat bar for fabric termination around entire building.

3.2.3.4 The color of the fabric cover shall be tan with green trim. Color samples should be provided with the Vendor's bid for review and approval. Color samples may be submitted as colored photocopies or electronic sample; it is not necessary to submit a fabric sample with the bid.

3.2.3.5 The warranty period for the industrial cover shall be 15 years. **The awarded vendor should provide a copy of this warranty with their bid.**

3.2.3.6 The awarded vendor is responsible for all repairs during the warranty period, including parts and labor, at no additional cost to the WVDOH.

3.2.3.6.1 Permanent fabric repair service shall be handled by the Vendor within five (5) working days after the Vendor is contacted by the WVDOH. Temporary patching* shall only be used when conditions do not permit permanent repair (such as temperatures). Permanent repair shall be made as soon as conditions are appropriate for successful repair. Alternative temporary repair dates and permanent repair dates may be agreed upon by the WVDOH and the Vendor.

Temporary patching such as the use of Duct Tape is not acceptable.

3.2.3.6.2 Servicing or repairs to doors shall be handled by the Vendor within five (5) working days after the Vendor is contacted by the WVDOH. The completed service or repair shall be in an acceptable state by the WVDOH. At no time shall the WVDOH be expected to repair the door. Alternative service/repair dates may be agreed upon by WVDOH and the Vendor.

3.2.4 Shop Drawings

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3.2.4.1 Sample Shop Drawings. Vendor sample shop drawings with complete information on the five requested systems should be submitted with the Vendor's bid. Vendor sample shop drawings shall indicate pertinent criteria, reaction and other information required for fabrication installation and as required by codes. The sample shop drawings shall identify the construction and in-place loads for consideration with the roof system building design.

3.2.4.2 Project Specific Shop Drawings. Once a project has been established, all project specific shop drawings from the awarded vendor, **must be signed and sealed** by a Professional Engineer registered in the State of West Virginia. Review and approval of project specific shop drawings will be conducted by WVDOH.

3.2.5 Qualifications

3.2.5.1 Certification. The bidder must be certified, at a minimum, to ISO 9001:2015 Quality Management Systems Standards and should provide a copy of that certification with their bid. The Vendor shall have direct experience in the design, manufacture, and installation of structures of the type specified herein; and shall operate according to a comprehensive quality system.

A current equivalent or current substitute certification of similar Standards shall be considered for approval by the WVDOH. **Documentation of the certification, along with a copy of the bidder's current certification should be submitted with the bid for equivalency evaluation.** The WVDOH will review the equivalent or substitute certification prior to contract award.

Whether ISO 9001:2015 Quality Management Systems Standards certification or an equivalent substitute certification, the bidder shall provide the name of this certification on the "**Information Sheet**", **Attachment B (ATT B)**.

Whether ISO 9001:2015 certified, equivalent or substitute, the certification must continue throughout the term of this contract. **Upon any renewal of certification, a copy of the certification should be sent to WVDOH.**

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3.2.5.2 Structure References. The bidder shall provide three (3) references with structures in use for at least five (5) years which are clear span and enclose an area equal to or greater than a 72' x 140' concrete structure on the "Information Sheet" (ATT B). **Failure to provide the requested structure references shall result in the disqualification of the bid.**

3.2.5.3 Vendor Personnel Requirements. The bidder shall submit the name of at least one (1) technical expert listing their experience on at least five (5) jobs or similar type jobs on the "Information Sheet" (ATT B). Additionally, a detailed resume of this technical expert should also be included with the bidder's response. This resume should be in detail as if submitting a job application. This will be for informational purposes and does not dictate the technical expert for any project.

The awarded Vendor **shall provide** representation at the WVDH pre-assembly and post-assembly meetings for salt shed projects. The representation shall be to establish coordination, discussion of installation information and to provide any clarification required regarding the assembly of the Roof System.

4. CONTRACT AWARD:

- 4.1 Contract Award:** The Contract is intended to provide Agencies with a purchase price on all Contract Items. The Contract shall be awarded to the Vendor that provides all Contract Items meeting the required specifications for the lowest overall total cost as shown on ATT A. **Vendor must bid all Contract items listed on ATT A as failure to do so will result in Vendor's bids being disqualified.**
- 4.2 Pricing Pages, Attachment A ("ATT A"):** Vendor shall complete the Pricing Pages by providing a bid price for each Contract Item listed. Vendor shall factor into their bid prices all equipment, materials, delivery, and labor required to provide Contract Items. Pricing shall be considered statewide. **Vendor must bid each Contract Item on ATT A to be considered for award; failure to do so will result in Vendor's bids being disqualified.** All bids or pricing submitted shall be held and honored by the Vendor for 90 days after the bid opening date.
- 4.2.1** The Pricing Pages contain a list of Contract Items and estimated purchase volumes. The estimated purchase volume for each item represents the approximate volume of anticipated purchases only. No future use of the Contract or any individual item is guaranteed or implied.

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4.2.2 Vendor should type or electronically enter the information into the Pricing Pages spreadsheet to prevent errors in the evaluation. In most cases, the Pricing Pages are available in wvOASIS within the solicitation attachments, however, Vendors may request an electronic copy of the Pricing Pages spreadsheet for bid purposes by sending an email request to the following address: John.W.Estep@wv.gov.

4.2.3 Changing a column or row description, Contract Item description, unit of measure, or estimated quantities on the **Pricing Pages, Attachment A (ATT A)**, shall result in the disqualification of Contract Item bid on the altered line. In circumstances when all Contract Items must be bid for bid evaluation and contract award, the disqualification of any Contract Item will result in the disqualification of the entire bid.

Submitting Pricing Pages other than those provided with this solicitation, as described in Section 4.2, shall result in the disqualification of Vendor's bid in its entirety.

Vendor entries of bid prices or other notations made in wvOASIS commodity line descriptions will not be considered for bid evaluation or award.

4.3 Information Sheet, Attachment B (ATT B): The "Information Sheet" (ATT B) requests valuable information for the evaluation of the Vendor's submitted bid. Vendor must complete the "Information Sheet" in its entirety. The Vendor shall submit the attached "Information Sheet" (ATT B), with all fields completed, with their bid. **Failure to provide the completed "Information Sheet" (ATT B) will result in the disqualification of the Vendor's bid.**

4.4 Contract Award Transition: Upon the award of this contract, WVDOH will announce the effective start date. Any order issued under the previous contract will remain in effect and shall not be cancelled without mutual written agreement between the issuing agency and the vendor.

4.5 Cooperative Contracting: The purchase prices on all Contract Items herein, available for the WVDOH, shall be adoptable for other public agencies upon their request. Agencies under the authority of the West Virginia Purchasing Division must receive prior approval by the Purchasing Director.

5. ORDERING, INVOICING AND PAYMENT:

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5.1 Ordering: Vendor shall accept orders through regular mail, facsimile, email, or any other written forms of communication. Vendor shall maintain and keep current its phone numbers, fax number, email address, locations, and ordering/billing/payment addresses with WVDOH and in wvOASIS. Vendor may, but is not required to, accept online orders through a secure internet ordering portal/website. If Vendor can accept online orders, it shall include in its response a brief description of how Agencies may utilize the online ordering system. Vendor shall ensure that its online ordering system is properly secured prior to processing Agency orders online.

5.2 Agency Delivery Order (“ADO”): District personnel must issue an ADO from wvOASIS for specific quantities of materials based on each project’s requirements and detailing the need and location information of work to be completed per Contract Items, as well as the start and end dates, which will become the agreed upon official start and end dates. The ADO must be created in wvOASIS and approved to “Final” prior to placing the order with the Vendor. The District is responsible for creating the ADO in wvOASIS and is required to submit the approved order, in writing, directly to the Vendor via mail, email or fax. **Verbal communication with the Vendor is not considered an official order.** In the event the Vendor denies an order or if there are changes to an ADO, the District must process a change order to the approved ADO issued from wvOASIS.

Delivery date on the Agency Delivery Order needs to align with the planned installation. If there are project delays, the Agency Delivery Order needs to be updated so the materials stay in the vendors possession until we need them, minimizing the opportunity for dispute.

5.3 Invoicing: Invoices submitted to WVDOH For payment should contain the following information:

- Vendor’s name and payment remit-to address, as they appear in Vendor’s wvOASIS account.
- The corresponding order’s ADO number.
- The ordering Agency’s delivery site
- The Contract Item description, unit price, quantity, and extended total.
- The date(s) Contract Items were delivered.

5.4 Payment: Upon completion of the work indicated on the ADO, Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia. The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, as well as Electronic Funds Transfer as methods to process payment for goods and services. The Vendor shall accept the State of West Virginia’s Purchasing Card and Electronic Funds Transfer for payment of orders under this Contract. Electronic

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Funds Transfer for payment is available through the WV State Auditor's Office. The Vendor may visit the WV State Auditor's website (wvsao.gov) for all necessary forms and instructions. Payment method may be dictated at WVDOH's discretion.

6. PROJECT ACCEPTANCE, DELIVERY AND RETURN:

6.1 Project Acceptance and Written Verification of Receipt: Upon receipt of a WVDOH ADO, the Vendor shall advise the WVDOH in writing within five (5) calendar days of their acceptance of the ADO. As verification of receipt, Vendor must provide written acknowledgement of any ADOs and any Revisions/Modifications thereto sent by WVDOH. Failure to provide the WVDOH with written acknowledgement of any ADOs/Revisions within five (5) days of the Order being sent shall be considered refusal of the ADO. In the event of refusal, the WVDOH at its own discretion shall cancel the ADO and may seek to obtain the goods or services from the Vendor or proceed with an emergency purchase from the open market.

6.2 Delivery Time: Vendor shall deliver standard orders within 30 working days after orders are received. Vendor shall ship all orders in accordance with the above schedule and shall not hold orders until a minimum delivery quantity is met. **No vendor is authorized to ship project related goods or begin work/services, nor is the Agency authorized to receive materials, prior to the issuance of a Delivery Order.**

Deliveries shall be made to the designated site during normal project working hours. This information will be provided to the Vendor on the Delivery Order. The awarded vendor shall provide representation to inspect and accept the material on behalf of the Agency. Unloading of the material shall be performed by Agency personnel.

6.3 Late Delivery: The Agency placing the order under this Contract must be notified in writing if orders will be delayed for any reason. Any delay in delivery that could cause harm to an Agency will be grounds for cancellation of the delayed order.

The Agency placing the ADO under this Contract must be notified **in writing by the Vendor no later than five (5) business days prior to the scheduled start date noted on the Agency's order.** Any failure to notify, acknowledge receipt of WVDOH's written ADOs/ Revisions resulting in delivery delay, or failure to start or complete the project per the WVDOH scheduled due dates may be determined by the WVDOH at its sole discretion as harmful to the Agency and as such, shall result in WVDOH's cancellation of the ADO and application of Liquidated

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Damages.

Any Agency seeking to obtain items from the open market under this provision must first obtain approval of the West Virginia Purchasing Division.

6.3.1 Liquidated Damages: If the Vendor's work completion or corrections of deficient work exceeds the ADO completion due date or timeframe, the Vendor shall agree that no extension of contract time will be granted unless Liquidated Damages are applied by Vendor as an itemized invoice credit for the corresponding ADO. The WVDOH shall calculate Liquidated Damages per project beginning on day one (1) after the WVDOH's specified ADO due date and in accordance with this Section, the Contract's Terms and Conditions, Standard Specs Section 108.7, and the following Standard Specs Section Table 108.7.1 - Schedule of Liquidated Damages, as amended:

**Table 108.7.1
Schedule of Liquidated Damages**

Original Contract Amount		Daily Charges Per Calendar Day
For More Than	To and Including	
\$0	\$500,000	\$350
\$500,000	\$2,000,000	\$650
\$2,000,000	\$10,000,000	\$1,600
\$10,000,000	\$25,000,000	\$3,100
\$25,000,000		\$4,200

6.3.2 Force Majeure: It shall be further noted that the Vendor is not responsible for and shall not be penalized for delays in its delivery of goods and/or services when caused by factors or events outside Vendor's control, including but not limited to acts or omissions of the Agency or third parties, acts of civil or military authority, civil disturbance, war, terrorism, pandemics, explosions, fire, floods, tornadoes, or other natural disasters or acts of God.

6.4 Delivery Payment/Risk of Loss: Standard order delivery shall be F.O.B. destination to the Agency's location. Vendor shall include the cost/discount of standard order delivery charges in its bid pricing and is not permitted to charge the Agency separately for such delivery. The Agency will pay delivery charges on all emergency orders provided that Vendor invoices those delivery costs as a separate charge with the original freight bill attached to the invoice.

Deliveries made by the vendor shall be comprised only of Contract Items intended for delivery at that location and specified in the pricing pages, contract

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specifications or ADO. At no time shall property belonging to the West Virginia Department of Transportation be utilized as a lay-down or storage facility by the vendor, or items left with the intention of being distributed to an alternate location.

6.5 Return of Unacceptable Items: The decision of the WVDOH District Engineer or their designee regarding materials, workmanship, quality etc., shall be final per the Standard Specs Section 105.1, as amended. If the Agency deems the Contract Items to be unacceptable, the Contract Items shall be returned to Vendor at Vendor's expense and with no restocking charge. Vendor shall either arrange for the return within five (5) days of being notified that items are unacceptable or permit the Agency to arrange for the return and reimburse Agency for delivery expenses. If the original packaging cannot be utilized for the return, Vendor will supply the Agency with appropriate return packaging upon request. All returns of unacceptable items shall be F.O.B. the Agency's location. The returned product shall either be replaced, or the Agency shall receive a full credit or refund for the purchase price, at the Agency's discretion.

6.6 Return Due to Agency Error: Items ordered in error by the Agency will be returned for credit within 30 days of receipt, F.O.B. Vendor's location. Vendor shall not charge a restocking fee if returned products are in a resalable condition. Items shall be deemed to be in a resalable condition if they are unused and in the original packaging. Any restocking fee for items not in a resalable condition shall be the lower of the Vendor's customary restocking fee or 5% of the total invoiced value of the returned items.

7. VENDOR DEFAULT:

7.1 The following shall be considered a vendor default under this Contract.

7.1.1 Failure to provide Contract Items in accordance with the requirements contained herein.

7.1.2 Failure to comply with other specifications and requirements contained herein.

7.1.3 Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.

7.1.4 Failure to remedy deficient performance upon request.

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7.2 The following remedies shall be available to Agency upon default.

7.2.1 Immediate cancellation of the Contract.

7.2.2 Immediate cancellation of one or more release orders issued under this Contract.

7.2.3 Any other remedies available in law or equity.

8. MISCELLANEOUS:

8.1 Substitutions: If both the WVDOH and the awarded Vendor agree to allow a substitution, the dimensions of a building may be modified by up to 5% overall square footage to accommodate the WVDOH building lot. The clearance, door(s), and all other requirements of these specifications must be met.

The substitution shall be offered at the same price as the Contract Item with the nearest square footage and shall not exceed a 5% square footage difference. The WVDOH must clearly specify the substitution on the Delivery Order, and the Vendor must clearly accept the substitution in writing, following the process outlined in Section 6.1, prior to WVDOH establishing walls for the structure.

EXAMPLE: The WVDOH has a long narrow lot and would like to maximize its use for salt storage. If both the WVDOH and the Vendor agree to a substitution, the WVDOH may request a 46' x 120' Roof System (5520 Sq Ft.) in place of a 54' x 100' Roof System (5400 Sq Ft.); a 2.2% square footage difference in overall size.

8.2 Vendor Supply: Vendor must carry sufficient inventory of the Contract Items being offered to fulfill its obligations under this Contract. By signing its bid, Vendor certifies that it can supply the Contract Items contained in its bid response.

8.3 Vendor Name Change: It is the Vendor's responsibility to notify the WVDOH of name changes or acquisition by another company during the term of the contract. The WVDOH must be notified in writing of the change/acquisition and intention for the contract's ownership within 10 days of the change. **Failure to do so may result in payment delays.**

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- 8.4 Reports:** Vendor shall provide the Agency with quarterly reports, annual summaries, and/or monthly reports as requested by the Agency and/or the West Virginia Purchasing Division showing quantities, total dollar value of the Contract Items purchased, ordered, shipped & invoiced with dates in spreadsheet format as defined by the Agency. Failure to supply such reports may be grounds for cancellation of this Contract.
- 8.5 Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract Manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract Manager and his or her contact information below.

Contract Manager: Nate Rohrig
Telephone Number: (304) 641-6450
Fax Number: (304) 622-5546
Email Address: nrohrig@aol.com

Vendor shall inform the Agency in writing of any changes to the information provided above within 10 calendar days of such changes. Failure to comply may be grounds for cancellation of this contract.

GENERAL TERMS AND CONDITIONS:

1. CONTRACTUAL AGREEMENT: Issuance of an Award Document signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance by the State of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid, or on the Contract if the Contract is not the result of a bid solicitation, signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.

2. DEFINITIONS: As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.

2.1. "Agency" or "Agencies" means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.

2.2. "Bid" or "Proposal" means the vendors submitted response to this solicitation.

2.3. "Contract" means the binding agreement that is entered into between the State and the Vendor to provide the goods or services requested in the Solicitation.

2.4. "Director" means the Director of the West Virginia Department of Administration, Purchasing Division.

2.5. "Purchasing Division" means the West Virginia Department of Administration, Purchasing Division.

2.6. "Award Document" means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the contract holder.

2.7. "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.

2.8. "State" means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.

2.9. "Vendor" or "Vendors" means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. CONTRACT TERM; RENEWAL; EXTENSION: The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

Term Contract

Initial Contract Term: The Initial Contract Term will be for a period of One (1) Year. The Initial Contract Term becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as _____), and the Initial Contract Term ends on the effective end date also shown on the first page of this Contract.

Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal should be delivered to the Agency and then submitted to the Purchasing Division thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Unless otherwise specified below, renewal of this Contract is limited to Three (3) successive one (1) year periods or multiple renewal periods of less than one year, provided that the multiple renewal periods do not exceed the total number of months available in all renewal years combined. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

Alternate Renewal Term – This contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's office (Attorney General approval is as to form only)

Delivery Order Limitations: In the event that this contract permits delivery orders, a delivery order may only be issued during the time this Contract is in effect. Any delivery order issued within one year of the expiration of this Contract shall be effective for one year from the date the delivery order is issued. No delivery order may be extended beyond one year after this Contract has expired.

Fixed Period Contract: This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within _____ days.

Fixed Period Contract with Renewals: This Contract becomes effective upon Vendor's receipt of the notice to proceed and part of the Contract more fully described in the attached specifications must be completed within _____ days. Upon completion of the work covered by the preceding sentence, the vendor agrees that:

the contract will continue for _____ years;

the contract may be renewed for _____ successive _____ year periods or shorter periods provided that they do not exceed the total number of months contained in all available renewals. Automatic renewal of this Contract is prohibited. Renewals must be approved by the Vendor, Agency, Purchasing Division and Attorney General's Office (Attorney General approval is as to form only).

One-Time Purchase: The term of this Contract shall run from the issuance of the Award Document until all of the goods contracted for have been delivered, but in no event will this Contract extend for more than one fiscal year.

Construction/Project Oversight: This Contract becomes effective on the effective start date listed on the first page of this Contract, identified as the State of West Virginia contract cover page containing the signatures of the Purchasing Division, Attorney General, and Encumbrance clerk (or another page identified as _____), and continues until the project for which the vendor is providing oversight is complete.

Other: Contract Term specified in _____

4. AUTHORITY TO PROCEED: Vendor is authorized to begin performance of this contract on the date of encumbrance listed on the front page of the Award Document unless either the box for "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked in Section 3 above. If either "Fixed Period Contract" or "Fixed Period Contract with Renewals" has been checked, Vendor must not begin work until it receives a separate notice to proceed from the State. The notice to proceed will then be incorporated into the Contract via change order to memorialize the official date that work commenced.

5. QUANTITIES: The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.

Open End Contract: Quantities listed in this Solicitation/Award Document are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.

Service: The scope of the service to be provided will be more clearly defined in the specifications included herewith.

Combined Service and Goods: The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.

One-Time Purchase: This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.

Construction: This Contract is for construction activity more fully defined in the specifications.

6. EMERGENCY PURCHASES: The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One-Time Purchase contract.

7. REQUIRED DOCUMENTS: All of the items checked in this section must be provided to the Purchasing Division by the Vendor as specified:

LICENSE(S) / CERTIFICATIONS / PERMITS: In addition to anything required under the Section of the General Terms and Conditions entitled Licensing, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits upon request and in a form acceptable to the State. The request may be prior to or after contract award at the State's sole discretion.

ISO 9001:2015 Certificate or Equivalent

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications regardless of whether or not that requirement is listed above.

8. INSURANCE: The apparent successful Vendor shall furnish proof of the insurance identified by a checkmark below prior to Contract award. The insurance coverages identified below must be maintained throughout the life of this contract. Thirty (30) days prior to the expiration of the insurance policies, Vendor shall provide the Agency with proof that the insurance mandated herein has been continued. Vendor must also provide Agency with immediate notice of any changes in its insurance policies, including but not limited to, policy cancelation, policy reduction, or change in insurers. The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether that insurance requirement is listed in this section.

Vendor must maintain:

Commercial General Liability Insurance in at least an amount of: 1,000,000 per occurrence.

Automobile Liability Insurance in at least an amount of: 1,000,000 per occurrence.

Professional/Malpractice/Errors and Omission Insurance in at least an amount of: _____ per occurrence. Notwithstanding the forgoing, Vendor's are not required to list the State as an additional insured for this type of policy.

Commercial Crime and Third Party Fidelity Insurance in an amount of: _____ per occurrence.

Cyber Liability Insurance in an amount of: _____ per occurrence.

Builders Risk Insurance in an amount equal to 100% of the amount of the Contract.

Pollution Insurance in an amount of: _____ per occurrence.

Aircraft Liability in an amount of: _____ per occurrence.

9. WORKERS' COMPENSATION INSURANCE: Vendor shall comply with laws relating to workers compensation, shall maintain workers' compensation insurance when required, and shall furnish proof of workers' compensation insurance upon request.

10. VENUE: All legal actions for damages brought by Vendor against the State shall be brought in the West Virginia Claims Commission. Other causes of action must be brought in the West Virginia court authorized by statute to exercise jurisdiction over it.

11. LIQUIDATED DAMAGES: This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy. Vendor shall pay liquidated damages in the amount specified below or as described in the specifications:

_____ for _____.

Liquidated Damages Contained in the Specifications.

Liquidated Damages Are Not Included in this Contract.

12. ACCEPTANCE: Vendor's signature on its bid, or on the certification and signature page, constitutes an offer to the State that cannot be unilaterally withdrawn, signifies that the product or service proposed by vendor meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise indicated, and signifies acceptance of the terms and conditions contained in the Solicitation unless otherwise indicated.

13. PRICING: The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification. Notwithstanding the foregoing, Vendor must extend any publicly advertised sale price to the State and invoice at the lower of the contract price or the publicly advertised sale price.

14. PAYMENT IN ARREARS: Payments for goods/services will be made in arrears only upon receipt of a proper invoice, detailing the goods/services provided or receipt of the goods/services, whichever is later. Notwithstanding the foregoing, payments for software maintenance, licenses, or subscriptions may be paid annually in advance.

15. PAYMENT METHODS: Vendor must accept payment by electronic funds transfer and P-Card. (The State of West Virginia's Purchasing Card program, administered under contract by a banking institution, processes payment for goods and services through state designated credit cards.)

16. TAXES: The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.

17. ADDITIONAL FEES: Vendor is not permitted to charge additional fees or assess additional charges that were not either expressly provided for in the solicitation published by the State of West Virginia, included in the Contract, or included in the unit price or lump sum bid amount that Vendor is required by the solicitation to provide. Including such fees or charges as notes to the solicitation may result in rejection of vendor's bid. Requesting such fees or charges be paid after the contract has been awarded may result in cancellation of the contract.

18. FUNDING: This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available. If that occurs, the State may notify the Vendor that an alternative source of funding has been obtained and thereby avoid the automatic termination. Non-appropriation or non-funding shall not be considered an event of default.

19. CANCELLATION: The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may also cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-5.2.b.

20. TIME: Time is of the essence regarding all matters of time and performance in this Contract.

21. APPLICABLE LAW: This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code, or West Virginia Code of State Rules is void and of no effect.

22. COMPLIANCE WITH LAWS: Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendor acknowledges that it has reviewed, understands, and will comply with all applicable laws, regulations, and ordinances.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to comply with all applicable laws, regulations, and ordinances. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

23. ARBITRATION: Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.

24. MODIFICATIONS: This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any change to existing contracts that adds work or changes contract cost, and were not included in the original contract, must be approved by the Purchasing Division and the Attorney General's Office (as to form) prior to the implementation of the change or commencement of work affected by the change.

25. WAIVER: The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.

26. SUBSEQUENT FORMS: The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.

27. ASSIGNMENT: Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments.

28. WARRANTY: The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.

29. STATE EMPLOYEES: State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.

30. PRIVACY, SECURITY, AND CONFIDENTIALITY: The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in www.state.wv.us/admin/purchase/privacy.

31. YOUR SUBMISSION IS A PUBLIC DOCUMENT: Vendor's entire response to the Solicitation and the resulting Contract are public documents. As public documents, they will be disclosed to the public following the bid/proposal opening or award of the contract, as required by the competitive bidding laws of West Virginia Code §§ 5A-3-1 et seq., 5-22-1 et seq., and 5G-1-1 et seq. and the Freedom of Information Act West Virginia Code §§ 29B-1-1 et seq.

DO NOT SUBMIT MATERIAL YOU CONSIDER TO BE CONFIDENTIAL, A TRADE SECRET, OR OTHERWISE NOT SUBJECT TO PUBLIC DISCLOSURE.

Submission of any bid, proposal, or other document to the Purchasing Division constitutes your explicit consent to the subsequent public disclosure of the bid, proposal, or document. The Purchasing Division will disclose any document labeled "confidential," "proprietary," "trade secret," "private," or labeled with any other claim against public disclosure of the documents, to include any "trade secrets" as defined by West Virginia Code § 47-22-1 et seq. All submissions are subject to public disclosure without notice.

32. LICENSING: In accordance with West Virginia Code of State Rules § 148-1-6.1.e, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.

SUBCONTRACTOR COMPLIANCE: Vendor shall notify all subcontractors providing commodities or services related to this Contract that as subcontractors, they too are required to be licensed, in good standing, and up-to-date on all state and local obligations as described in this section. Obligations related to political subdivisions may include, but are not limited to, business licensing, business and occupation taxes, inspection compliance, permitting, etc. Notification under this provision must occur prior to the performance of any work under the contract by the subcontractor.

33. ANTITRUST: In submitting a bid to, signing a contract with, or accepting a Award Document from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

34. VENDOR NON-CONFLICT: Neither Vendor nor its representatives are permitted to have any interest, nor shall they acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency.

35. VENDOR RELATIONSHIP: The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, etc. and the filing of all necessary documents, forms, and returns pertinent to all of the foregoing.

Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

36. INDEMNIFICATION: The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

37. NO DEBT CERTIFICATION: In accordance with West Virginia Code §§ 5A-3-10a and 5-22-1(i), the State is prohibited from awarding a contract to any bidder that owes a debt to the State or a political subdivision of the State. By submitting a bid, or entering into a contract with the State, Vendor is affirming that (1) for construction contracts, the Vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, neither the Vendor nor any related party owe a debt as defined above, and neither the Vendor nor any related party are in employer default as defined in the statute cited above unless the debt or employer default is permitted under the statute.

38. CONFLICT OF INTEREST: Vendor, its officers or members or employees, shall not presently have or acquire an interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.

39. REPORTS: Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:

Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.

Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.division@wv.gov.

40. BACKGROUND CHECK: In accordance with W. Va. Code § 15-2D-3, the State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check. Service providers should contact the West Virginia Division of Protective Services by phone at (304) 558-9911 for more information.

41. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process.
- c. The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:
 1. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
 2. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

42. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a "substantial labor surplus area", as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products. This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

43. INTERESTED PARTY SUPPLEMENTAL DISCLOSURE: W. Va. Code § 6D-1-2 requires that for contracts with an actual or estimated value of at least \$1 million, the Vendor must submit to the Agency a disclosure of interested parties prior to beginning work under this Contract. Additionally, the Vendor must submit a supplemental disclosure of interested parties reflecting any new or differing interested parties to the contract, which were not included in the original pre-work interested party disclosure, within 30 days following the completion or termination of the contract. A copy of that form is included with this solicitation or can be obtained from the WV Ethics Commission. This requirement does not apply to publicly traded companies listed on a national or international stock exchange. A more detailed definition of interested parties can be obtained from the form referenced above.

44. PROHIBITION AGAINST USED OR REFURBISHED: Unless expressly permitted in the solicitation published by the State, Vendor must provide new, unused commodities, and is prohibited from supplying used or refurbished commodities, in fulfilling its responsibilities under this Contract.

45. VOID CONTRACT CLAUSES: This Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

46. ISRAEL BOYCOTT: Bidder understands and agrees that, pursuant to W. Va. Code § 5A-3-63, it is prohibited from engaging in a boycott of Israel during the term of this contract.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Nate Rohrig, President

(Address) P.O. Box 727, Bridgeport, WV 26330


(Phone Number) / (Fax Number) (304) 623-4827 (304) 622-5546

(email address) nrohrig@aol.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Cover-All Buildings of WV, Inc.

(Company) 

(Signature of Authorized Representative)

Nathaniel G Rohrig, President 11-3-2025

(Printed Name and Title of Authorized Representative) (Date)

(304) 623-4827 (304) 622-5546

(Phone Number) (Fax Number)

nrohrig@aol.com

(Email Address)



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Request for Quote
 Building Supply

Proc Folder: 1777410		Reason for Modification:	
Doc Description: Fabric Covered Building Roof Systems		ADDENDUM NO_1 Vendor Questions and Responses	
Proc Type: Central Master Agreement			
Date Issued	Solicitation Closes	Solicitation No	Version
2025-10-31	2025-11-06 13:30	CRFQ 0803 DOT2600000035	2

BID RECEIVING LOCATION
BID CLERK DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON ST E CHARLESTON WV 25305 US

VENDOR		
Vendor Customer Code:		
Vendor Name :		
Address :		
Street :		
City :		
State :	Country :	Zip :
Principal Contact : Nathaniel G Rohrig		
Vendor Contact Phone: (304) 623-4827	Extension:	

Cover-All Buildings of WV
 P O Box 727
 Bridgeport, WV 26330
 304-623-0546

FOR INFORMATION CONTACT THE BUYER John W Estep 304-558-2566 john.w.estep@wv.gov

Vendor Signature X  **FEIN#** 55-076-5921 **DATE** 11/4/2025

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

ADDENDUM NO_1

Addendum No_1 issued to publish and distribute the attached information to the Vendor Community

REQUEST FOR QUOTATION:

The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Division of Highways to establish an open-end contract for Fabric Covered Roof Systems, for WVDOH salt shed building sites throughout the state of West Virginia. Per the Bid Requirements, Specifications, Terms and Conditions attached to this solicitation.

INVOICE TO		SHIP TO	
VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER		STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER	
No City US	WV	No City US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Fabric Covered Building Roof System Size 40' x 70' One Door	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72121200			

Extended Description:
SEE ATTACHED PRICING PAGE - ATTACHMENT A, FOR ACTUAL COST

INVOICE TO		SHIP TO	
VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER		STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER	
No City US	WV	No City US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Fabric Covered Building Roof System Size 54' x 100' One Door	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72121200			

Extended Description:
SEE ATTACHED PRICING PAGE - ATTACHMENT A, FOR ACTUAL COST

INVOICE TO		SHIP TO	
VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER		STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER	
No City US	WV	No City US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Fabric Covered Building Roof System Size 72' x 100' One Door	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72121200			

Extended Description:
SEE ATTACHED PRICING PAGE - ATTACHMENT A, FOR ACTUAL COST

INVOICE TO		SHIP TO	
VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER		STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER	
No City US	WV	No City US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Fabric Covered Building Roof System Size 72' x 140' One Door	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72121200			

Extended Description:
SEE ATTACHED PRICING PAGE - ATTACHMENT A, FOR ACTUAL COST

	Document Phase	Document Description	Page
DOT2600000035	Final	Fabric Covered Building Roof Systems	5

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Request for Quote
 Building Supply

Proc Folder: 1777410		Reason for Modification:	
Doc Description: Fabric Covered Building Roof Systems		ADDENDUM NO_1 Vendor Questions and Responses	
Proc Type: Central Master Agreement			
Date Issued	Solicitation Closes	Solicitation No	Version
2025-10-31	2025-11-06 13:30	CRFQ 0803 DOT2600000035	2

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Customer Code:

Vendor Name :

Address : Cover-All Buildings of WV
P.O. Box 727
Bridgeport, WV 26330
304-623-0546

Street :

City :

State : **Country :** **Zip :**

Principal Contact : Nathaniel G Rohrig

Vendor Contact Phone: (304) 623-4827 **Extension:**

FOR INFORMATION CONTACT THE BUYER
 John W Estep
 304-558-2566
 john.w.estep@wv.gov

Vendor Signature X  **FEIN#** 55-076-5921 **DATE** 11/4/2025

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

ADDENDUM NO_1

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INVOICE TO		SHIP TO	
VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER		STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER	
No City US	WV	No City US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Fabric Covered Building Roof System Size 40' x 70' One Door	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72121200			

Extended Description:

SEE ATTACHED PRICING PAGE - ATTACHMENT A, FOR ACTUAL COST

INVOICE TO		SHIP TO	
VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER		STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER	
No City US	WV	No City US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
2	Fabric Covered Building Roof System Size 54' x 100' One Door	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72121200			

Extended Description:

SEE ATTACHED PRICING PAGE - ATTACHMENT A, FOR ACTUAL COST

INVOICE TO		SHIP TO	
VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER		STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER	
No City US	WV	No City US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
3	Fabric Covered Building Roof System Size 72' x 100' One Door	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72121200			

Extended Description:
SEE ATTACHED PRICING PAGE - ATTACHMENT A, FOR ACTUAL COST

INVOICE TO		SHIP TO	
VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER		STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER	
No City US	WV	No City US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
4	Fabric Covered Building Roof System Size 72' x 140' One Door	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72121200			

Extended Description:
SEE ATTACHED PRICING PAGE - ATTACHMENT A, FOR ACTUAL COST

INVOICE TO		SHIP TO	
VARIOUS AGENCY LOCATIONS AS INDICATED BY ORDER		STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER	
No City US	WV	No City US	WV

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
5	Fabric Covered Building Roof System Size 72' x 140' Two Door	0.00000	EA		

Comm Code	Manufacturer	Specification	Model #
72121200			

Extended Description:
SEE ATTACHED PRICING PAGE - ATTACHMENT A, FOR ACTUAL COST

SCHEDULE OF EVENTS		
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<u>Line</u>	<u>Event</u>	<u>Event Date</u>
1	Tech Questions due by 10:00am	2025-10-28

SOLICITATION NUMBER: CRFQ DOT2600000035

Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as CRFQ DOT2600000035 ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Additional Documentation:

Vendor Questions and responses

Bid Opening remains 11/06/2025 @ 1:30 PM

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

CRFQ DOT2600000035 Fabric Covered Building Roof Systems

Responses to Questions from Vendors

Question 1

Are we to assume 10' concrete wall height for the foundations in order to achieve 13' clearance height?

Response 1

Please see section 3.2.1.1.1 in the specs

Question 2

Are the minimum interior clearance required at the apex of the buildings from finish floor to bottom of truss?

Response 2

Please see section 3.2.1.1.3 in the specs

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFO DOT260000035

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge the addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of the addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Cover-All Buildings of WV, Inc.

Company



Authorized Signature

11/4/2025

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

PRICING PAC ATTACHMENT A (ATT A)
Fabric Covered Building Roof Systems

VENDOR INSTRUCTIONS:

Please provide a bid price for all sizes of Fabric Covered Building Roof Systems, including all components of the building roof system materials, warranty, technical expert, and delivery FOB to any designated WVDOH site statewide.

Failure to bid all Contract Items shall result in the disqualification of the Vendor's bid. A contract will be awarded to the Vendor who provides all Contract Items meeting the required specifications for the lowest overall total cost of all Contract Items listed below.

Cover-All Building of WV, Inc.

Contract Item #	Estimated Qty:	Description:	Unit of Measure:	Unit Price:	Extended Total:
1	1	Fabric Covered Building Roof System Size 40' x 70' - one door (2800 Sq Ft)	Each	\$51,806.32	\$51,806.32
2	5	Fabric Covered Building Roof System Size 54' x 100' - one door (5400 Sq Ft)	Each	\$ 103,557.07	\$ 517,785.35
3	3	Fabric Covered Building Roof System Size 72' x 100' - one door (7200 Sq Ft)	Each	\$ 136,568.88	\$ 409,706.64
4	1	Fabric Covered Building Roof System Size 72' x 140' - one door (10,800 Sq Ft)	Each	\$ 169,173.87	\$ 188,146.64
5	1	Fabric Covered Building Roof System Size 72' x 140' - two doors (10,800 Sq Ft)	Each	\$ 177,979.05	\$ 197,939.32
GRAND TOTAL					\$ 1,365,384.27

*Estimated quantities listed in this Solicitation are statewide approximations only. It is understood and agreed that the contract shall cover the quantities actually ordered for delivery during the term of the contract, whether more or less than the quantities shown. There is no guarantee of purchase of any items on this Pricing Page.



20 YEAR LIMITED WARRANTY

SCOPE OF LIMITED WARRANTY

Only the building components manufactured by Britespan Building Systems Inc. (Britespan) and described in this agreement are warranted for manufacturer defects to the building owner.

This warranty is only valid when:

- i. Warranty has properly been registered by the installer / owner as per the instruction in the building kit and,
- ii. Building and any components are assembled and maintained in accordance with the Installation Manual(s) / Site Specific Structural Drawings and applicable Technical Memos.
- iii. Britespan receives written notice and proof of claim (photos where possible) of any manufacturer's defects during the period of warranty coverage.
- iv. Britespan Building Systems Inc. has been paid in full for the building and materials.

Resolution of the applicable deficiency(s) may be through the supply of new, used or rebuilt parts, or on-site repair, at the discretion of Britespan. If Britespan chooses to repair or replace the defective product or component, Britespan shall be allotted reasonable time to do so.

This warranty includes the explicit warranty of Britespan. There are no other warranties expressed or implied. This warranty is made and is not to be replaced by any warranties of marketability or suitability for a particular purpose. Please contact Britespan or your local Britespan Dealer for more details.

WARRANTY REGISTRATION

Follow all the instructions for the online Warranty Registration found in the Owner/Installation Manual shipped with the building kit, or at www.britespanbuildings.com.

All Warranty Registrations must be submitted for registration review within 90 days of building installation. A Certificate of Warranty will be issued to the owner via the installer / Britespan Dealer once all the requirements have been met for registration and approved by Britespan.

A Warranty Certificate may be withheld if the building or any components are not assembled in accordance with the installation procedures indicated in the installation manual(s) and site-specific structural drawings. A Warranty Certificate will be issued upon correction of identified deficiencies supported with new photographs to complete the verification.

If the building changes ownership, the new owner must apply for a Warranty Transfer to assume the remaining years of warranty on the existing structure(s). Contact your local Britespan dealer to obtain a transfer of warranty package. A one- time per transfer fee may apply.

STANDARD LIMITED WARRANTY COVERAGE PERIODS:

TABLE 3-1: STANDARD PRO-RATED WARRANTY COVERAGE PERIOD (YEARS)	
COMPONENT	ATLAS / GENESIS / APEX / EASY ACCESS / EPIC / MAGNUM SERIES
MAIN STRUCTURE COVER (NON-FR) (Note: 4 & 6)	20
MAIN STRUCTURE COVER (FR) (Note: 4 & 6)	15
END FABRIC (NON-FR) (Note: 5 & 6)	5
END FABRIC (FR) (Note: 5 & 6)	5
BLACK FABRIC (Note: 4, 5 & 6)	5

1-800-407-5846 · britespanbuildings.com · warranty@britespanbuildings.com June 2023

Mosinee, Wisconsin Office
425 Orbiting Drive, Suite A
Mosinee, WI 54455

Wingham, Ontario Offices and Fabric Facility
688 Josephine Street North, RR#1
Wingham, ON N0G 2W0, Canada

Distribution and Manufacturing
71 North Street West
Wingham, ON N0G 2W0, Canada



MAIN STEEL FRAMEWORK (Note: 2)	20
END STEEL FRAMEWORK (HSS) (Note: 3)	10

* Building needs to be installed by experienced, competent, and qualified personnel.

OCCURRING IN YEAR	PERCENT BRITESPAN BUILDING SYSTEMS LIABILITY			
	5-YEAR	10-YEAR	15-YEAR	20-YEAR
1	100%	100%	100%	100%
2	80%	90%	93%	95%
3	60%	80%	87%	90%
4	40%	70%	80%	85%
5	20%	60%	73%	80%
6		50%	67%	75%
7		40%	60%	70%
8		30%	53%	65%
9		20%	47%	60%
10		10%	40%	55%
11			33%	50%
12			27%	45%
13			20%	40%
14			13%	35%
15			7%	30%
16				25%
17				20%
18				15%
19				10%
20				5%

NOTES ON LIMITED WARRANTY COVERAGE PERIODS

- All repair or replacement costs are pro-rated as per table 3-2.
- (2) Standard pre-galvanized components include a 5-year pro-rated warranty. Main building trusses, hot dip galvanized purlins and manufactured brackets include 20-year pro-rated warranty.
- (3) Consists of vertical columns, horizontal members, and manufactured brackets. Does not include cables or fasteners.
- (4) Consists of main building cover panels only. Does not include any fastening system components.
- (5) Consists of end enclosure panels only (standard FR & non-FR fabrics only). Does not include any fastening system components. End enclosure panels must be properly supported by a Britespan end support system or an alternative system designed and engineered to match the end panel fastening system. The alternative system must also meet site wind load and building safety requirements as per engineer requirements.



- (6) Pro-rated fabric warranty will be null and void where wind speeds are more than 209 kph or 130 mph. To ensure pro-rated warranty coverage the fabric (cover / end wall fabric) must be uninstalled from the building prior to the occurrence of any forecasted high wind event (in excess of 209 kph / 130 mph).

STANDARD TERMS OF LIMITED WARRANTY COVERAGE

Should any components be found to have manufacturer's defects under normal use, the defect(s) will be repaired, or the components replaced, at the discretion of Britespan. The building owner will be responsible for the cost of the repair or replacement parts pro-rated per year following the original purchase date, plus the cost of delivery and installation of replacement parts, if required. All replacement parts are F.O.B. Wingham, Ontario, Canada. Any parts requiring replacement under this warranty are subsequently warranted only for the remaining time period of the unexpired portion of the warranty that is applicable to the original product.

Due to continual product development, over time certain fabric colours or steel components may become unavailable. In those incidents, Britespan reserves the right to substitute replacement components with those that are comparable in function, quality, and price to the original. Britespan is not responsible or liable if the replacement component varies in appearance from the original.

LIMITS AND RELEASE OF LIABILITY

This warranty does not apply to defects or damages resulting from a) improper installation and /or installation that is not in accordance with Britespan installation manuals/procedures/structural drawings, and Technical Memos; b) improper or inadequate maintenance of the structure; c) any modification or alteration of the product reported or not reported; d) misuse, neglect, or abuse of the product; e) accident; f) repair or alteration by unauthorized personnel; g) integration of products or accessories not manufactured specifically for use in a Britespan building; h) exposure to corrosive elements; i) corrosion resulting from structure applications, environment within the structure, and/or insufficient maintenance or any cause other than a defect in an item's described corrosion protection; j) use of abrasive cleaning methods, chemicals, or solvents; k) exposure to conditions in excess of, or not meeting, as the case may be, wind and snow load, building enclosure or building exposure specifications for project; l) design of foundation and/or installation and/or deficiency in the foundation; m) product upgrades; n) product recall; o) normal wear and tear; p) wear caused by multiple installations; q) storage and/or handling of building components; r) an act of God; This warranty does not apply to s) cosmetic defects or deterioration, including discoloration of fabric or steel t) rub marks on the fabric that only rub off of the colour coat, but do not leak.

Britespan will not be liable for any damage incurred during or as a result of installation of a Britespan product, whether in accordance with the installation instructions. In no event will Britespan, any distributor, or the selling dealer be liable for any direct, indirect, special, incidental, or consequential damages (including loss of profit, loss of time, inconvenience, or the use or inability to use this product for any purpose whatsoever), whether based on contract, tort, strict liability or any other legal basis; even if Britespan, its distributor, or selling dealer was advised of the possibility of the occurrence of such damages. By registering for and taking benefit of the warranty, the building owner expressly releases and discharges Britespan, all distributors, and all dealers from all claims, causes of action, demands, actions, suits, judgments and executions for any actual, incidental or consequential damages, bodily or otherwise, that the building owner ever had, now has, or may have by reason of the assembly, erection, use and/or operation of any Britespan. All references to building owners, Britespan, all distributors and all dealers, include such parties' spouse, heirs, successors, legal representatives and assigns.

Britespan and its local dealers are independent businesses; local dealers are not agents nor legal representatives of Britespan. Local dealers have no right or authority to assume or create any legal obligation or responsibility, express or implied, on behalf of Britespan, or to bind Britespan in any manner whatsoever. Britespan Building Systems Inc. shall have no liability for any acts, errors, omissions, workmanship, supplies, advice, representations or misrepresentations of any dealer.

Membrane Structure Fabric with ArmorKote

RU88X-6, 400

INTERTAPE POLYMER GROUP TECHNICAL DATA SHEET

DESCRIPTION

RU88X-6, 400 is a heavyweight fabric for applications requiring UV stability. The scrim is produced in a special weaving pattern to enhance flatness, abrasion resistance, and tear properties. The proprietary coating is used to enhance abrasion resistance, flex resistance, seam strength, UV resistance and longevity. RU88X-6, 400 is perfect for a wide range of building applications in agriculture, oil and gas, mining, recreation and municipal structures.

FABRIC SPECIFICATIONS

Weave: Woven clear HDPE scrim
 Coating: LDPE, 4 mil average each side (95 g/m²/side)
 Color: Natural (clear), white, blue, green, red, beige and other colors available upon request
 Weight: 12 oz/yd² (407g/m²) +/- 5 %

ROLL SPECIFICATIONS

Cores: 4 inch I.D. or 5 inch I.D. available
 Width: Up to 144 inches (-0, +0.5) as ordered
 Length: Minimum 250 yds/roll; up to 1000 yds/roll

These values are typical data and are not intended as limiting specifications.



100 Paramount Drive, Suite 300 | Sarasota, FL 34232 | USA
 Customer Service: 800.565.2000
 www.itape.com | info@itape.com

While we believe them to be reliable, the statements and information herein are only for general guidance and are not warrants or guarantees for accuracy and completeness. The user must, by test or otherwise, determine suitability for this purpose. There is no warranty of fitness for a particular purpose. Our standard term and conditions of sale apply exclusively to all orders, and all liability for damages of any kind, including consequential, exceeding purchase price is excluded. No one is authorized by us to make oral warranties. We reserve the right to make changes without notice or obligation in our products and publications.

EFFECTIVE: 02/23

PERFORMANCE PROPERTIES

The following data are typical values based on ASTM standard tests. These data should not be considered specification.

Thickness ASTM D1777	23 mil (0.59 mm)
Grab Tensile ASTM D5034	Warp 445 lb 1975 N / Weft 385 lb 1709 N
Strip Tensile (N/5cm) ASTM D5035	Warp 280 lb/in (2486)/Weft 240 lb/in (2131)
Tongue Tear ASTM D2261	Warp 115 lb 510 N / Weft 110 lb 488 N
Trapezoidal Tear ASTM D4533	Warp 95 lb 422 N / Weft 90 lb 400 N
Hullen Burst ASTM D3786	680 psi / 4685 kPa
Hydrostatic Resistance ASTM D751	273 psi / 1880 kPa
Accelerated UV Weathering¹ ASTM G154	100 % strength retention after 2000 hrs exposure @ 0.77 W/m ² /nm, or 1200 hrs exposure @ 1.35 W/m ² /nm
Accelerated Natural Weathering ASTM G90	>90 % strength retention after 5 Florida Standard Years ²
Low Temperature Bend ASTM D2136	-60°C

¹ Q.U.V [A-340 Lamps]; 8 hrs UV @ 60°C; 4hrs condensation @ 50°C ² 1333 MJ

FB PERFORMANCE

This product meets the requirements of ASTM E84-00a (Class 1).





Peace Point Equestrian Center • Brooke County, WV
1 - Building 40' w x 180' l = 7,200 sq ft 8 - Building 40' w x 140' l = 44,800 sq ft
1 - Building 160' w x 210' l = 33,600 sq ft 1 - Building 160' w x 308' l = 49,280 sq ft
Eleven Buildings • Total Square Footage = 134,880 sq ft



Brooke County, WV • 160' w x 308' l



Brooke County, WV • 40' w x 180' l

COVER-ALL BUILDINGS OF WEST VIRGINIA

"From Dreams To Reality"



Adam - President



Nate - Vice President

About Us

In the fall of 1999 while Adam and his wife Linda were on vacation in Canada they saw a unique building on an estate on the banks of Lake Ontario. Being very interested and curious they stopped and asked the owner if they could see the building and she was delighted as she had recently had the building installed and was using it to train horses for the Canadian Olympic riding team. Owning a farm himself, Adam was impressed with all the advantages of the building and the owner gladly gave them the name of the company - Cover-All Building Systems, Inc. of Saskatoon, Canada. Upon arriving home from their vacation Adam contacted the head office and in early January 2000 he and his son Nate went to visit the Corporate Office and factory in Saskatoon. What a shock because at that time of the year the normal temperature is approximately -40°F degrees. Upon successfully completing the dealer orientation they were granted the dealership for West Virginia and later was also given the southwestern district of Pennsylvania. So that is how Cover-All Buildings of West Virginia was born.

Ten years and hundreds of buildings later, Cover-All Buildings of West Virginia was given the Eastern District Dealership of the Year Award for 2005.

Cover-All Buildings of West Virginia takes great pride in providing the same excellent quality in materials and construction whether it's installing a small or large structure. We are very experienced at installing buildings correctly and efficiently. If you have a dream that you would like to bring into reality, contact Cover-All Building Systems of West Virginia.

Building Models:



DuraWeave® Colors:



Salt Spray Test:

Results of salt spray tests conducted in accordance with American Society for Testing and Materials Standards.



Cover-All Buildings of West Virginia

812 North Ohio Ave. • Clarksburg, WV - 26301

Ph: 1.304.623.1249 • Toll Free: 1.800.246.7589 • www.coverallwv.net





Certificate of Registration

This is to certify that the Management System of:

Britespan Building Systems

**688 Josephine Street North, RR#1 Wingham, Ontario, NOG
2W0**

has been approved by Alcumus ISOQAR and is compliant
with the requirements of:

ISO 9001: 2015

SCOPE OF REGISTRATION

The design and in-house fabrication of fabric covered steel building systems

CERTIFICATE NUMBER: 14714-QMS-001

SIGNED

Initial Registration Date: 06/09/2022
Previous Expiry Date: 13/06/2025
Recertification Audit Date: 20/06/2025
Re-issue Date: 23/07/2025
Current Expiry Date: 13/08/2028

A handwritten signature in black ink, appearing to read "Jim Anderson".

Jim Anderson, Chief Executive Officer
(on behalf of Alcumus ISOQAR)

This certificate will remain current subject to the company maintaining its system to the required standard. This will be monitored regularly by Alcumus ISOQAR. Further clarification regarding the scope of this certificate and the applicability of the relevant standards' requirement may be obtained by consulting Alcumus ISOQAR.

Alcumus ISOQAR Limited, Cobra Court, 1 Blackmore Road, Stretford, Manchester M32 0QY
T: 0161 865 3699 **E:** isoqarenquires@alcumus.com **W:** isoqar.com
This certificate is the property of Alcumus ISOQAR and be returned of request.



American Welding Society

Certifies that

Britespan Building System, Inc.

Fabricator's welding program was audited to AWS B5.17 Specification for the Qualification of Welding Fabricators, AWS QC17 Specification for AWS Accreditation of Certified Welding Fabricators, AWS D1.1. Structural Welding Code, excluding weldment design

*has complied with the requirements of the AWS B5.17 and QC17 Standards
for the Qualification and Certification of AWS Welding Fabricators.*

231001F

Certificate Number

October 1, 2026

Expiration Date


AWS President


Chair, Certification Programs



Nathaniel G Rohrig

Engineered Tensioned Fabric Buildings

SUMMARY

25 years' experience in the Engineered Tension Fabric Building business, performed construction management and general construction roles. Experienced in construction, renovation, and cost estimating within commercial and industrial environments. Recognized for well-developed project management skills, including the use of computer technology to track job progress, control project costs, and schedule operational tasks that enable project completion on time and under budget. Consistently deliver quality and excellence in workmanship. Excellent safety record.

SKILLS

- Project Management
- Client Focus
- Tools and Techniques
- On-time Completion
- Cost Estimation
- Communication Skills
- MS Project
- MS Excel
- Safety Emphasis
- Materials Expertise
- Apprentice Mentoring
- Building Assistant

EXPERIENCE

Cover-All Buildings of WV, Inc. Bridgeport, WV 2000 to Present
Vice President and President

Negotiated terms for new construction projects, bidding private and publicly funded projects. Managed completion of over 400 projects in West Virginia, Pennsylvania, Tennessee and North Dakota. Supervised crews of up to 25 foundation and general laborer personnel. Secured all required permit approvals.

- Progressive use of technology, including use of computer models to prepare detailed bids for client review.
- Estimated project costs and used actual costs to refine computerized estimating models.

he Performed follow-up customer satisfaction reviews to identify opportunities to improve services or procedures. Received numerous accolades from clients for superior workmanship.

R & T Enterprises, Inc., Bridgeport, WV 2000 to Present
Vice President and President

Administered strategic planning, pricing, sales analysis, customer research, new product introduction-processy-and product usage forecasting. Built market share in all business segments. Analyzed economic conditions, business frends, industv trends, and potential markets. Assisted in developing and implementing company policies and procedures, Developed and implemented new compensation plans for the sales forces that reduced costs without affecting sales. Planned logistics of sales, production, sourcing, and inventories to ensure efficient production operations and profitable use of resources. Facilitated joint venture projects.

R & T Enterprises, Inc., Bridgeport, WV 1992 to 2000
Secretary/Treasurer

Coordinated all general record keeping. Additional duties included purchase and setup of PC systems, hardware, and software, company-wide network and &oubleshooting, and operation / purchasing of all omce equipment. Managed all

general accounting functions, track banking transactions, made daily deposits, managed petty cash, & track all financial records and reporting, and created monthly projections and end-of-month summaries. Oversaw payroll, annual budget, acquisitions, and accounts payable.

Prudential, Morgantown, WV

1996 to 1996

Insurance and Investment sales

Produced leading sales results with a diversified insurance brokerage firm. Achieved sales success through an informational, knowledgeable sales approach, and a focus on customer satisfaction, striving to "educate" the consumer, building positive professional relationships through strong interaction skills and sound investment advice. Marketed a complete line of equity-based products for individuals and groups throughout region. Successfully marketed and sold a full line of products for the company. Independently managed the entire sales cycle, from initial client consultation, product presentation, pricing and contract negotiation to the final sales closing. Conferred with clients and developed proposals and programs to meet their financial needs, goals, and objectives. Specialized in providing individualized services for life insurance, upgrading existing policies, servicing existing accounts, making presentations, and initiating the claims process for clientele.

Pete Dye Golf Club, Bridgeport, WV

1992 to 1992

General Labor

Inspected work in progress to ensure that work conforms to contract specifications and adheres to established work schedules. Coordinated labor and equipment resources ensure that all jobs were completed accurately, eminently, and in a quality manner. Experienced in handling simultaneous projects and meeting deadlines effectively. Planned construction procedures, specifications, work schedules, and material needs. Worked as a liaison between the property managers and owners. Worked with subcontractors, architects, engineers, and owners. Simultaneously managed multiple job responsibilities.

EDUCATION

Bachelor of Science (Finance) 1996

West Virginia University Morgantown, WV

CABLE-WINCH DOOR DOCUMENTS

GENERAL NOTES

STEEL TUBE MEMBER

- ALL TUBE UNLESS OTHERWISE NOTED MEETS ASTM A513 SPECIFICATION WITH THE FOLLOWING YIELDS:
- 2.375" O.D. ROUND TUBE FY = 50 KSI
- 2" X 3" O.D. RECT. TUBE (GALV.) FY = 50 KSI
- ALL OTHER SQUARE AND RECTANGULAR TUBE FY = 36 KSI

STEEL TUBE WALL GAUGE (NOMINAL)

- MINIMUM GAUGE THICKNESS IS 14 GA. (.084)
- 14 GA. = .084"
- 13 GA. = .095"
- 12 GA. = .109"

OTHER STRUCTURAL STEEL

STRUCTURAL STEEL FY = 50 KSI

MEMBRANE FABRIC

- MATERIAL: RUB82-6 NOVA SHIELD II TM
- MEMBRANE STRUCTURE FABRICS
- WEAVE: WOVEN CLEAR HDPE SCRM WITH 1600 DENIER TAPES
- WEIGHT: 12.0 OZ/YD² (407 G/M²) +/-5%
- THICKNESS: 23 MILS (0.59 MM) ASTM D5199
- FIRE RATING: N/A

DOOR WELDED ASSEMBLES - STEEL FINISH

ALL DOOR WELDED ASSEMBLES ARE ZINC PLATED POST FABRICATION.

DOOR NON-WELDED ASSEMBLES - STEEL FINISH

ALL DOOR NON-WELDED BUILDING COMPONENTS ARE FABRICATED USING GATORSHIELD OR EQUIVALENT MATERIALS UNLESS OTHERWISE NOTED.

MISCELLANEOUS INFORMATION

- ALL EXISTING CONDITIONS SHALL BE VERIFIED.
- OWNER, DEALER, CONTRACTOR AND/OR ERECTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION. DETAILS DESIGNATED AS "TYPICAL DETAILS" (TYP.) APPLY GENERALLY TO THE DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR.
- D. ALL DRAWINGS ARE NOT TO SCALE, UNLESS OTHERWISE NOTED.
- E. SPAN-TECH FABRIC BUILDINGS DO NOT COMPLY WITH LIFE SAFETY REQUIREMENTS AND ARE NOT TO BE USED FOR PUBLIC ASSEMBLY.
- F. SPAN-TECH FABRIC BUILDINGS ARE CLASSIFIED AS A MEMBRANE-COVERED FRAME STRUCTURE IN THE SPECIAL CONSTRUCTION SECTION OF IBC 2006 UNLESS OTHERWISE NOTED.
- G. THESE PLANS AND CANVAS DIMENSION TAGS LOCATED ON THE CANVAS EXTERIOR COVER SHOULD BE GIVEN TO THE OWNER UPON COMPLETION OF THE BUILDING. THEY SHOULD BE RETAINED FOR FUTURE REPLACEMENT PARTS ORDERING.
- H. BEFORE ERECTION BEGINS, VERIFY THAT ALL COMPONENTS HAVE BEEN DELIVERED BY CHECKING PICK LIST SHIPPED WITH HARDWARE WITH THE COMPONENTS ON THE GROUND.
- I. ANNOTATION IS AS FOLLOWS:
EX. 1/BL.1 SHEET NUMBER

WARNING: CAREFULLY READ ALL INSTRUCTIONS BEFORE BEGINNING ERECTION. FAILURE TO DO SO CAN RESULT IN INJURY OR DAMAGE TO BUILDING AND WILL VOID ALL WARRANTIES.

DOOR SIZE AND BILL OF MATERIALS

ITEM NUMBER	WIDTH FT.	HEIGHT FT.	UB0750 EA	UB0342 EA	UB0509 EA	UB0500 EA	AR 0500 FT.	12682-9351 EA	OF-606 EA	OF-604 EA	OF-603 EA	OF-10 EA	OF-608 EA	OF-593 EA	CF-395 EA	FST-500-5000 EA	CF-550 EA	907-0620 EA	907-0622 EA	AS 1003 EA	SUB0408 EA	SQ. FT.
STS1211AD	12	11	1	4	4	1	80	1	2	2	3	4	3	3	2	5	5	3	3	6	6	138
STS1212AD	12	12	1	4	4	1	80	1	2	2	3	4	3	3	2	5	5	3	3	6	6	160
STS1411AD	14	11	1	4	4	1	80	1	2	2	3	4	3	3	2	5	5	3	3	6	6	161
STS1414AD	14	14	1	4	4	1	80	1	2	2	3	4	3	3	2	5	5	3	3	6	6	203
STS1611AD	16	11	1	4	4	1	80	1	2	2	3	4	3	3	2	5	5	3	3	6	6	184
STS1614AD	16	14	1	4	4	1	80	1	2	2	3	4	3	3	2	5	5	3	3	6	6	232
STS1814AD	18	14	1	4	4	1	80	1	2	2	3	4	3	3	2	5	5	3	3	6	6	264
STS1818AD	18	18	1	5	4	1	80	1	2	2	3	4	3	3	2	5	5	3	3	6	6	261
STSCDOOR	NEAR	NEAR	1	PER SPEC.	PER SPEC.	1	80	1	2	2	3	4	3	3	2	5	5	3	3	6	6	333
																						PER SPEC.

ISSD-TP-ANSI

REV. 1.0

Dealer

Customer

Drawn By: J.R.B.W.

Checked By:

Date: 10/1/10

Project Number:

Sheet Number:

D3.0 DOOR TITLE PAGE & GEN. INFO.

WARRANTY

FROM THE DATE OF ORIGINAL PURCHASE BY THE END USER, ALL MAIN BUILDING COMPONENTS, WHEN PROPERLY INSTALLED, ON A SPAN-TECH APPROVED FOUNDATION, ARE COVERED BY A TWO (2) YEAR UNCONDITIONAL WARRANTY FOR DEFECTS IN MATERIAL AND WORKMANSHIP. IN ADDITION, AFTER THE TWO (2) YEAR WARRANTY PERIOD, THE FOLLOWING COMPONENTS ARE COVERED BY AN ADDITIONAL FOURTEEN (14) YEAR PRO-RATED WARRANTY: MAIN FABRIC AND MAIN STEEL, CONNECTING STRINGS INCLUDING SINGLE TUBE ROOF ARCHES, DOUBLE TUBE TRUSSES, CONNECTORS, PURLINS AND STRINGERS, DURING THIS FOURTEEN (14) YEAR PERIOD, THE END USER/ORIGINAL OWNER SHALL PAY THE SUGGESTED RETAIL PRICE OF THE WARRANTABLE COMPONENT AT THE DATE OF THE CLAIM, LESS ONE HUNDRED SIXTY-EIGHTH (1/100) OF THE PRICE FOR EACH FULL MONTH REMAINING IN THE WARRANTY PERIOD. ROPE, WEBBING, SOLID END FABRIC AND FABRIC DOOR COMPONENTS (INCLUDING DOOR FABRIC, CABLE, CABLE CLAMPS, DOOR TUBING, WINCHES AND PULLEYS) ARE COVERED BY A SIX (6) MONTH ONLY WARRANTY. WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF WARRANTABLE COMPONENTS AND DOES NOT INCLUDE COMPONENT REMOVAL OR REINSTALLATION OR THE COST TO TRANSPORT AND RETRIEVE WARRANTABLE COMPONENTS FOR REPAIR. NOTE: IT IS THE RESPONSIBILITY OF THE END USER/ORIGINAL OWNER TO ESTABLISH THAT THE FOUNDATION DESIGN AND CONSTRUCTION IS IN COMPLIANCE WITH THE FOUNDATION DESIGN SUPPLIED BY AND/OR APPROVED BY SPAN-TECH.

FOR BUILDINGS ERECTED ON NON-APPROVED FOUNDATIONS, WALLS, PADS, ETC., THE WARRANTY IS AS IN PARAGRAPH ONE EXCEPT THAT THE UNCONDITIONAL WARRANTY PERIOD IS TWO(2) YEARS AND THE PRO-RATED WARRANTY PERIOD IS EIGHT(8) YEARS. A TOTAL OF 10 YEARS. SPAN-TECH REPAIR PARTS INCLUDING FABRIC COMPONENTS ARE COVERED BY A ONE (1) YEAR WARRANTY IF THOSE REPAIRS ARE INSTALLED ON A SPAN-TECH BUILDING. SPAN-TECH REPAIR PARTS INCLUDING FABRIC COMPONENTS ARE COVERED BY A NINETY (90) DAY WARRANTY IF THOSE REPAIRS ARE INSTALLED ON A NON-SPAN-TECH BUILDING.

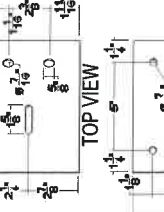
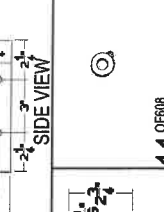
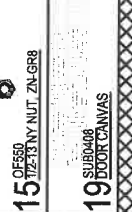
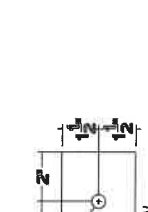
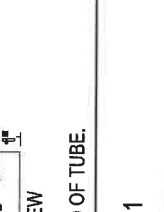
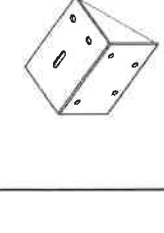
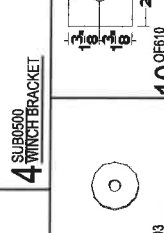

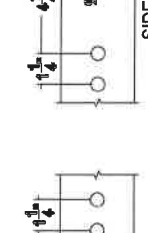

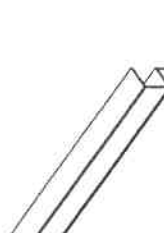
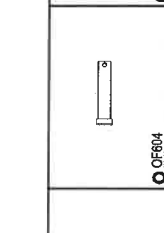

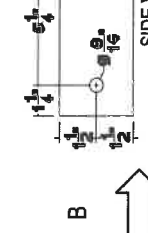
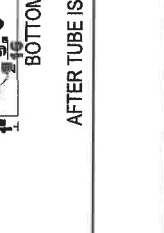

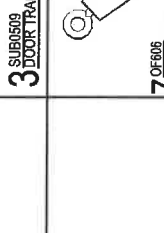
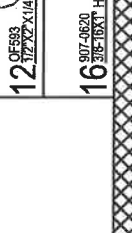
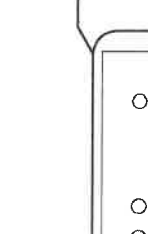

THE WARRANTY DOES NOT COVER COMPONENT DAMAGE DUE TO THE QUALITY OF FOUNDATION, WALL OR PAD CONSTRUCTION; NOR DAMAGE CAUSED TO THE BUILDING SITE OR SURROUNDING AREAS BY THE CONSTRUCTION OF THE BUILDING. DEALERS AND END USERS ARE ADVISED TO OBTAIN QUALIFIED ENGINEERING ADVICE ON THE SUITABILITY OF THE SOIL AT THE BUILDING SITE. DEALERS AND END USERS ARE ADVISED THAT UNUSUAL OR ABNORMAL SOIL CONDITIONS INCLUDING BUT NOT LIMITED TO SANDY SOILS, SPRINGS, SINKS, UNDERGROUND STREAMS AND SO FORTH WILL AFFECT THE FOUNDATION REQUIREMENTS. UNLESS SPECIFICALLY DOING SO IN WRITING, HAWKEYE STEEL PRODUCTS, INC. PRIDE OF THE FARM, SPAN-TECH AND ALL RELATED ENTITIES DO NOT EXPRESS AN OPINION ABOUT THE SUITABILITY OF BUILDING SITES, FOUNDATIONS, WALL, PADS AND THE LIKE FOR THE CONSTRUCTION OF A SPAN-TECH BUILDING.

THERE IS NO WARRANTY FOR BUILDINGS THAT HAVE BEEN DISASSEMBLED AND MOVED FROM THEIR ORIGINAL LOCATIONS. THE END USER/ORIGINAL OWNER MAY BE ASKED TO SUPPLY DOCUMENTATION VERIFYING THAT THE BUILDING HAS NOT BEEN MOVED FROM ITS ORIGINAL LOCATION. THERE IS NO WARRANTY FOR COMPONENT LOSS OR DAMAGE DURING TRANSPORT. THE WARRANTY DOES NOT COVER DAMAGE CAUSED BY NATURAL AND ENVIRONMENTAL CONDITIONS(ACTS OF GOD); PUNCTURE OR TEAR DAMAGE TO THE TARPULIN COMPONENTS CAUSED BY PENETRATION OF MECHANICAL OR OTHER FOREIGN OBJECTS; RODENT DAMAGE; COSTS ASSOCIATED WITH THE LOSS OF TIME AND/OR INCONVENIENCE OR ANY OTHER CONSEQUENTIAL DAMAGES; INJURY; LOSS OF PROFIT, LIFE, CONTENTS INSIDE THE BUILDING; MALFUNCTION RESULTING FROM MISUSE; UNAUTHORIZED ALTERATION OR NEGLIGENCE; DAMAGE OR CORROSION RESULTING FROM SALT, CHEMICALS OR OTHER CORROSIVE MATERIALS PILED AGAINST THE FABRIC, STEEL OR OTHER COMPONENTS; DAMAGE CAUSED BY EARTH MOVEMENT INCLUDING BUT NOT LIMITED TO LANDSLIDE, MUD FLOWS, EARTH SINKING OR EARTH RISING; DAMAGE CAUSED BY LACK OF MAINTENANCE(SUCH AS NOT PERIODICALLY RE-TIGHTENING THE MAIN FABRIC, SOLID ENDS OR DOORS OR RE-TIGHTENING THE CABLES) OR DAMAGE CAUSED FROM ANY CAUSE BEYOND THE CONTROL OF SPAN-TECH.

IN ACCEPTING THIS WARRANTY, DEALER AND END USER ACKNOWLEDGE THAT THEY ARE IN RECEIPT OF "PROCEDURE FOR CHECKING THE TIGHTNESS OF MAIN FABRIC CANVAS ON SPAN-TECH BUILDINGS" & "PROCEDURES FOR CHECKING CABLING IN YOUR SPAN-TECH BUILDING".

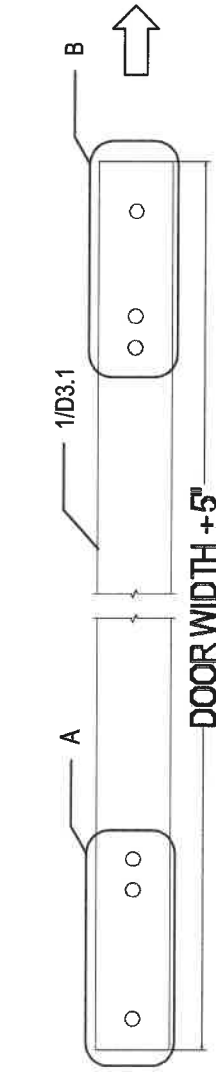
THE STANDARD FABRIC IN A SPAN-TECH BUILDING IS NOT FIRE RETARDANT. THERE IS NO WARRANTY FOR ANY DAMAGE LOSS OR OTHER PROBLEMS CAUSED EITHER BY FIRE OR CINDERS OR FOR COSTS ASSOCIATED WITH FIRE REGULATION ZONING COMPLIANCE.

DOOR COMPONENTS

 <p>1 SUB0750 2" X 3" GALV. RECT. TUBE, 14 GA., 286"</p>	 <p>2 SUB0342 2.375" GALV. TUBE, 14 GA., 222"</p>	 <p>3 SUB0509 DOOR TRACK</p>	 <p>4 SUB0500 WINCH BRACKET</p>	 <p>TOP VIEW SIDE VIEW</p>
 <p>7 OF606 3/16" DOUBLE PULLEY</p>	 <p>8 OF604 1/2" X 1/2" CLEVIS PIN, ZN</p>	 <p>13 OF395 7/8" X 3/8" HITCH PIN CLIP, ZN</p>	 <p>9 OF603 2" SREAVE WIRE BRUSH</p>	 <p>10 OF610 POTTER DIVIDER PLATE</p>
 <p>12 OF593 1/2" X 1/4" RATCHET WASHER, ZN</p>	 <p>14 FST-500-5500 1/2" X 3/8" RATCHET NUT, ZN-GR8</p>	 <p>15 OF550 1/2" X 3/8" RATCHET NUT, ZN-GR8</p>	 <p>16 907-0620 3/8" X 1/4" RATCHET NUT, ZN</p>	 <p>17 907-0622 3/8" X 1/4" RATCHET NUT, ZN</p>
 <p>5 AR1050 3/16" GALV. CABLE (XZ)</p>	 <p>6 129682-9351 1200 LBS. DUTTON LAINSON WINCH</p>	 <p>18 AS1003 3/16" CB. COMP. ZN</p>	 <p>19 SUB0408 DOOR CANVAS</p>	 <p>11 OF608 1/2" SET SCW COLLAR, ZN</p>

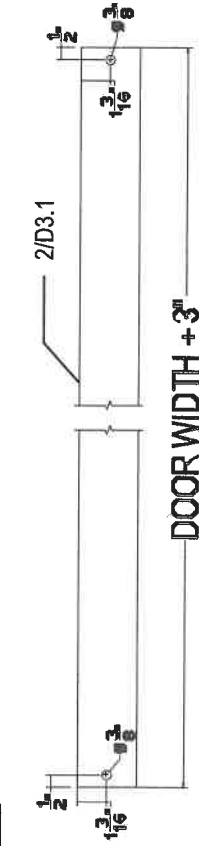
FABRICATION

F1 DOOR HEADER TUBE
DETAIL



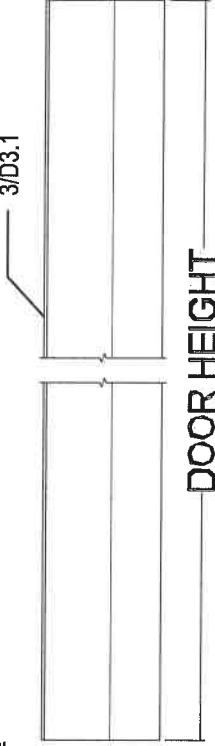
CUT 1/D3.1 SUB0750 - 2" X 3" RECT. TUBE TO LENGTH SHOWN ABOVE.

F2 DOOR TUBE
DETAIL



CUT 2/D3.1 SUB0342 - 2.375" GALV. TUBE TO LENGTH SHOWN ABOVE, THEN DRILL ENDS.

F3 DOOR TRACK
DETAIL

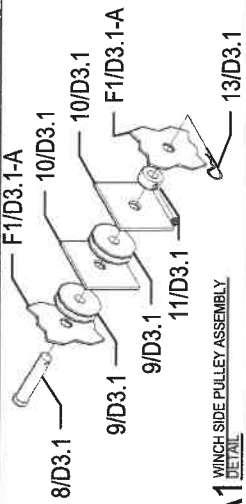


AFTER TUBE IS CUT, DRILL PATTERNS ABOVE IN END OF TUBE.

CUT 3/D1.3 SUB0509 - DOOR TRACK TO FIT FROM GRADE LEVEL TO BOTTOM OF HEADER. MAY REQUIRE MORE THAN ONE SECTION.

<p>ISSD-CF-ANSI REV. 1.0</p>	<p>Dealer: Customer:</p>	<p>Drawn by: J.R.B.W.</p>	<p>Date: 10/1/10</p>
<p>This drawing is property of Hawkeye Steel Products, Inc. Any reproduction of this drawing without consent of Hawkeye Steel Products, Inc. is strictly prohibited.</p>		<p>Project Number: D3.1 DOOR COMP. AND FAB.</p>	<p>Sheet Number: D3.1 DOOR COMP. AND FAB.</p>

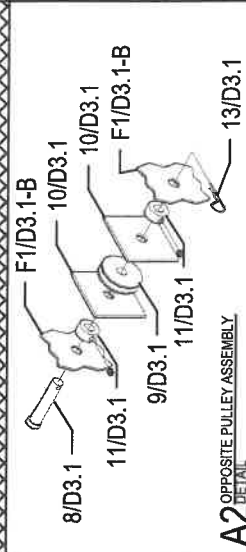
ASSEMBLIES



A1 WINCH SIDE PULLEY ASSEMBLY
DETAIL

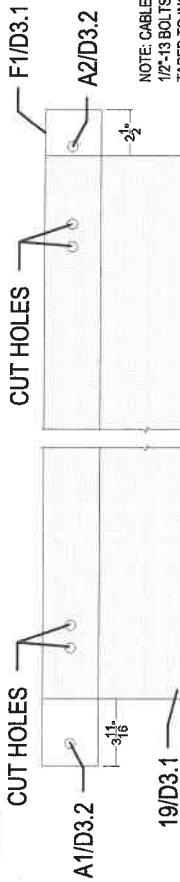
A1. ASSEMBLY HARDWARE IN CONFIGURATION SHOWN TO LEFT. FOR LOCATION REFERENCE REFER TO A3/D3.2 DETAIL FOR MORE INFORMATION.

A2. ASSEMBLY HARDWARE IN CONFIGURATION SHOWN TO RIGHT. FOR LOCATION REFERENCE REFER TO A3/D3.2 DETAIL FOR MORE INFORMATION.



A2 OPPOSITE PULLEY ASSEMBLY
DETAIL

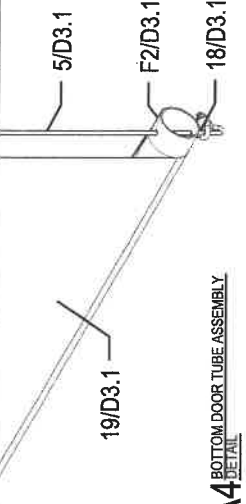
A3 DOOR TO HEADER MOUNT CONNECTION
DETAIL



NOTE: CABLE THREADED THROUGH TOP DOOR TUBE MUST BE ABOVE 1/2-13 BOLTS. DURING INSTALLATION IT IS BEST TO HAVE ROPE TAPED TO INSIDE TOP OF TUBE BEFORE BOLTS ARE INSTALLED. USE ROPE TO PULL CABLE THROUGH DOOR TUBE.

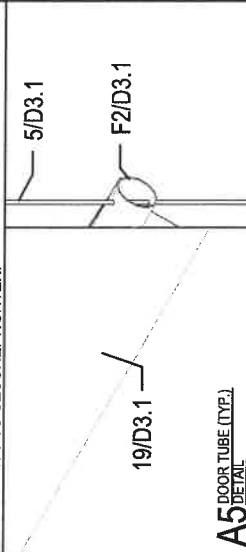
A3. SLIDE DOOR CANVAS ONTO F1/D3.1 - DOOR HEADER TUBE. APPROXIMATE DISTANCES FROM EDGE OF CANVAS TO EDGE OF TUBE ARE SHOWN TO RIGHT. CUT AT LOCATIONS INDICATED. WHEN INSTALLING DOOR, SUPPORT DOOR HEADER. SHORTER 1/2-13 X 3 1/2" BOLT FOR DOOR HEADER WILL BE REPLACED WITH 14/D3.1 FST-500-550 - 1/2-13 X 5-1/2" BOLTS AT LOCATION WHERE TOP DOOR TUBE IS TO BE INSTALLED. TIGHTEN.

A3.A AT A MINIMUM OF 2 EQUAL DISTANT LOCATIONS ON TOP DOOR TUBE INSTALL ADDITIONAL 14/D3.1 FST-500-550 - 1/2-13 X 5-1/2" BOLTS. USE 12/D3.1 OF593 - FENDER WASHER AS SPACER AND 15/D3.1 OF550 - 1/2-13 NY NUT TO SECURE. TIGHTEN.



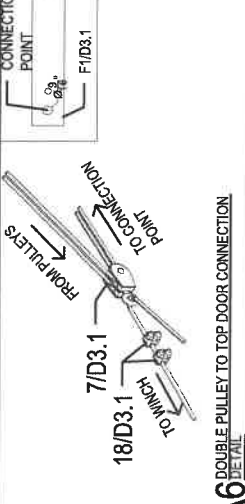
A4 BOTTOM DOOR TUBE ASSEMBLY
DETAIL

A4. SLIDE ALL DOOR TUBES IN. CONFIGURATION FOR BOTTOM DOOR TUBE IS SHOWN LEFT. REFER TO 1/D3.3 FOR CABLING DIAGRAM.



A5. CONFIGURATION FOR DOOR TUBES IN REST OF LOCATIONS IS SHOWN RIGHT. REFER TO 1/D3.3 FOR CABLING DIAGRAM.

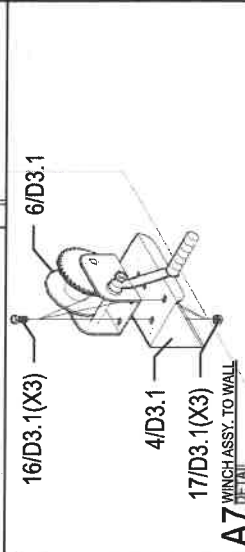
A5 DOOR TUBE (TYP.)
DETAIL



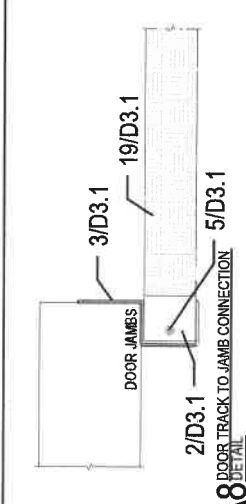
A6 DOUBLE PULLEY TO TOP DOOR CONNECTION
DETAIL

A6. REFER TO 1/D3.3 FOR CABLING DIAGRAM. AT CONNECTION POINT BOTH CABLES SHOULD BE TERMINATED WITH 2 18/D3.1 AS1003 - 3/16" CABLE CLAMPS.

A7. WINCH BRACKET SHOULD BE MOUNTED AT MINIMUM HALF THE DISTANCE FROM A6/D3.2 CONNECTION TO WINCH. POINT TO POINT. RECOMMENDED HARDWARE (PROVIDED BY OTHERS):
 CONCRETE - 3/8"x4" ANCHOR BOLT
 WOOD - 3/8"x4" LAG SCREW
 STEEL - 3/8"x LENGTH" HEX BOLT

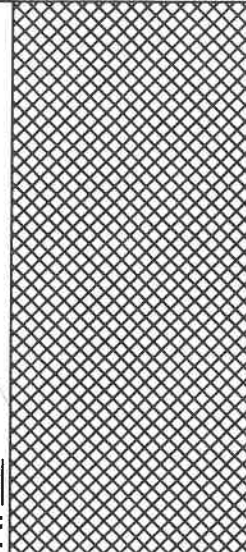


A7 WINCH ASSY. TO WALL
DETAIL



A8 DOOR TRACK TO JAMB CONNECTION
DETAIL

A8. INSTALL DOOR TRACK TO JAMB BY RECOMMENDED HARDWARE (PROVIDED BY OTHERS); CONCRETE - 1/4" PIN DRIVE ANCHOR
 WOOD - 1/4" LAG SCREW
 STEEL - 1/4" HEX BOLT
 INSTALL EVERY 6" O/C



A9 DOOR TUBE (TYP.)
DETAIL

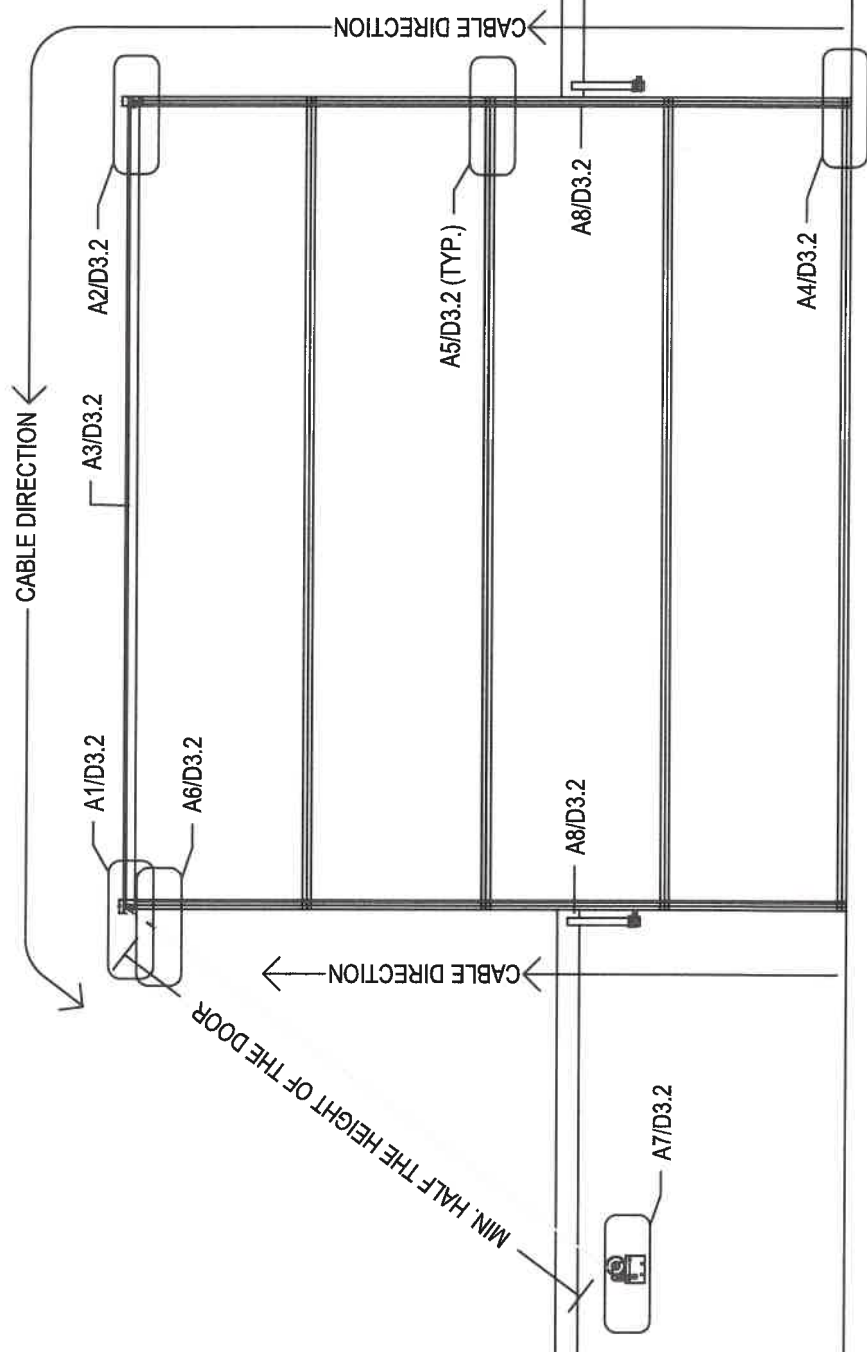
ISSD-A-ANSI
REV. 1.0

Dealer:
Customer:

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Drawn By: J.R.B.W.
Checked By: [Blank]
Date: 10/1/10

Project Number:
Sheet Number: D3.2 DOOR ASSEMBLIES



ISSD-PRU-ANSI
 REV. 1.0

Dealer:

Customer:

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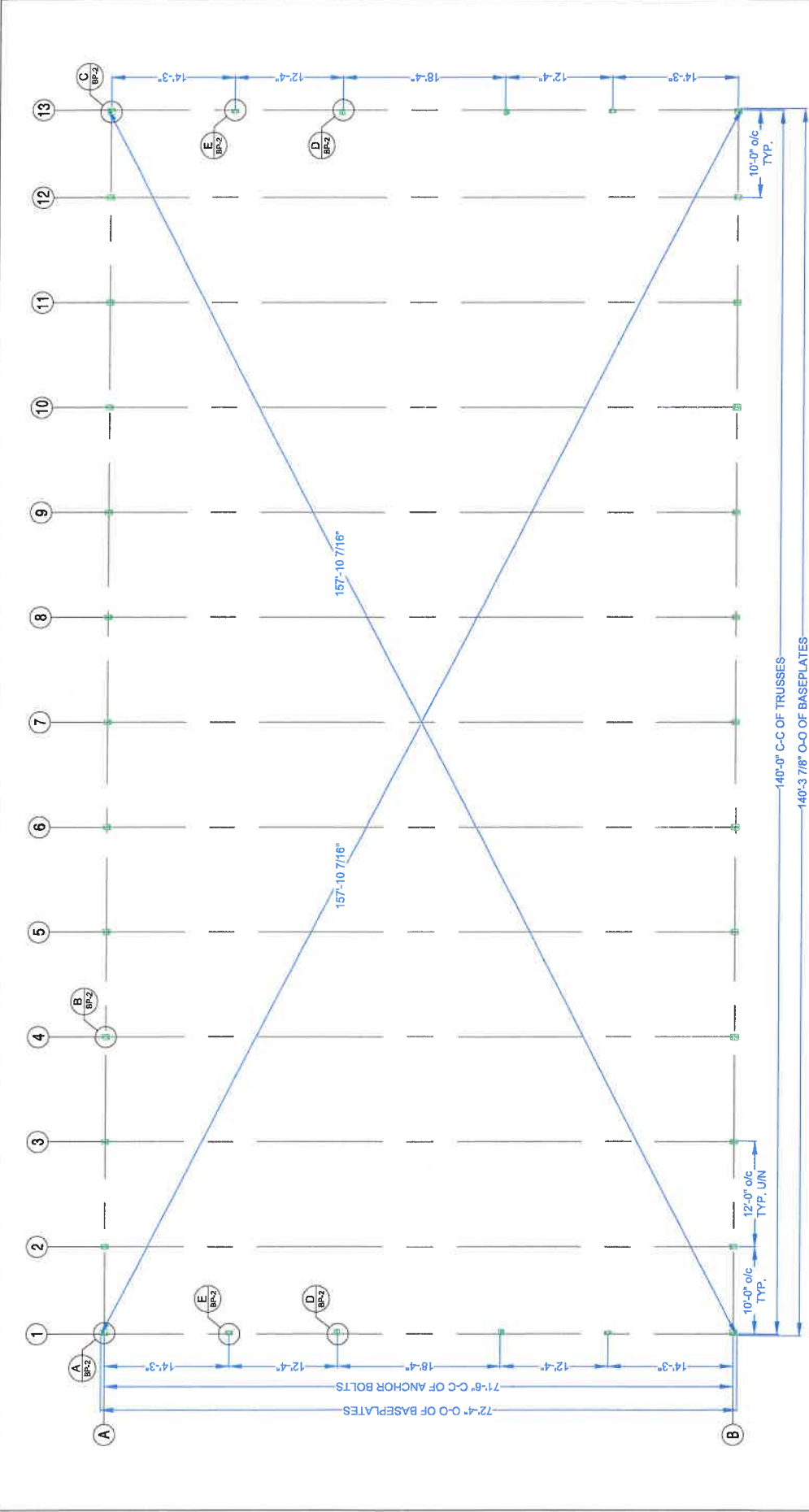
Drawn By: J.R.B.W.
 Checked By:
 Date: 10/1/10

Project Number:
 Sheet Number: D3.3 DOOR ELEVATION VIEW

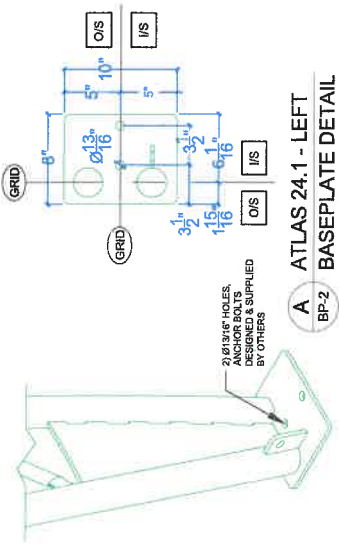
DRAWING SCHEDULE		RELEASE	
DWG#	DRAWINGS TITLE	REL	DATE
CV-1 US	COVER PAGE	0	15.DEC.2020
BP-1	BASEPLATE LAYOUT	0	15.DEC.2020
BP-2	BASEPLATE DETAILS	0	15.DEC.2020
BP-3	PROJECT LAYOUT	0	15.DEC.2020
BP-4	BRACING LAYOUT - PLAN NEW	0	15.DEC.2020
BP-5	BRACING LAYOUT - ELEVATION	0	15.DEC.2020
EW-1/2	ENDWALL LAYOUT	0	15.DEC.2020
SD-1	STANDARD DETAILS 1	0	15.DEC.2020
SD-2	STANDARD DETAILS 2	0	15.DEC.2020
ED-1	ENDWALL DETAILS	0	15.DEC.2020

STRUCTURAL BOLT TORQUE VALUES (AS REFERENCE ONLY) RISK APPROVED METHOD REQUIRED FOR APPROPRIATE TABLE 9 LEIS THE BOLT CLAMP WITH SUGGESTED ASSEMBLY TORQUE VALUES.

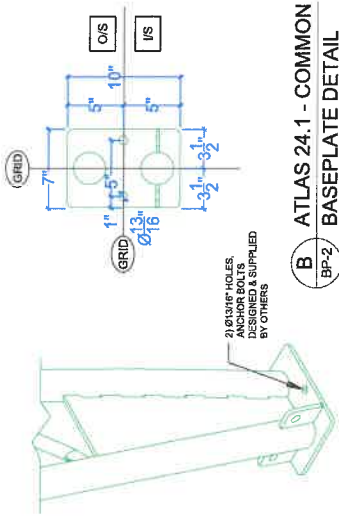
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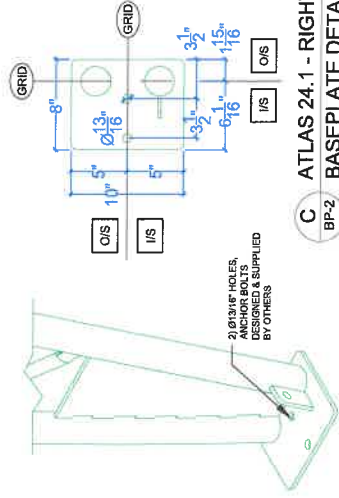
BRITESPAN BUILDING SYSTEMS INC. TF: 800-407-8846 www.britespanbuildings.com	REV # CR # DESCRIPTION DATE	DEALER COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	CUSTOMER WVDOH- MARTINSBURG 1823 ROCK CLIFF DRIVE MARTINSBURG, WV, 25401
	0 ISSUED FOR CONSTRUCTION 16DEC2020	PROJECT ATLAS 24.1 72'10" X 140' 10' & 12' OC	ORDER ID: SC# 7991 WIDTH-MOUNT-FABRIC-HSS-HISSDROF: 72-L-10-420-18-0
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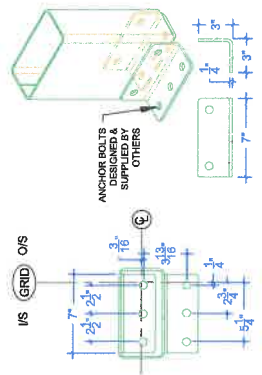
A ATLAS 24.1 - LEFT
BP-2 BASEPLATE DETAIL



B ATLAS 24.1 - COMMON
BP-2 BASEPLATE DETAIL

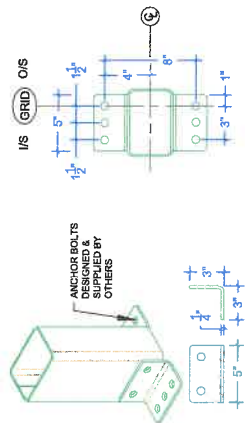


C ATLAS 24.1 - RIGHT
BP-2 BASEPLATE DETAIL



D 8X4 HEADER / BASE
BP-2 DOOR FRAME

ANCHOR-BOLT HOLES: Ø 11/16"
PLATE THICKNESS: 1/4"
PART NUMBER: 2372



E 6X4 HEADER / BASE
BP-2 BASEPLATE DETAIL

ANCHOR-BOLT HOLES: Ø 11/16"
PLATE THICKNESS: 1/4"
PART NUMBER: 2467

TRUSS ANCHOR NOTES:

- 1) BASE PLATES DESIGNED FOR Ø 5/8" OR 3/4" ANCHORS.
- 2) ANCHOR TYPE, EMBEDMENT AND PROJECTION AS DETERMINED BY FOUNDATION ENGINEER.
- 3) ALL ANCHORS TO BE SUPPLIED & INSTALLED BY OTHERS.

END WALL ANCHOR NOTES:

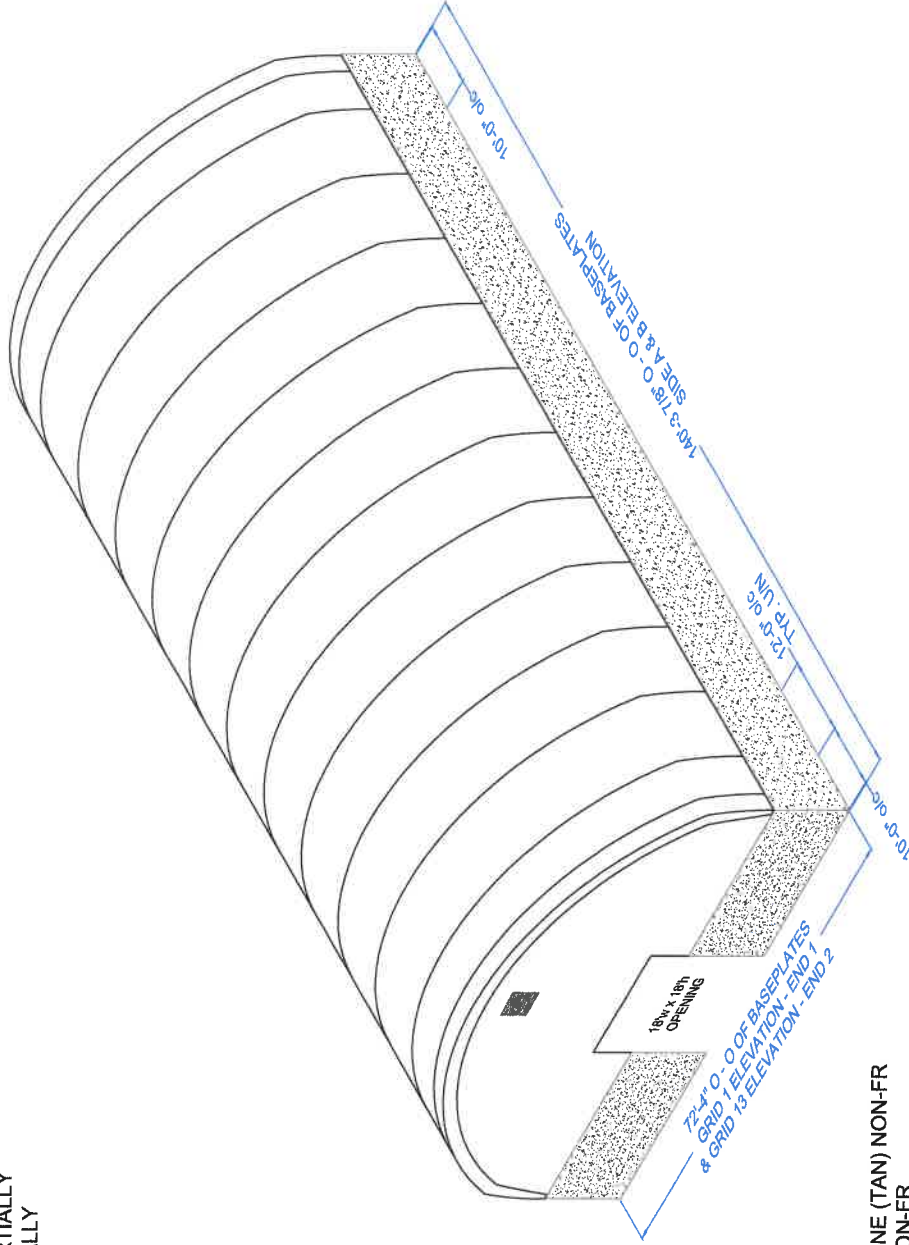
- 1) BASE PLATES DESIGNED FOR TWO Ø 5/8" ANCHORS.
- 2) ANCHOR TYPE, EMBEDMENT AND PROJECTION AS DETERMINED BY FOUNDATION ENGINEER.
- 3) ALL ANCHORS TO BE SUPPLIED & INSTALLED BY OTHERS.

FOUNDATION DESIGNED & SUPPLIED BY OTHERS

	TF: 600-467-5645 www.britespanbuildings.com	REV # CR # DESCRIPTION DATE 0 ISSUED FOR CONSTRUCTION 15DEC2020	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	CUSTOMER: WVDOH-MARTINSBURG 1823 ROCK CLIFF DRIVE MARTINSBURG, WV, 25401
	DRAWN BY: TB	ORDER ID: SO# 7991	DRAWING TITLE: BASEPLATE DETAILS	PROJECT: ATLAS 24.1 72L10 X 140' 10' & 12' OC
CHECKED BY: RWH	WIDTH-MOUNT-FABRIC-ISS-ISSUDROP: 72-L10-420-18-0	PAGE NUMBER: 03 / 12		

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NOTE:
 BUILDING IS DESIGNED AS PARTIALLY
 EXPOSED (Ce=1.0) AND PARTIALLY
 ENCLOSED



MAIN COVER: SANDSTONE (TAN) NON-FR
 ENDFLAPS: GREEN NON-FR
 ENDWALLS: SANDSTONE (TAN) NON-FR

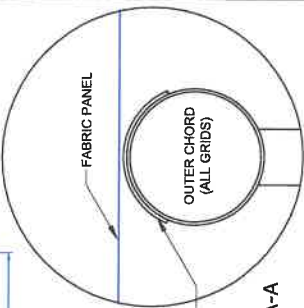
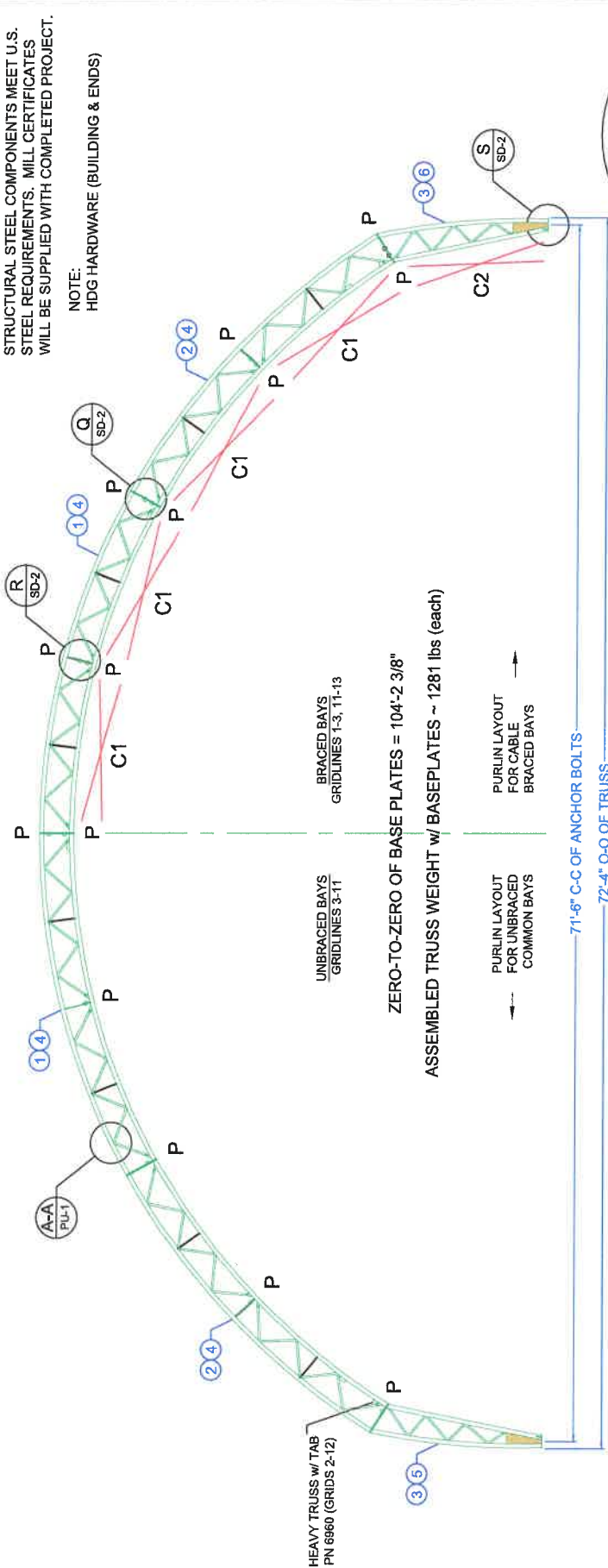
FOUNDATION DESIGNED
 & SUPPLIED BY OTHERS

	TF: 800-407-5946 www.britespanbuildings.com	REV # 0 CR # DESCRIPTION: ISSUED FOR CONSTRUCTION	DATE: 15DEC2020	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV. 26330	CUSTOMER: WYDOH- MARTINSBURG 1823 ROCK CLIFF DRIVE MARTINSBURG, WV. 25401
	DRAWN BY: TB CHECKED BY: RWH	PROJECT: ATLAS 24.1 72L10 x 140' 10' & 12' OC	ORDER ID: SO# 7991 WIDTH-MOUNT-FABRIC-HSS-HSDROP: 72L10-420-18-0	DRAWING TITLE: PROJECT LAYOUT SHEET NUMBER: ISO-1	PAGE NUMBER: 04 /12

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STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)



THERMA TAPE - APPLY GROUND TO GROUND. APPLY ON TOP OF COUPLER PROTECTORS

DETAIL A-A

ATLAS 24.1 - 72L10 WIDE

ITEM	CABLE LEGEND	DESCRIPTION
---	CROSS CABLE 5/16"	
---	BRACING LEGEND	
ITEM	DESCRIPTION	
X	CROSS CABLE 5/16"	
P	TYPICAL PURLIN - 2-7/8" DIA. X 14 GA.	

ATLAS 24		10' BAY	
ITEM #	LENGTH	ITEM #	LENGTH
C1 CABLE	174"	861174-9	174"
C2 CABLE	164"	861164-9	164"
ATLAS 24		12' BAY	
ITEM #	LENGTH	ITEM #	LENGTH
C1 CABLE	192"	861192-9	192"
C2 CABLE	182"	861182-9	182"

TRUSS COMPONENTS FOR ATLAS 24.1 - 72 L10	
LOCATION	ITEM # QTY. DESCRIPTION
INTERIOR	1 6959 2 SECTION-A24.1-10GA OC-10GA IC-70W/72W/92W- COMMON
	2 6960 2 SECTION-A24.1-10GA OC-7GA IC-65W/70W/72W/82W- COMMON
	3 2367 2 TRUSS-A24-65/72'-10' LEG- COMMON
END	4 6956 4 SECTION-A24.1-65W/70W/72W/82W- END
	5 2368 1 TRUSS-A24-65/72'-10' LEG- LEFT END
	6 2369 1 TRUSS-A24-65/72'-10' LEG- RIGHT END

BRITESPAN
BUILDING SYSTEMS INC.

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TR: 800-407-5846
www.britespanbuildings.com

DRAWN BY: TB
CHECKED BY: RWH

DEALER: COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV, 26330

PROJECT: ATLAS 24.1
72L10 x 140'
10' & 12' OC

ORDER ID: SO# 7991
WIDTH-MOUNT-FABRIC-HSS-HSSDROP: 72-L-10-420-18-0

DRAWING TITLE: PURLIN & X-CABLE LAYOUT

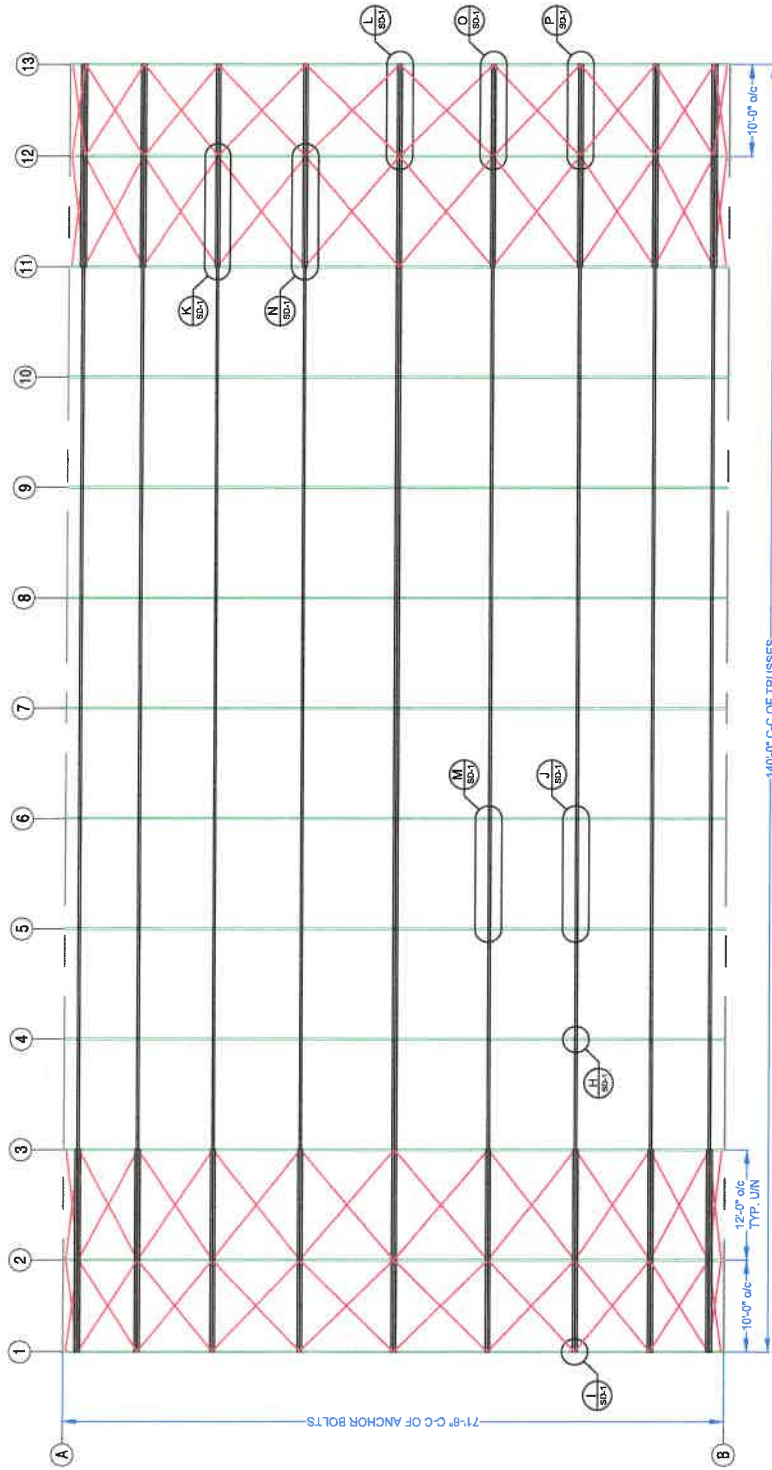
SHEET NUMBER: PU-1

PAGE NUMBER: 05 / 12

DEVELOPER: WVD0H- MARTINSBURG
1823 ROCK CLIFF DRIVE
MARTINSBURG, WV, 25401

STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)



PLAN VIEW

FOR PURLIN DETAILS SEE: SD-1
FOR CABLE DETAILS SEE: SD-2

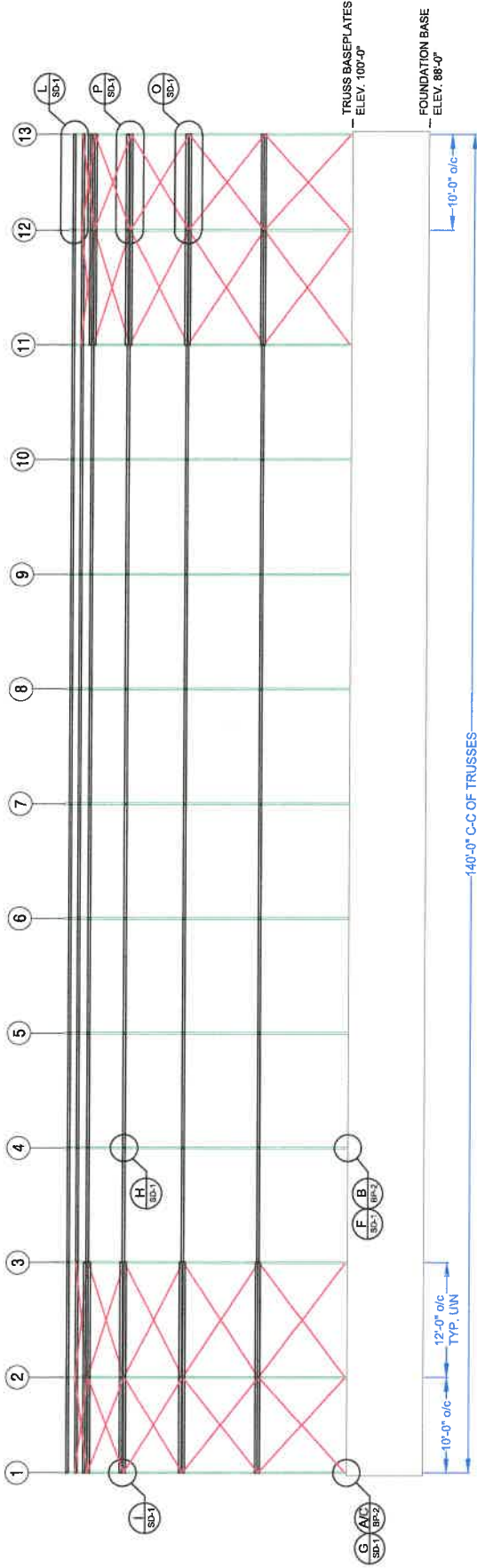
ITEM	PURLIN LEGEND	DESCRIPTION
		TYPICAL PURLIN - 2-7/8" DIA. X 14 GA.

ITEM	CABLE LEGEND	DESCRIPTION
		CROSS CABLE 5/16"

 Britespan BUILDING SYSTEMS INC.	TF: 900-407-5949 www.britespanbuildings.com	DATE: 16DEC2020	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	CUSTOMER: WVDOH-MARTINSBURG 1823 ROCK CLIFF DRIVE MARTINSBURG, WV, 25401
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DRAWING TITLE: BRACING LAYOUT - PLAN VIEW		SHEET NUMBER: BR-1		
		PAGE NUMBER: 06 /12		

STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)



FOUNDATION DESIGNED & SUPPLIED BY OTHERS

ITEM	DESCRIPTION
	CROSS CABLE 5/16"

ITEM	DESCRIPTION
	TYPICAL PURLIN - 2x78" DIA. X 14 GA.

ITEM	DESCRIPTION
	CROSS CABLE 5/16"

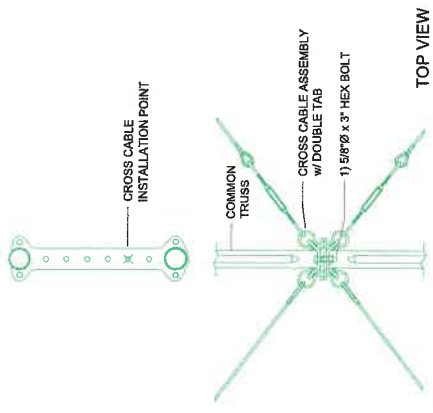
ITEM	DESCRIPTION
	CROSS CABLE 5/16"

ITEM	DESCRIPTION
	CROSS CABLE 5/16"

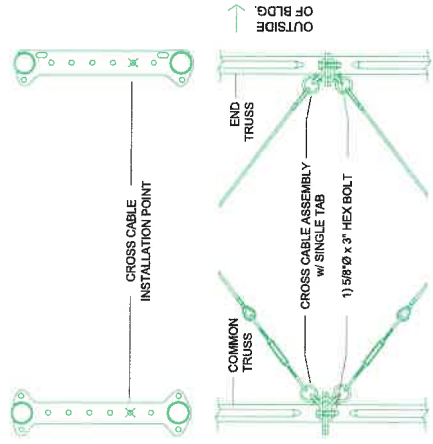
FOR PURLIN DETAILS SEE: SD-1
FOR CABLE DETAILS SEE: SD-2

ELEVATION

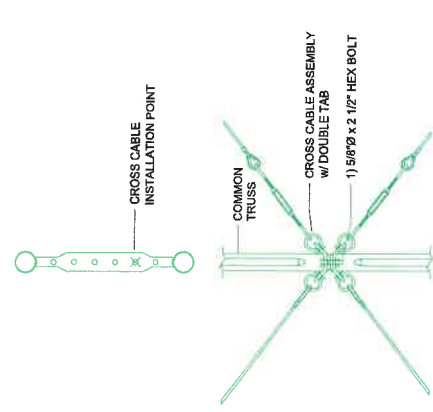
	TF: 900-407-5848 www.britespanbuildings.com	DRAWN BY: TB	CHECKED BY: RWH
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REV # CR # DESCRIPTION 0 ISSUED FOR CONSTRUCTION	DATE: 15DEC2000	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	CUSTOMER: WDOH-MARTINSBURG 1823 ROCK CLIFF DRIVE MARTINSBURG, WV, 25401
PROJECT: ATLAS 24.1 72L10 x 140' 10' & 12' oc	ORDER ID: SO# 7991 WIDTH-MOUNT-FABRIC-HSS-HSDROP: 72-L10-420-18-0	DRAWING TITLE: BRACING LAYOUT - ELEVATION	SHEET NUMBER: BR-2
		PAGE NUMBER: 07 / 12	



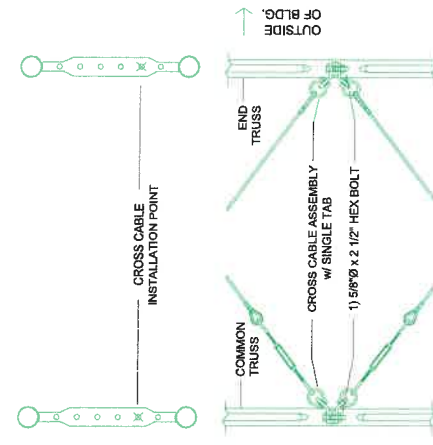
DOUBLE BRACED BAYS
TOP VIEW
 NOTE:
 - INSTALL ALL TURNBUCKLES AT ONE END FOR EASE OF INSTALLATION.



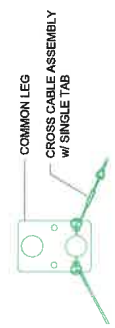
SINGLE BRACED END BAY
CROSS CABLES AT DOGBONE
CONNECTION DETAILS
 Q SD-2



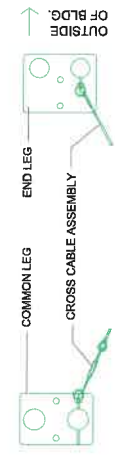
DOUBLE BRACED BAYS
 NOTE:
 - INSTALL ALL TURNBUCKLES AT ONE END FOR EASE OF INSTALLATION.



SINGLE BRACED END BAY
CROSS CABLES AT KINGPIN
CONNECTION DETAILS
 R SD-2



TOP VIEW



SINGLE BRACED END BAY
CROSS CABLES AT LEG
CONNECTION DETAILS
 S SD-2

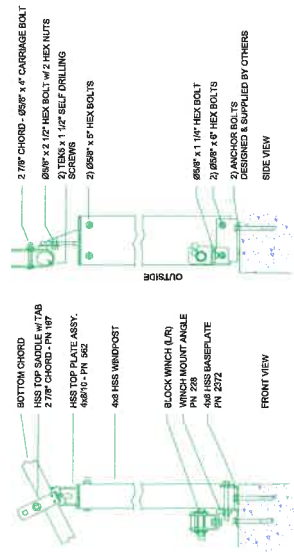
STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
 HDG HARDWARE (BUILDING & ENDS)

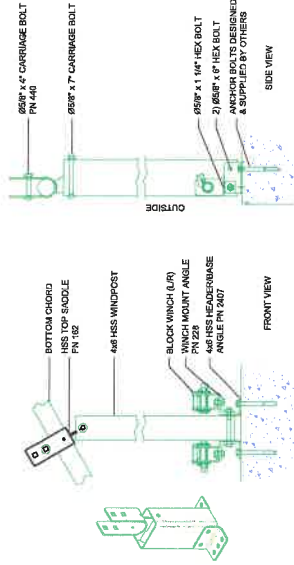
	TF: 800-407-5848 www.britespanbuildings.com	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	CUSTOMER: WVDOH- MARTINSBURG 1823 ROCK CLIFF DRIVE MARTINSBURG, WV, 25401
	DRAWN BY: TB	ORDER ID: SO# 7991	DRAWING TITLE: STANDARD DETAILS 2
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REV # CR # DESCRIPTION DATE	0 ISSUED FOR CONSTRUCTION 15.FEB.2020		

STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

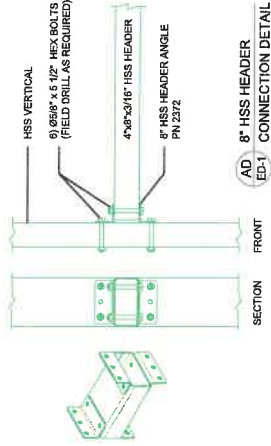
NOTE: HDG HARDWARE (BUILDING & ENDS)



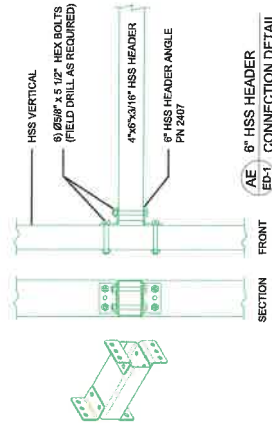
D AB 4x8 HSS WINDPOST - 2 7/8\"/>



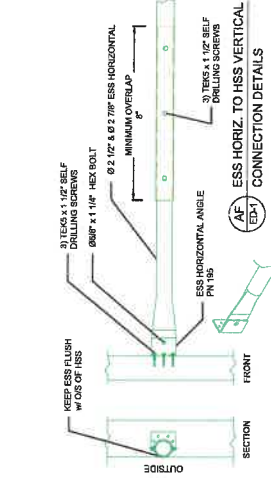
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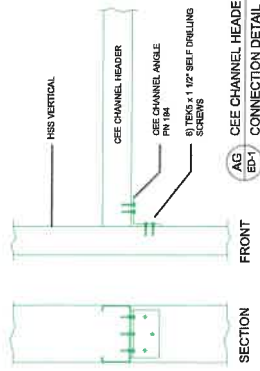
AD 8\"/>



AE 8\"/>



AF 8\"/>



AG 8\"/>

BRITESPAN BUILDING SYSTEMS INC.	TF: 800-407-5848 www.britespanbuildings.com	DATE: 15/DEC/2020	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	CUSTOMER: WVDOH- MARTINSBURG 1823 ROCK CLIFF DRIVE MARTINSBURG, WV, 25401
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DRAWING TITLE: ENDWALL DETAILS		SHEET NUMBER: ED-1		
PAGE NUMBER: 12 / 12				

This project has been designed and fabricated in accordance with the following:

- 1. DESCRIPTION
OWNER'S NAME AND ADDRESS:
WVDOE - WEBSTER SPRINGS - NATE ROHRIG
ROUTE 20, WEBSTER SPRINGS, WV, 26288
...
2. DESIGN STANDARDS
A. DEAD LOADS
B. LIVE LOADS
C. WIND LOADS
D. WIND LOADS
E. LOAD COMBINATIONS

3. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED
4. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED

5. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED
6. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED

7. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED
8. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED

9. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED
10. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED

11. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED
12. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED

13. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED
14. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED

15. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED
16. DESIGN CATEGORY
EXPOSURE C (NON-COASTAL) - FULLY EXPOSED
PARTIALLY ENCLOSED

GENERAL INFORMATION
THIS DRAWING INCLUDES INFORMATION NECESSARY FOR THE PROPER INSTALLATION OF THE BUILDING SYSTEMS INC. IT IS PROVIDED SOLELY FOR THE BUILDING DESCRIBED IN THE SPECIFICATIONS AND IS NOT TO BE REPRODUCED OR COPIED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF BUILDING SYSTEMS INC.

THE GENERAL CONTRACTOR AND/OR ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AUTHORITIES.

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Table with 4 columns: DIA, THICKNESS, TORQUE, TORQUE. Rows include various bolt specifications like 3/8, 1/2, 5/8, 3/4, 1, 1 1/4.

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DRAWING SCHEDULE table with columns: DWG #, DRAWING TITLE, REL, DATE, REL, DATE.

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-1 BASEPLATE LAYOUT 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-2 BASEPLATE DETAILS 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-3 BRACING LAYOUT 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-4 BRACING DETAILS 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-5 BRACING LAYOUT - ELEVATION 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-6 BRACING LAYOUT 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-7 STANDARD DETAILS 1 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-8 STANDARD DETAILS 2 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-9 ENDWALL DETAILS 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-10 ENDWALL DETAILS 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-11 ENDWALL DETAILS 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-12 ENDWALL DETAILS 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-13 ENDWALL DETAILS 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-14 ENDWALL DETAILS 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-15 ENDWALL DETAILS 0 25.07.2021

RELEASE
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BP-16 ENDWALL DETAILS 0 25.07.2021

RELEASE
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BP-17 ENDWALL DETAILS 0 25.07.2021

RELEASE
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BP-18 ENDWALL DETAILS 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-19 ENDWALL DETAILS 0 25.07.2021

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BP-20 ENDWALL DETAILS 0 25.07.2021

RELEASE
DWG # DRAWING TITLE REL DATE REL DATE
BP-21 ENDWALL DETAILS 0 25.07.2021

RELEASE
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BP-22 ENDWALL DETAILS 0 25.07.2021

RELEASE
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BP-23 ENDWALL DETAILS 0 25.07.2021

RELEASE
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BP-24 ENDWALL DETAILS 0 25.07.2021

RELEASE
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BP-25 ENDWALL DETAILS 0 25.07.2021

RELEASE
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BP-26 ENDWALL DETAILS 0 25.07.2021

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BP-29 ENDWALL DETAILS 0 25.07.2021

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BP-30 ENDWALL DETAILS 0 25.07.2021

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BP-31 ENDWALL DETAILS 0 25.07.2021

RELEASE
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RELEASE
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BP-33 ENDWALL DETAILS 0 25.07.2021

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RELEASE
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BP-35 ENDWALL DETAILS 0 25.07.2021

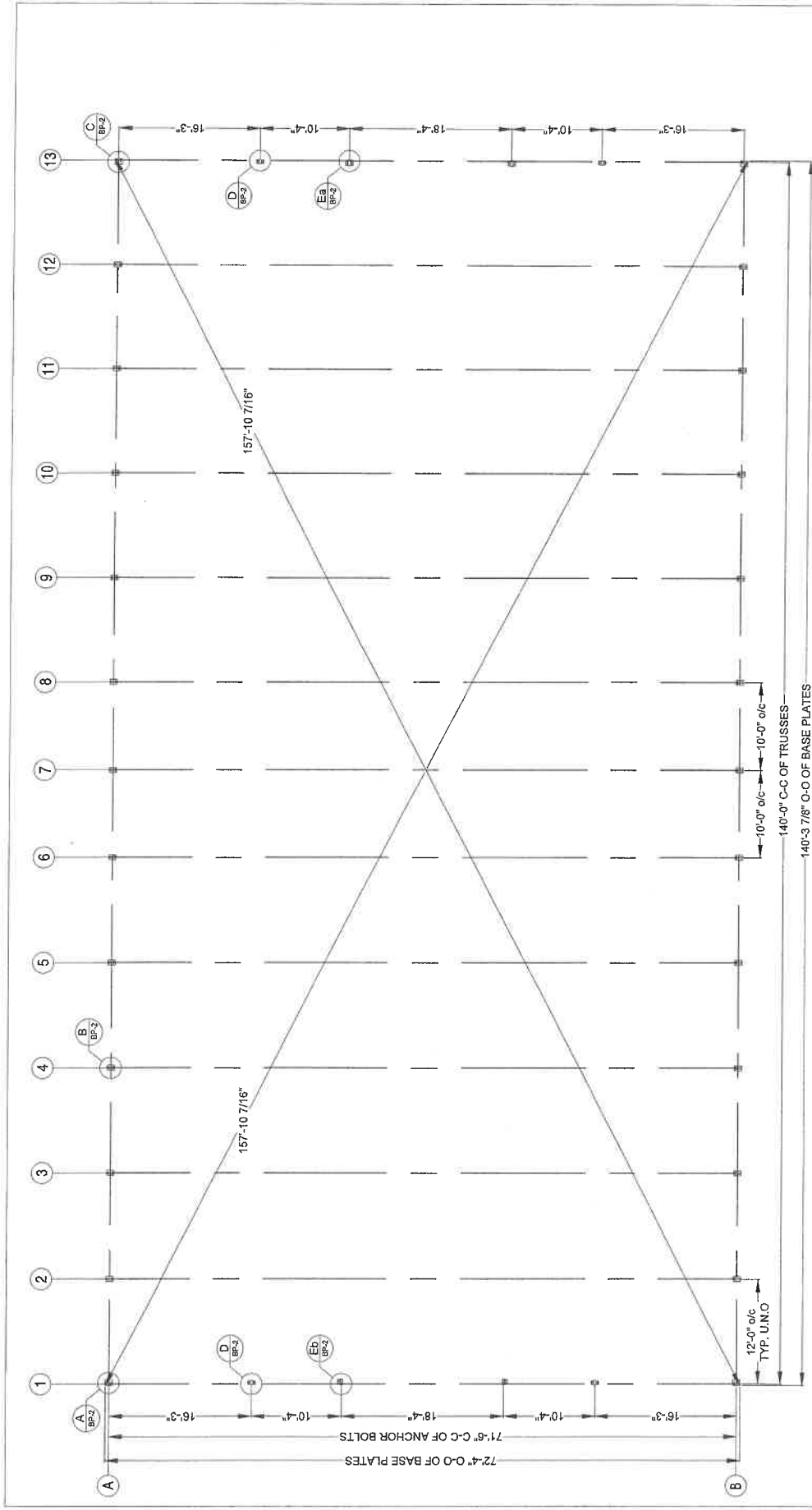
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BP-36 ENDWALL DETAILS 0 25.07.2021

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RELEASE
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BP-38 ENDWALL DETAILS 0 25.07.2021

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BP-39 ENDWALL DETAILS 0 25.07.2021

RELEASE
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BP-40 ENDWALL DETAILS 0 25.07.2021



BRITESPAN BUILDING SYSTEMS INC. TF: 800-407-5646 www.britespanbuildings.com	REV # CR # 0	DESCRIPTION: ISSUED FOR CONSTRUCTION	DATE: 26.OCT.2021	DEALER: COVER-ALL OF WV 812 NORTH OHIO AVE CLARKSBURG, WV, 26301	CUSTOMER: WV DOT - WEBSTER SPRINGS ROUTE 20 WEBSTER SPRINGS, WV, 26288
	DRAWN BY: TMP	ORDER ID: SO# 8837	PROJECT: ATLAS 24.1 72L10 X 140' 12' & 10' OC	DRAWING TITLE: BASEPLATE LAYOUT	SHEET NUMBER: BP-1

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CHECKED BY:
 JIKH

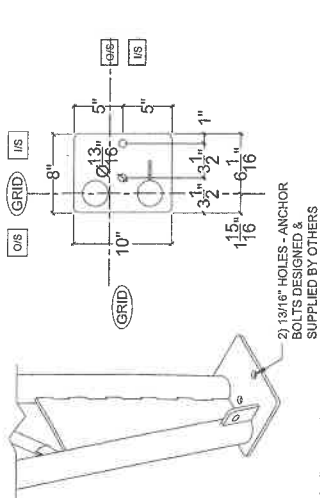
TRUSS ANCHOR NOTES:

- 1) BASE PLATES DESIGNED FOR ϕ 5/8" OR ϕ 3/4"
- 2) ANCHOR TYPE, EMBEDMENT AND PROJECTION AS DETERMINED BY FOUNDATION ENGINEER.
- 3) ALL ANCHORS TO BE SUPPLIED & INSTALLED BY OTHERS.

END WALL ANCHOR NOTES:

- 1) BASE PLATES DESIGNED FOR TWO ϕ 5/8" ANCHORS.
- 2) ANCHOR TYPE, EMBEDMENT AND PROJECTION AS DETERMINED BY FOUNDATION ENGINEER.
- 3) ALL ANCHORS TO BE SUPPLIED & INSTALLED BY OTHERS.

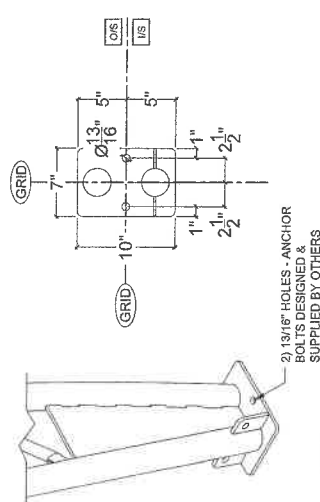
BP-A



**LEFT END
ATLAS 24.1 LEG**

PLATE THICKNESS: 3/8"
ANCHOR HOLES: 13/16" ϕ

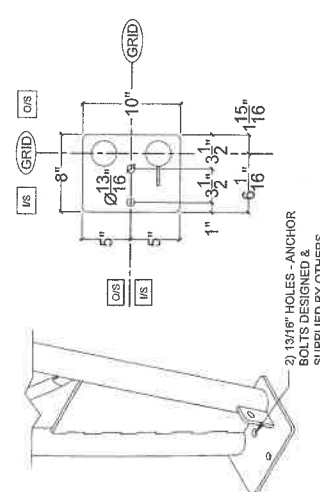
BP-B



**COMMON
ATLAS 24.1 LEG**

PLATE THICKNESS: 3/8"
ANCHOR HOLES: 13/16" ϕ

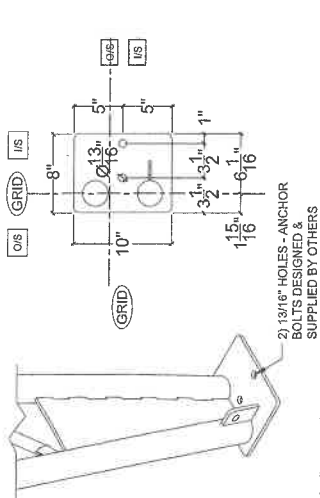
BP-C



**RIGHT END
ATLAS 24.1 LEG**

PLATE THICKNESS: 3/8"
ANCHOR HOLES: 13/16" ϕ

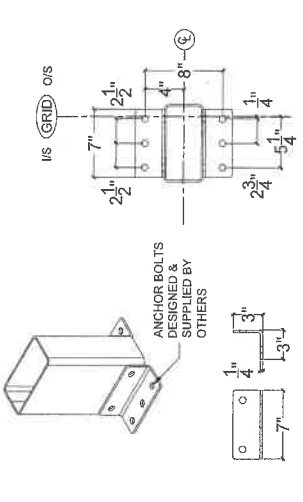
BP-D



**6X4 HEADER / BASE
2 7/8" CHORD**

PART NUMBER: 2407
PLATE THICKNESS: 1/4"
ANCHOR HOLES: 11/16" ϕ

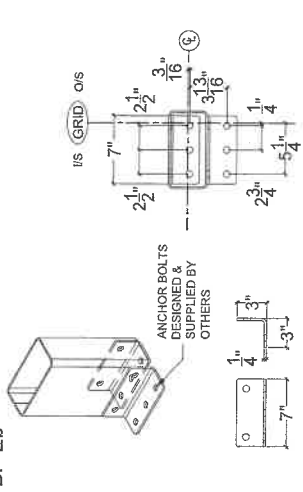
BP-Ea



**8X4 HEADER / BASE
2 7/8" CHORD**

PART NUMBER: 2372
PLATE THICKNESS: 1/4"
ANCHOR HOLES: 11/16" ϕ

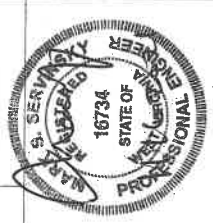
BP-Eb



**8X4 HEADER / BASE
2 7/8" CHORD @ DOOR FRAME**

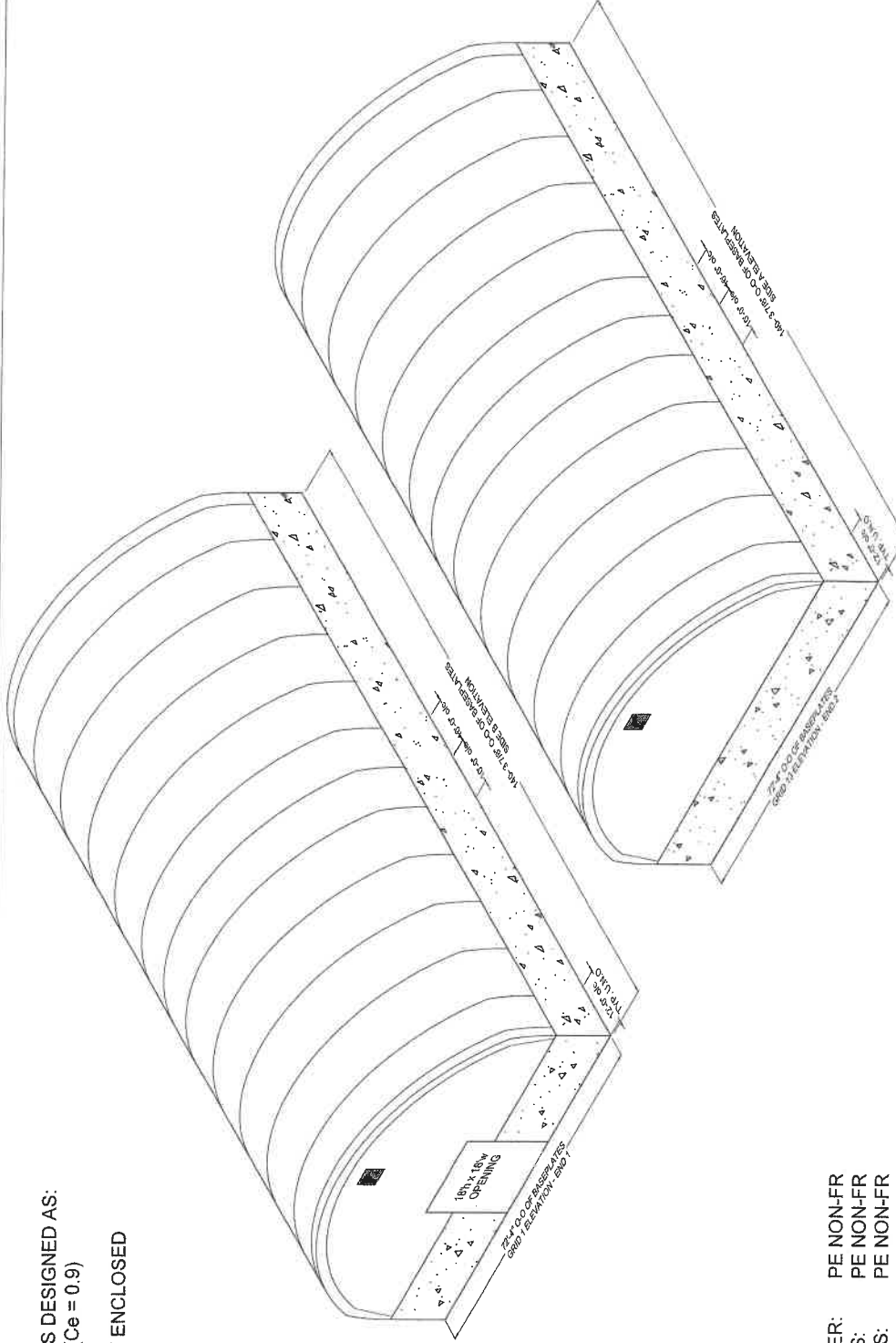
PART NUMBER: 2372
PLATE THICKNESS: 1/4"
ANCHOR HOLES: 11/16" ϕ

**FOUNDATION
DESIGNED &
SUPPLIED BY
OTHERS**



<p>TF: 800-407-5646 www.britespanbuildings.com</p>	<p>DEALER: COVER-ALL OF WW 812 NORTH OHIO AVE CLARKSBURG, WV, 26301</p>	<p>CUSTOMER: WVDOT - WEBSTER SPRINGS ROUTE 20 WEBSTER SPRINGS, WV, 26288</p>	
	<p>DATE: 25.OCT.2021</p>	<p>PROJECT: ATLAS 24.1 72L10 X 140' 12' & 10' OC</p>	<p>DRAWING TITLE: BASEPLATE DETAILS</p>
<p>REV# CR.# DESCRIPTION:</p>	<p>ISSUED FOR CONSTRUCTION</p>	<p>ORDER ID: SO# 8837</p>	<p>PAGE NUMBER: 03 / 13</p>
<p>DRAWN BY: TMP</p>	<p>CHECKED BY: JIKH</p>	<p>WIDTH/MOUNT/FABRIC: 72L10-220</p>	<p>SHEET NUMBER: BP-2</p>
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NOTE:
 BUILDING IS DESIGNED AS:
 EXPOSED (Ce = 0.9)
 AND
 PARTIALLY ENCLOSED



FOUNDATION
 DESIGNED &
 SUPPLIED BY
 OTHERS



MAIN COVER: PE NON-FR
 END FLAPS: PE NON-FR
 END WALLS: PE NON-FR

REV #	CR #	DESCRIPTION	DATE	DEALER	CUSTOMER
0		ISSUED FOR CONSTRUCTION	25.OCT.2021	COVER-ALL OF WV 812 NORTH OHIO AVE CLARKSBURG, WV, 26301	WV DOT - WEBSTER SPRINGS ROUTE 20 WEBSTER SPRINGS, WV. 26288
				PROJECT:	DRAWING TITLE:
				ATLAS 24.1	PROJECT LAYOUT
				72L10 x 140'	SHEET NUMBER:
				12' & 10' O.C.	ISO-1
				ORDER ID:	PAGE NUMBER:
				SO# 8837	04 / 13
				WIDTH-MOUNT # ABRIC	
				72L10-220	

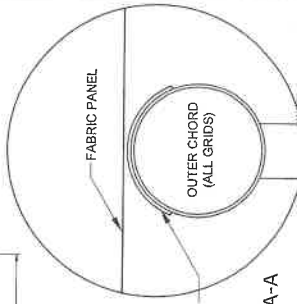
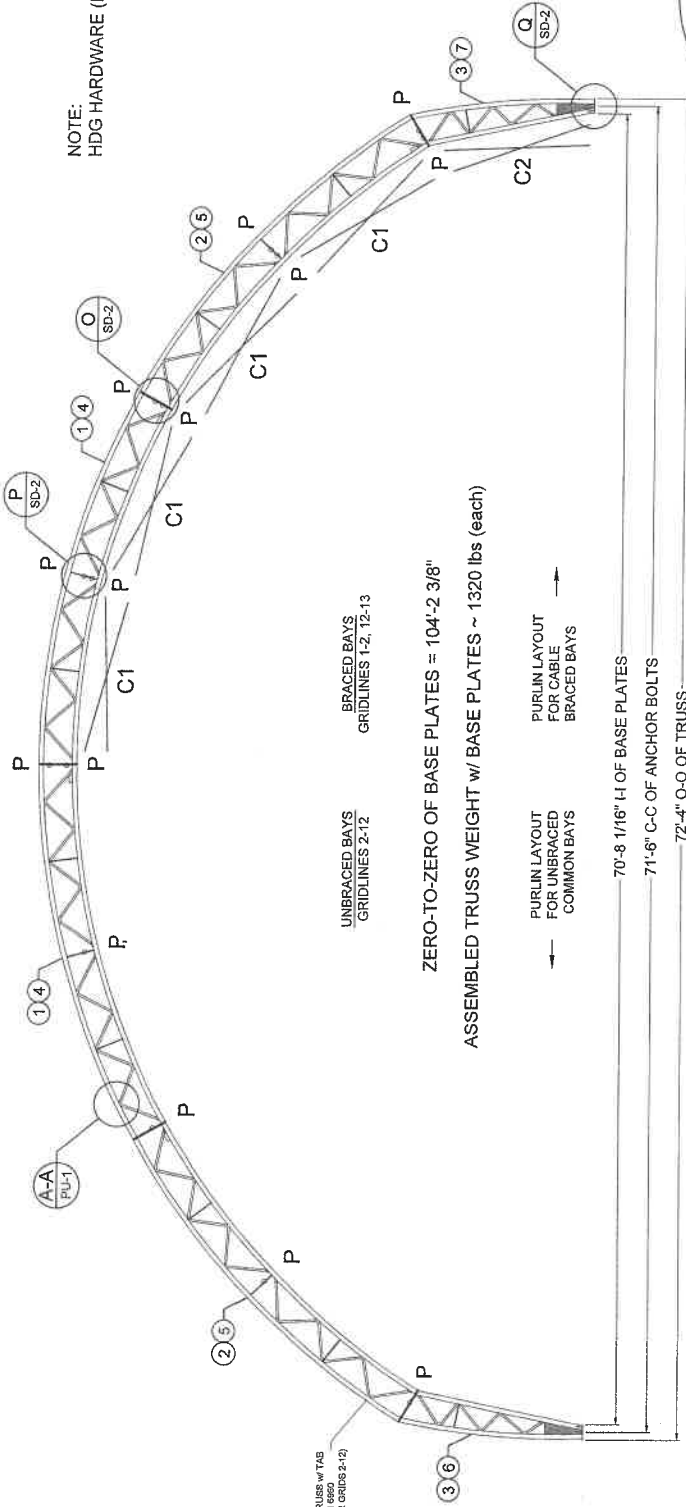
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NOTE:
HDG HARDWARE (BUILDING & ENDS)



ATLAS 24.1 - 72L10 WIDE

TRUSS COMPONENTS FOR ATLAS 24.1 - 72L10B

LOCATION	ITEM #	PART #	QTY.	DESCRIPTION	O/C	I/C	WEB
INTERIOR	1	6959	2	SECTION - A24.1 - 70W/2W/82W - COMMON	10GA	10GA	1-1/4" 14GA
	2	6960	2	SECTION - A24.1 - 65W/7W/72W/82W - HEAVY - COMMON	10GA	7GA	1-1/4" 14GA
	3	6327	2	LEG - A24.1 - 65W/72W - L10 - COMMON	10GA	7GA	1-1/4" 14GA
END	4	6956	2	SECTION - A24.1 - 65W/70W/72W/82W - END	10GA	10GA	1-1/4" 14GA
	5	6951	2	SECTION - A24.1 - 65W/70W/72W/82W - HEAVY - END	10GA	7GA	1-1/4" 14GA
	6	9044	1	LEG - A24.1 - 65W/72W - L10 - LEFT END	10GA	7GA	1-1/4" 14GA
	7	9045	1	LEG - A24.1 - 65W/72W - L10 - RIGHT END	10GA	7GA	1-1/4" 14GA

ITEM	DESCRIPTION
CROSS CABLE 5/16"	DESCRIPTION
BRACING LEGEND	DESCRIPTION
CROSS CABLE 5/16"	DESCRIPTION
TYPICAL PURLIN - 2 7/8" DIA. X 14 GA.	DESCRIPTION

THERMA TAPE - APPLY GROUND TO GROUND. APPLY ON TOP OF COUPLER PROTECTORS

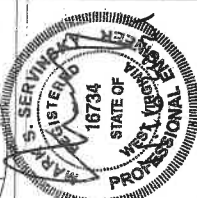
REV #	CR #	DESCRIPTION	DATE
0		ISSUED FOR CONSTRUCTION	26.OCT.2021

DEALER: COVER-ALL OF WV 812 NORTH OHIO AVE CLARKSBURG, WV. 26301

CUSTOMER: WDOT - WEBSTER SPRINGS ROUTE 20 WEBSTER SPRINGS, WV. 26288

ORDER ID: SO# 8837	DRAWING TITLE: PURLIN & X-CABLE LAYOUT
WIDTH-MOUNT-FABRIC: 72-L10-220	SHEET NUMBER: PU-1
	PAGE NUMBER: 05 / 13

PROJECT: ATLAS 24.1 72L10 X 140' 12' & 10' oc	DEALER: COVER-ALL OF WV 812 NORTH OHIO AVE CLARKSBURG, WV. 26301
	CUSTOMER: WDOT - WEBSTER SPRINGS ROUTE 20 WEBSTER SPRINGS, WV. 26288



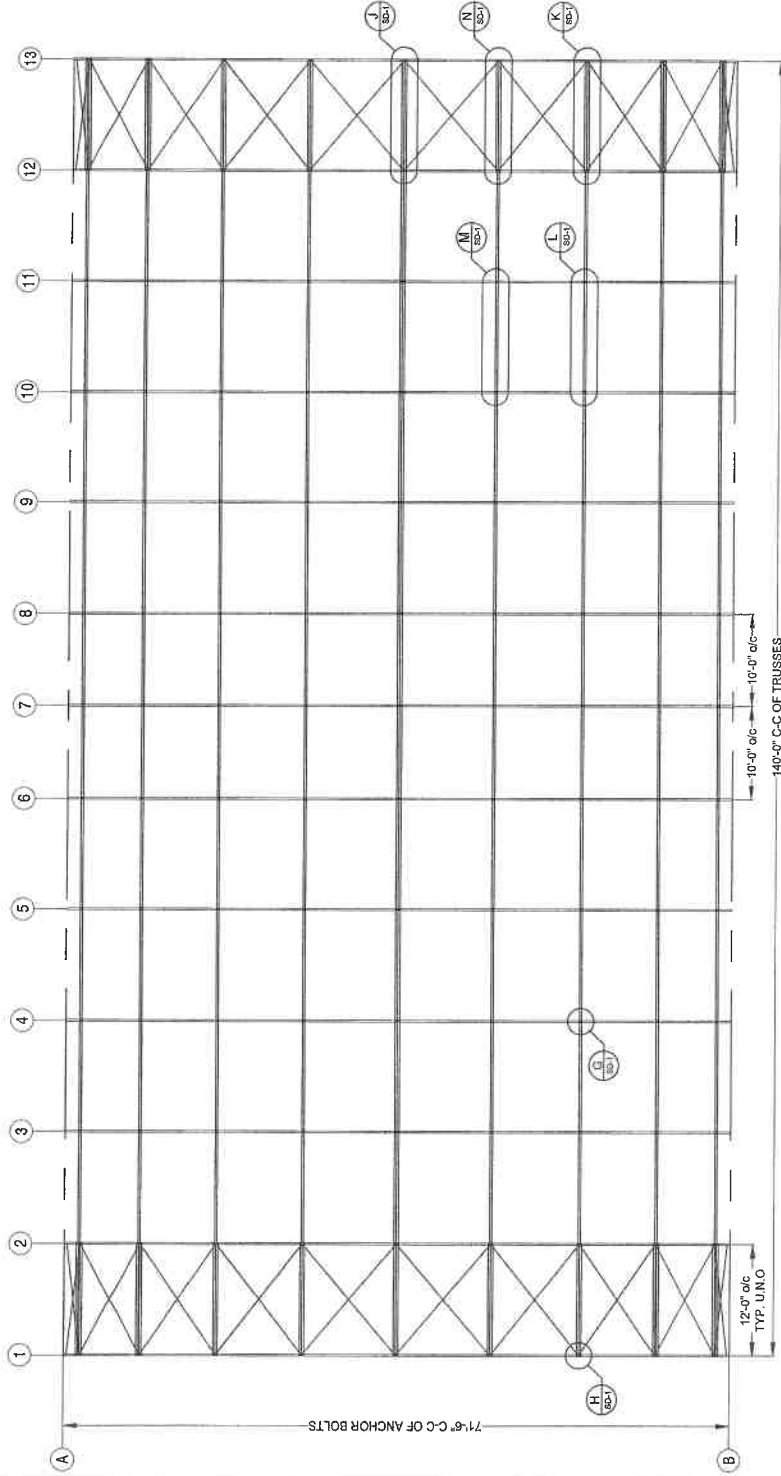
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DRAWN BY: TMP
CHECKED BY: JIKH

NOTE:
HDG HARDWARE (BUILDING & ENDS)



PLAN VIEW

FOR PURLIN DETAILS SEE: SD-1
FOR CABLE DETAILS SEE: SD-2

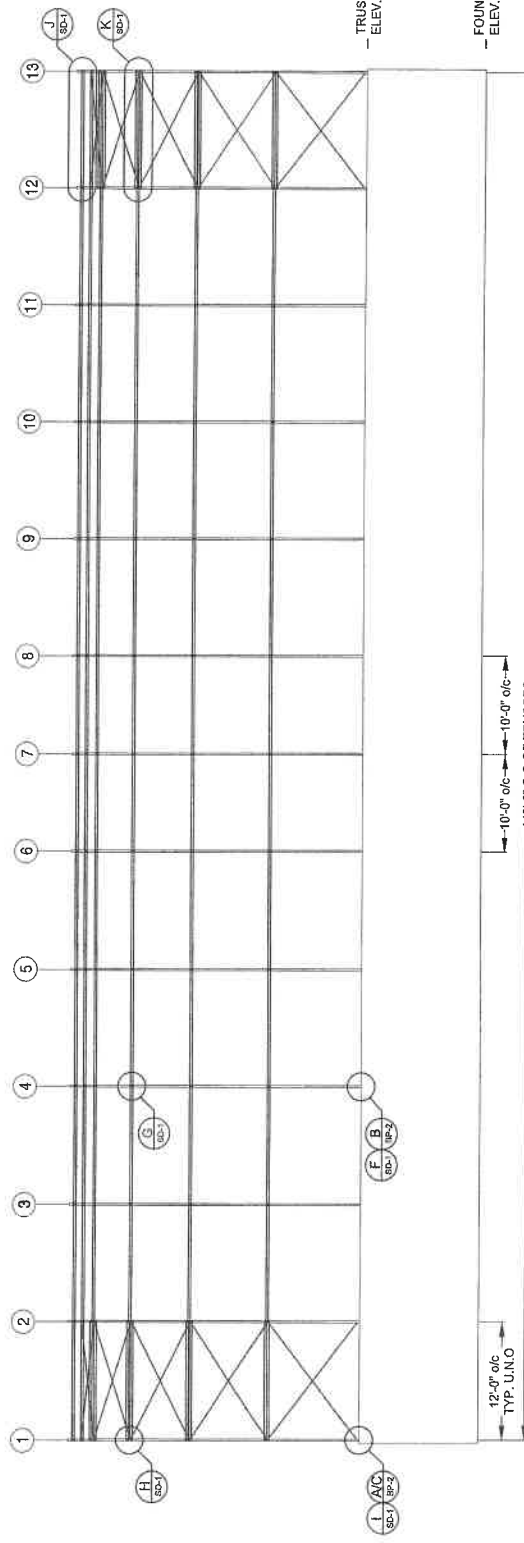
ITEM	DESCRIPTION
	TYPICAL PURLIN 2-7/8" DIA. X 14 GA.
ITEM	DESCRIPTION
	CROSS CABLE 5/16"



<p>TF: 800-407-5646 www.britespanbuildings.com</p>	<p>DATE: 26.OCT.2021</p>	<p>DEALER: COVER-ALL OF WV 812 NORTH OHIO AVE CLARKSBURG, WV. 26301</p>	<p>GUSTOMER: WV DOT - WEBSTER SPRINGS ROUTE 20 WEBSTER SPRINGS, WV. 26288</p>
	<p>DESCRIPTION: ISSUED FOR CONSTRUCTION</p>	<p>PROJECT: ATLAS 24.1 72L10 x 140' 12' & 10' OC</p>	<p>ORDER #: SO# 8837 MATERIAL/FABRIC 72-L10-220</p>
<p>DRAWN BY: TMP</p>	<p>CHECKED BY: JKH</p>	<p>SHEET NUMBER: BR-1</p>	<p>PAGE NUMBER: 06 / 13</p>

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NOTE:
HDG HARDWARE (BUILDING & ENDS)



TRUSS BASE PLATES
- ELEV. 100'-0"

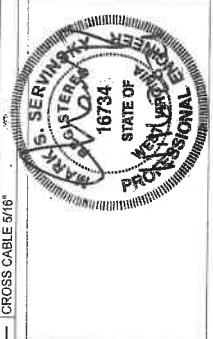
FOUNDATION BASE
- ELEV. 88'-0"

FOUNDATION
DESIGNED &
SUPPLIED BY
OTHERS

FOR PURLIN DETAILS SEE: SD-1
FOR CABLE DETAILS SEE: SD-2

ELEVATION

ITEM	PURLIN LEGEND	DESCRIPTION	ITEM	CABLE LEGEND	DESCRIPTION
	TYPICAL PURLIN 2-7/8" DIA. X 14 GA.			CROSS CABLE 5/16"	

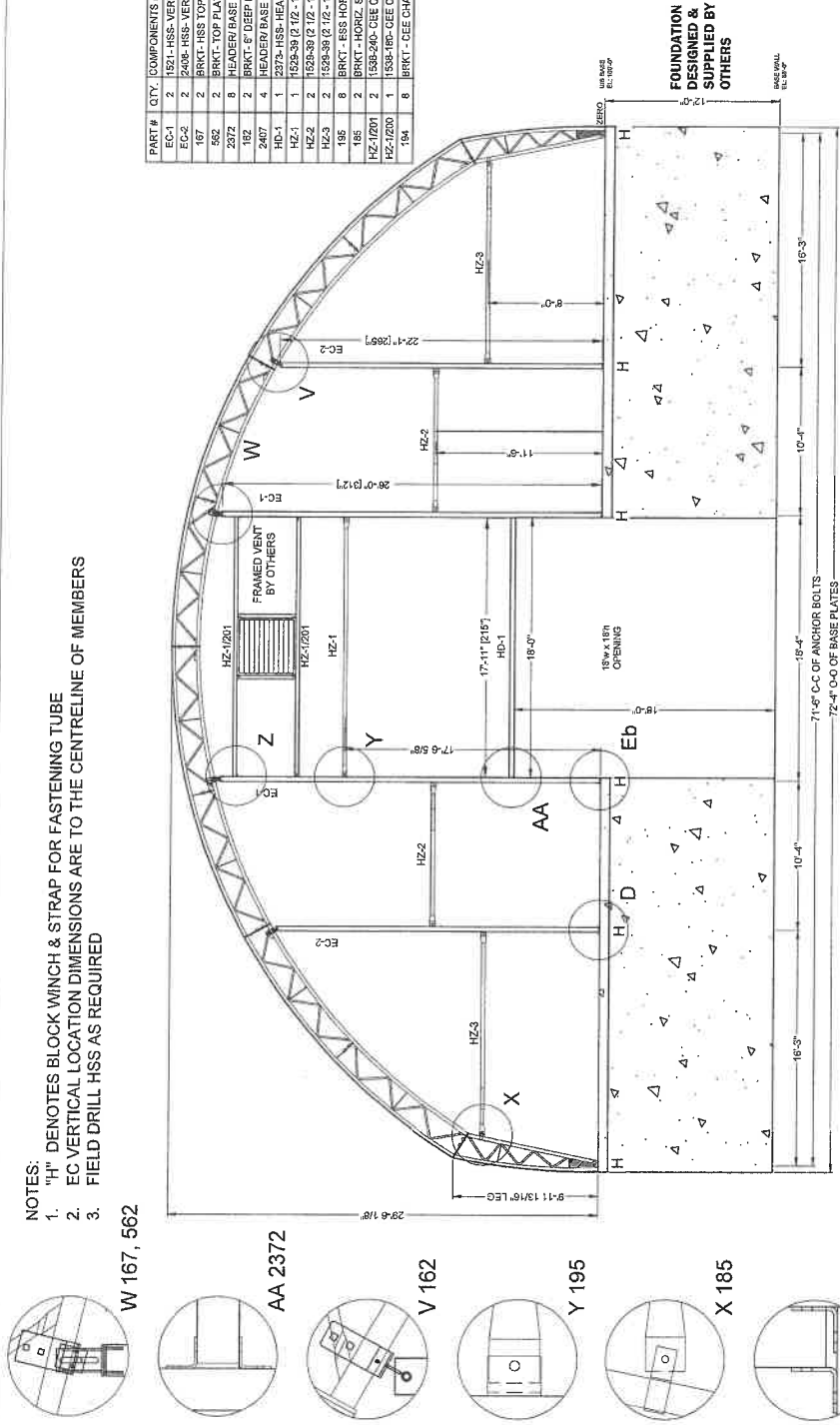


BRITESPAN BUILDING SYSTEMS INC. TF: 800-407-5846 www.britespanbuildings.com		PROJECT: ATLAS 24.1 72L10 X 140' 12' & 10' OC		ORDER ID: SO# 8837 WIDTH/MOUNT/FABRIC 72L10-220		DRAWING TITLE: BRACING LAYOUT - ELEVATION PAGE NUMBER: 07 / 13	
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REV # CH # DESCRIPTION DATE		0 ISSUED FOR CONSTRUCTION 25.OCT.2021		CUSTOMER: WV DOT - WEBSTER SPRINGS ROUTE 20 WEBSTER SPRINGS, WV, 26288		DATE: 25.OCT.2021	

- NOTES:
- "H" DENOTES BLOCK WINCH & STRAP FOR FASTENING TUBE
 - EC VERTICAL LOCATION DIMENSIONS ARE TO THE CENTRELINE OF MEMBERS
 - FIELD DRILL HSS AS REQUIRED

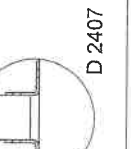
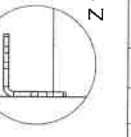
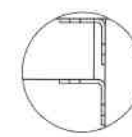
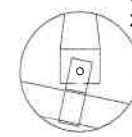
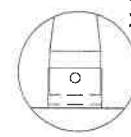
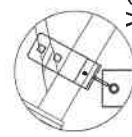
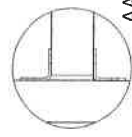
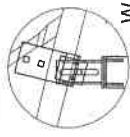
NOTE:
HDG HARDWARE (BUILDING & ENDS)

PART #	QTY.	COMPONENTS (in)
EC-1	2	1821-HSS-VERT.-4" X 6" X 3/16" - 5' CENTRES- 312"
EC-2	2	2408-HSS-VERTICAL.-4" X 6" X 3/16" - 5' CENTRES- 265"
167	2	BRKT-HSS TOP SADDLE W/TAB - 2 7/8" CHORD
562	2	BRKT-TOP PLATE ASSY. 4x8x10-2.38x2 7/8x3 1/2" CRD
2372	8	HEADER BASE ANGLE.-4" X 6" HSS.-5' CENTRES
182	2	BRKT-5" DEEP HSS TOP SADDLE-2 7/8" CHORD
2407	4	HEADER BASE ANGLE.-4" X 6" HSS.-5' CENTRES
HD-1	1	2373-HSS-HEADER.-4" X 6" X 3/16" - 5' CENTRES- 216"
HZ-1	1	1525-38 (2 1/2 - 14GA) * 1531-194 (2 7/8" 14GA) PRE-GALV
HZ-2	2	1525-38 (2 1/2 - 14GA) * 1531-194 (2 7/8" 14GA) PRE-GALV
HZ-3	2	1525-38 (2 1/2 - 14GA) * 1531-194 (2 7/8" 14GA) PRE-GALV
185	8	BRKT-ESS HORIZ. ANGLE
186	2	BRKT-HORIZ. SADDLE WITH TAB - 2 7/8" CHORD
HZ-12001	2	1535-240-CEE CHANNEL 6" - 14 GA - 24076059mm
HZ-12003	1	1535-160-CEE CHANNEL 6" - 14 GA - 16074572mm
194	8	BRKT-CEE CHANNEL ANGLE



FOUNDATION
DESIGNED &
SUPPLIED BY
OTHERS

GRIDLINE 1 - END 1



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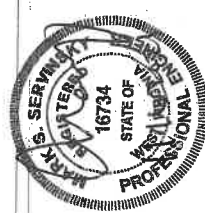
DATE: 26.OCT.2021
DEALER: COVER-ALL OF WV
812 NORTH OHIO AVE
CLARKSBURG, WV. 26301

CUSTOMER: WVDOT - WEBSTER SPRINGS
ROUTE 20
WEBSTER SPRINGS, WV. 26288

PROJECT: ATLAS 24.1
72L10 X 140'
12' & 10' OC

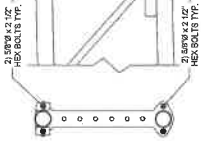
ORDER ID: SCH 8837
WIDTH/MOUNT/FABRIC: 72-L-10-220

DRAWING TITLE: ENDWALL 1 LAYOUT
SHEET NUMBER: EW-1
PAGE NUMBER: 08 / 13



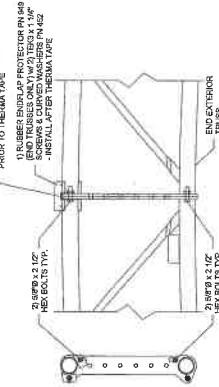
NOTE:
HDG HARDWARE (BUILDING & ENDS)

COUPLER PROTECTOR - INSTALL PRIOR TO THERMA TAPE

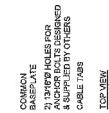


G ATLAS 24.1 COMMON TRUSS
SD-1 CONNECTION DETAIL

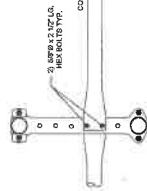
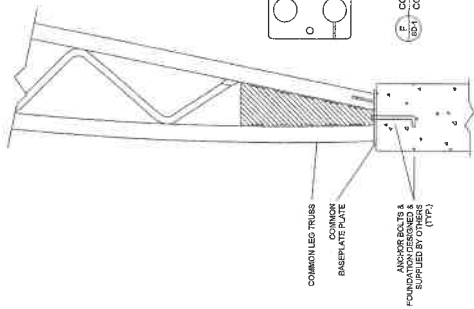
COUPLER PROTECTOR - METAL PRIOR TO THERMA TAPE



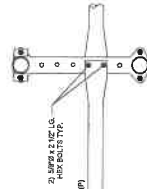
H ATLAS 24.1 END TRUSS
SD-1 CONNECTION DETAIL



COMMON LEG TRUSS BASEPLATE AT JOINT
ANCHOR BOLTS & FOUNDATION DESIGNED & SUPPLIED BY OTHERS (TYP.)
COMMON LEG MOUNT CONNECTION DETAIL
SD-1



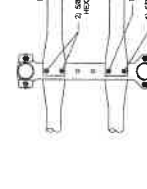
L COMMON PURLIN AT DOGBONE
SD-1 CONNECTION DETAIL



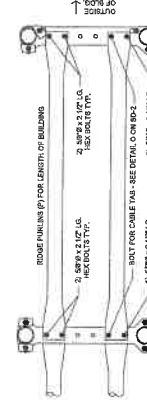
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SD-1 CONNECTION DETAIL



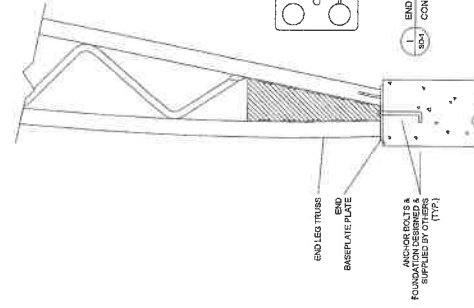
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SD-1 CONNECTION DETAIL



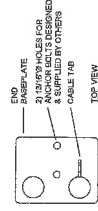
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SD-1 CONNECTION DETAIL



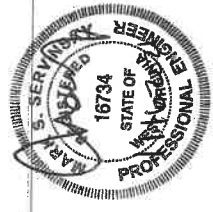
I RIDGE PURLIN AT DOGBONE
SD-1 CONNECTION DETAIL



F COMMON LEG MOUNT CONNECTION DETAIL
SD-1



COMMON LEG MOUNT CONNECTION DETAIL
SD-1



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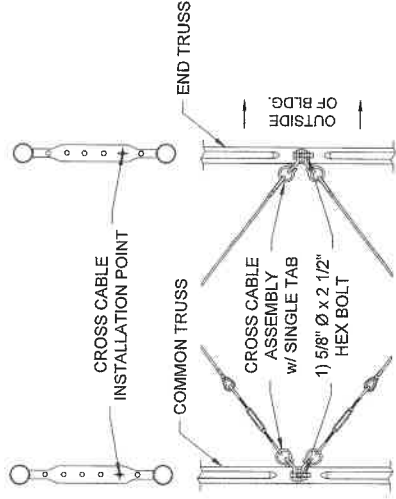
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CHECKED BY: JIKH

REV #	CR #	DESCRIPTION	DATE	DEALER
0		ISSUED FOR CONSTRUCTION	25.OCT.2021	COVER-ALL OF WV 812 NORTH OHIO AVE CLARKSBURG, WV, 26301

ORDER ID:	DRAWING TITLE:	PAGE NUMBER:
SO# 8837	STANDARD DETAILS 1	10 / 13
WIDTH-MOUNT-FABRIC	SHEET NUMBER:	
72-L10-220	SD-1	

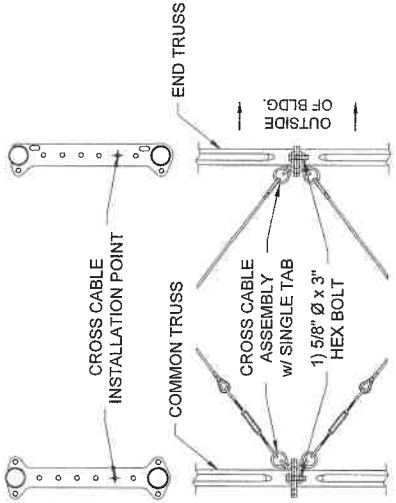
CUSTOMER:
WV DOT - WEBSTER SPRINGS
ROUTE 20
WEBSTER SPRINGS, WV, 26288

NOTE:
HDG HARDWARE (BUILDING & ENDS)



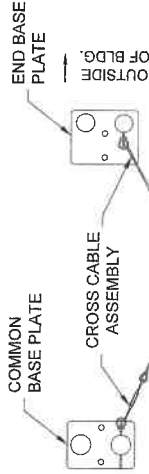
SINGLE BRACED END BAY

P CROSS CABLES AT KINGPIN
SD-2 CONNECTION DETAILS



SINGLE BRACED END BAY

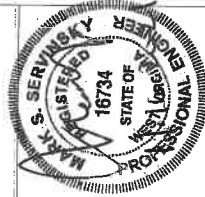
O CROSS CABLES AT DOG BONE
SD-2 CONNECTION DETAILS



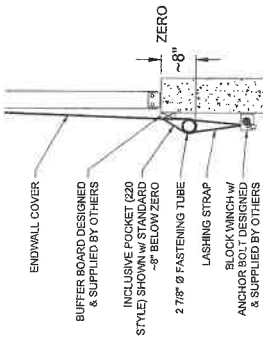
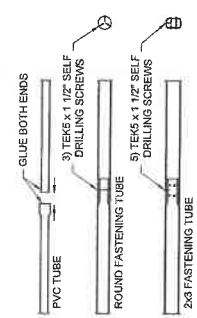
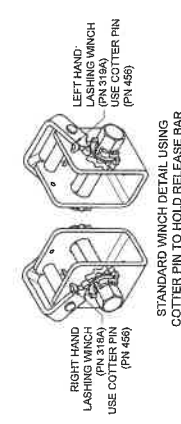
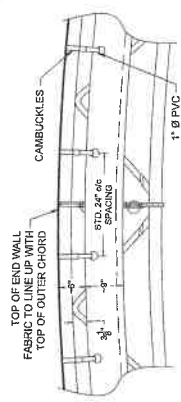
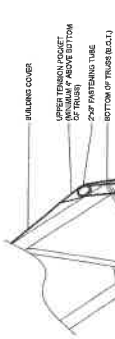
SINGLE BRACED END BAY

Q CROSS CABLES AT BASE
SD-2 CONNECTION DETAILS

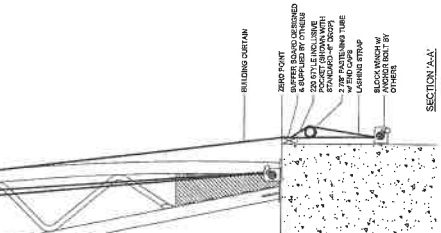
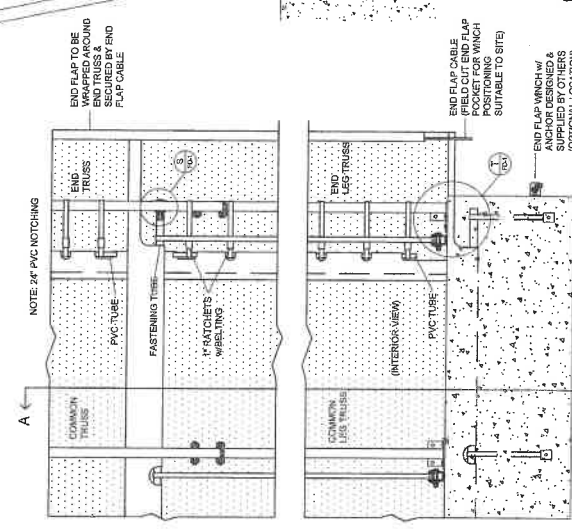
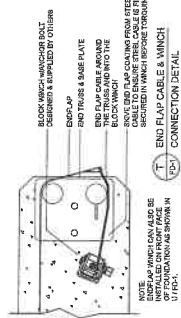
NOTE:
INSTALL ALL TURNBUCKLES AT ONE
END FOR EASE OF INSTALLATION.



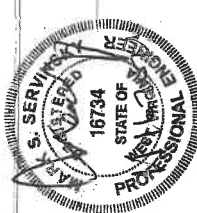
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	REV # CR # DESCRIPTION DATE	0 ISSUED FOR CONSTRUCTION 25.OCT.2021	DATE: 25.OCT.2021	DATE: 25.OCT.2021



INCLUSIVE POCKET (220 STYLE) END WALL FABRIC CONNECTION DETAIL



****IMPORTANT****
PROTECT FABRIC FROM CONTACT WITH ALL SHARP EDGES



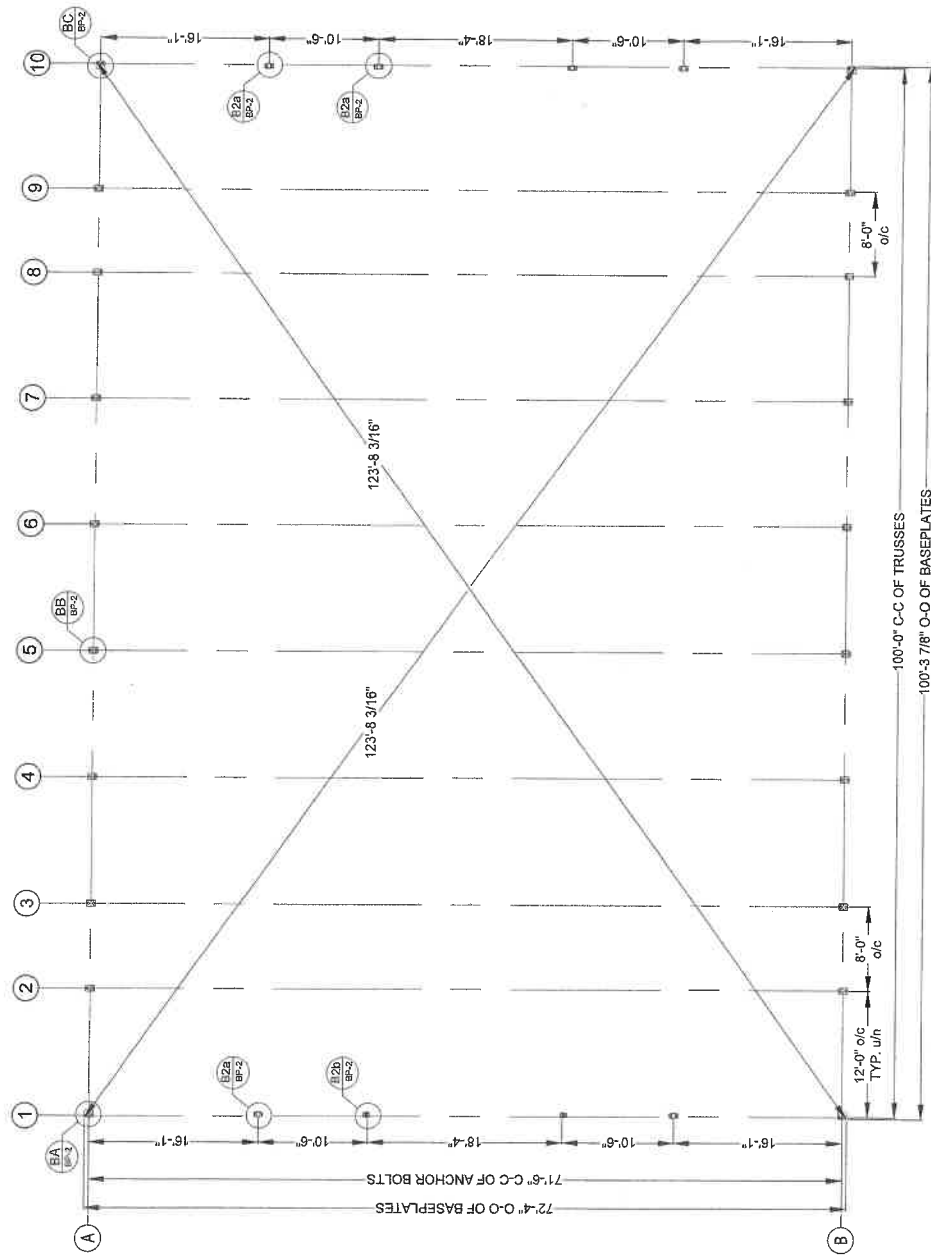
REV#	CR #	DESCRIPTION	DATE	DEALER	CUSTOMER
			25.OCT.2021	COVER-ALL OF WW 812 NORTH OHIO AVE CLARKSBURG, WV. 26301	WV DOT - WEBSTER SPRINGS ROUTE 20 WEBSTER SPRINGS, WV. 26288
0		ISSUED FOR CONSTRUCTION			
			PROJECT	ORDER ID:	DRAWING TITLE:
			ATLAS 24.1 72'L x 10' x 140' 12' & 10' oc	SO# 8837	FABRIC DETAILS 1
				WIDTH-HAUNT-FABRIC	SHEET NUMBER:
				72-L10-220	FD-1
					PAGE NUMBER:
					12 / 13

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DRAWN BY: TMP
CHECKED BY: JIKH

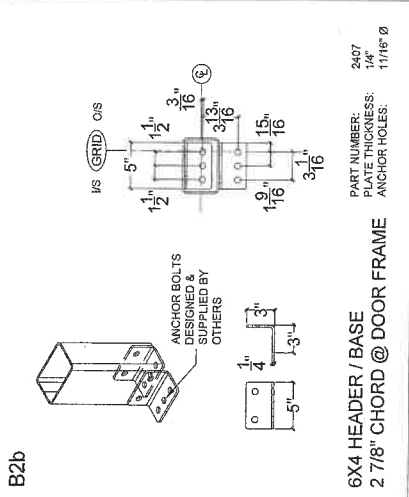
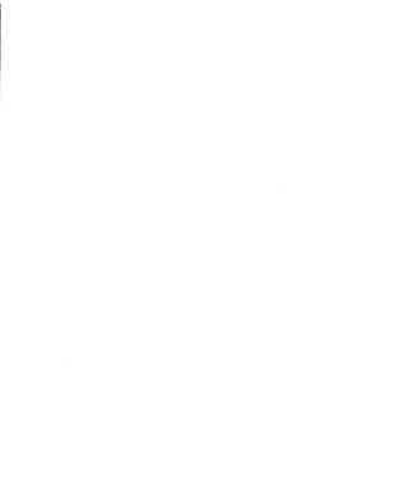
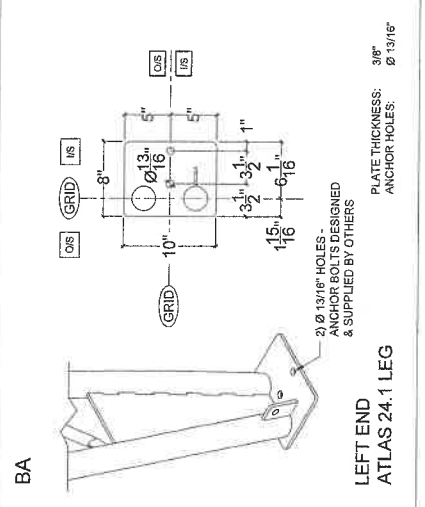
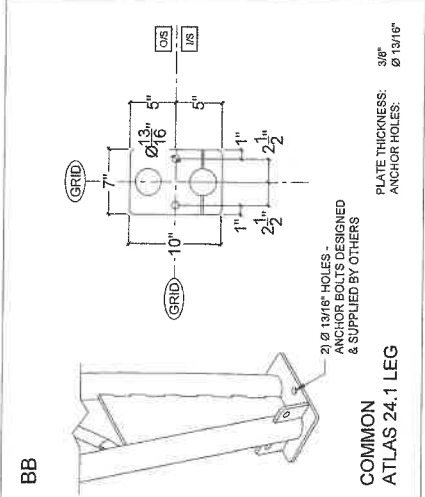
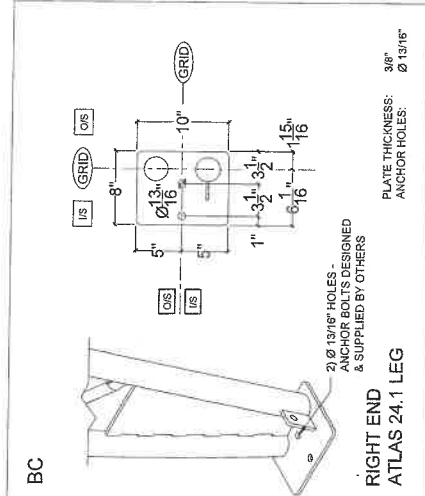


<p>TF: 800-407-3848 www.britespanbuildings.com</p>	<p>THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.</p>	<p>DATE: 01 MAR 2023</p>	<p>DEALER: COVER-ALL BUILDINGS OF WW, INC. P.O. BOX 727 BRIDGEPORT, WV. 26330</p>	<p>CUSTOMER: WW DIVISION OF HIGHWAYS 14971 MIDKAND TRAIL, US 60 CRAWLEY, WV. 24931</p>
	<p>DRAWN BY: NLW CHECKED BY: MTD</p>	<p>DESCRIPTION: ISSUED FOR CONSTRUCTION</p>	<p>PROJECT: ATLAS 24.1 72L10 x 100' 12' & 8' o/c</p>	<p>ORDER ID: SCH# 10044 WIDTH-MOUNT-FABRIC 72-L10-220</p>
<p>REV # CR #</p>	<p>0</p>	<p>0</p>	<p>0</p>	<p>02 / 13</p>

TRUSS ANCHOR NOTES:
 1) BASE PLATES DESIGNED FOR ϕ 5/8" OR ϕ 3/4" ANCHORS.
 2) ANCHOR TYPE, EMBEDMENT AND PROJECTION AS DETERMINED BY FOUNDATION ENGINEER.
 3) ALL ANCHORS TO BE SUPPLIED & INSTALLED BY OTHERS.

END WALL ANCHOR NOTES:
 1) BASE PLATES DESIGNED FOR TWO ϕ 5/8" ANCHORS.
 2) ANCHOR TYPE, EMBEDMENT AND PROJECTION AS DETERMINED BY FOUNDATION ENGINEER.
 3) ALL ANCHORS TO BE SUPPLIED & INSTALLED BY OTHERS.

FOUNDATION
 DESIGNED &
 SUPPLIED BY
 OTHERS



CUSTOMER:
 WV DIVISION OF HIGHWAYS
 14971 MIDLAND TRAIL, US 60
 CRAWLEY, WV, 24931

DRAWING TITLE:
 BASE-PLATE DETAILS

ORDER ID:
 SO# 10044

WIDTH-MOUNT-FABRIC:
 72-L10-220

SHEET NUMBER:
 BP-2

PAGE NUMBER:
 03 / 13

DEALER:
 COVER-ALL BUILDINGS OF WV, INC.
 P.O. BOX 727
 BRIDGEPORT, WV, 26330

PROJECT:
 ATLAS 24.1
 72L10 X 100'
 12' & 8' OC

REV #	CR #	DESCRIPTION:	DATE:
0		ISSUED FOR CONSTRUCTION	01 MAR 2023

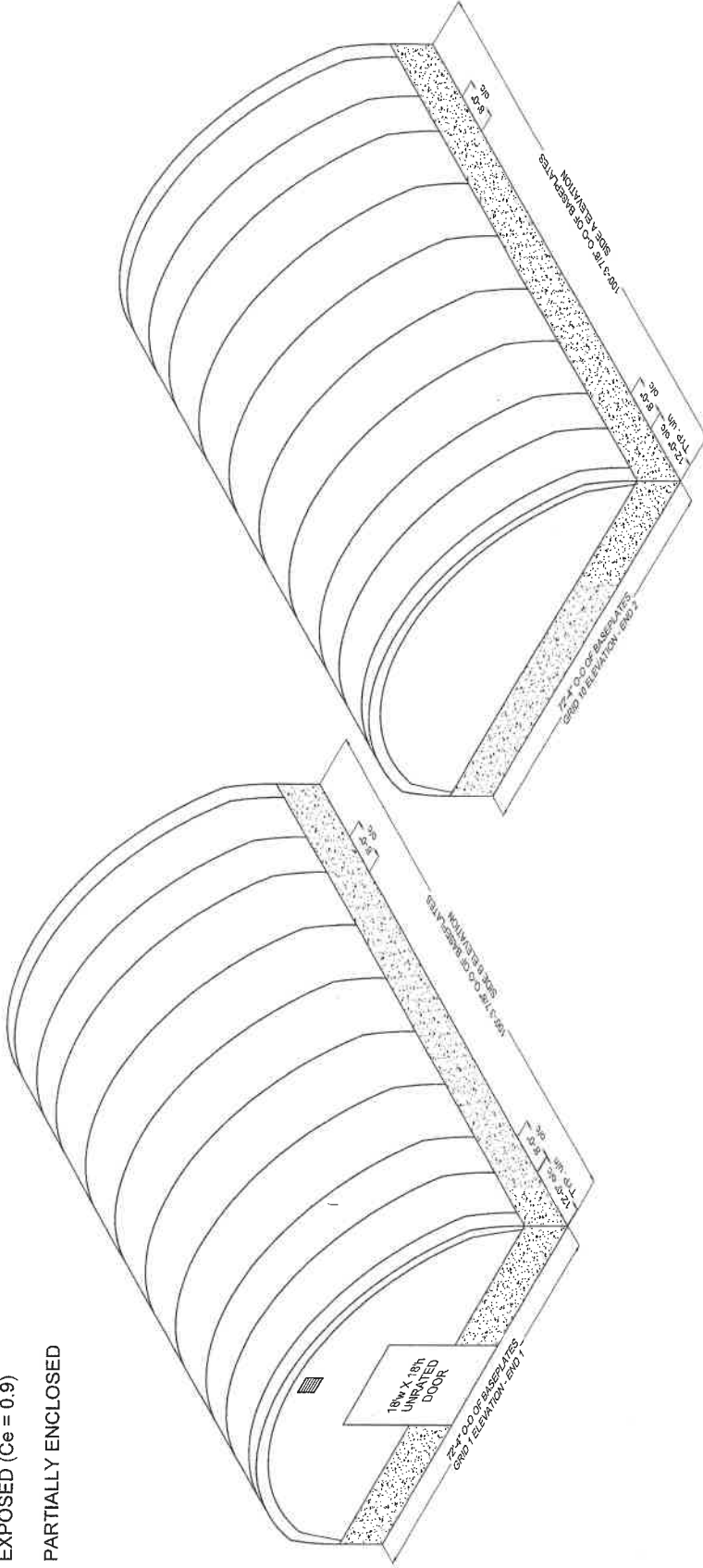
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 NLW

CHECKED BY:
 MTD

NOTE:
 BUILDING IS DESIGNED AS:
 - EXPOSED (Ce = 0.9)
 AND
 - PARTIALLY ENCLOSED



MAIN COVER: SANDSTONE PE NON-FR
 END FLAPS: GREEN PE NON-FR
 ENDWALLS: SANDSTONE PE NON-FR

NOTE:
 NO PETROLEUM BASED PRODUCTS ARE ALLOWED ON
 ANY FABRIC (MINERAL OIL, BABY OIL, VASELINE, ETC).
 APPLICATION TO FABRIC WILL VOID WARRANTY.
 OTHERS



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REV# | CR.# | DESCRIPTION:

0 | | ISSUED FOR CONSTRUCTION

DATE: 01.MAR.2023

DEALER: COVER-ALL BUILDINGS OF WV, INC.
 P.O. BOX 727
 BRIDGEPORT, WV. 26330

CUSTOMER: WV DIVISION OF HIGHWAYS
 14971 MIDLKAND TRAIL, US 60
 CRAWLEY, WV. 24931

ORDER ID: SO# 10044

PROJECT: ATLAS 24.1
 72L10 x 100'
 12' & 8' oc

DRAWING TITLE: PROJECT LAYOUT

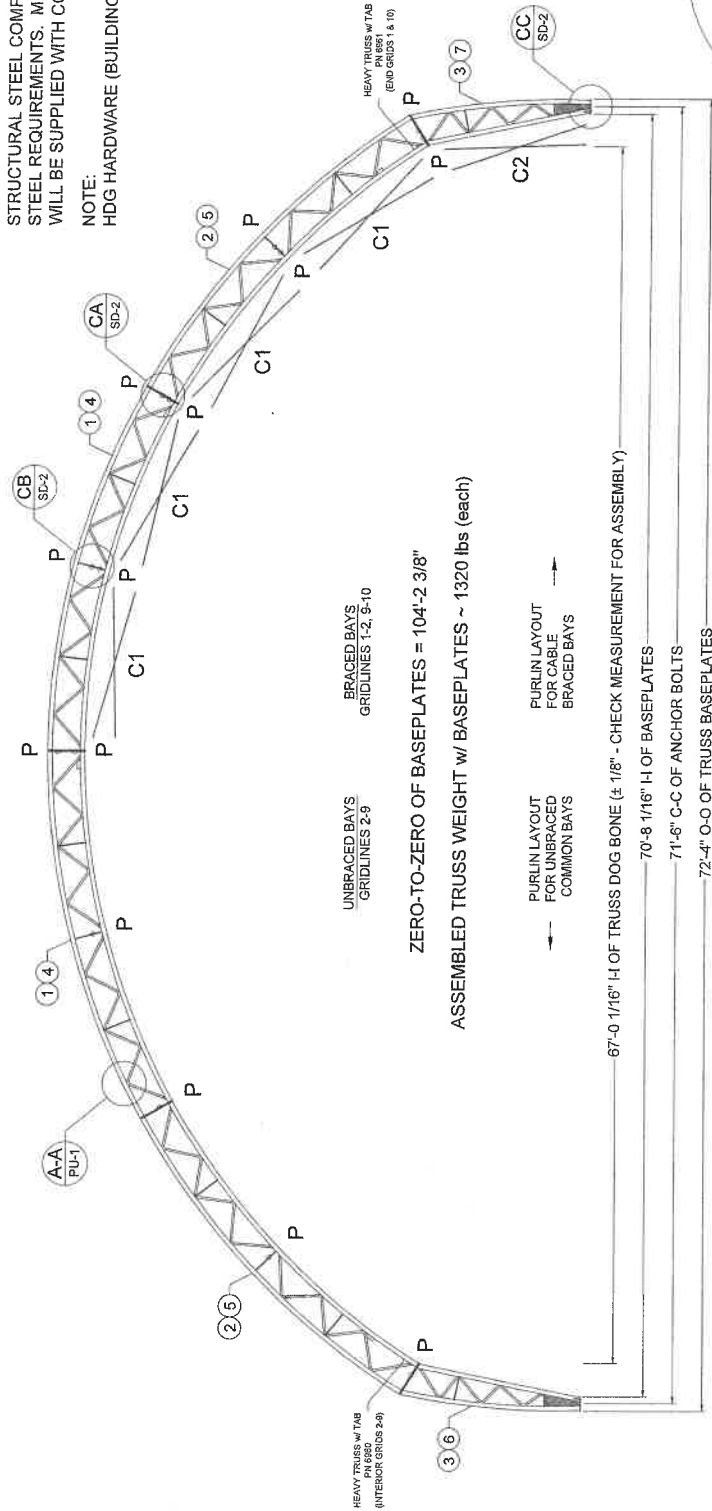
SHEET NUMBER: ISO-1

PAGE NUMBER: 04 / 13



STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)



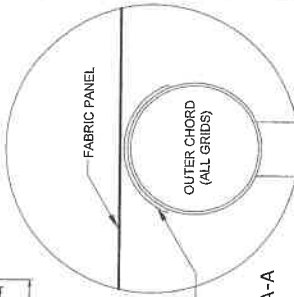
ATLAS 24.1	12 BAY	
72L10	PART #	LENGTH
C1 CABLE	C05TT182G	182'
C2 CABLE	C05TT183G	183'

LOCATION	ITEM #	PART #	QTY.	DESCRIPTION
INTERIOR	1	6959	2	SECTION - A24.1 - 70W72W182W - COMMON
	2	6960	2	SECTION - A24.1 - 65W70W72W182W - HEAVY - COMMON
	3	6327	2	LEG - A24.1 - 65W72W - L10 - COMMON
END	4	6959	2	SECTION - A24.1 - 65W70W72W182W - END
	5	6961	2	SECTION - A24.1 - 65W70W72W182W - HEAVY - END
	6	9044	1	LEG - A24.1 - 65W72W - L10 - LEFT END
	7	9045	1	LEG - A24.1 - 65W72W - L10 - RIGHT END

O/C	I/C	WEB
10GA	10GA	1-1/4" 14GA
10GA	7GA	1-1/4" 14GA
10GA	7GA	1-1/4" 14GA
10GA	10GA	1-1/4" 14GA
10GA	7GA	1-1/4" 14GA
10GA	7GA	1-1/4" 14GA
10GA	7GA	1-1/4" 14GA

ITEM	CABLE LEGEND
CROSS CABLE 5/16"	DESCRIPTION
ITEM	BRACING LEGEND
CROSS CABLE 5/16"	DESCRIPTION
TYPICAL PURLIN - 2-7/8" DIA. X 1/4 GA.	

ATLAS 24.1 - 72L10 WIDE



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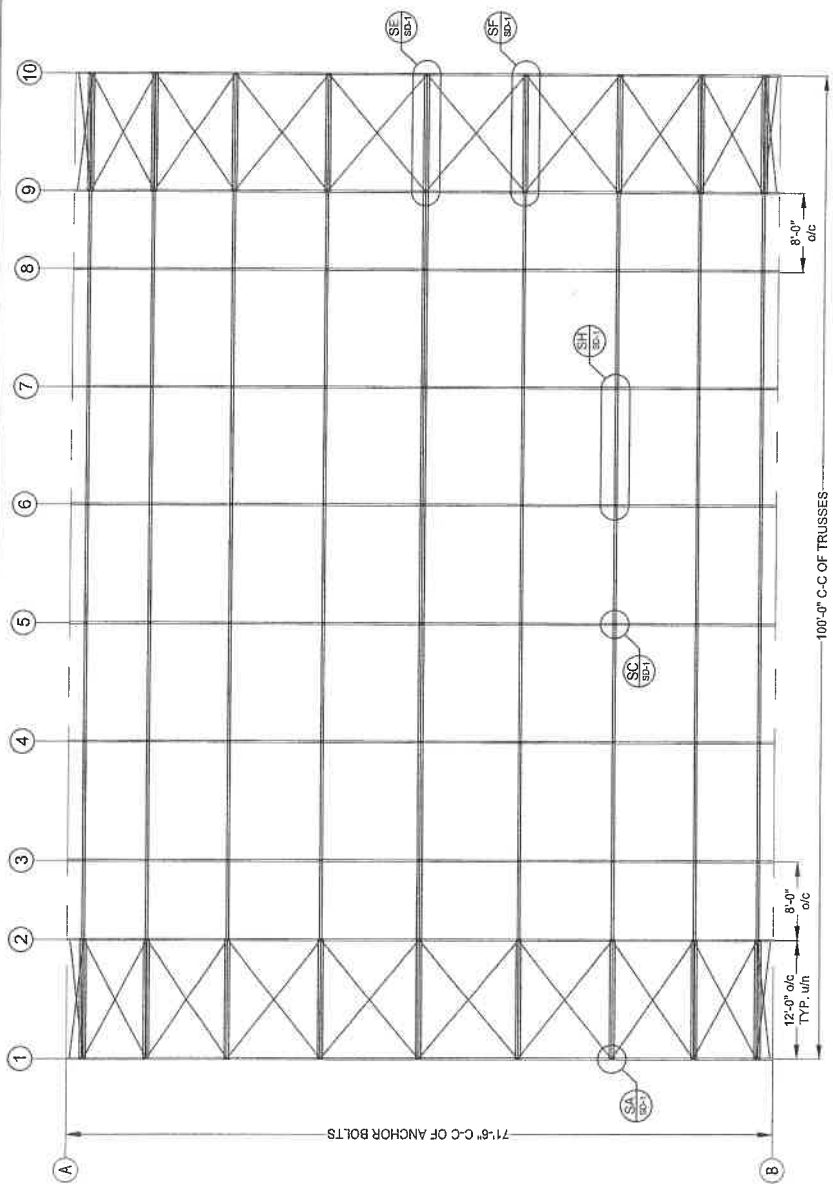
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01 MAR 2023 <td>ISSUED FOR CONSTRUCTION</td>	ISSUED FOR CONSTRUCTION

DEALER	CUSTOMER
COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	WV DIVISION OF HIGHWAYS 14971 MIDLKAND TRAIL, US 60 CRAWLEY, WV, 24931

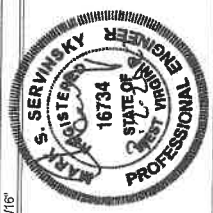
PROJECT:	DRAWING TITLE:
ATLAS 24.1 72L10 X 100' 12' & 8' OC	PURLIN & X-CABLE LAYOUT

ORDER ID:	SHEET NUMBER:
SC# 10044	PU-1
WIDTH-MOUNT-FABRIC	PAGE NUMBER:
72-L-10-220	05 / 13





ITEM	DESCRIPTION
	TYPICAL PURLIN 2-7/8" DIA. X 14 GA.
ITEM	DESCRIPTION
	CROSS CABLE 5/16"



STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDDG HARDWARE (BUILDING & ENDS)

PLAN VIEW
FOR PURLIN DETAILS SEE: SD-1
FOR CABLE DETAILS SEE: SD-2

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REV#	CR#	DESCRIPTION	DATE
0		ISSUED FOR CONSTRUCTION	01.MAR.2023

DEALER:
COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV. 26330

PROJECT:
ATLAS 24.1
72L10 x 100'
12' & 8' o/c

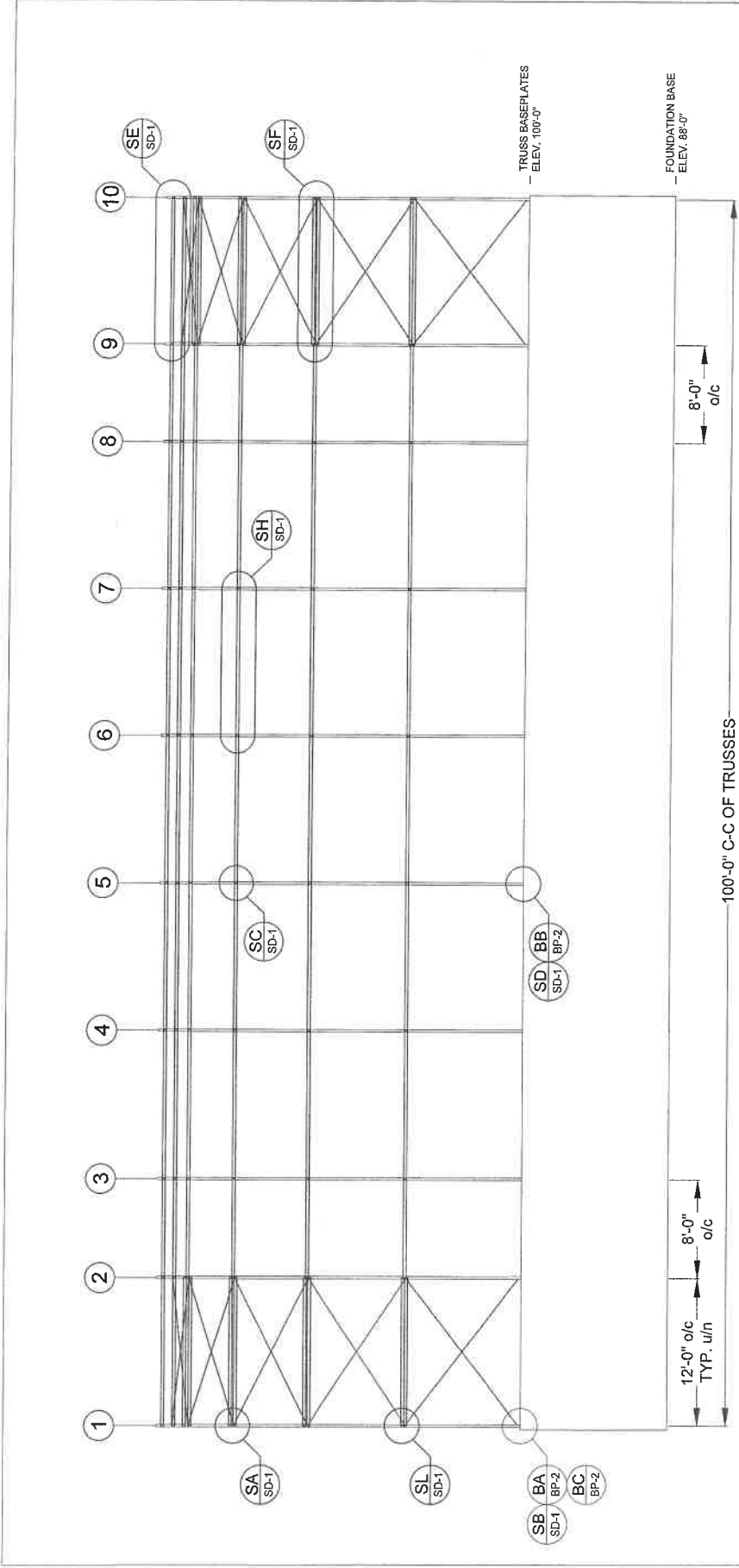
CUSTOMER:
WV DIVISION OF HIGHWAYS
14971 MIDLKAND TRAIL, US 60
CRAWLEY, WV. 24831

ORDER ID:
SO# 10044
WIDTH-MOUNT-FABRIC
72-L-10-220

DRAWING TITLE:
BRACING LAYOUT - PLAN VIEW

SHEET NUMBER:
BR-1

PAGE NUMBER:
06 / 13



STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)

ELEVATION

FOR PURLIN DETAILS SEE: SD-1
FOR CABLE DETAILS SEE: SD-2

FOUNDATION DESIGNED & SUPPLIED BY OTHERS

CABLE LEGEND
ITEM DESCRIPTION
CROSS CABLE 5/16"

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REV#	CR#	DESCRIPTION	DATE	DEALER
0		ISSUED FOR CONSTRUCTION	07/MAR/2023	COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330

PROJECT:	ORDER ID:	DRAWING TITLE:
ATLAS 24.1	SO# 10044	BRACING LAYOUT - ELEVATION
72L10 X 100'	WIDTH/MOUNT-FABRIC	SHEET NUMBER:
12' & 8' OC	72-L-10-220	BR-2
		PAGE NUMBER: 07 /13

WV DIVISION OF HIGHWAYS
14971 MIDLAND TRAIL, US 60
CRAWLEY, WV, 24931

REGISTERED PROFESSIONAL ENGINEER
STATE OF WEST VIRGINIA
16734

MARK S. SERVINSKY

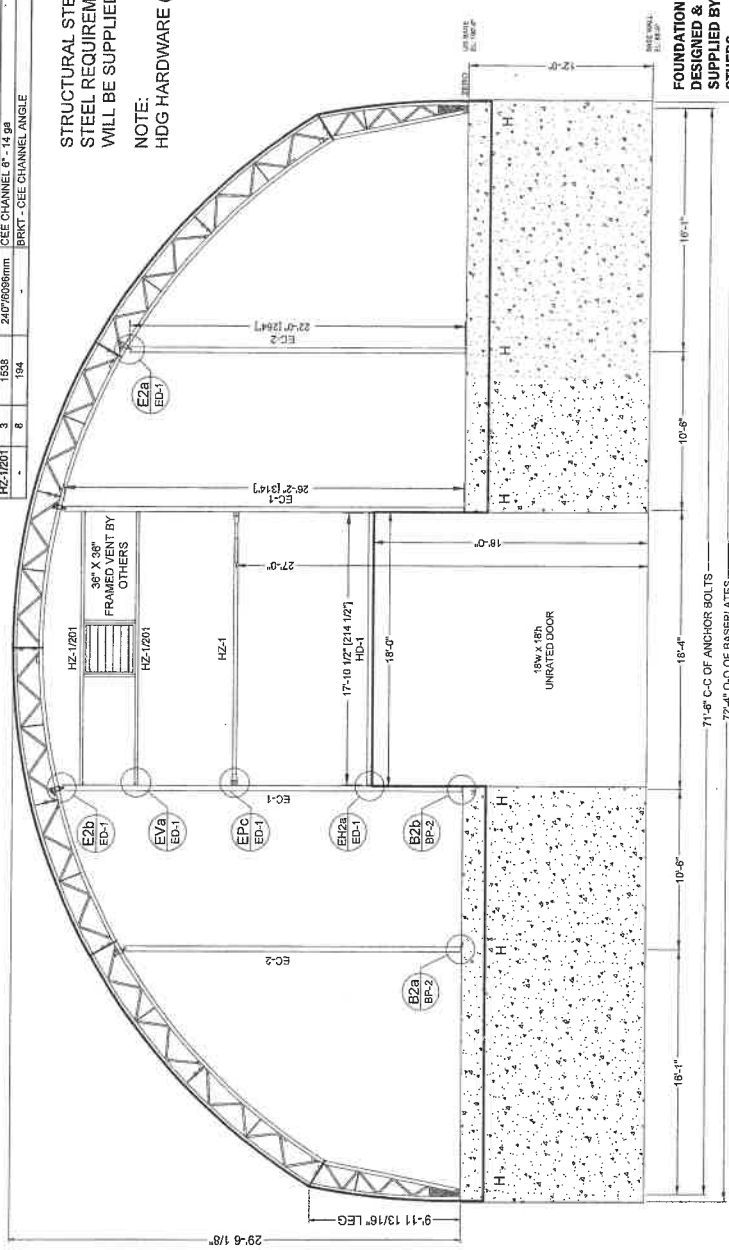
NOTES:

1. END WALL AS VIEWED FROM OUTSIDE
2. "H" DENOTES BLOCK WINCH & STRAP FOR FASTENING TUBE
3. EC VERTICAL LOCATION DIMENSIONS ARE TO THE CENTRELINE OF MEMBERS
4. FIELD DRILL, HSS AS REQUIRED

ITEM#	QTY.	PART #	LENGTH	DESCRIPTION
EC-1	2	2408	314"	HSS- VERTICAL- 4" X 6" X 3/16" - 3" CENTRES
EC-1	2	2408	204"	HSS- VERTICAL- 4" X 6" X 3/16" - 3" CENTRES
-	4	103	-	BRKT- 6" DEEP HSS TOP SADDLE- 2-7/8" CHORD
-	12	2407	-	HEADER/ BASE ANGLE- 4" X 6" HSS - 3" CENTRES
HZ-1	1	1527/1531	39 & 194	1529-39 (Z 1/2 - 14GA) + 1531-194 (Z 7/8 - 14GA) PRE-GALV
HD-1	2	195	214.5"	BRKT- ESS HORIZ. ANGLE
HZ-1/201	1	2409	247/1099mm	HSS- HEADER- 4" X 6" X 3/16" - 3" CENTRES
HZ-1/201	3	1533	-	CEE CHANNEL 6" - 14 ga
-	8	194	-	BRKT- CEE CHANNEL ANGLE

STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)



GRIDLINE 1 - END 1

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REV#	CR #	DESCRIPTION	DATE
0		ISSUED FOR CONSTRUCTION	07/MAR/2023

DEALER:
COVER-ALL BUILDINGS OF WW, INC.
P.O. BOX 727
BRIDGEPORT, WV, 26330

PROJECT:
ATLAS 24.1
72L10 x 100'
12' & 8' OC

CUSTOMER:
WV DIVISION OF HIGHWAYS
14971 MIDLKAND TRAIL, US 60
CRAWLEY, WV, 24931

DRAWING TITLE:
ENDWALL 1 LAYOUT

ORDER ID:
SO# 10044

MATERIAL MOUNT-FABRIC
72-L10-220

SHEET NUMBER:
EW-1

PAGE NUMBER:
08 / 13

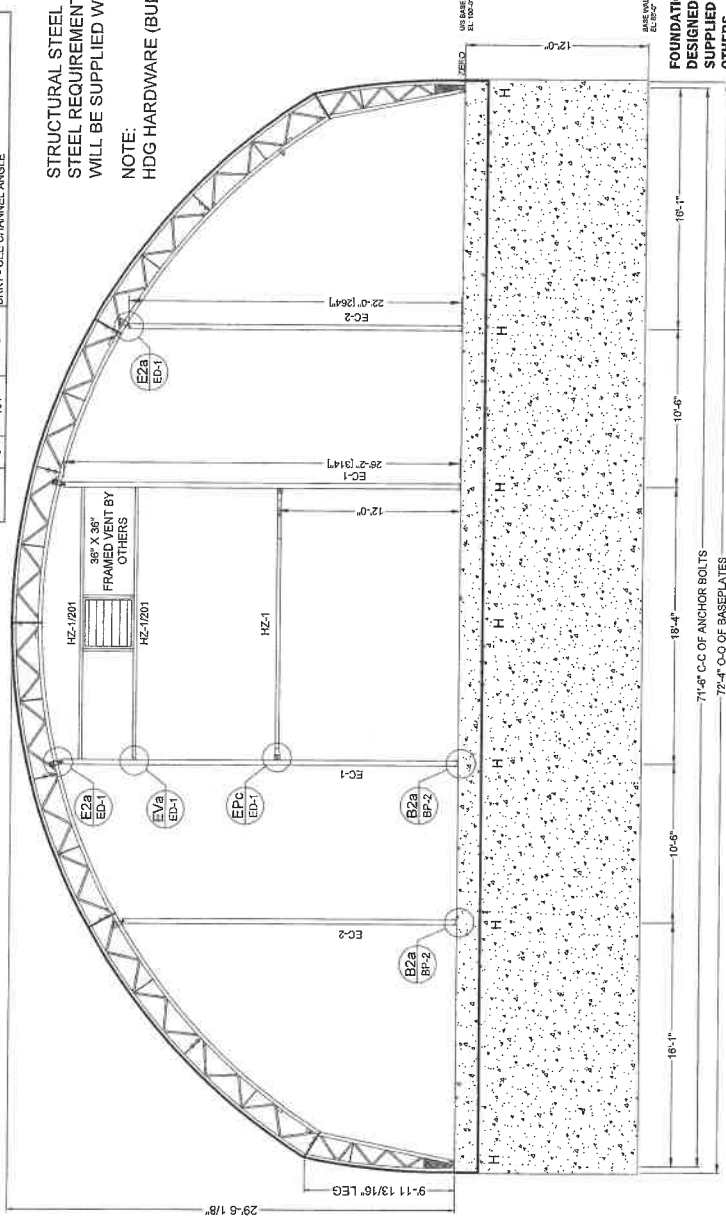


- NOTES:
1. END WALL AS VIEWED FROM OUTSIDE
 2. "H" DENOTES BLOCK WINCH & STRAP FOR FASTENING TUBE
 3. EC VERTICAL LOCATION DIMENSIONS ARE TO THE CENTRELINE OF MEMBERS
 4. FIELD DRILL HSS AS REQUIRED

ITEM #	QTY	PART #	LENGTH	DESCRIPTION
EC-1	2	2408	314"	HSS - VERTICAL - 4" X 6" X 3/16" - 3" CENTRES
EC-2	2	2408	254"	HSS - VERTICAL - 4" X 6" X 3/16" - 3" CENTRES
-	4	152	-	BRKT - 6" DEEP HSS TOP SADDLE - 2-7/8" CHORD
-	8	2407	-	READER'S BASE ANGLE - 4" X 6" HSS - 3" CENTRES
HZ-1	1	1529 / 1531	38 & 194	1529-39 (2 1/2" - 14GA) * 1531-194 (2 7/8" 14GA) PRE-GALV
HZ-1/201	2	185	-	BRKT - ESS HORIZ. ANGLE
-	2	1536	2407/666mm	CHE CHANNEL 6" - 16 ga
-	8	194	-	BRKT - CEE CHANNEL ANGLE

STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)



FOUNDATION
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GRIDLINE 10 - END 2

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REV #	CR #	DESCRIPTION	DATE	DEALER	PROJECT	ORDER ID	DRAWING TITLE	SHEET NUMBER	PAGE NUMBER
0		ISSUED FOR CONSTRUCTION	01 MAR 2023	COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	ATLAS 24.1 72L10 x 100' 12' & 8' oc	SC0# 10044	ENDWALL 2 LAYOUT	EW-2	09 / 13

CUSTOMER:
WV DIVISION OF HIGHWAYS
14971 MIDLKAND TRAIL, US 60
CRAWLEY, WV, 24831

DATE:
01 MAR 2023

PROJECT:
ATLAS 24.1
72L10 x 100'
12' & 8' oc

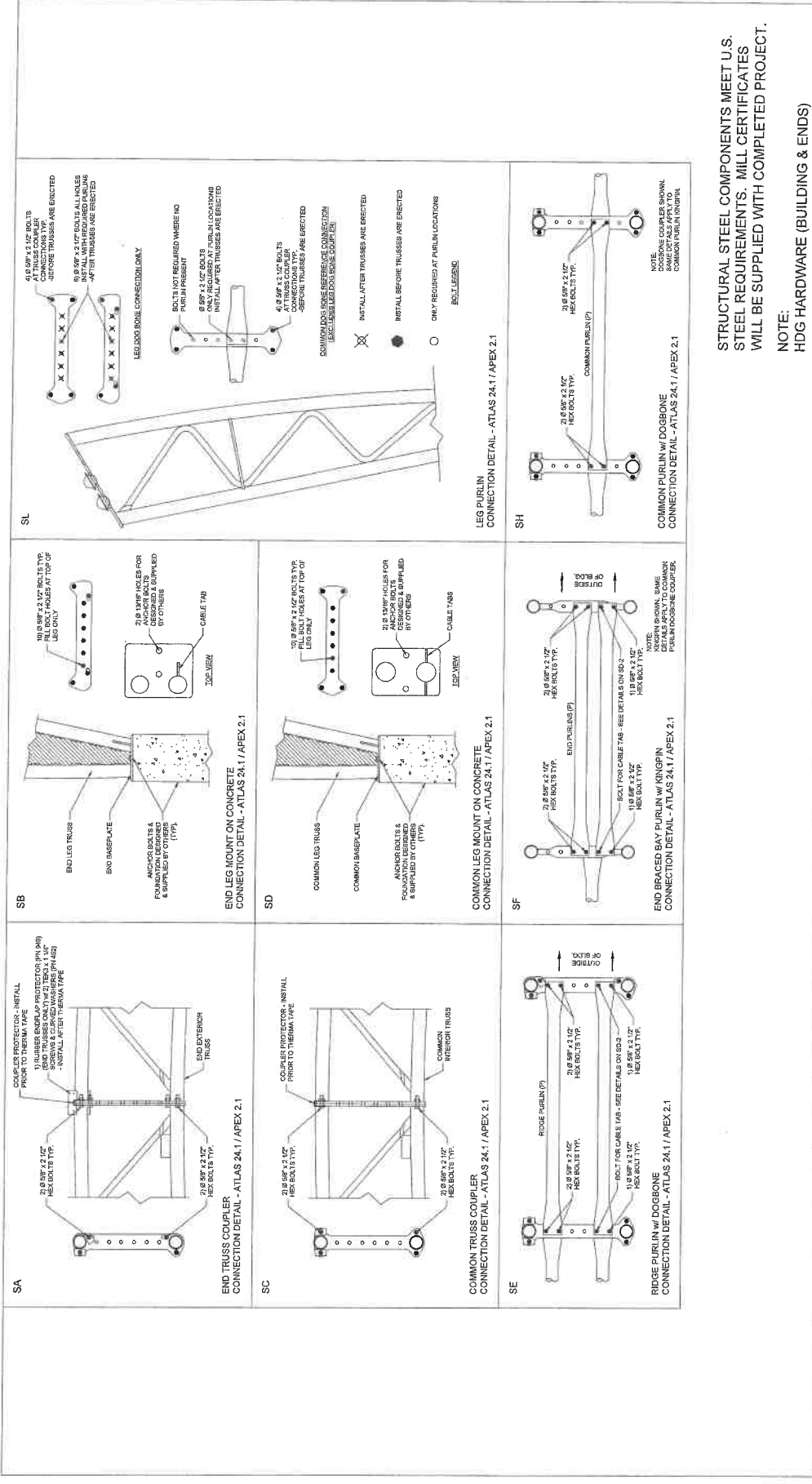
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SC0# 10044

DRAWING TITLE:
ENDWALL 2 LAYOUT

SHEET NUMBER:
EW-2

PAGE NUMBER:
09 / 13





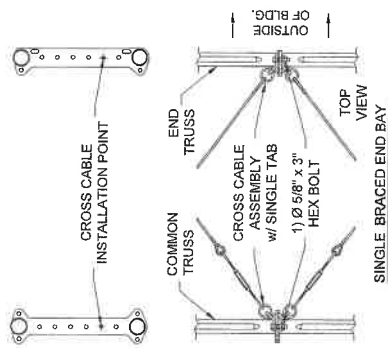
	TF: 800-407-5846 www.britespanbuildings.com	DATE: 01/MAR/2023	DEALER: COVER-ALL BUILDINGS OF WW, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	CUSTOMER: WV DIVISION OF HIGHWAYS 14971 MIDLAND TRAIL, US 60 CRAWLEY, WV, 24931
	DRAWN BY: NLW CHECKED BY: MTD	PROJECT: ATLAS 24.1 72L10 x 100' 12 & 8' OC	ORDER ID: SO# 10044 WIDTH/MOUNT/FABRIC 72-110-220	DRAWING TITLE: STANDARD DETAILS 1 SHEET NUMBER: SD-1



STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

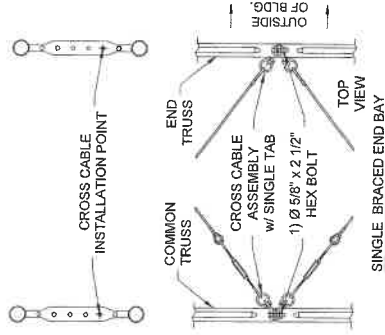
NOTE:
HDG HARDWARE (BUILDING & ENDS)

CA



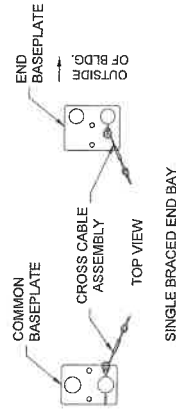
CROSS CABLES AT DOG BONE CONNECTION
DETAILS - ATLAS 24.1 / APEX 2.1

CB



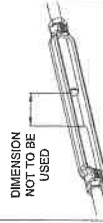
CROSS CABLES AT KINGPIN CONNECTION
DETAILS - ATLAS 24.1 / APEX 2.1

CC



CROSS CABLES AT BASE OF LEG
CONNECTION DETAILS - ATLAS 24.1 / APEX 2.1

NOTE:
INSTALL ALL TURNBUCKLES
AT ONE END FOR EASE OF
INSTALLATION - BOTTOM OF
TRUSS & UP (DOES NOT
APPLY TO LEG CABLES).
DISTANCE IN CENTER OF
TURNBUCKLE VARIES - NOT
TO BE USED FOR
TENSIONED CABLE
MEASUREMENTS.



STRUCTURAL STEEL COMPONENTS MEET U.S.
STEEL REQUIREMENTS. MILL CERTIFICATES
WILL BE SUPPLIED WITH COMPLETED PROJECT.
NOTE:
HDG HARDWARE (BUILDING & ENDS)

NOTE:
REMOVE BENT TAB PRIOR TO
INSTALLATION AT BASE OF LEG
(SHAKE TO BASEPLATE TAB)



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REV #	CR #	DESCRIPTION
0		ISSUED FOR CONSTRUCTION

DATE:
01 MAR 2023

DEALER:
COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV. 26330

PROJECT:
ATLAS 24.1
72L10 x 100'
12' & 8' OC

ORDER ID:
SCH 10044
INSTALLATION FABRIC
72-L10-220

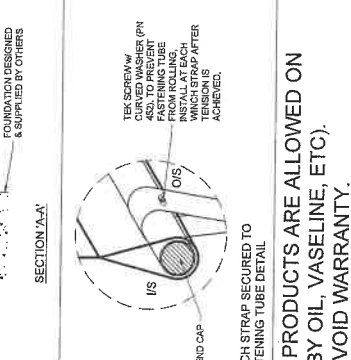
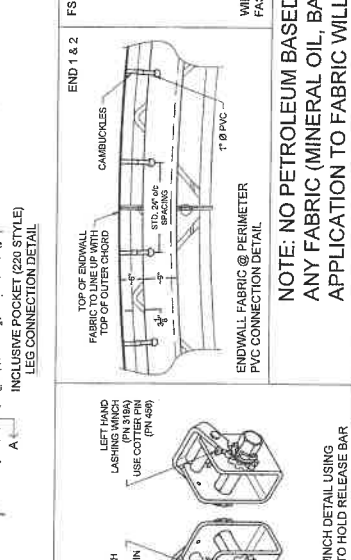
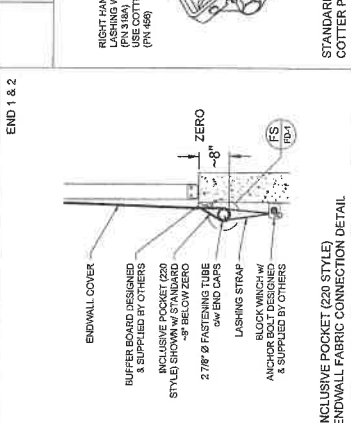
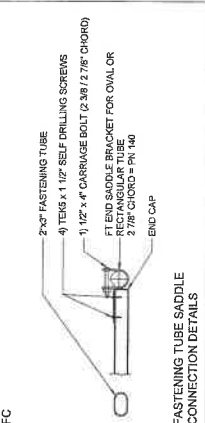
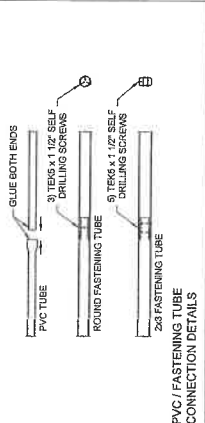
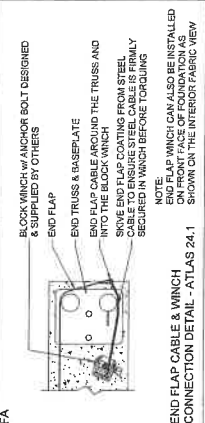
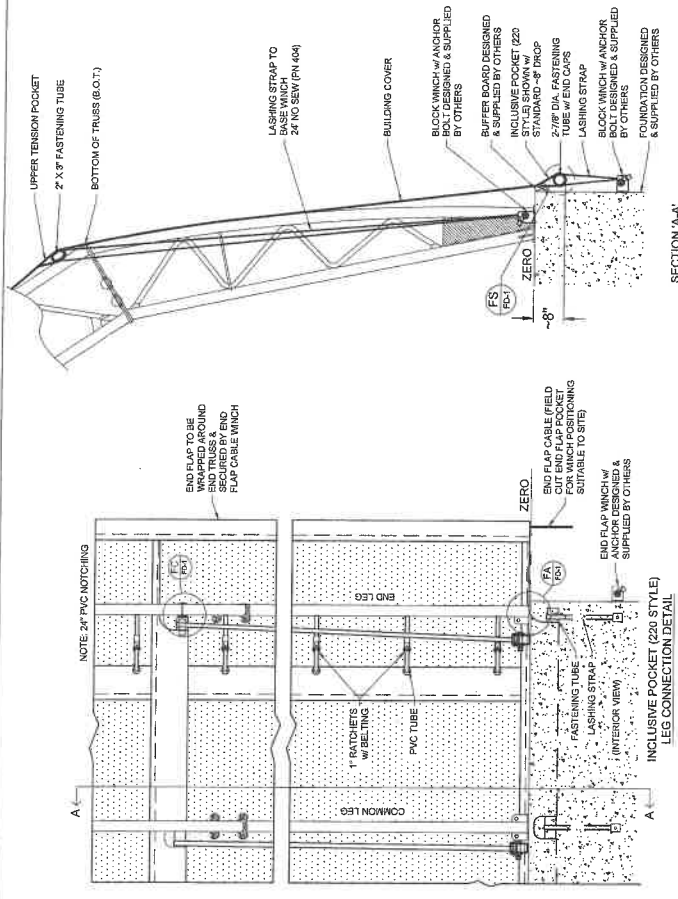
DRAWING TITLE:
STANDARD DETAILS 2
SHEET NUMBER:
SD-2

PAGE NUMBER:
11 / 13

CUSTOMER:
WV DIVISION OF HIGHWAYS
14971 MIDLAND TRAIL, US 60
CRAWLEY, WV. 24931



****IMPORTANT**
PROTECT
FABRIC FROM
CONTACT WITH
ALL SHARP
EDGES**



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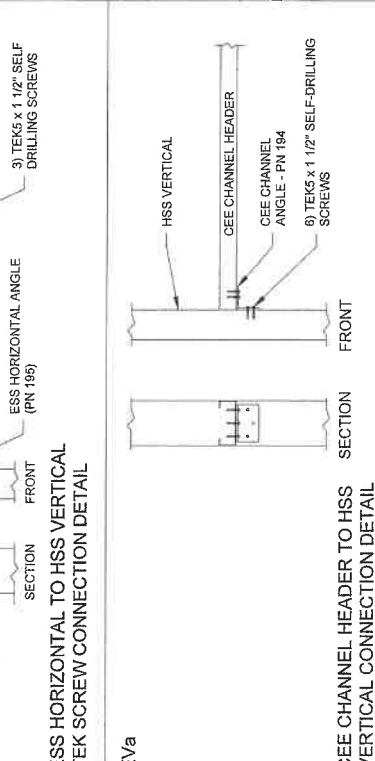
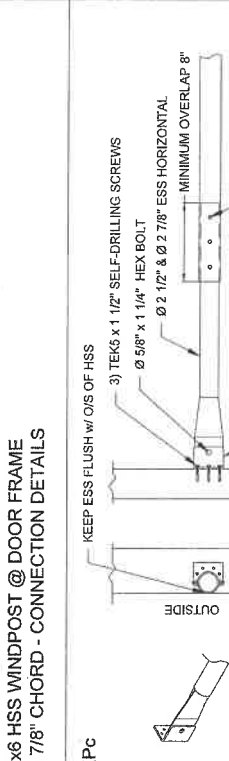
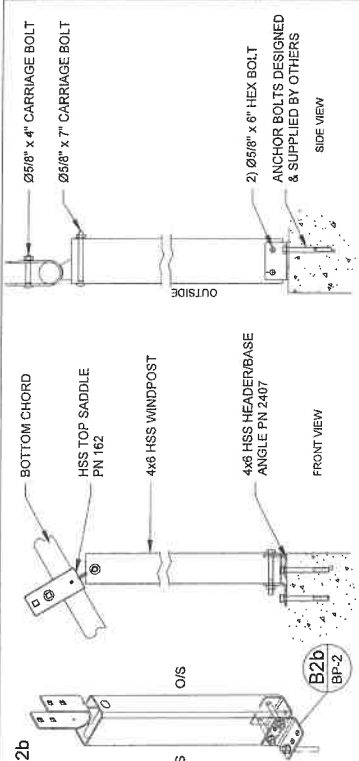
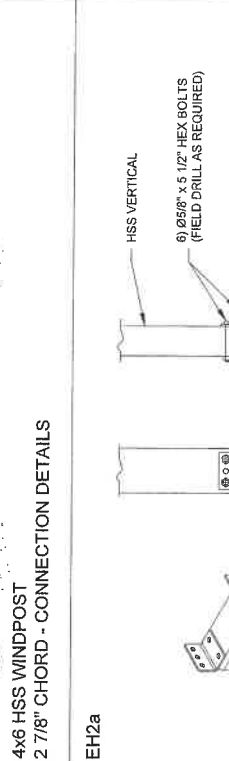
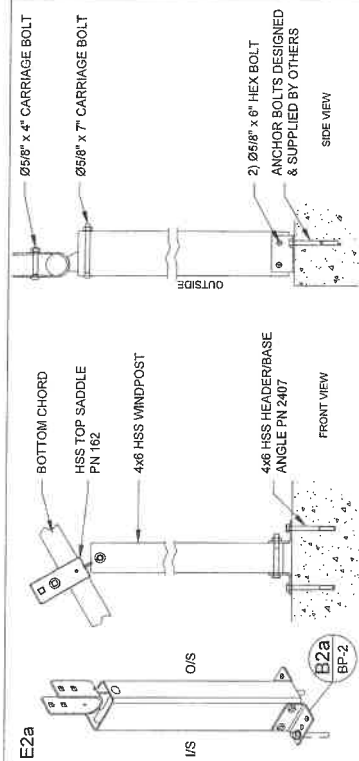
DRAWN BY: NLW
CHECKED BY: MTD

REV #	CR #	DESCRIPTION	DATE
0		ISSUED FOR CONSTRUCTION	01 MAR 2023

DEALER:
COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 737
BRIDGEPORT, WV. 26330

CUSTOMER:
WV DIVISION OF HIGHWAYS
14971 MIDLAND TRAIL, US 60
CRAWLEY, WV. 24931

ORDER ID: SO# 10044	DRAWING TITLE: FABRIC DETAILS 1	PAGE NUMBER: 12 / 13
PROJECT: ATLAS 24.1 72L10 x 100' 12' x 8' oc	SHEET NUMBER: FD-1	



STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)

E2a
4x6 HSS WINDPOST
2 7/8" CHORD - CONNECTION DETAILS

E2b
4x6 HSS WINDPOST @ DOOR FRAME
2 7/8" CHORD - CONNECTION DETAILS

EH2a
4x6 HEADER
CONNECTION DETAIL

EPC
ESS HORIZONTAL TO HSS VERTICAL
TEK SCREW CONNECTION DETAIL

Eva
CEE CHANNEL HEADER TO HSS
VERTICAL CONNECTION DETAIL

DEALER:
COVER-ALL BUILDINGS OF WW, INC.
P.O. BOX 727
BRIDGEPORT, WV. 26330

DATE:
01 MAR 2023

PROJECT:
ATLAS 24.1
72L10 x 100'
12 & 8' oc

ORDER ID:
SC# 10044

DRAWING TITLE:
ENDWALL DETAILS

WIDTH-MOUNT-FABRIC
72-L10-220

SHEET NUMBER:
ED-1

PAGE NUMBER:
13 / 13

Britespan
BUILDING SYSTEMS INC

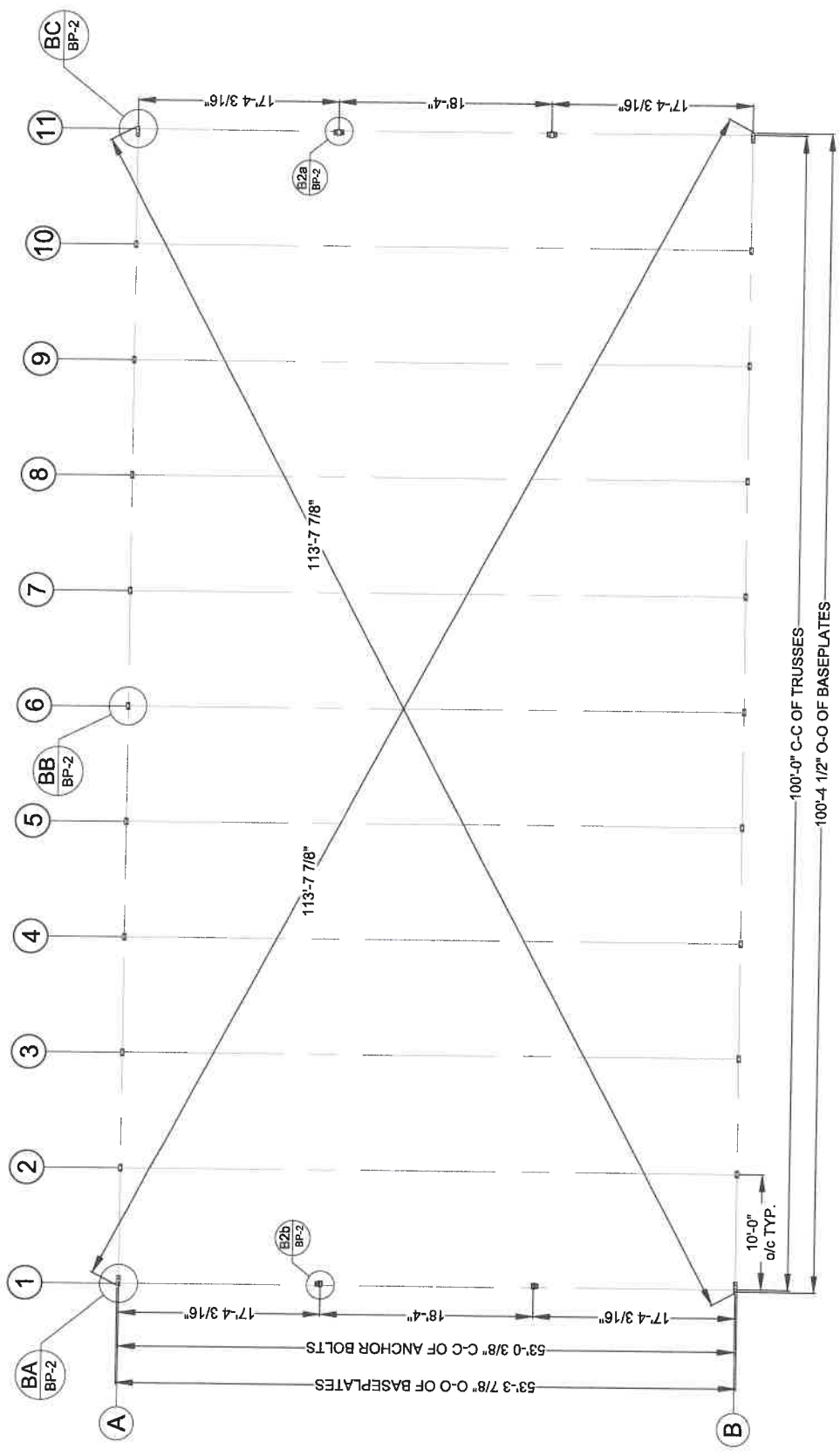
TF: 800-407-8648
www.britespanbuildings.com

DRAWN BY:
NLW

CHECKED BY:
MTD

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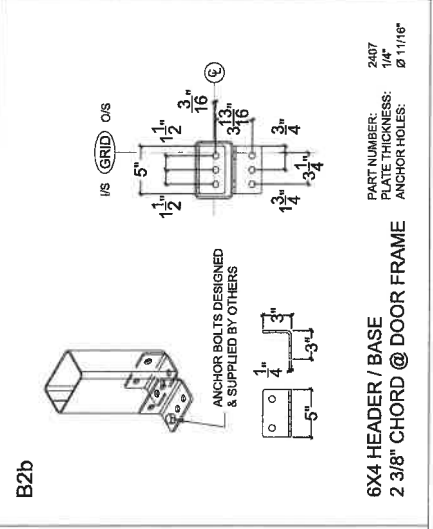
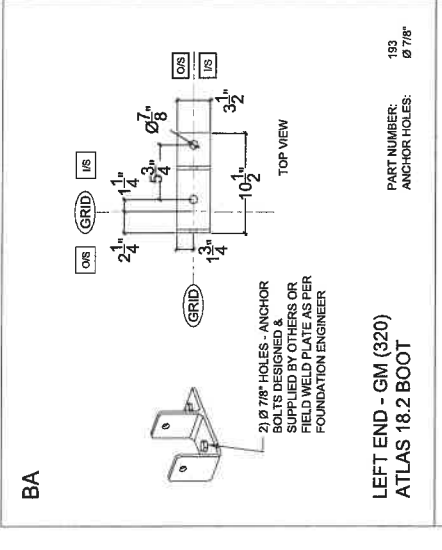
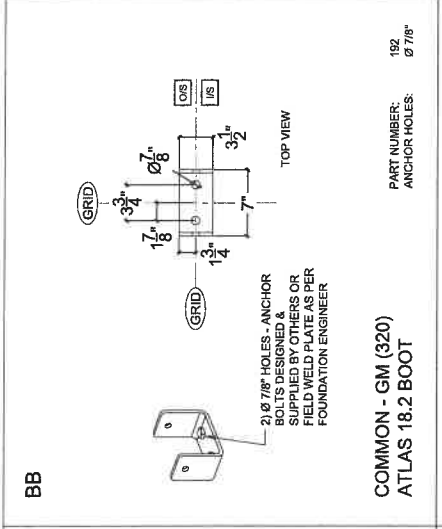
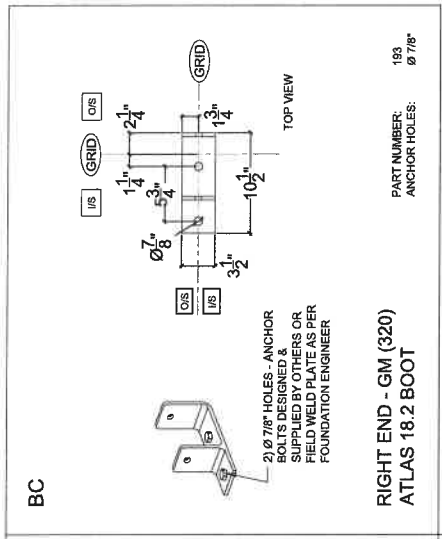
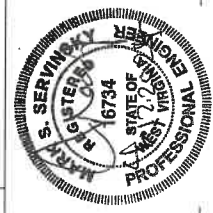
BRITESPAN BUILDING SYSTEMS INC. TF: 800-407-5846 www.britespanbuildings.com	DRAWN BY: NLW	CHECKED BY: JLK	PROJECT: ATLAS 18.2 55GM X 100' 10' OC	ORDER ID: SO# 11081 WIDTH-MOUNT-FABRIC 55-GM-220	DRAWING TITLE: BASEPLATE LAYOUT	SHEET NUMBER: BP-1	PAGE NUMBER: 02 / 13
	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV. 26330	CUSTOMER: WVDOH-COAL FIELDS 1790 ROBERT C BYRD DRIVE BECKLEY, WV. 25891	DATE: 10/APR/2024	DESCRIPTION: ISSUED FOR CONSTRUCTION	REV # CR #	DATE	PROJECT NUMBER: BP-1

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TRUSS ANCHOR NOTES:
 1) BASEPLATES DESIGNED FOR \varnothing 5/8" ANCHORS.
 2) ANCHOR TYPE, EMBEDMENT AND PROJECTION AS DETERMINED BY FOUNDATION ENGINEER.
 3) ALL ANCHORS TO BE SUPPLIED & INSTALLED BY OTHERS.

ENDWALL ANCHOR NOTES:
 1) BASEPLATES DESIGNED FOR TWO \varnothing 5/8" ANCHORS.
 2) ANCHOR TYPE, EMBEDMENT AND PROJECTION AS DETERMINED BY FOUNDATION ENGINEER.
 3) ALL ANCHORS TO BE SUPPLIED & INSTALLED BY OTHERS.

FOUNDATION DESIGNED & SUPPLIED BY OTHERS



DEALER:
COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV. 26330

DATE:
10 APR 2024

DESCRIPTION:
ISSUED FOR CONSTRUCTION

REV # / CR #

0	
---	--

CUSTOMER:
WVDOH-COAL FIELDS
1790 ROBERT C BYRD DRIVE
BECKLEY, WV. 25891

PROJECT:
ATLAS 18.2
55GM x 100'
10' oc

ORDER ID:
SO# 11081
WIDTHxHEIGHTxFAHRC
55-GM-220

DRAWING TITLE:
BASEPLATE DETAILS

SHEET NUMBER:
BP-2

PAGE NUMBER:
03 / 13

BRITESPAN
BUILDING SYSTEMS INC

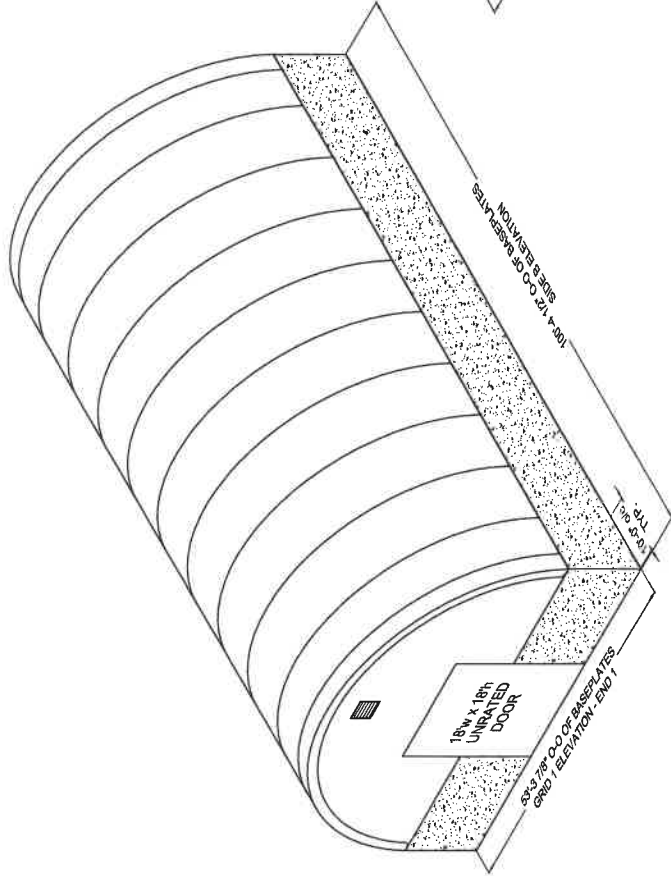
TF: 900-407-8848
www.britespanbuildings.com

DRAWN BY:
NLW

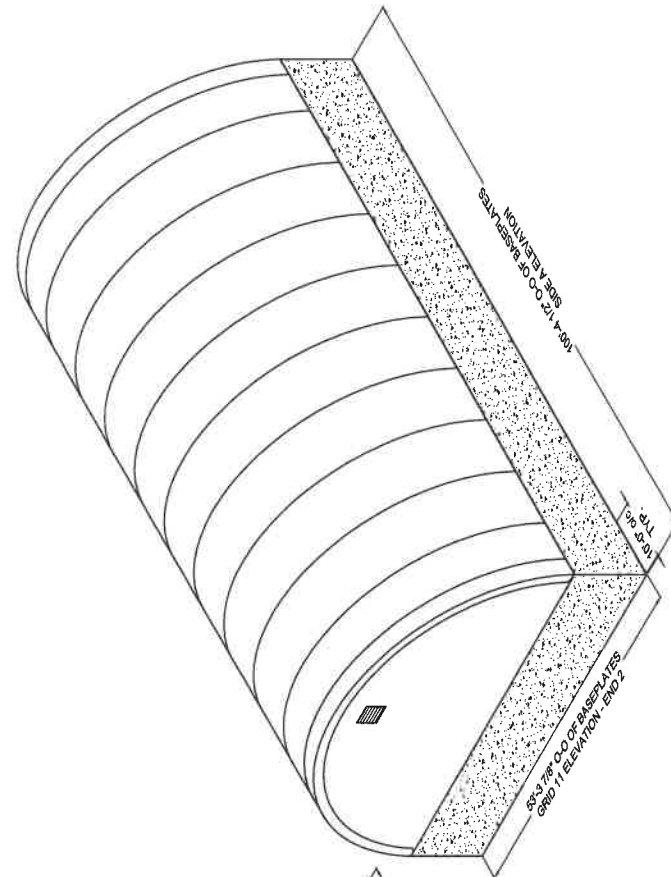
CHECKED BY:
JLK

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NOTE:
 BUILDING IS DESIGNED AS:
 - EXPOSED (Ce = 0.9)
 AND
 - PARTIALLY ENCLOSED



NOTE: ISO VIEW IS FOR VISUAL REPRESENTATION ONLY - NOT TO BE USED FOR CONSTRUCTION PURPOSES. REFER TO PAGES BP-1, BR-1, BR-2 FOR SPECIFIC DETAILS



MAIN COVER: SANDSTONE PE NON-FR
 END FLAPS: GREEN PE NON-FR
 ENDWALLS: SANDSTONE PE NON-FR

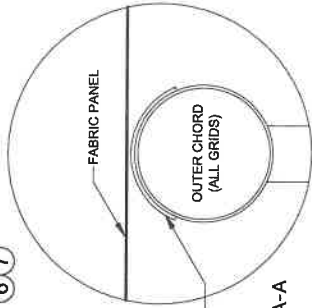
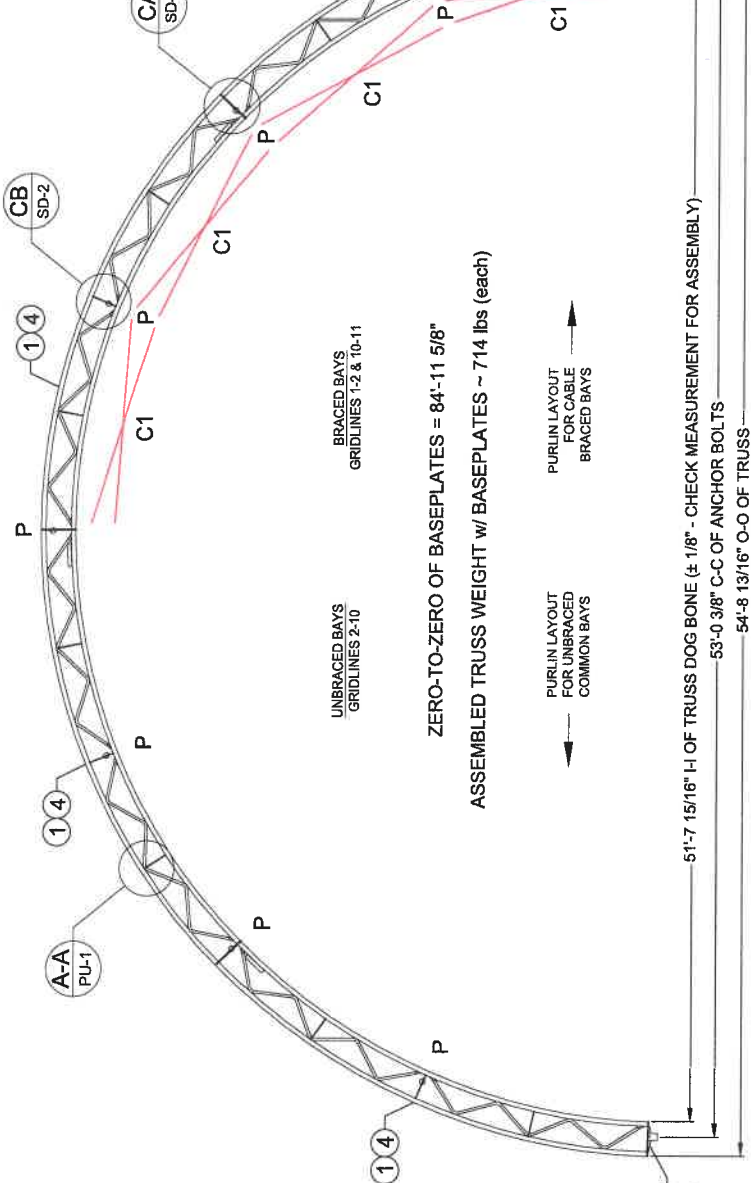
NOTE:
 NO PETROLEUM BASED PRODUCTS ARE ALLOWED ON ANY FABRIC (MINERAL OIL, BABY OIL, VASELINE, ETC). APPLICATION TO FABRIC WILL VOID WARRANTY.
 FOUNDATION DESIGNED & SUPPLIED BY OTHERS

	TF: 800-407-5846 www.britespanbuildings.com	REV # CR # DESCRIPTION: DATE:	ORDER ID: SO# 11081 WIDTH/MATERIAL/FABRIC 55-GM-220	DRAWING TITLE: PROJECT LAYOUT SHEET NUMBER: ISO-1	DRAWN BY: NLW CHECKED BY: JLK	
	DEPARTMENT OF CONSTRUCTION ISSUED FOR CONSTRUCTION 10 APR 2024	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	PROJECT: ATLAS 18.2 55GM x 100' 10' OC	CUSTOMER: WYDOH-COAL FIELDS 1790 ROBERT C BYRD DRIVE BECKLEY, WV, 25891	PAGE NUMBER: 04 / 13	

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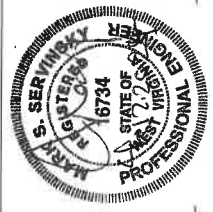
STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)



THERMA TAPE - APPLY GROUND TO GROUND. APPLY ON TOP OF COUPLER PROTECTORS

DETAIL A-A



ATLAS 18.2 55GM	10' BAY	PART #	LENGTH
C1 CABLE	CB51174G		174"

LOCATION	ITEM #	PART #	QTY.	DESCRIPTION	O/C	J/C	WEB
INTERIOR	1	18A5001C1	4	SECTION - ATLAS 18.2 - 50W - COMMON	11GA.	11GA.	1-1/4" 14GA.
	2	2641	2	FULL SWIVEL PLATE - ATLAS 18 - COMMON			
	3	182	2	BOOT - ATLAS 18 - GROUND MOUNT - COMMON			
	4	18A5001E1	4	SECTION - ATLAS 18.2 - 50W - END	11GA.	11GA.	1-1/4" 14GA.
END	5	2642	1	FULL SWIVEL PLATE - ATLAS 18 - LEFT END			
	6	2643	1	FULL SWIVEL PLATE - ATLAS 18 - RIGHT END			
	7	193	2	BOOT - ATLAS 18 - GROUND MOUNT - END			

ITEM	CABLE LEGEND	DESCRIPTION
C	CROSS CABLE 5/16"	
ITEM	BRACING LEGEND	DESCRIPTION
X	CROSS CABLE 5/16"	
P	TYPICAL PURLIN - 2-7/8" DIA. X 14 GA.	

TRUSS COMPONENTS FOR ATLAS 18.2 - 55GM

DEALER: COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV, 26330

DATE: 10/APR/2024

DESCRIPTION: ISSUED FOR CONSTRUCTION

REV # CR # DESCRIPTION: 0

DEALER: COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV, 26330

DATE: 10/APR/2024

DESCRIPTION: ISSUED FOR CONSTRUCTION

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DRAWN BY: NLW
CHECKED BY: JLK

CUSTOMER: WYDOH-COAL FIELDS
1790 ROBERT C BYRD DRIVE
BECKLEY, WV, 25891

DRAWING TITLE: PURLIN & X-CABLE LAYOUT

ORDER ID: SO# 11081

WIDTH-MOUNT-FABRIC: 55-GM-220

SHEET NUMBER: PU-1

PAGE NUMBER: 05 / 13

DEALER: COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV, 26330

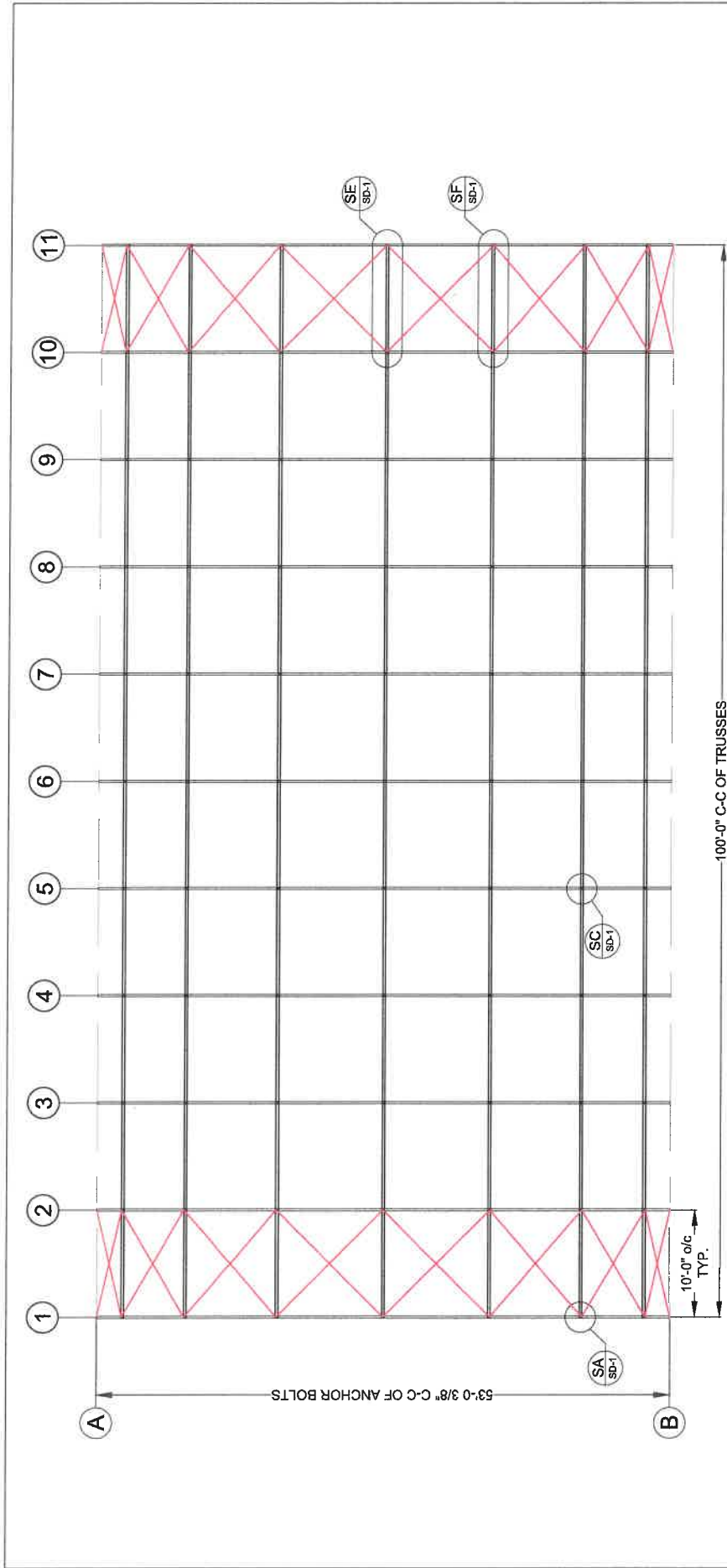
PROJECT: ATLAS 18.2
55GM x 100'
10' OC

DEALER: COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV, 26330

PROJECT: ATLAS 18.2
55GM x 100'
10' OC

DEALER: COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV, 26330

PROJECT: ATLAS 18.2
55GM x 100'
10' OC



STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)

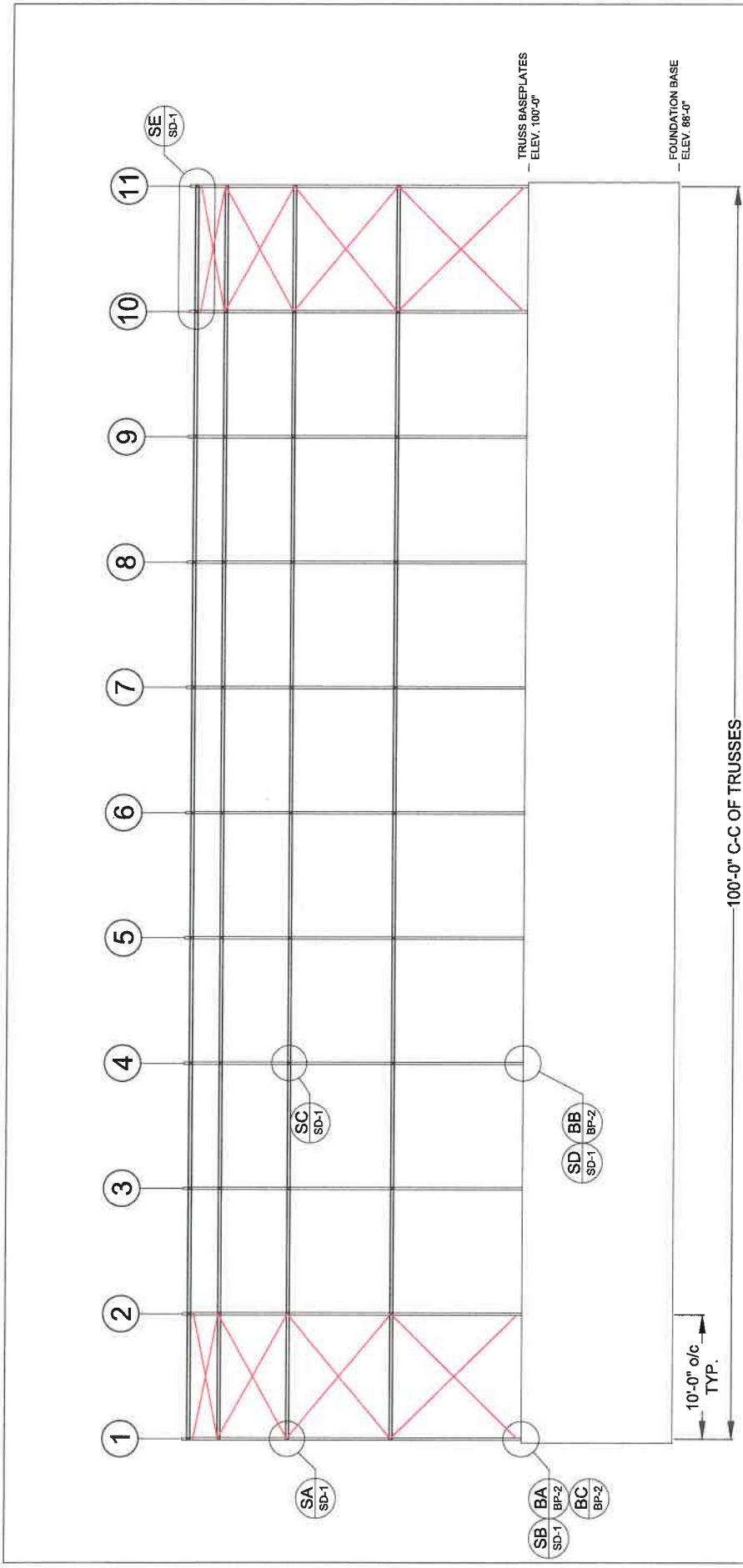
PLAN VIEW

FOR PURLIN DETAILS SEE: SD-1
FOR CABLE DETAILS SEE: SD-2

ITEM	DESCRIPTION
	TYPICAL PURLIN 2-7/8" DIA. X 14 GA.
ITEM	DESCRIPTION
	CROSS CABLE 5/16"



BRITESPAN BUILDING SYSTEMS INC. TF: 800-407-8846 www.britespanbuildings.com	DRAWN BY: NLW	CHECKED BY: JLK	PROJECT: ATLAS 18.2 55GM x 100' 10' OC	ORDER ID: SO# 11081 WIDTH/MOUNT FABRIC 55-GM-220	DRAWING TITLE: BRACING LAYOUT - PLAN VIEW	SHEET NUMBER: BR-1	PAGE NUMBER: 06 /13
	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	DATE: 10.APR.2024	DESCRIPTION: ISSUED FOR CONSTRUCTION	CUSTOMER: WVDOH-COAL FIELDS 1790 ROBERT C BYRD DRIVE BECKLEY, WV, 25891	REV# CR# DESCRIPTION: 0	PURLIN LEGEND DESCRIPTION TYPICAL PURLIN 2-7/8" DIA. X 14 GA.	CABLE LEGEND DESCRIPTION CROSS CABLE 5/16"



STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)

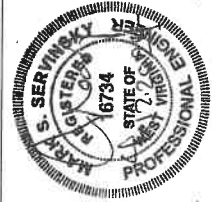
ELEVATION

FOR PURLIN DETAILS SEE: SD-1
FOR CABLE DETAILS SEE: SD-2

FOUNDATION DESIGNED & SUPPLIED BY OTHERS

ITEM	PURLIN LEGEND DESCRIPTION	ITEM	CABLE LEGEND DESCRIPTION
	TYPICAL PURLIN 2-7/8" DIA. X 14 GA.		GROSS CABLE 5/16"

<p>TF: 800-407-6848 www.britespanbuildings.com</p>	<p>DATE: 10/04/2024</p>	<p>DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV. 26330</p>	<p>CUSTOMER: WVDON-COAL FIELDS 1790 ROBERT C BYRD DRIVE BECKLEY, WV. 25891</p>
	<p>REV # CR # DESCRIPTION</p> <p>0 0 ISSUED FOR CONSTRUCTION</p>	<p>PROJECT: ATLAS 18.2 55GM x 100' 10' oc</p>	<p>ORDER ID: SO# 11081 WIDTH-MOUNT-FABRIC 55-GM-220</p>
<p>DRAWN BY: NLW CHECKED BY: JLK</p>	<p>THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE EXPRESSED WRITTEN PERMISSION OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.</p>		



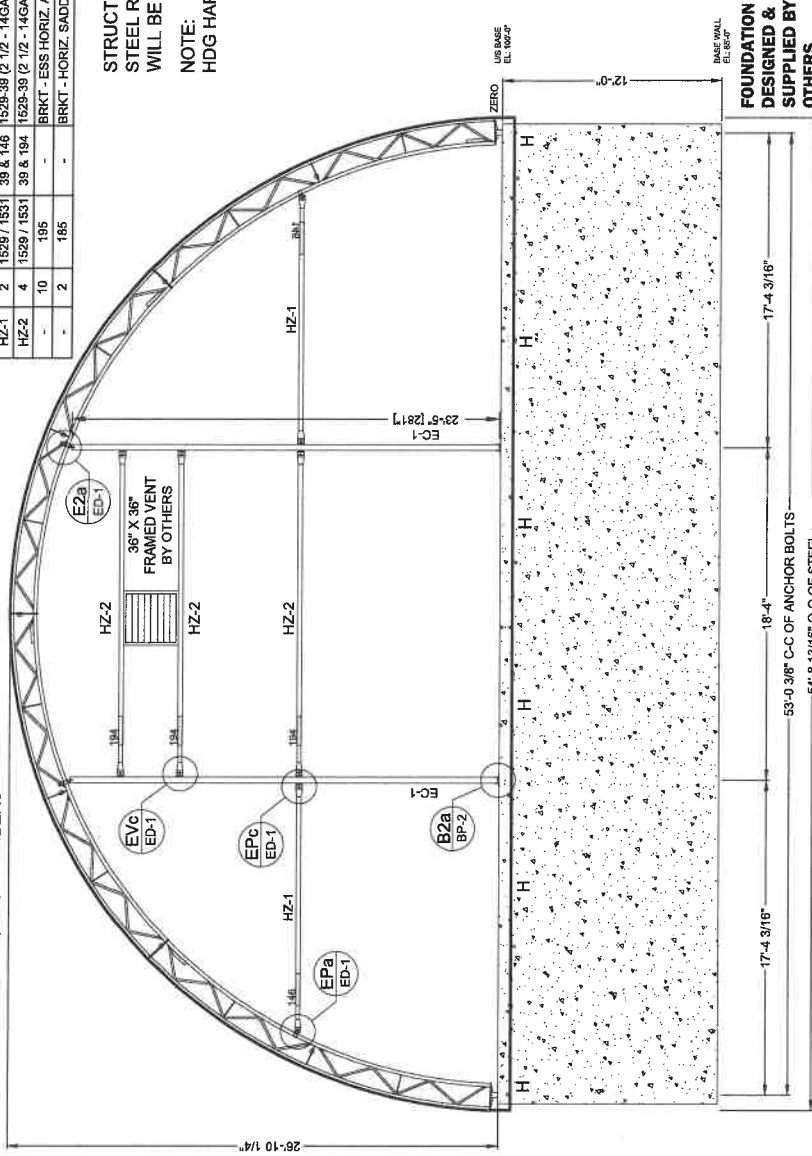
NOTES:

1. ENDWALL AS VIEWED FROM OUTSIDE
2. "H" DENOTES BLOCK WINCH & STRAP FOR FASTENING TUBE
3. EC VERTICAL LOCATION DIMENSIONS ARE TO THE CENTRELINE OF MEMBERS
4. FIELD DRILL HSS AS REQUIRED

ITEM #	QTY.	PART #	LENGTH	DESCRIPTION
EC-1	2	2408	281"	HSS - VERTICAL - 4" X 6" X 3/16" - 3" CENTRES
-	2	161	-	BRKT - 6" DEEP HSS TOP SADDLE - 2-3/8" CHORD
-	4	2407	-	HEADER/BASE ANGLE - 4" X 6" HSS - 3" CENTRES
HZ-1	2	1529 / 1531	39 & 146	1529-39 (2 1/2" - 14GA) + 1531-146 (2 7/8" - 14GA) PRE-GALV
HZ-2	4	1529 / 1531	39 & 194	1529-39 (2 1/2" - 14GA) + 1531-194 (2 7/8" - 14GA) PRE-GALV
-	10	195	-	BRKT - ESS HORIZ. ANGLE
-	2	185	-	BRKT - HORIZ. SADDLE WITH TAB - 2 7/8" CHORD

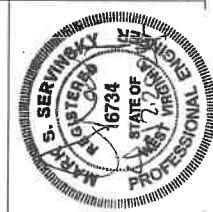
STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)



FOUNDATION
DESIGNED &
SUPPLIED BY
OTHERS

GRIDLINE 11 - END 2



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NLW

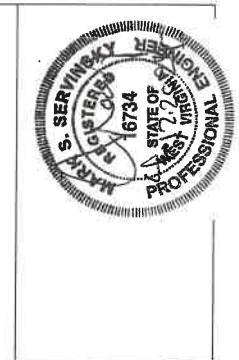
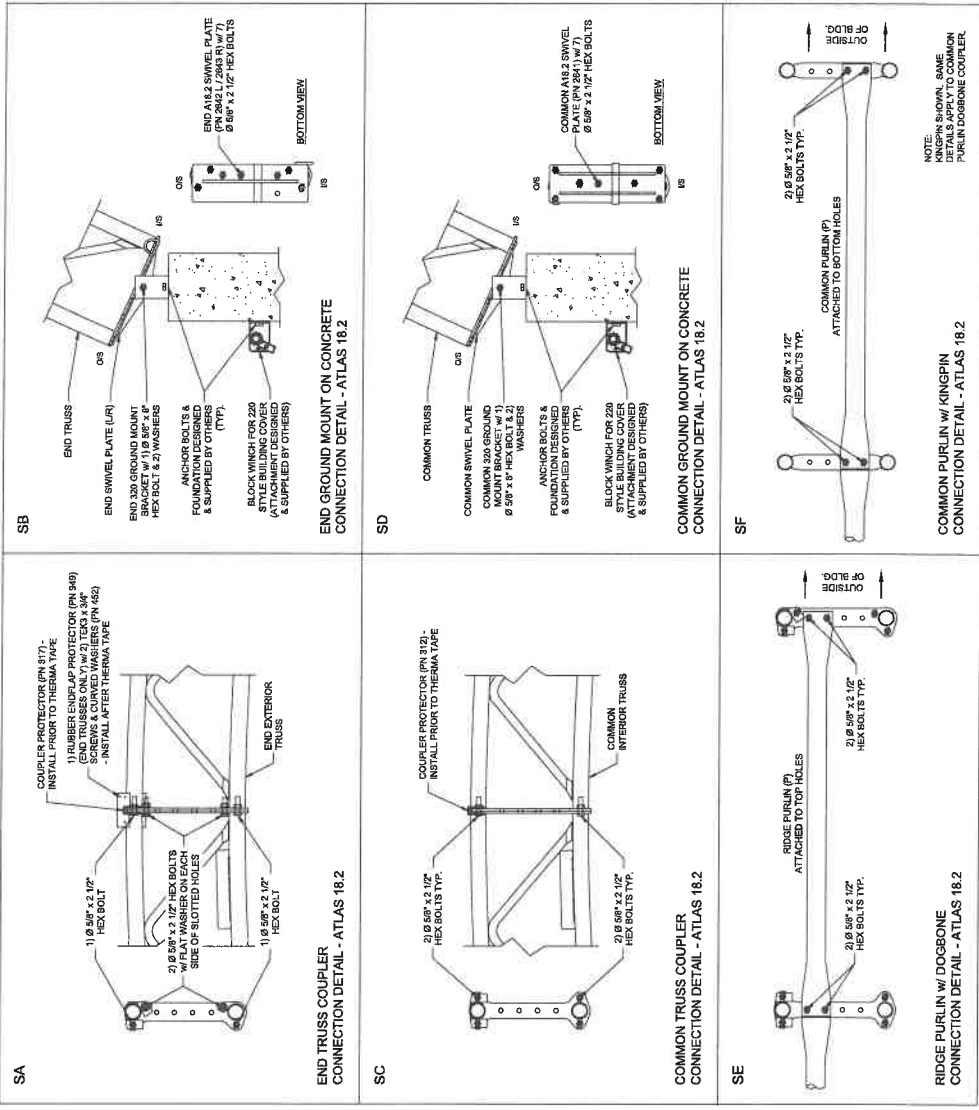
CHECKED BY:
JLK

REV #	CR #	DESCRIPTION	DATE	DEALER	CUSTOMER
0		ISSUED FOR CONSTRUCTION	10/04/2024	COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV. 26330	WVDOH-COAL FIELDS 1790 ROBERT C BYRD DRIVE BECKLEY, WV. 25891

ORDER ID:	DRAWING TITLE:	PAGE NUMBER:
SO# 11081	ENDWALL 2 LAYOUT	09 / 13
WIDTH/MOUNT-FABRIC	SHEET NUMBER:	
55-GM-220	EW-2	

STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)



BRITESPAN
BUILDING SYSTEMS INC

TF: 800-407-6846
www.britespanbuildings.com

DATE: 10.APR.2024

DESCRIPTION: ISSUED FOR CONSTRUCTION

REV # CR #

0

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CUSTOMER:
WVDOH-COAL FIELDS
1790 ROBERT C BYRD DRIVE
BECKLEY, WV 25891

ORDER ID: SO# 11081
WITH-MOUNT-FABRIC
55-GM-220

DRAWING TITLE: STANDARD DETAILS 1
PAGE NUMBER: 10 / 13
SHEET NUMBER: SD-1

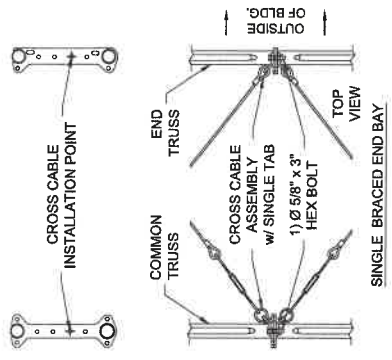
DEALER:
COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV 26330

PROJECT:
ATLAS 18.2
55GM x 100'
10' OC

DEALER:
COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV 26330

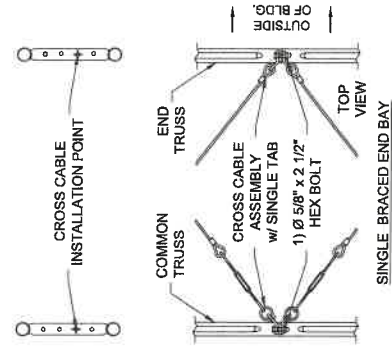
PROJECT:
ATLAS 18.2
55GM x 100'
10' OC

CA



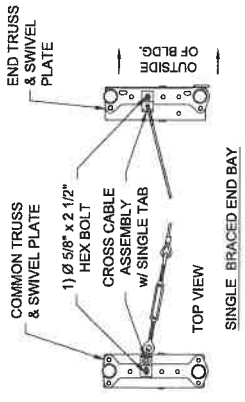
CROSS CABLES AT DOG BONE CONNECTION
DETAILS - ATLAS 18.2

CB



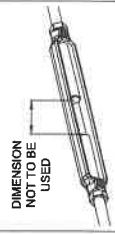
CROSS CABLES AT KINGPIN CONNECTION
DETAILS - ATLAS 18.2

CC



CROSS CABLES AT SWIVEL PLATE
CONNECTION DETAILS - ATLAS 18.2

NOTE:
INSTALL ALL TURNBUCKLES
AT ONE END FOR EASE OF
INSTALLATION - BOTTOM OF
TRUSS & UP (DOES NOT
APPLY TO LEG CABLES).
DISTANCE IN CENTER OF
TURNBUCKLE VARIES - NOT
TO BE USED FOR
TENSIONED CABLE
MEASUREMENTS.



STRUCTURAL STEEL COMPONENTS MEET U.S.
STEEL REQUIREMENTS. MILL CERTIFICATES
WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)

Britespan
BUILDING SYSTEMS INC

TF: 800-407-5846
www.britespanbuildings.com

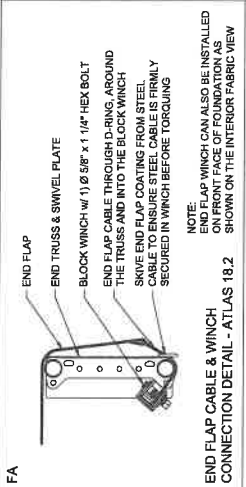
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DRAWN BY: NLW
CHECKED BY: JLK

REV #	CR #	DESCRIPTION:	DATE:	DEALER:	PROJECT:
0		ISSUED FOR CONSTRUCTION	10.APR.2024	COVER-ALL BUILDINGS OF WY, INC. P.O. BOX 727 BRIDGEPORT, WY. 26330	ATLAS 18.2 55GM x 100' 10' OC

CUSTOMER:	ORDER ID:	DRAWING TITLE:	SHEET NUMBER:	PAGE NUMBER:
WVDOH-COAL FIELDS 1790 ROBERT C BYRD DRIVE BECKLEY, WV, 25891	SO# 11081 WIDTH/AUGT-FABRIC 55-GM-220	STANDARD DETAILS 2	SD-2	11 /13



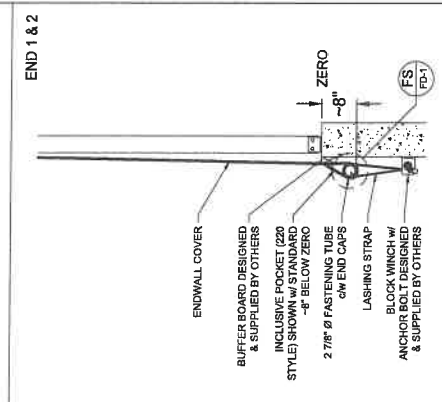
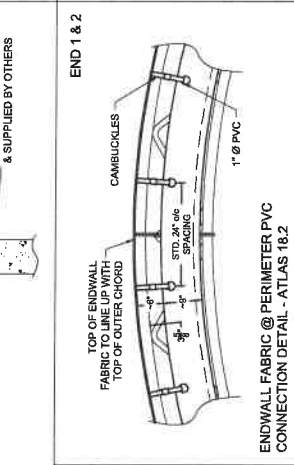
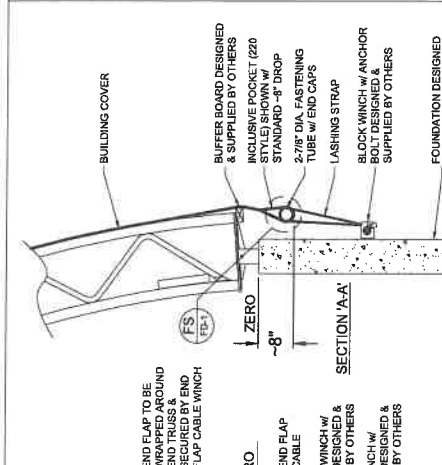
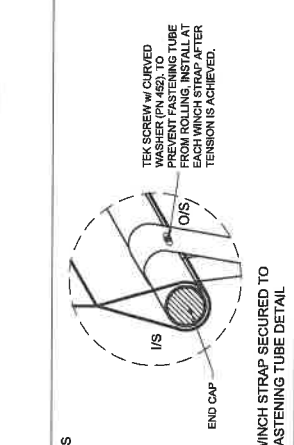
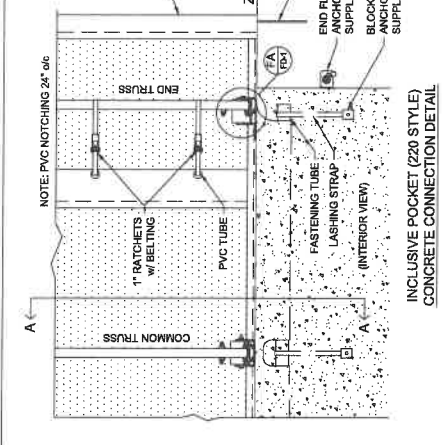
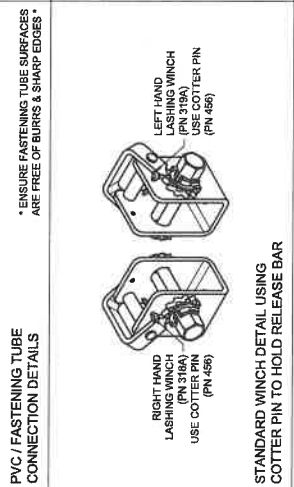


NOTE:
END FLAP WINCH CAN ALSO BE INSTALLED ON FRONT FACE OF FOUNDATION AS SHOWN ON THE INTERIOR FABRIC VIEW

END FLAP CABLE & WINCH CONNECTION DETAIL - ATLAS 18.2

PVC / FASTENING TUBE CONNECTION DETAILS

* ENSURE FASTENING TUBE SURFACES ARE FREE OF BURRS & SHARP EDGES *



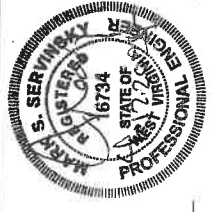
NOTE:
NO PETROLEUM BASED PRODUCTS ARE ALLOWED ON ANY FABRIC (MINERAL OIL, BABY OIL, VASELINE, ETC). APPLICATION TO FABRIC WILL VOID WARRANTY.

STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

NOTE:
HDG HARDWARE (BUILDING & ENDS)

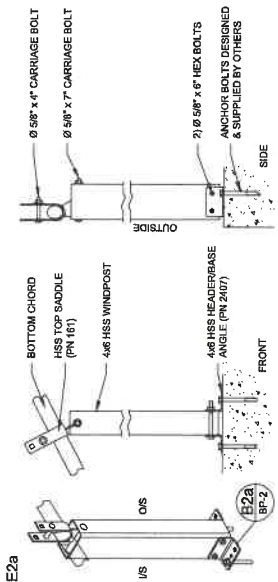
****IMPORTANT****
PROTECT FABRIC FROM CONTACT WITH ALL SHARP EDGES

<p>TF: 800-407-5846 www.britespanbuildings.com</p>	REV#	CR #	DESCRIPTION	DATE	DEALER	CUSTOMER
	0		ISSUED FOR CONSTRUCTION	10/APR/2024	COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV. 26330	WVDOH-COAL FIELDS 1790 ROBERT C BYRD DRIVE BECKLEY, WV. 25891
<p>THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.</p>	DRAWN BY:		ORDER ID:		DRAWING TITLE:	
	NLW		SO# 11081		FABRIC DETAILS 1	
CHECKED BY:		WIDTH-MOUNT FABRIC		PAGE NUMBER:		/13
JLK		55-GM-220		FD-1		12

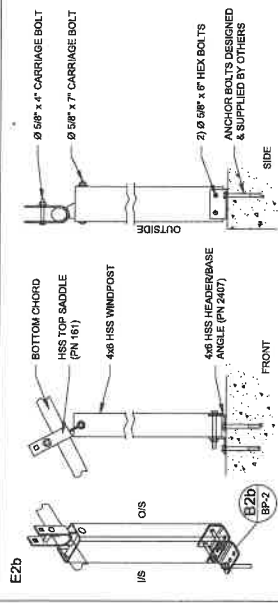


STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

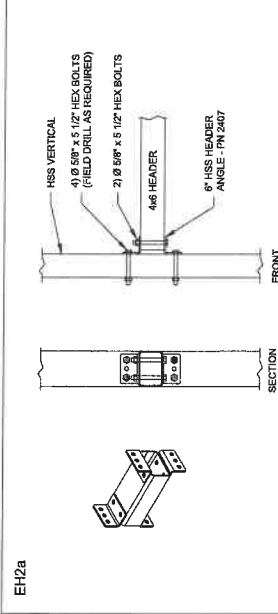
NOTE:
HDG HARDWARE (BUILDING & ENDS)



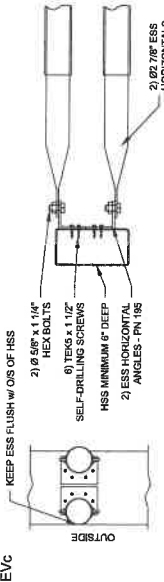
E2a
4x6 HSS WINDPOST
2 3/8" CHORD - CONNECTION DETAILS



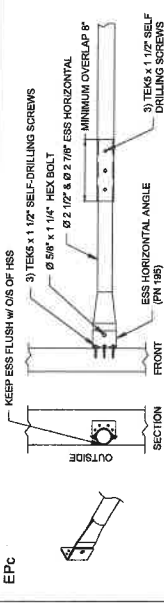
E2b
4x6 HSS WINDPOST @ DOOR FRAME
2 3/8" CHORD - CONNECTION DETAILS



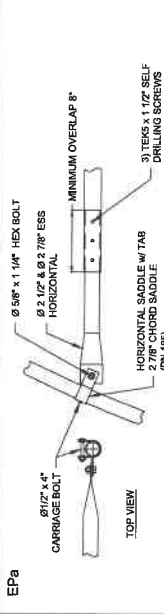
E42a
4x6 HEADER
CONNECTION DETAIL



E1c
DOUBLE ESS HORIZONTAL VENT
FRAME CONNECTION DETAIL



E1p
ESS HORIZONTAL TO HSS VERTICAL
TEK SCREW CONNECTION DETAIL

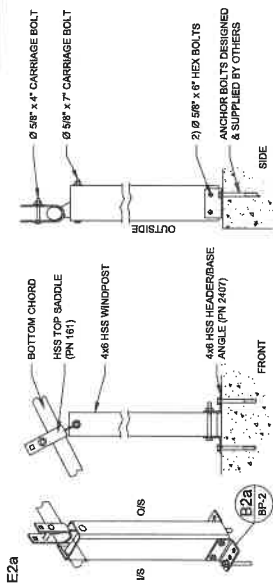


E1Pa
ESS HORIZONTAL TO TRUSS
2 3/8" CHORD - CONNECTION DETAIL

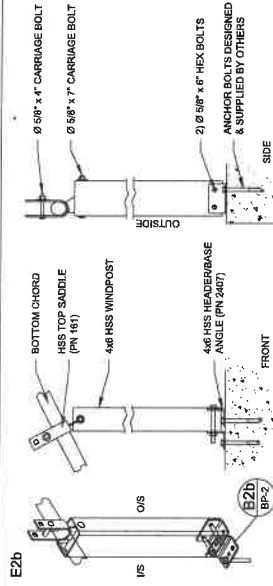
	TF: 800-407-5646 www.britespanbuildings.com	REV# CR # DESCRIPTION: ISSUED FOR CONSTRUCTION 0	DATE: 10 APR 2024	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV. 26330	CUSTOMER: WYDOH-COAL FIELDS 1790 ROBERT C BYRD DRIVE BECKLEY, WV. 25891
	DRAWN BY: NLW CHECKED BY: JLK	ORDER ID: SO# 11081 WITH AMOUNT FABRIC 55-GM-220	DRAWING TITLE: ENDWALL DETAILS SHEET NUMBER: ED-1 PAGE NUMBER: 13 / 13		

STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

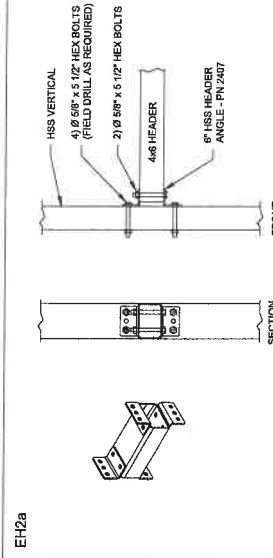
NOTE:
HDG HARDWARE (BUILDING & ENDS)



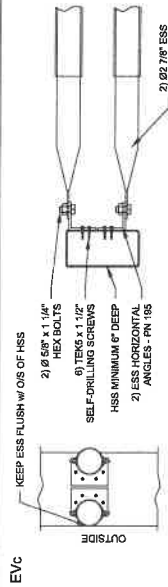
E2a
4x6 HSS WINDPOST @ DOOR FRAME
2 3/8" CHORD - CONNECTION DETAILS



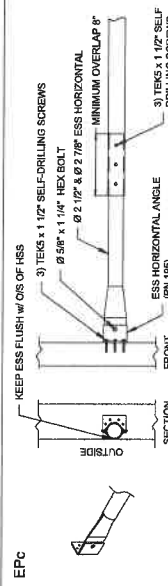
E2b
4x6 HSS WINDPOST @ DOOR FRAME
2 3/8" CHORD - CONNECTION DETAILS



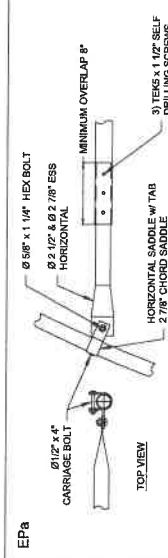
E2c
4x6 HEADER
CONNECTION DETAIL



E3a
DOUBLE ESS HORIZONTAL VENT
FRAME CONNECTION DETAIL



E3b
ESS HORIZONTAL TO HSS VERTICAL
TEK SCREW CONNECTION DETAIL



E3c
ESS HORIZONTAL TO TRUSS
2 3/8" CHORD - CONNECTION DETAIL



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DRAWN BY:
NLW
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JLK

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DATE:
10/04/2024

DEALER:
COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV. 26330

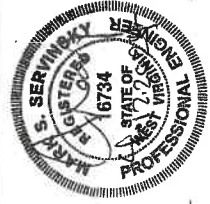
CUSTOMER:
WVDOH-COAL FIELDS
1790 ROBERT C BYRD DRIVE
BECKLEY, WV. 25891

ORDER ID:
SO# 11081
WIDTH-MOUNT-FABRIC
55-GM-220

DRAWING TITLE:
ENDWALL DETAILS

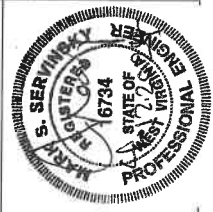
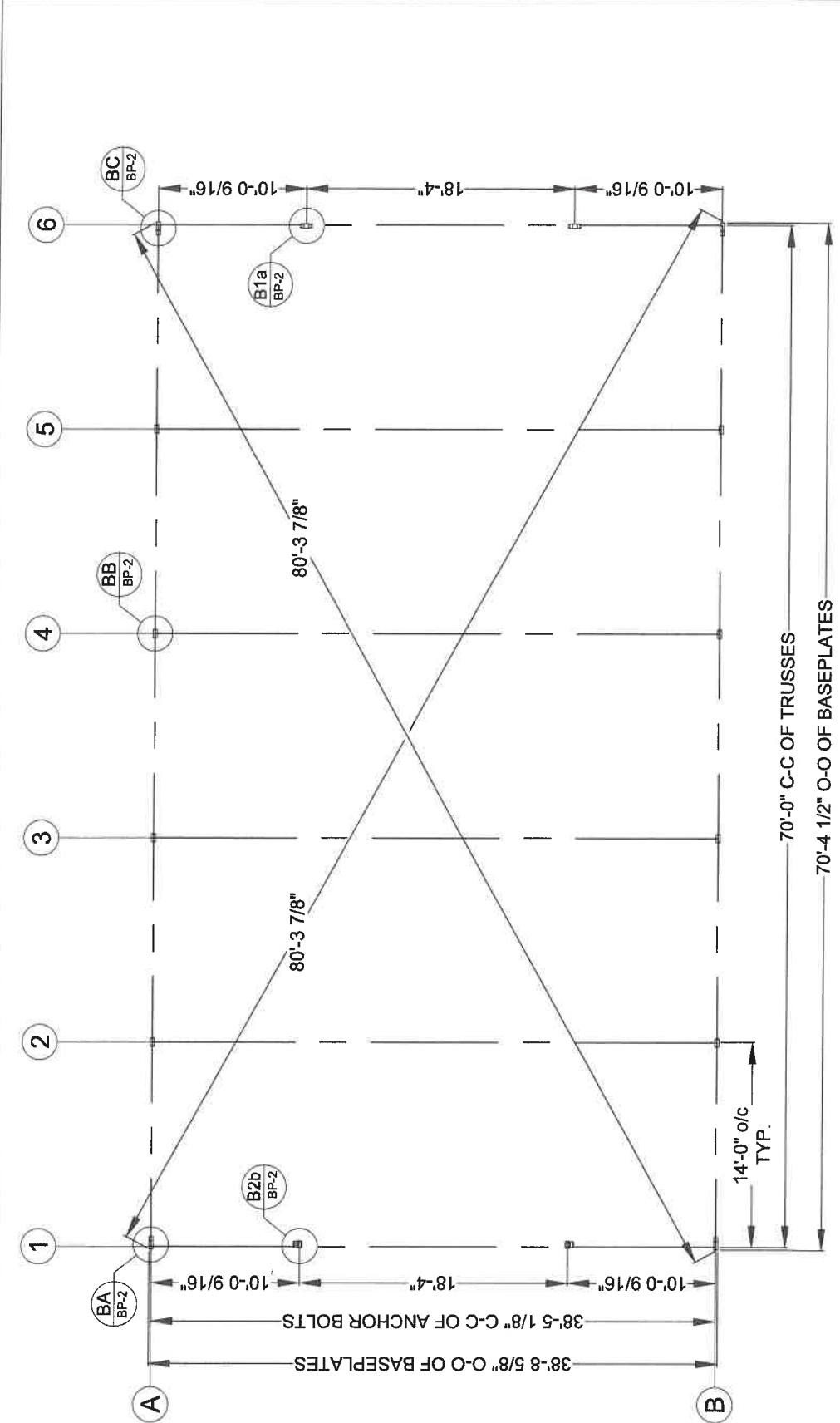
SHEET NUMBER:
ED-1

PAGE NUMBER:
13 / 13



DWG #	DRAWING TITLE	REL.	DATE	REL.	DATE
CV-1	COVER PAGE	0	04.APR.2024		
BR-1	BASEPLATE LAYOUT	0	04.APR.2024		
BS-1	BASEPLATE DETAILS	0	04.APR.2024		
BS-2	BRACING LAYOUT	0	04.APR.2024		
BR-1	BRACING LAYOUT - PLAN VIEW	0	04.APR.2024		
BR-2	BRACING LAYOUT - ELEVATION	0	04.APR.2024		
EW-1	ENDWALL 1 LAYOUT	0	04.APR.2024		
SD-1	STANDARD DETAILS 1	0	04.APR.2024		
ED-1	FABRIC DETAILS 1	0	04.APR.2024		
ED-1	ENDWALL DETAILS	0	04.APR.2024		

STRUCTURAL BOLT TORQUE VALUES (AS REFERENCED ONLY) BASED UPON THE FOLLOWING ASSUMPTIONS:
 WHERE APPROPRIATE, TABLE B LISTS THE BOLT CLAMP WITH SUGGESTED ASSEMBLY TORQUE VALUES.
 ASTM A325 BOLTS IN CONNECTIONS NOT SUBJECT TO TENSION LOADS, OR WHERE LOOSENESS DUE TO VIBRATION OR LOAD FLUCTUATIONS ARE NOT DESIGN CONSIDERATIONS, NEED ONLY BE SNUG TO PREVENT SLIP. ALL OTHER BOLTS SHALL BE TIGHTENED TO THE TENSILE STRENGTH OF THE BOLT.
 ALL BOLTS SHALL BE TIGHTENED TO THE TENSILE STRENGTH OF THE BOLT UNLESS OTHERWISE SPECIFIED.
 MINIMUM VALUES SHOWN IN FOLLOWING TABLE.
 TURN OF NUT METHOD:
 UP TO AND INCLUDING 4 BOLT DIAMETERS
 1/2 TURN OF NUT
 OVER 4 DIAMETERS AND NOT EXCEEDING 8 DIAMETERS OR 8 INCHES
 2/3 TURN OF NUT
 EXCEEDING 8 DIAMETERS OR 8 INCHES
 1 TURN OF NUT
 NUT ROTATION IS ROTATION RELATIVE TO A BOLT REGARDLESS WHETHER THE NUT OR BOLT IS GALVANIZED.
 BOLT LENGTH: (MEASURED FROM UNDERSIDE OF THE HEAD TO THE EXTREME END OF THE BOLT)
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CUSTOMER / SITE:
 WYDOH-HANOVER
 2959 US ROUTE 52
 HANOVER, WV, 24839

DEALER:
 COVER-ALL BUILDINGS OF WV, INC.
 P.O. BOX 727
 BRIDGEPORT, WV, 26330

ORDER ID: SO# 11079
 WIDTH-AKUNT-FABRIC: 40-GM-220
 SHEET NUMBER: BP-1

PROJECT: ATLAS 18.2
 40GM x 70'
 14' OC

DRAWING TITLE:
BASEPLATE LAYOUT

PAGE NUMBER: 02 / 13

REV# | CR# | DESCRIPTION: | DATE: | ISSUED FOR CONSTRUCTION |

0			03 APR 2024	
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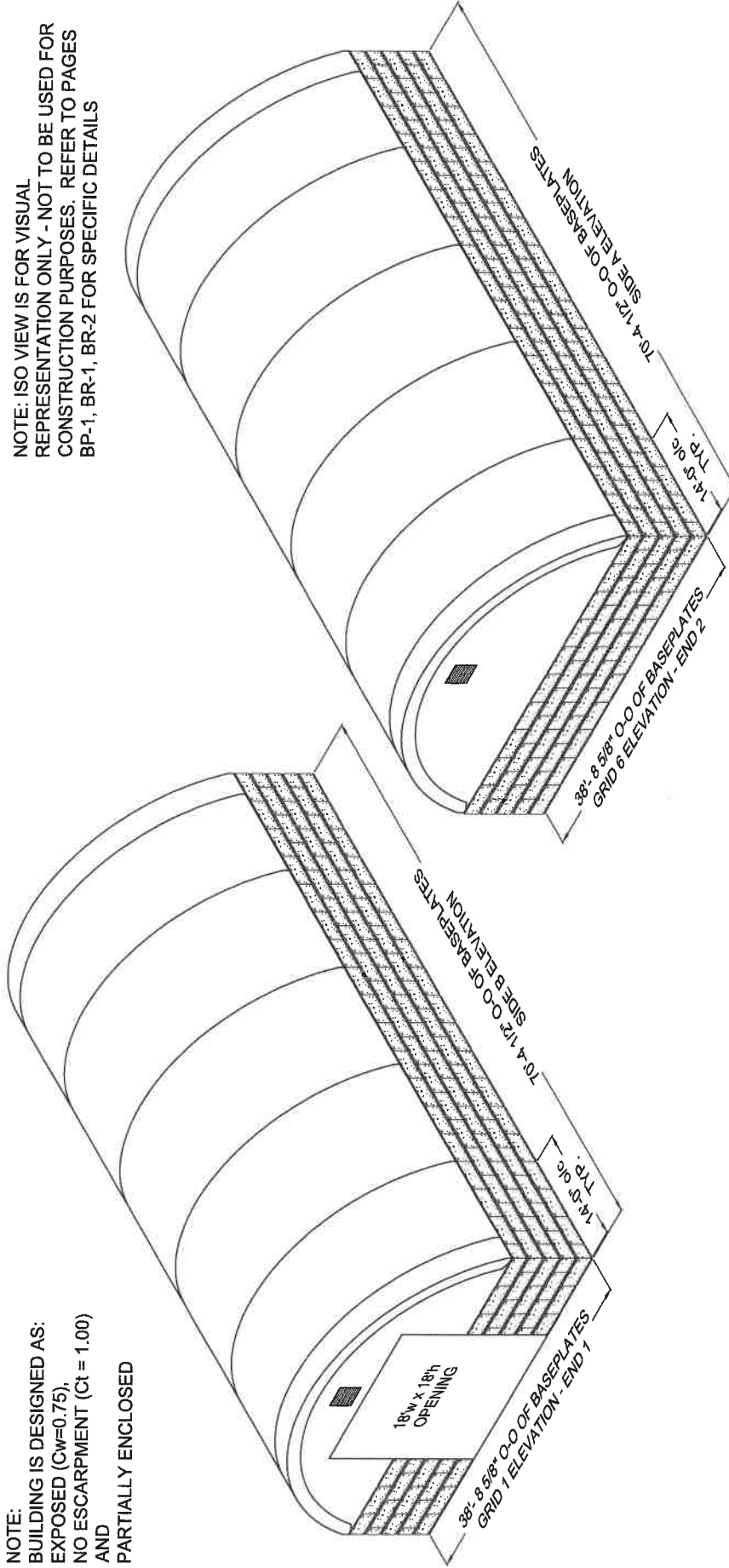
TP: 800-407-8848
 www.coverallbuildings.com

DRAWN BY: RDR
 CHECKED BY: JLK

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NOTE:
 BUILDING IS DESIGNED AS:
 EXPOSED (Cw=0.75),
 NO ESCARPMENT (Ct = 1.00)
 AND
 PARTIALLY ENCLOSED

NOTE: ISO VIEW IS FOR VISUAL
 REPRESENTATION ONLY - NOT TO BE USED FOR
 CONSTRUCTION PURPOSES. REFER TO PAGES
 BP-1, BR-1, BR-1, BR-2 FOR SPECIFIC DETAILS



MAIN COVER: SANDSTONE PE NON-FR
 END FLAPS: GREEN PE NON-FR
 ENDWALLS: SANDSTONE PE NON-FR

NOTE:
 NO PETROLEUM BASED PRODUCTS ARE ALLOWED ON
 ANY FABRIC (MINERAL OIL, BABY OIL, VASELINE, ETC).
 APPLICATION TO FABRIC WILL VOID WARRANTY.

FOUNDATION
 DESIGNED &
 SUPPLIED BY
 OTHERS



TF: 800-407-5848
 www.britespanbuildings.com

DRAWN BY:
 RDR
 CHECKED BY:
 JLK

REV #	CR #	DESCRIPTION:	DATE:
0		ISSUED FOR CONSTRUCTION	04.APR.2024

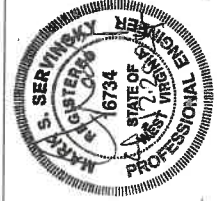
DEALER:
 COVER-ALL BUILDINGS OF WV, INC.
 P.O. BOX 727
 BRIDGEPORT, WV. 26330

CUSTOMER / SITE:
 WYDOH-HANOVER
 2959 US ROUTE 52
 HANOVER, WV. 24839

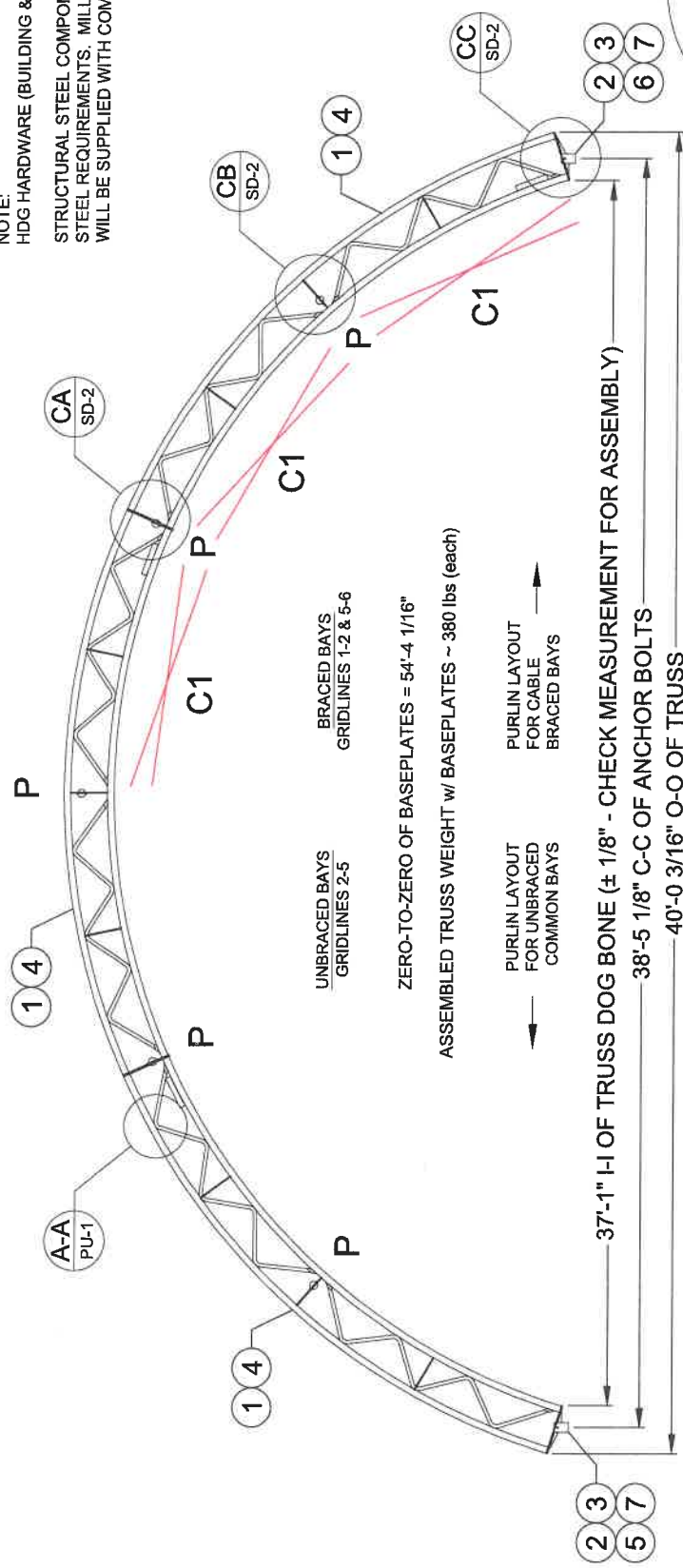
PROJECT:
 ATLAS 18.2
 40GM x 70'
 14' oc

ORDER ID:
 SO# 11079
 WIDTH/MOUNT FABRIC
 40-GM-220

DRAWING TITLE:
 PROJECT LAYOUT
 SHEET NUMBER:
 ISO-1
 PAGE NUMBER:
 04 / 13



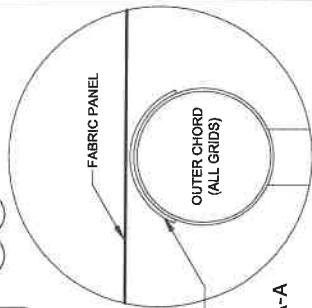
NOTE:
 HDG HARDWARE (BUILDING & ENDS)
 STRUCTURAL STEEL COMPONENTS MEET U.S.
 STEEL REQUIREMENTS. MILL CERTIFICATES
 WILL BE SUPPLIED WITH COMPLETED PROJECT.



ATLAS 18.2	14' BAY	
40GM	PART #	LENGTH
C1 CABLE	CBST200G	200'

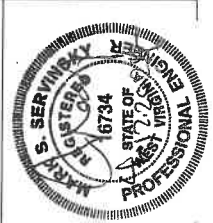
LOCATION	ITEM #	PART #	QTY.	DESCRIPTION	O/C	J/C	WEB
INTERIOR	1	18A4001C1	3	SECTION - ATLAS 18.2 - 40W - COMMON	14GA.	14GA.	1-1/4" 14GA.
	2	2841	2	FULL SWIVEL PLATE - ATLAS 18 - COMMON			
	3	192	2	BOOT - ATLAS 18 - GROUND MOUNT - COMMON			
END	4	18A4001E1	3	SECTION - ATLAS 18.2 - 40W - END	14GA.	14GA.	1-1/4" 14GA.
	5	2842	1	FULL SWIVEL PLATE - ATLAS 18 - LEFT END			
	6	2843	1	FULL SWIVEL PLATE - ATLAS 18 - RIGHT END			
	7	193	2	BOOT - ATLAS 18 - GROUND MOUNT - END			

CABLE LEGEND	
ITEM	DESCRIPTION
—	CROSS CABLE 5/16"
—	BRACING LEGEND
ITEM	DESCRIPTION
X	CROSS CABLE 5/16"
P	TYPICAL PURLIN - 2-7/8" DIA. X 14 GA.



THERMA TAPE - APPLY
 GROUND TO GROUND.
 APPLY ON TOP OF
 COUPLER PROTECTORS

DETAIL A-A



CUSTOMER / SITE:	WYDOH-HANOVER 2959 US ROUTE 52 HANOVER, WV, 24839
ORDER ID:	SO# 11079
DRAWING TITLE:	PURLIN & X-CABLE LAYOUT
WIDTH/MOUNT-FABRIC	40GM x 70"
SHEET NUMBER:	PU-1
PAGE NUMBER:	05 / 13

DEALER:	COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330
DATE:	04/01/2024
DESCRIPTION:	ISSUED FOR CONSTRUCTION

REV #	CR #	DESCRIPTION
0		

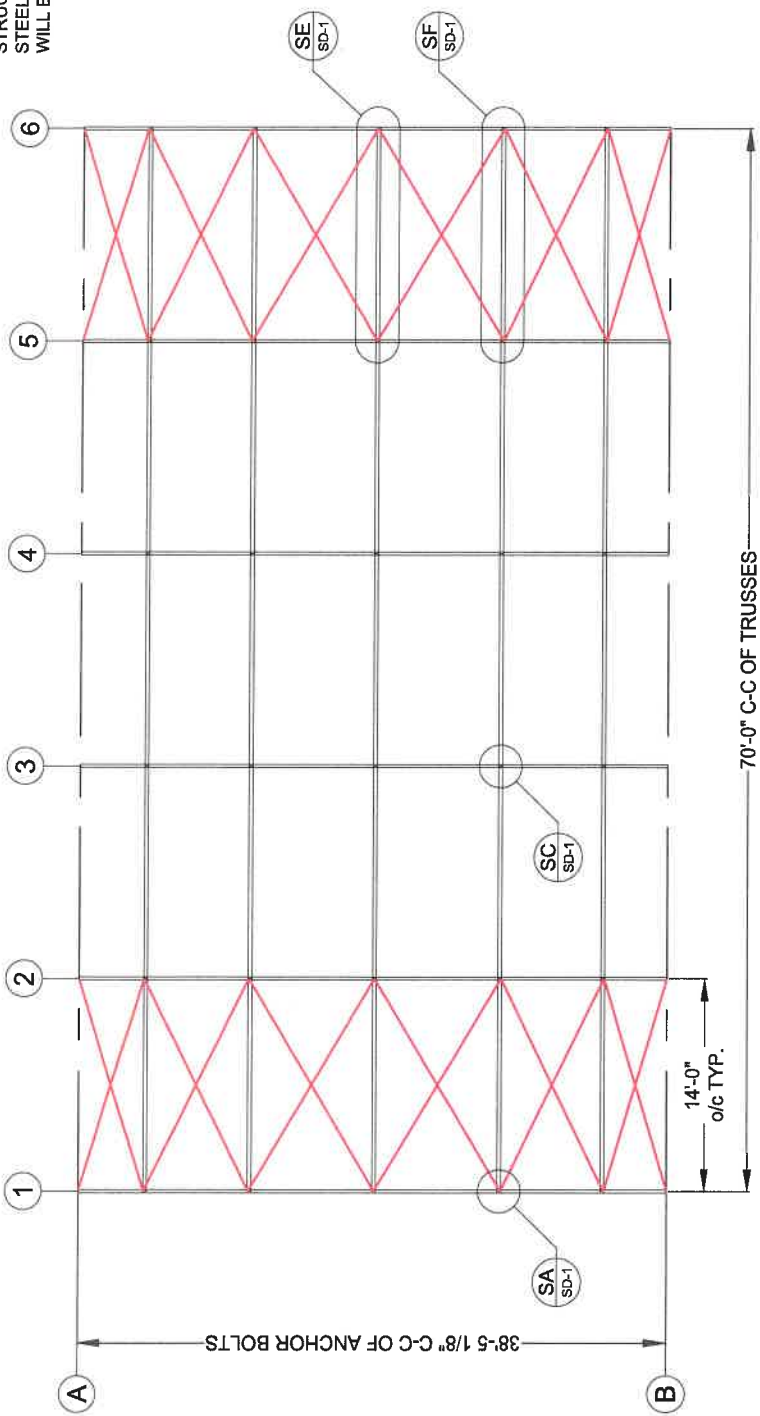
BRITESPAN
 BUILDING SYSTEMS INC

TF: 800-407-8846
www.britespanbuildings.com

DRAWN BY: RDR
 CHECKED BY: JLK

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NOTE:
 HDG HARDWARE (BUILDING & ENDS)
 STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.



PLAN VIEW
 FOR PURLIN DETAILS SEE: SD-1
 FOR CABLE DETAILS SEE: SD-2

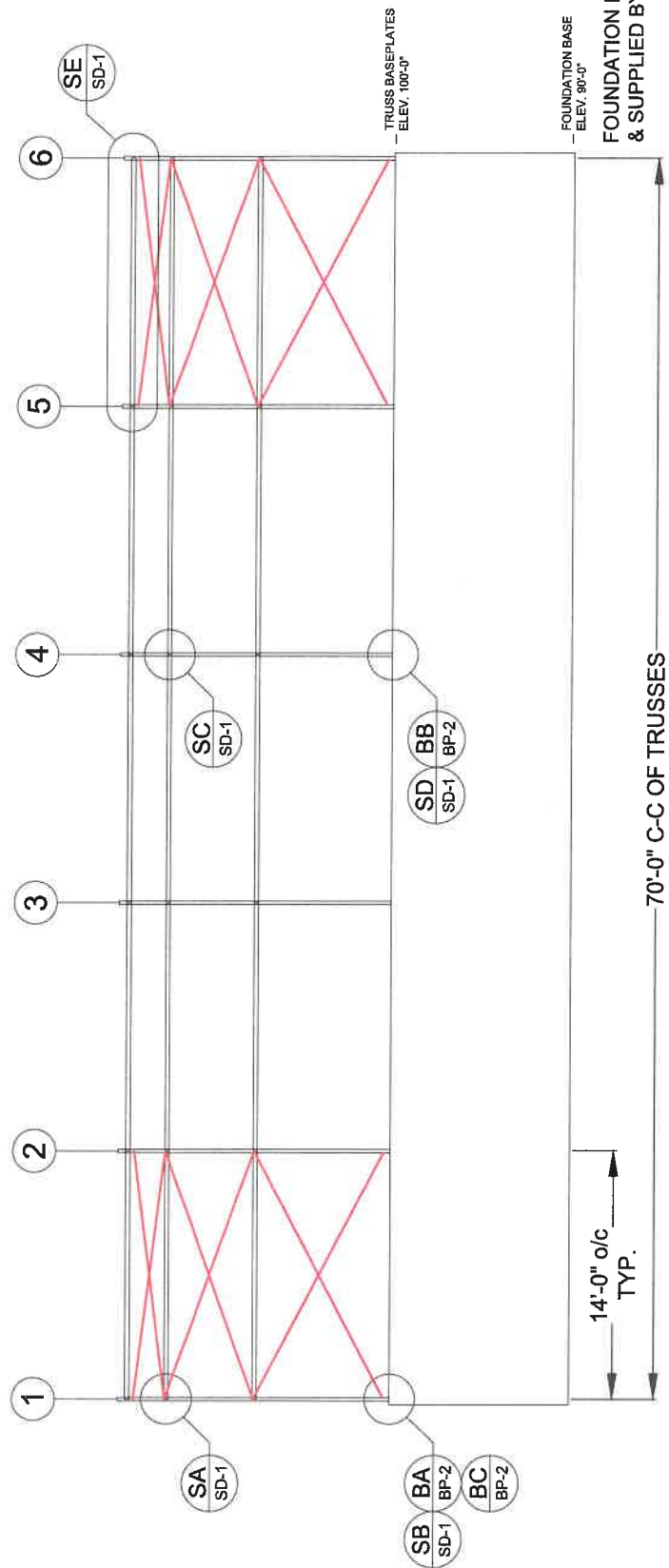
ITEM	DESCRIPTION
	TYPICAL PURLIN 2-7/8" DIA. X 14 GA.
ITEM	DESCRIPTION
	CROSS CABLE 5/16"



BRITESPAN BUILDING SYSTEMS INC TF: 800-407-5846 www.britespanbuildings.com	REV# 0 CR# DESCRIPTION: ISSUED FOR CONSTRUCTION DATE: 04 APR 2024	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV. 26330	CUSTOMER / SITE: WYDOH-HANOVER 2959 US ROUTE 52 HANOVER, WV. 24839
	DRAWN BY: RDR CHECKED BY: JLK	PROJECT: ATLAS 18.2 40GM x 70" 14' OC	ORDER ID: SO# 11079 WIDTH-MOUNT-FABRIC 40-GM-220

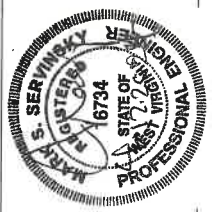
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 STRUCTURAL STEEL COMPONENTS MEET U.S.
 STEEL REQUIREMENTS. MILL CERTIFICATES
 WILL BE SUPPLIED WITH COMPLETED PROJECT.



ELEVATION
 FOR PURLIN DETAILS SEE: SD-1
 FOR CABLE DETAILS SEE: SD-2

ITEM	DESCRIPTION
	TYPICAL PURLIN 2-7/8" DIA. X 14 GA.
ITEM	DESCRIPTION
	CROSS CABLE 5/16"



CUSTOMER / SITE:
 WYDOH-HANOVER
 2959 US ROUTE 52
 HANOVER, WV. 24839

DRAWING TITLE:
 BRACING LAYOUT - ELEVATION

ORDER ID:
 SO# 11079

WIDTH-MOUNT-FABRIC
 40-GM-220

SHEET NUMBER:
 BR-2

PAGE NUMBER:
 07 / 13

DEALER:
 COVER-ALL BUILDINGS OF WV, INC.
 P.O. BOX 727
 BRIDGEPORT, WV. 26330

PROJECT:
 ATLAS 18.2
 40GM x 70'
 14' OC

REV #	CR #	DESCRIPTION	DATE
0		ISSUED FOR CONSTRUCTION	04 APR 2024

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RDR

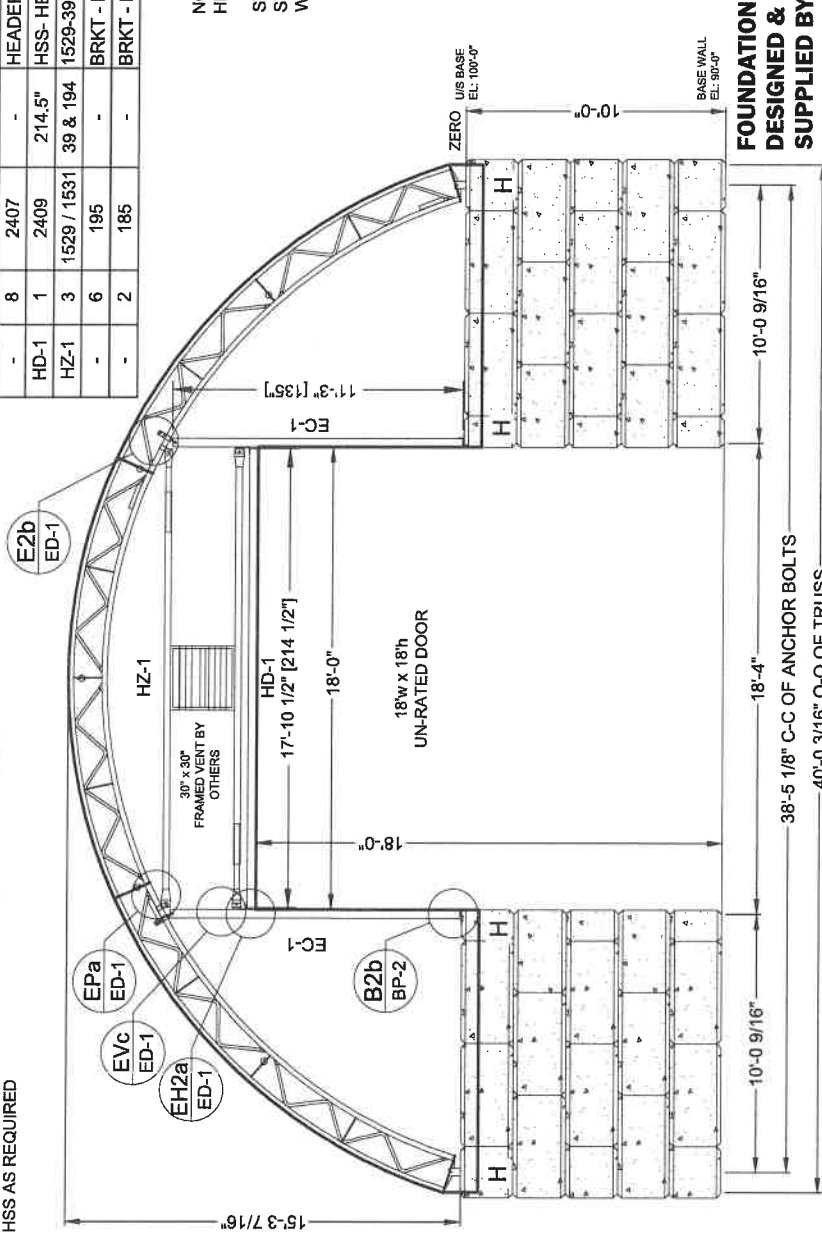
CHECKED BY:
JLK

NOTES:

1. ENDWALL AS VIEWED FROM OUTSIDE
2. "H" DENOTES BLOCK WINCH & STRAP FOR FASTENING TUBE
3. EC VERTICAL LOCATION DIMENSIONS ARE TO THE CENTRELINE OF MEMBERS
4. FIELD DRILL HSS AS REQUIRED

ITEM #	QTY.	PART #	LENGTH	DESCRIPTION
EC-1	2	2408	135"	HSS- VERTICAL- 4" X 6" X 3/16"- 3" CENTRES
-	2	161	-	BRKT- 6" DEEP HSS TOP SADDLE- 2-3/8" CHORD
-	8	2407	-	HEADER/ BASE ANGLE- 4" X 6" HSS - 3" CENTRES
HD-1	1	2409	214.5"	HSS- HEADER- 4" X 6" X 3/16"- 3" CENTRES
HZ-1	3	1529 / 1531	39 & 194	1529-39 (2 1/2 - 14GA) + 1531-194 (2 7/8- 14GA) PRE-GALV
-	6	195	-	BRKT - ESS HORIZ. ANGLE
-	2	185	-	BRKT - HORIZ. SADDLE WITH TAB - 2 7/8" CHORD

NOTE:
 HDG HARDWARE (BUILDING & ENDS)
 STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.



FOUNDATION & SUPPLIED BY OTHERS

GRIDLINE 1 - END 1

<p>TF: 800-407-6646 www.britespanbuildings.com</p>	<p>REV# / CR #</p> <p>0</p>	<p>DESCRIPTION:</p> <p>ISSUED FOR CONSTRUCTION</p>	<p>DATE:</p> <p>04 APR 2024</p>	<p>DEALER:</p> <p>COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330</p>	<p>CUSTOMER / SITE:</p> <p>WVDOH-HANOVER 2959 US ROUTE 52 HANOVER, WV, 24839</p>		
	<p>DRAWN BY:</p> <p>RDR</p>	<p>CHECKED BY:</p> <p>JLK</p>	<p>PROJECT:</p> <p>ATLAS 18.2 40GM x 70' 14' OC</p>	<p>ORDER ID:</p> <p>SO# 11079</p>	<p>DRAWING TITLE:</p> <p>ENDWALL 1 LAYOUT</p>		<p>WITH-A-MOUNT-FABRIC</p> <p>40-GM-220</p>

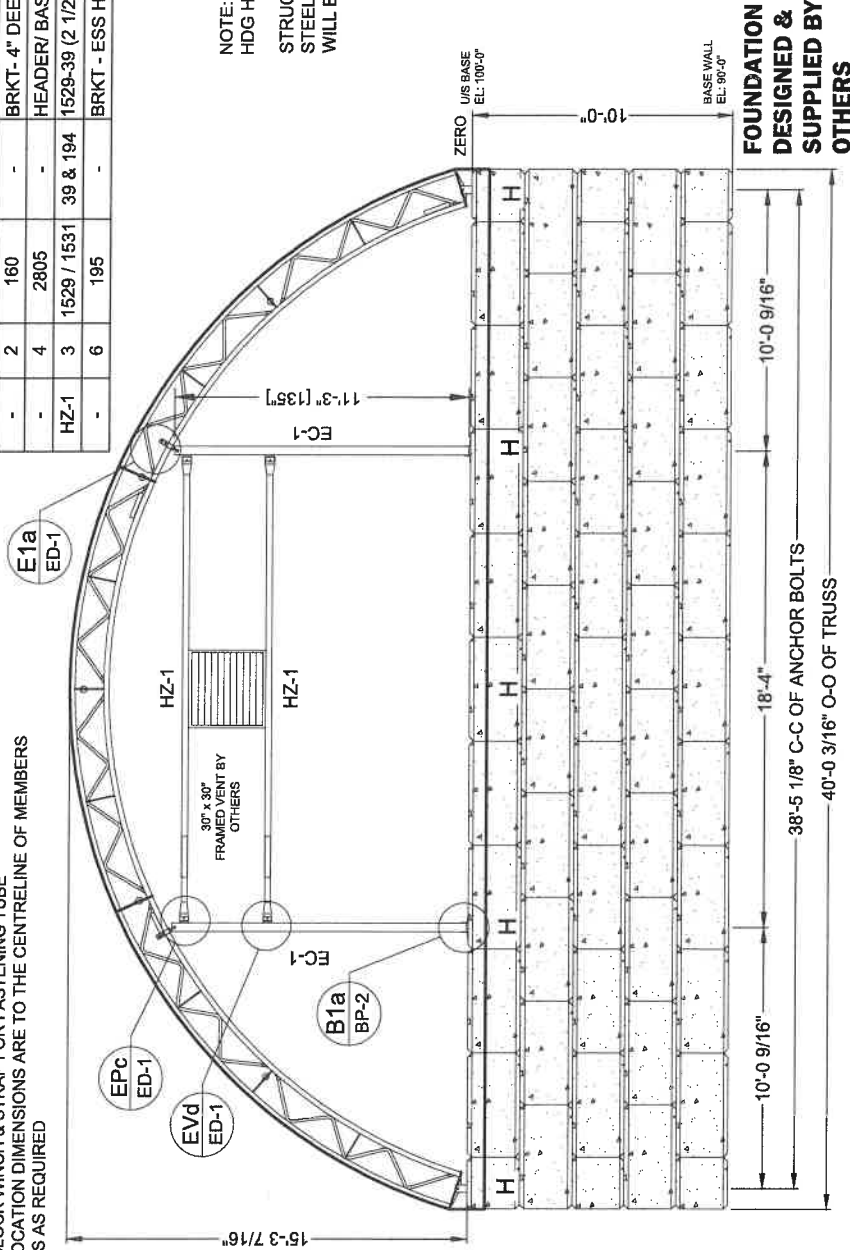
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NOTES:

1. ENDWALL AS VIEWED FROM OUTSIDE
2. "H" DENOTES BLOCK WINCH & STRAP FOR FASTENING TUBE
3. EC VERTICAL LOCATION DIMENSIONS ARE TO THE CENTRELINE OF MEMBERS
4. FIELD DRILL HSS AS REQUIRED

ITEM #	QTY.	PART #	LENGTH	DESCRIPTION
EC-1	2	1518	135"	HSS- VERTICAL- 4" X 4" X 1/8"- 2" CENTRES
-	2	160	-	BRKT- 4" DEEP HSS TOP SADDLE- 2-3/8" CHORD
-	4	2805	-	HEADER/ BASE ANGLE- 4" X 4" HSS- 2" CENTRES
HZ-1	3	1529 / 1531	39 & 194	1529-39 (2 1/2 - 14GA) + 1531-194 (2 7/8" 14GA) PRE-GALV
-	6	195	-	BRKT- ESS HORIZ. ANGLE

NOTE:
 HDG HARDWARE (BUILDING & ENDS)
 STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.



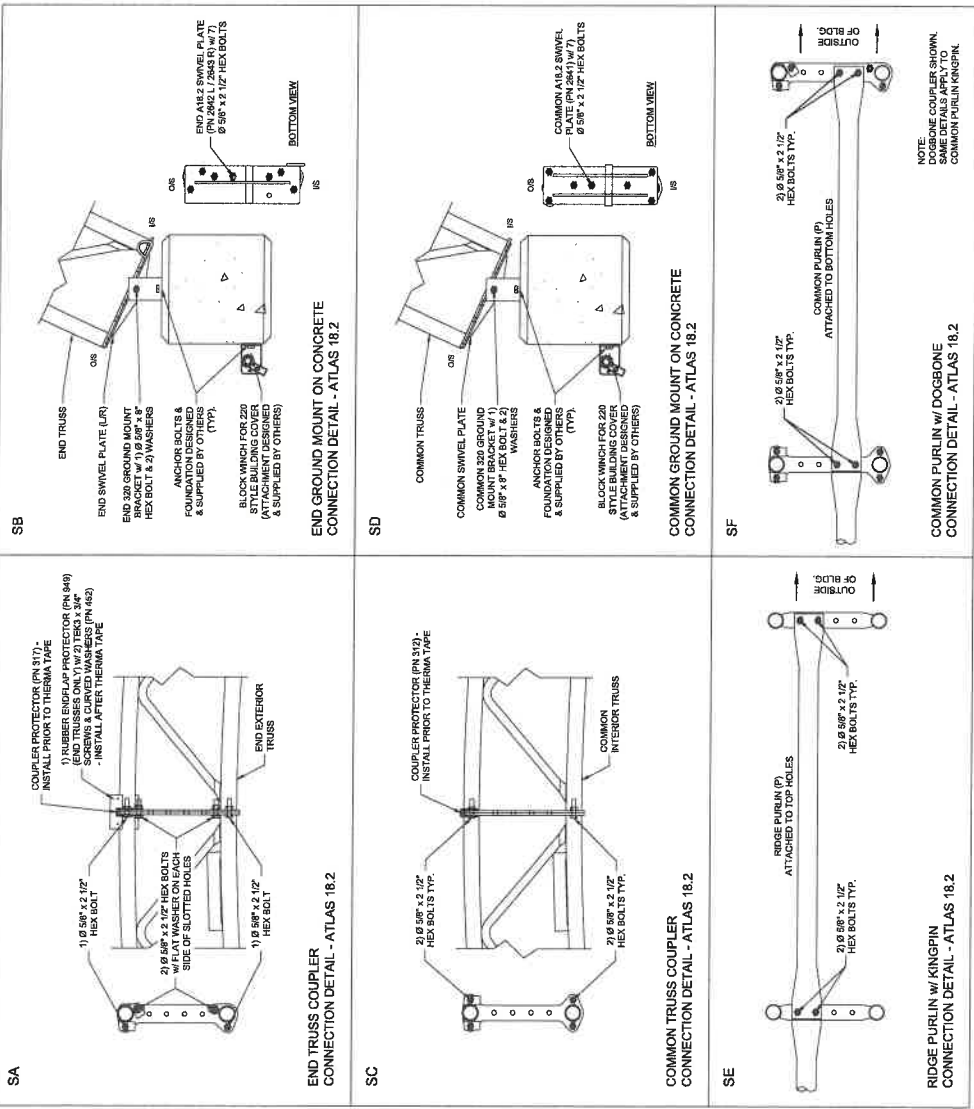
**FOUNDATION
 DESIGNED &
 SUPPLIED BY
 OTHERS**

GRIDLINE 6 - END 2

 TF: 800-407-5846 www.britespanbuildings.com	REV # 0 CR # DESCRIPTION: ISSUED FOR CONSTRUCTION DATE: 04APR.2024	DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV. 26330	CUSTOMER / SITE: WVD0H-HANOVER 2959 US ROUTE 52 HANOVER, WV. 24839
	DRAWN BY: RDR CHECKED BY: JLK	PROJECT: ATLAS 18.2 40GM x 70' 14' OC	ORDER ID: SO# 11079 WIDTH-MOUNT-FABRIC 40-GM-220
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NOTE:
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 STEEL REQUIREMENTS. MILL CERTIFICATES
 WILL BE SUPPLIED WITH COMPLETED PROJECT.



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DATE: 04 APR 2024

DESCRIPTION: ISSUED FOR CONSTRUCTION

REV # 0

CR #

DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330

CUSTOMER / SITE: WYDOH-HANOVER 2959 US ROUTE 52 HANOVER, WV, 24839

DRAWN BY: RDR

CHECKED BY: JLK

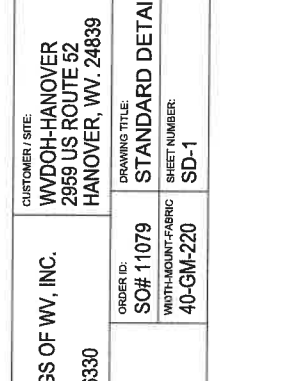
ORDER ID: SO# 11079

DRAWING TITLE: STANDARD DETAILS 1

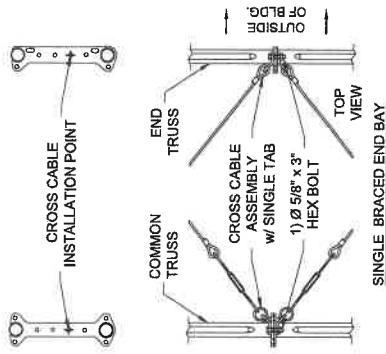
WIDTH-MOUNT-FABRIC: 40-GM-220

SHEET NUMBER: SD-1

PAGE NUMBER: 10 / 13

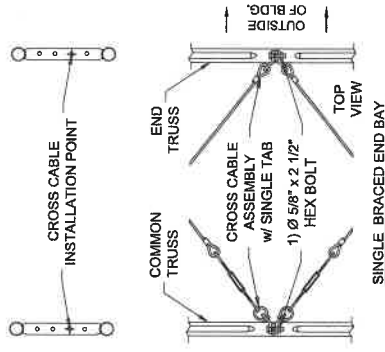


CA



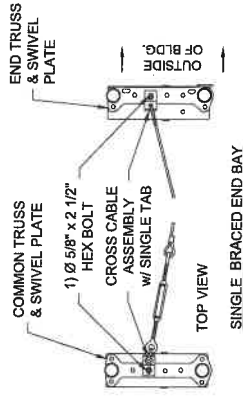
CROSS CABLES AT DOG BONE CONNECTION
DETAILS - ATLAS 18.2

CB



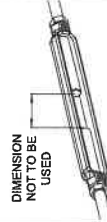
CROSS CABLES AT KINGPIN CONNECTION
DETAILS - ATLAS 18.2

CC



CROSS CABLES AT SWIVEL PLATE
CONNECTION DETAILS - ATLAS 18.2

NOTE:
INSTALL ALL TURNBUCKLES AT ONE END FOR EASE OF INSTALLATION - BOTTOM OF TRUSS & UP (DOES NOT APPLY TO LEG CABLES).
DISTANCE IN CENTER OF TURNBUCKLE VARIES - NOT TO BE USED FOR TENSIONED CABLE MEASUREMENTS.



DIMENSION NOT TO BE USED

NOTE:
HDG HARDWARE (BUILDING & ENDS)
STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.



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DRAWN BY: RDR
CHECKED BY: JLK

DATE: 04 APR 2024

DEALER:

COVER-ALL BUILDINGS OF WV, INC.
P.O. BOX 727
BRIDGEPORT, WV, 26330

CUSTOMER / SITE:

WVDOH-HANOVER
2959 US ROUTE 52
HANOVER, WV, 24839

DRAWING TITLE:

STANDARD DETAILS 2

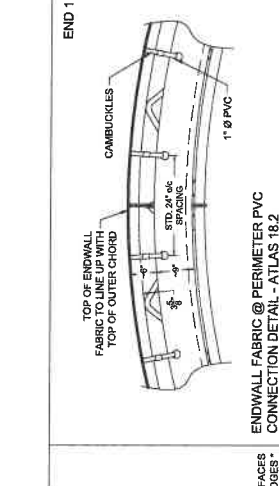
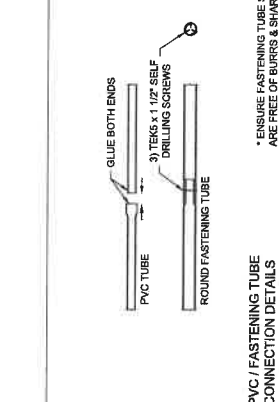
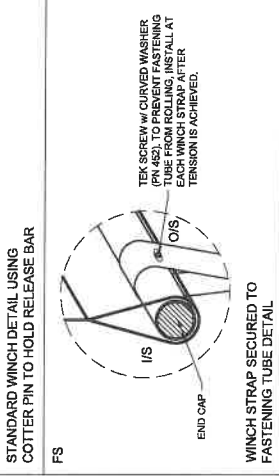
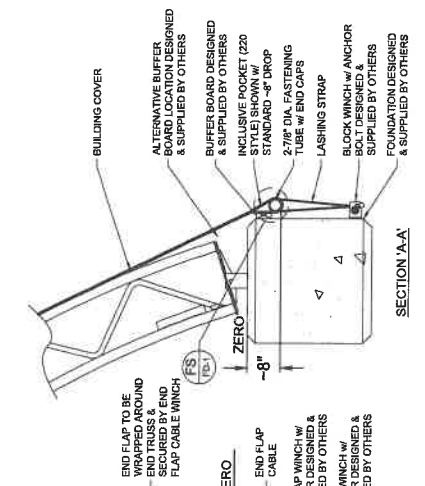
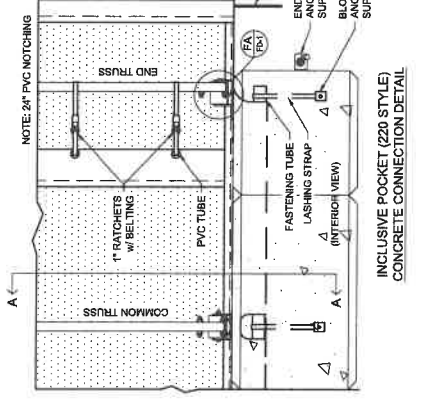
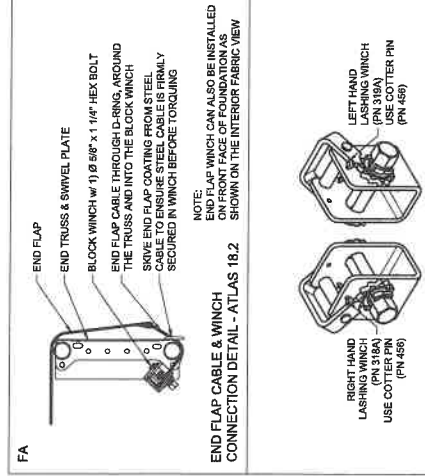
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SD-2



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11 / 13

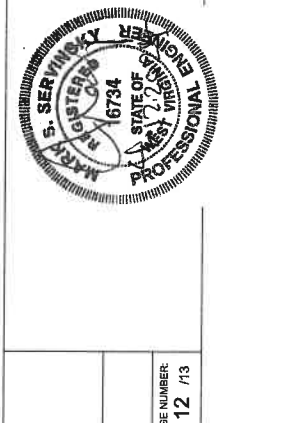


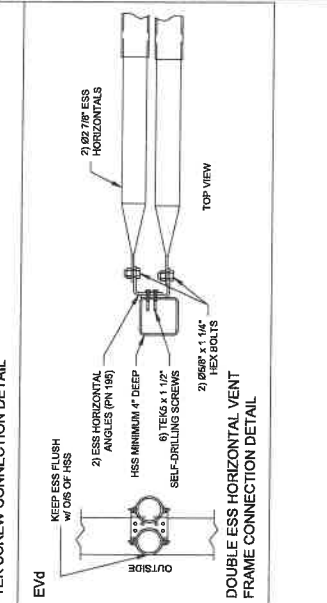
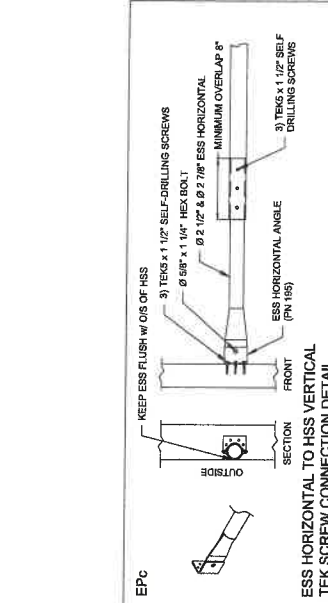
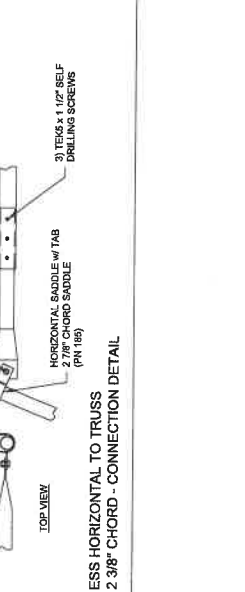
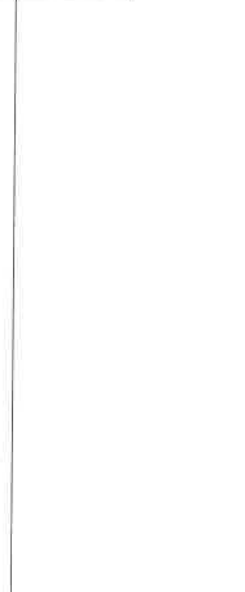
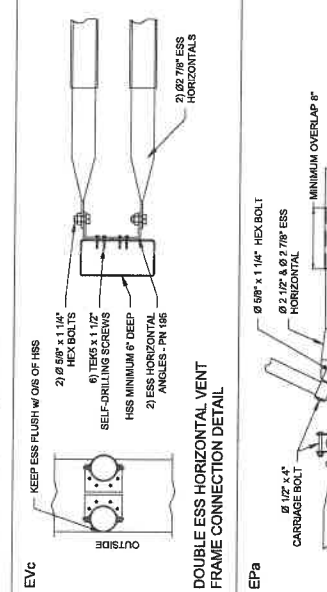
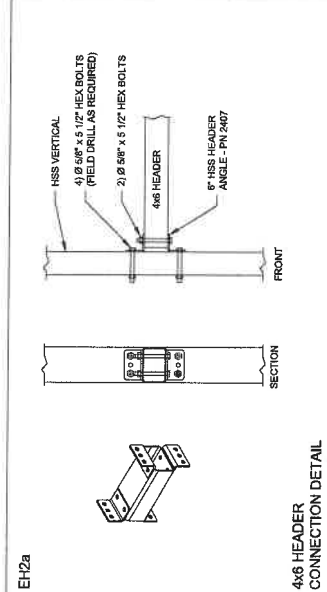
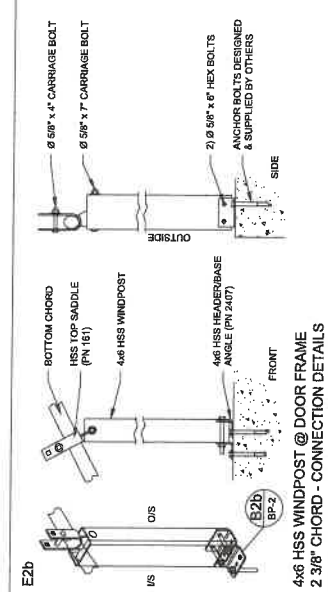
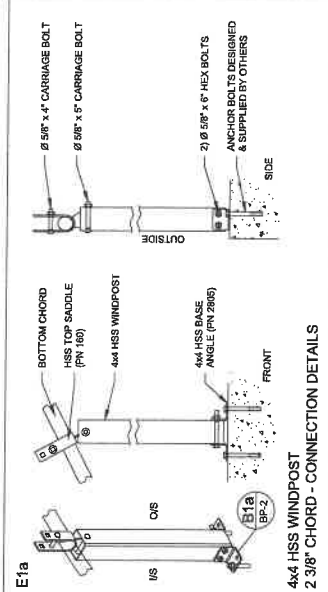
NOTE:
 NO PETROLEUM BASED PRODUCTS ARE ALLOWED ON ANY FABRIC (MINERAL OIL, BABY OIL, VASELINE, ETC). APPLICATION TO FABRIC WILL VOID WARRANTY.

****IMPORTANT****
 PROTECT FABRIC FROM CONTACT WITH ALL SHARP EDGES

	T.C. 800-407-5848 www.britespanbuildings.com	DATE: 30 APR 2024 DESCRIPTION: ISSUED FOR CONSTRUCTION	REV.# 0 CR.#
	DRAWN BY: RDR CHECKED BY: JLK	PROJECT: ATLAS 18.2 40GM x 70' 14' 0C	ORDER ID: SO# 11079 WIDTH-INCL- FABRIC: 40-GM-220

DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV, 26330	CUSTOMER / SITE: WYDOH-HANOVER 2959 US ROUTE 52 HANOVER, WV, 24839
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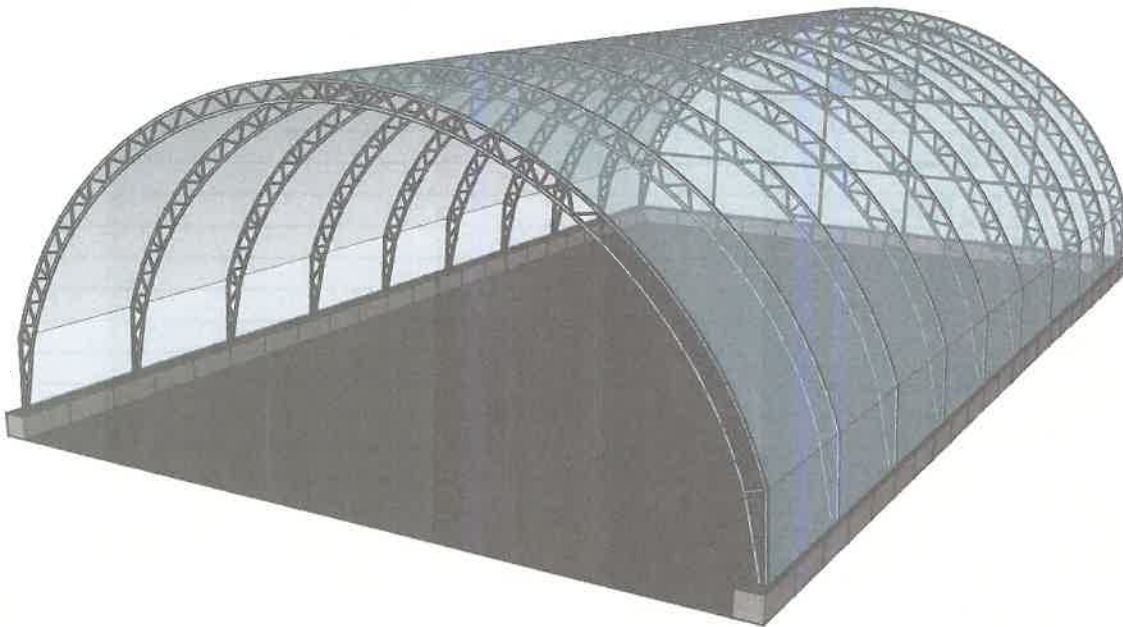


NOTE:
 HDG HARDWARE (BUILDING & ENDS)
 STRUCTURAL STEEL COMPONENTS MEET U.S. STEEL REQUIREMENTS. MILL CERTIFICATES WILL BE SUPPLIED WITH COMPLETED PROJECT.

<p>THIS DRAWING IS PROPERTY OF BRITESPAN BUILDING SYSTEMS INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF BRITESPAN BUILDING SYSTEMS INC. IS PROHIBITED. THIS DRAWING IS NOT TO SCALE UNLESS OTHERWISE NOTED.</p>	<p>REV# CR # DESCRIPTION:</p> <p>0 ISSUED FOR CONSTRUCTION</p>	<p>DATE: 04APR2024</p>	<p>DEALER: COVER-ALL BUILDINGS OF WV, INC. P.O. BOX 727 BRIDGEPORT, WV 26330</p>	<p>CUSTOMER / SITE: WDOH-HANOVER 2958 US ROUTE 52 HANOVER, WV 24839</p>
	<p>TF: 800-407-5646 www.britespanbuildings.com</p>	<p>DRAWN BY: RDR</p> <p>CHECKED BY: JLK</p>	<p>ORDER ID: SO# 11079</p> <p>WIDTH-MOUNT-FABRIC: 40-GM-220</p>	<p>DRAWING TITLE: ENDWALL DETAILS</p> <p>SHEET NUMBER: ED-1</p>



ATLAS 24



GENERAL INSTALLATION GUIDE

IMPORTANT: Always refer to the building specific sealed structural drawings for all details. These drawings will be the most current and accurate.

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Important

It is the Owner's responsibility to inspect product regularly for visible damage, cracks, wear, elongation, rust, etc. Protect all products from corrosion. The need for periodic inspections cannot be overemphasized. Periodic inspections help determine when to replace or adjust a product and reduce hazards. It is the Owner's responsibility to keep inspection records to help pin point problems and to ensure periodic inspection intervals are maintained.

Due to the diversity of the products and components involved and the uses to which the structures can be put, Britespan can only provide general recommendations for inspection procedures and frequency. Best results will be achieved when qualified personnel base their decisions on information from construction and engineering manuals and on field experience.

Frequency of inspections will depend on environmental conditions, application, storage of product prior to use, frequency of use, etc. When in doubt, inspect products prior to each use. Carefully check each item for wear, deformation, cracks or elongation - a sign of possible failure. Immediately withdraw such items from service pending investigation.

Rust damage is another potential hazard. When in doubt about the extent of corrosion or other damage, withdraw the items from service pending investigation.

Destroy, rather than discard, items that have been judged defective to avoid them being used by someone not aware of the hazard involved.

Additional information on products and components can be obtained by contacting Britespan Building Systems Inc.

See MAINTENANCE

IMPORTANT: Improper Site Preparation, Assembly and Maintenance may invalidate warranty and cause unnecessary and costly mistakes. If you have any questions, contact your local dealer.

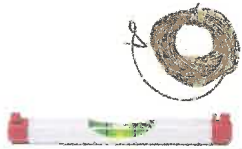








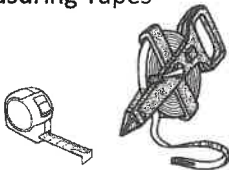


It is the Owner's responsibility to obtain all permits and contract an engineer of record.

All construction activities must comply with local governing authorities and safety regulations and are the responsibility of the Owner.

Britespan Building Systems Inc. will not be held responsible for conduct that is an infraction thereof.

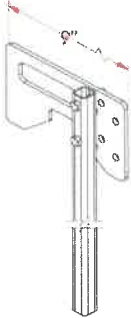
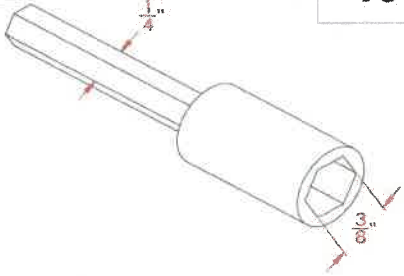
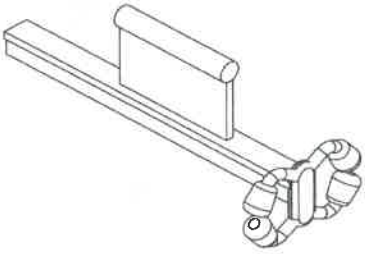
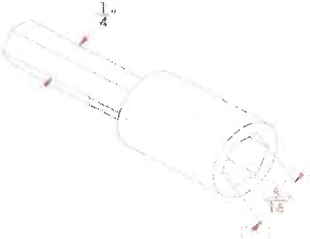
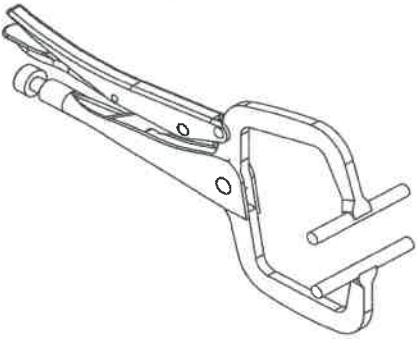
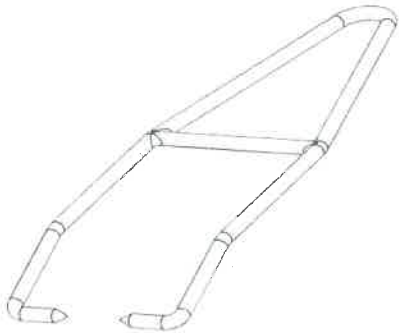
Tools

You will need the following tools to install Britespan Building Systems Buildings Inc. buildings.

<p>String and string level</p> 	<p>Stakes, Batter Boards and tape to mark the post/pipe locations</p> 	<p>Moveable scaffolding or a platform lift.</p> 	<p>Crane or equivalent to lift arches into the vertical position.</p> 
<p>Temporary bracing—dimensional lumber or rope.</p> 	<p>Square level.</p> 	<p>2 to 4 lengths of cover pull rope 125' (40M) or longer</p> 	<p>Torque Wrench</p> 
<p>Hacksaw</p> 	<p>#10 x 3/4" (#10 x 20mm) round head Philips screws and bit.</p> 	<p>13/16" (21mm) - 15/16" (24mm) - 1 1/8" (29mm) Wrenches and Sockets</p> 	<p>Transit</p> 
<p>Drill and Impact Driver</p> 	<p>Rubber Mallet</p> 	<p>Hand Held Hot Air Welder</p> 	<p>Reamer or Ream Bit</p> 
<p>Ratchets for Detensioning</p> 	<p>Measuring Tapes</p> 	<p>Levels and Laser Level</p> 	<p>Plumb Line and Plumb Bob</p> 
<p>Force Weight Scale</p> 	<p>Tek Screw Driver</p> 		

Tools Needed For Installation Available from Britespan

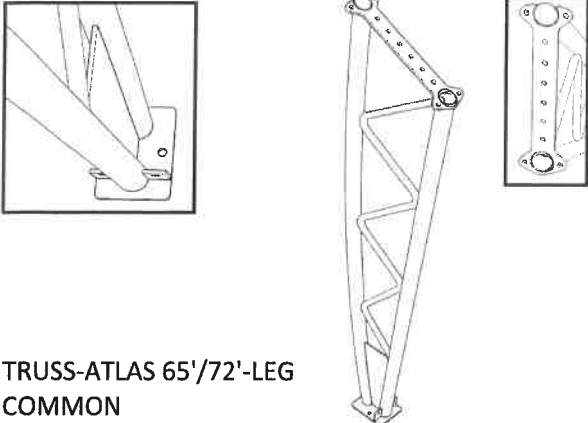
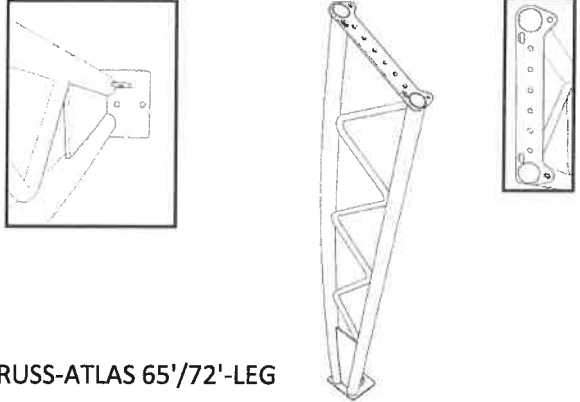
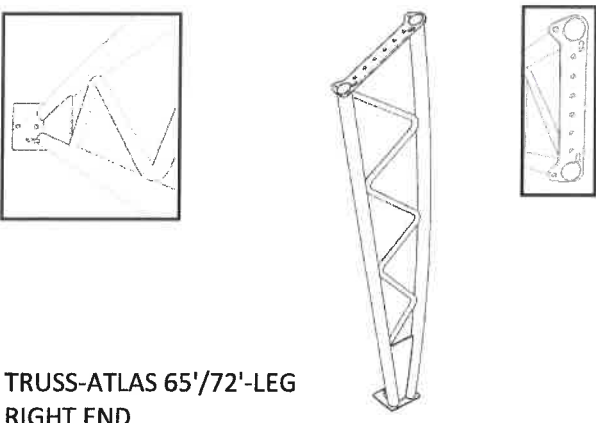
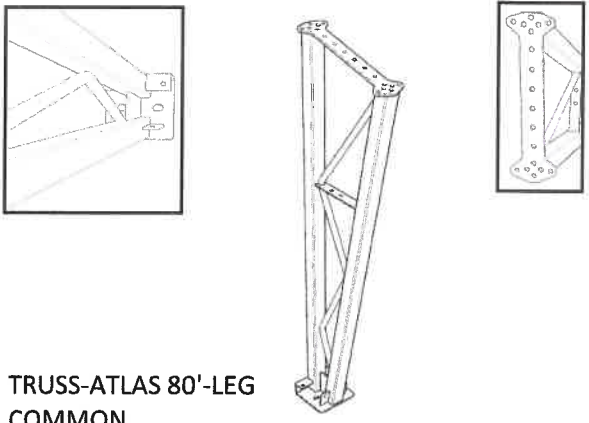
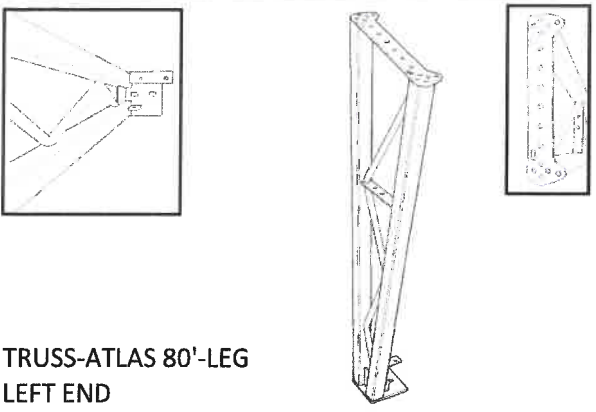
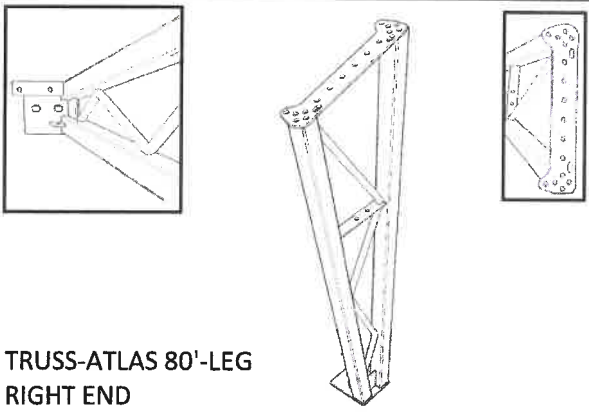
You will need the following tools install Britespan Building Systems Genesis, available for purchase from Britespan Building Systems.

<p>9.4lbs</p>  <p>2746</p> <p>EXTRUSION GUIDE ASSEMBLY- UNIVERSAL</p>	<p>0.1lbs</p>  <p>406</p> <p>MAG CHUCK DRIVER- 3/8"</p>
 <p>KEDER FEEDER</p>	<p>0.0lbs</p>  <p>416</p> <p>MAG CHUCK DRIVER- 5/16"</p>
 <p>C-CLAMP LOCKING PLIERS WITH EXTRUSION ALIGNMENT GUIDE</p>	 <p>MOORE HOOK</p>

Part number noted in upper right corner when available.

Building Components

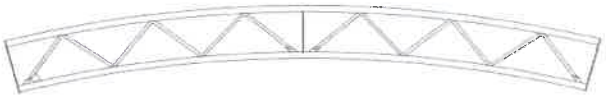
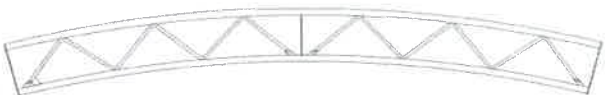
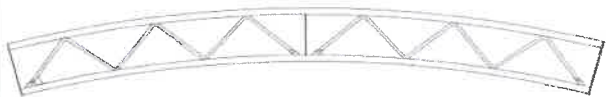



Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

 <p>TRUSS-ATLAS 65'/72'-LEG COMMON</p>	 <p>TRUSS-ATLAS 65'/72'-LEG</p>
 <p>TRUSS-ATLAS 65'/72'-LEG RIGHT END</p>	 <p>TRUSS-ATLAS 80'-LEG COMMON</p>
 <p>TRUSS-ATLAS 80'-LEG LEFT END</p>	 <p>TRUSS-ATLAS 80'-LEG RIGHT END</p>

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Building Components



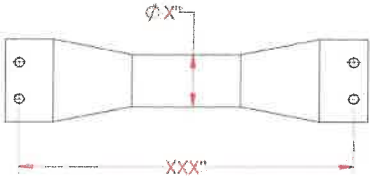
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 <p>TRUSS-ATLAS 65'/72' - COMMON</p>	 <p>TRUSS-ATLAS 65'/72' - LEFT END</p>
 <p>TRUSS-ATLAS 65'/72' - RIGHT END</p>	 <p>TRUSS-ATLAS 65'-PEAK TRUSS COMMON</p>
 <p>TRUSS-ATLAS 65'-PEAK TRUSS LEFT END</p>	 <p>TRUSS-ATLAS 65'-PEAK TRUSS RIGHT END</p>

Part number noted in upper right corner when available.

Building Components Continued

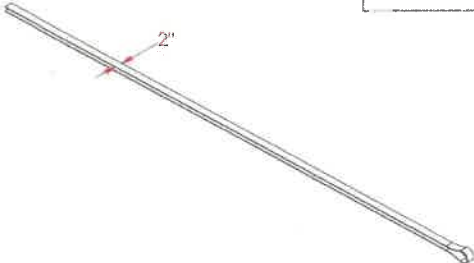
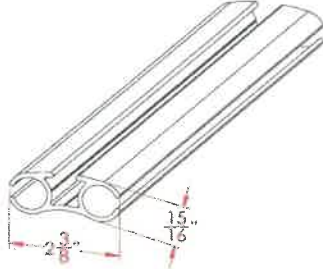
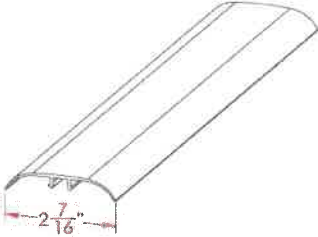

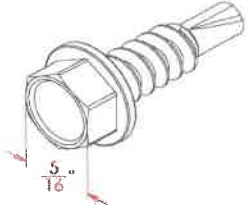
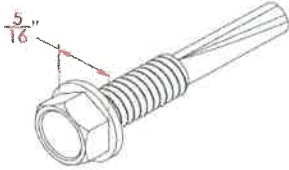
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<p style="text-align: center;">861XXXTT</p>  <p style="text-align: center;">SWAY CABLE ASSEMBLY- XXX" LONG TYPICALLY 5/16" dia. CABLE</p>	<p style="text-align: center;">863XXXTT</p>  <p style="text-align: center;">CROSS CABLE ASSEMBLY- XXX" LONG TYPICALLY 1/2" dia. CABLE</p>
 <p style="text-align: center;">PURLIN- 2 7/8", 3 1/2" OR 4" DIA. - XXX" LONG</p>	

Part number noted in upper right corner when available.

Building Components Continued

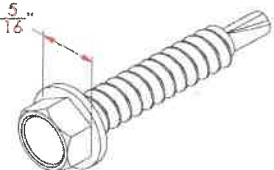
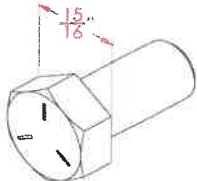
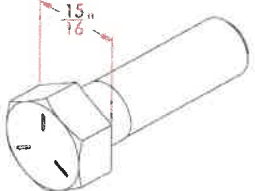
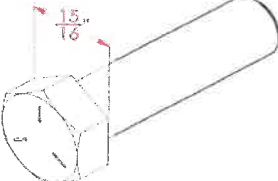
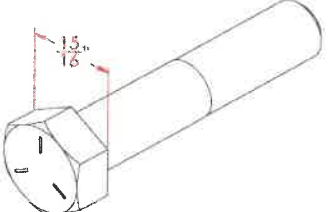
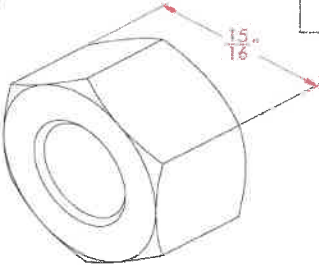
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<p>3.0lbs</p> <p>405</p>  <p>TIE DOWN STRAP - 2" x 6'- NOT SEWN</p>	<p>0.8lbs</p> <p>428</p>  <p>EXTRUSION- ORIGINAL- W/ DRILLED HOLES- XXX" LG</p>
<p>0.1lbs</p> <p>427</p>  <p>EXTRUSION - COVER CAP (SNAP CAP) - WHITE POLY 240"</p>	<p>2.1lbs</p> <p>426</p>  <p>WINTERGEL- LUBRICANT- GREENLEE WINTERGEL- 1 QT BOTTLE</p>
<p>0.0lbs</p> <p>603</p>  <p>TEK 3-1/4"- #12-14 X 3/4" COARSE THREAD- ITX BUILDDEX</p>	<p>0.0lbs</p> <p>454</p>  <p>TEK 5- #12-24 X 1-1/4" FINE THREAD</p>

Part number noted in upper right corner when available.

Building Components Continued

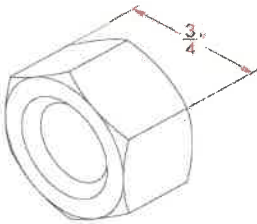
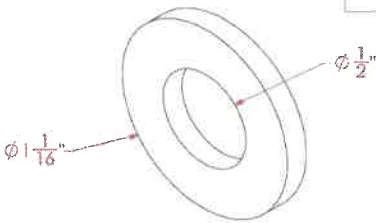
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<p>0.0lbs</p> <p>455</p>  <p>TEK 3- #12-14 X 1-1/4" COARSE THREAD</p>	<p>0.2lbs</p> <p>432</p>  <p>HEX BOLT- 5/8"-11NC X 1-1/4" LG- GR 5</p>
<p>0.3lbs</p> <p>433</p>  <p>HEX BOLT 5/8"-11 NC X 2" LG</p>	<p>0.0lbs</p> <p>435</p>  <p>HEX BOLT 5/8"-11 X 2-1/2" LG</p>
<p>0.3lbs</p> <p>434</p>  <p>HEX BOLT- 5/8"-11NC X 3" LG- GR 5</p>	<p>0.1lbs</p> <p>451</p>  <p>NUT 5/8"-11 NC</p>

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Building Components Continued

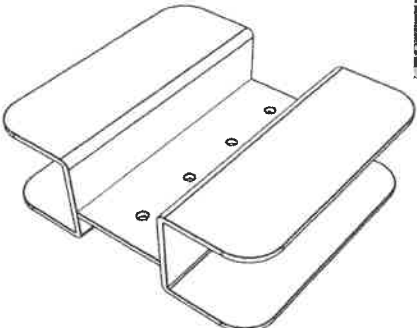
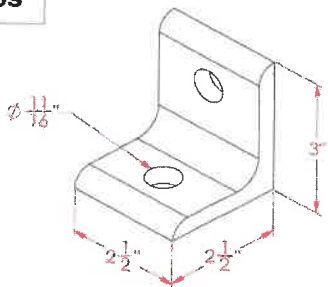
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

	<p>0.0lbs</p> <p>449</p>  <p>NUT- 1/2"-13 NC</p>
<p>0.02lbs</p> <p>450</p>  <p>WASHER- 1/2" FLAT</p>	

Part number noted in upper right corner when available.

Building Components Continued

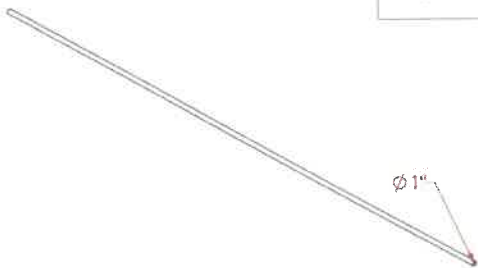



Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

 <p style="text-align: right;">213</p> <p style="text-align: center;">FT STABILIZER BRACKET</p>	<p style="text-align: center;">1.3lbs</p>  <p style="text-align: right;">228</p> <p style="text-align: center;">BRKT- WINCH MOUNT- 3" X 2 1/2" X 2 1/2"</p>

Part number noted in upper right corner when available.

Building Components Continued


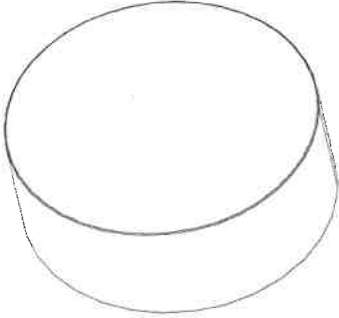
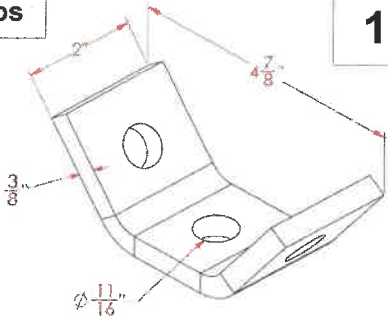
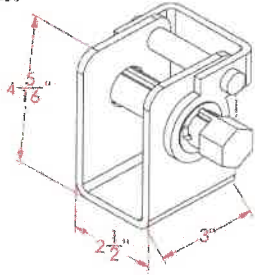
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p>1.7lbs</p> <p>418</p>  <p>PVC TUBE- 1" WHITE</p>	<p>0.0lbs</p> <p>414</p>  <p>CAMBUCKLE- 1" X 36"</p>
<p>0.0lbs</p> <p>415</p>  <p>RATCHET- 1" RATCHET- WITH 1" X 6' STRAP</p>	<p>0.0lbs</p> <p>413</p>  <p>BELTING - 1"X100' ROLL</p>

Part number noted in upper right corner when available.

Building Components Continued

Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

 <p>FASTENING TUBE</p>	 <p>PLASTIC FASTENING TUBE CAP</p>
<p>1.2lbs</p> <p>149</p>  <p>BRKT - CROSS CABLE DOUBLE TAB</p>	<p>3.6lbs</p> <p>318R/ 319L</p>  <p>LASHING WINCH- RIGHT/LEFT HAND- 3" X 2 1/2" X 4 5/16"</p>
	<p>C CHANNEL</p>

Part number noted in upper right corner when available.

Foundation Requirements for the Building

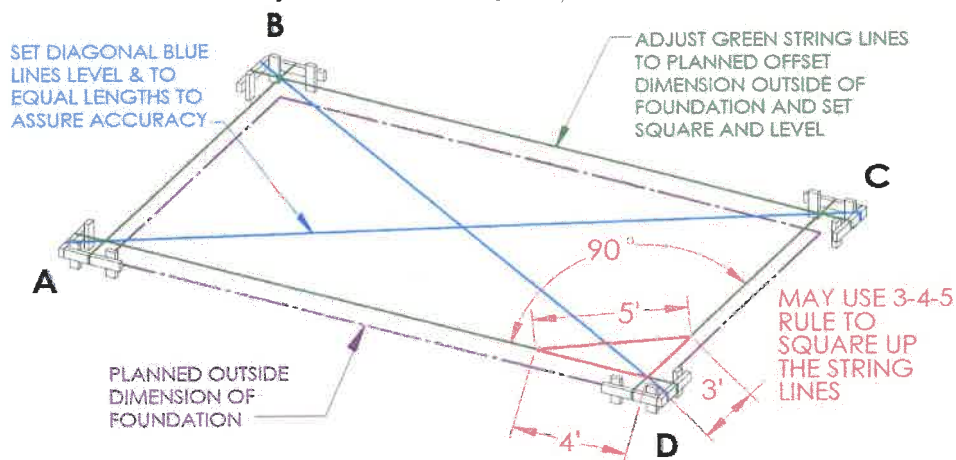
It is important that your building is square and level. To ensure this accuracy, it is recommended to have a qualified contractor or engineer complete the building plan layout. This described method is only a suggestion. Britespan Building Systems Inc. is not responsible for foundation design or installation. Site specific loads including, but not limited to, soil type, snow loads, wind loads and structure weight are a determining factor for foundation requirements. It is recommended you consult with a qualified engineer for building codes and load specifications in your area.

IMPORTANT: BRITESPAN IS NOT RESPONSIBLE FOR FOUNDATION DESIGN OR INSTALLATION.

There are several ways to find "square" in a building foundation. All methods use some sort of diagonal measurement. When a building is square the two diagonal measurements from opposite corner to opposite corner will be exactly the same.

Positioning the Building Square

1. Ensure the site is level.
2. Using ground stakes and batter boards, mark just outside the approximate position of where the four corners of the foundation will be.
3. Measure and run a string line from batter board at corner A to batter board at corner B.
4. Measure and run a string line (perpendicular to A - B line) from corner B to corner C.
5. Repeat steps 3 and 4, from C to D and D to A.
6. Adjust string lines C to D and D to A to exact width and length of foundation.
7. Measure both diagonals from opposite corner to opposite corner. A to C and B to D.
8. If the layout is square these measurements will be equal.
9. Measure and stake the frame on-centre intervals along both lengths of the building. Measure across the width to ensure consistency at each frame. Adjust accordingly.



Checking the Level of the Foundation

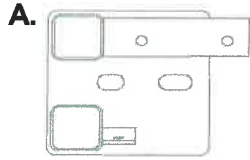
1. Using a protractor level, ensure that the foundation is plumb and level within a 1/4 inch for the entirety of the foundation or as specified by the foundation engineer.
2. Consult the foundation engineer in the event there needs to be corrective action taken to ensure plumb and level.

TIP: When pulling dimensions across long distances, use a steel or fiberglass tape measure to eliminate any stretching. Ensure to pull the tape quite firmly to prevent it sagging and changing the true dimension.

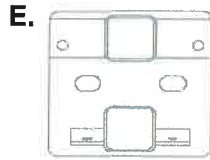
Baseplate Layout

IMPORTANT: Refer to the building specific sealed structural drawing labelled "Baseplate Layout".

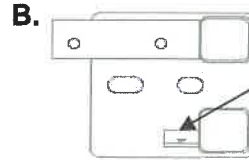
Determine the Anchor Bolt (not supplied) placement as per the Baseplate Layout and the Baseplate Details in the sealed structural drawings. Set anchor bolts as per the foundation engineers specifications.



Baseplate - Atlas 24
Left End



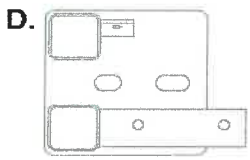
Baseplate - Atlas 24
Common



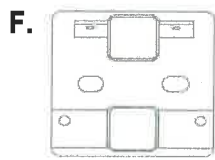
Baseplate - Atlas 24
Right End

Note: the Cross Cable Tab is toward the inside of the building

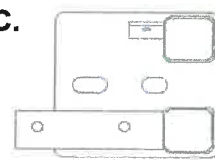
Atlas 80'L8' Baseplates shown for reference



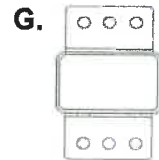
Baseplate - Atlas 24
Right End



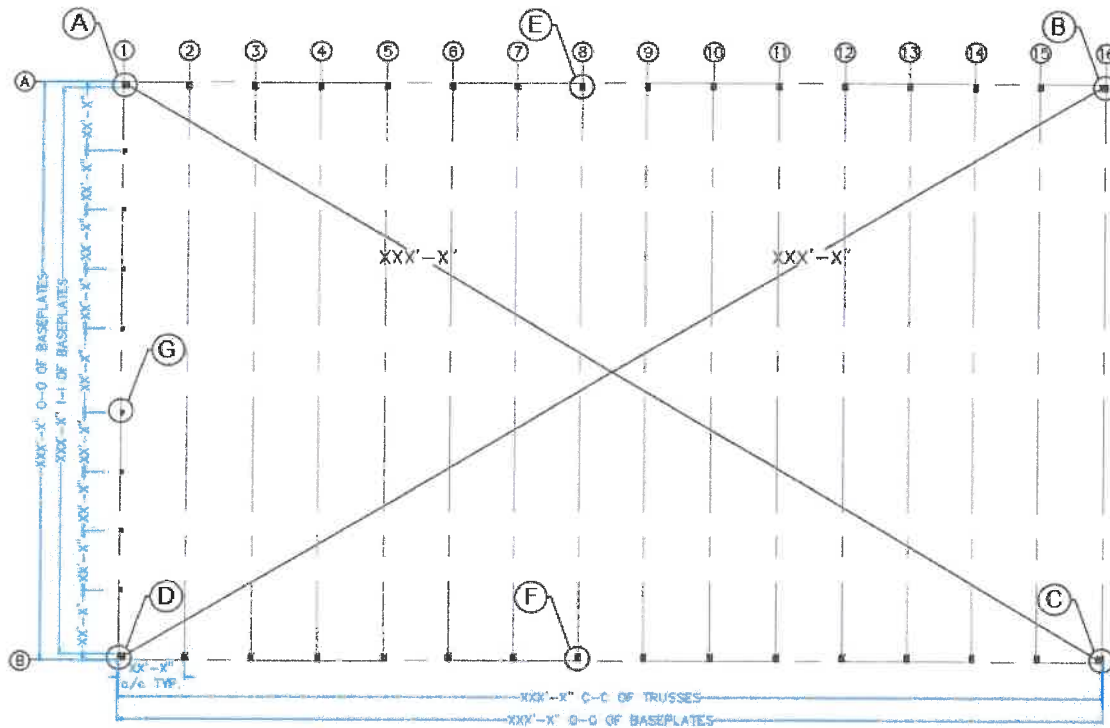
Baseplate - Atlas 24
Common



Baseplate - Atlas 24
Left End



Baseplate -
End Wall

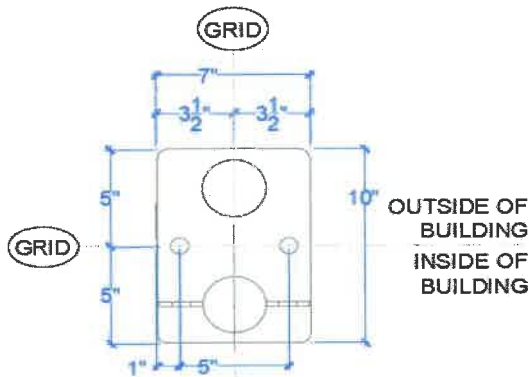


Baseplate Layout

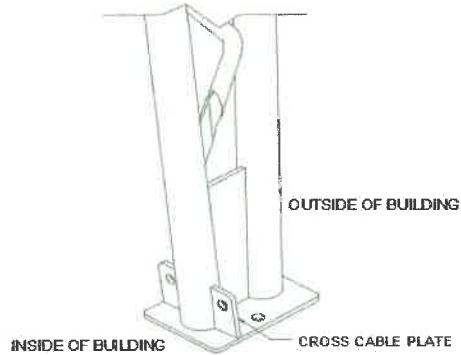
Baseplate Installation

IMPORTANT: Refer to the building specific sealed structural drawing labelled "Baseplate Layout".

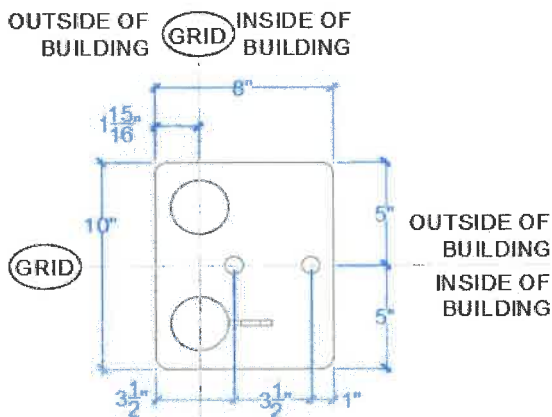
1. Place baseplates over anchor bolts and check for **level** and **plumb**.
2. Consult with the foundation engineer for acceptable means of levelling baseplates if found to be out of level or if anchors are not set properly.
3. Install nuts and/or washers (not supplied) over anchor bolts and torque to the foundation engineer's specifications.



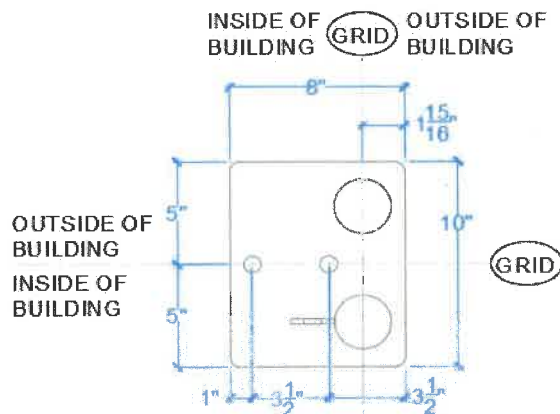
ATLAS 65'L10' / 72'L10' - COMMON



Note:
Anchor bolt holes: 13/16" dia.
Plate thickness: 1/2"



ATLAS 65'L10' / 72'L10' - LEFT



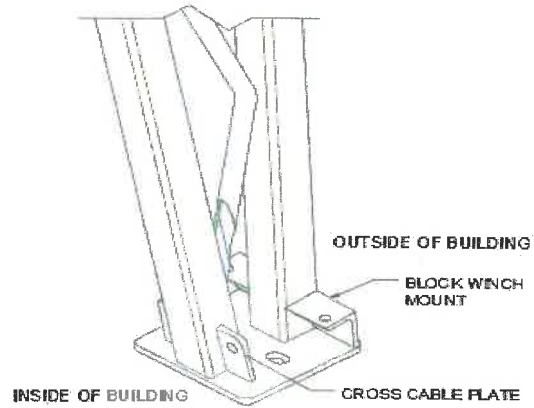
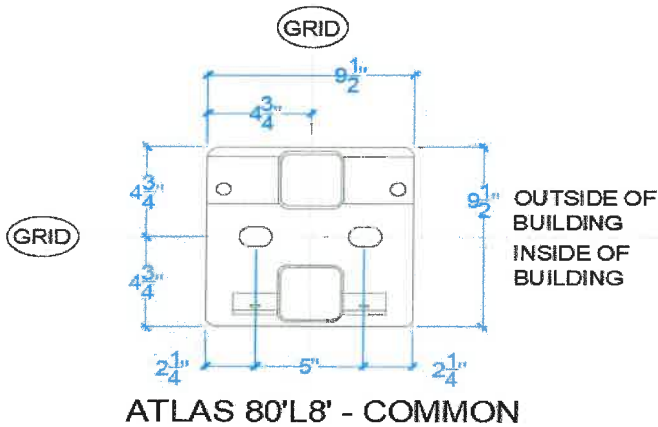
ATLAS 65'L10' / 72'L10' - RIGHT

Note: Some models incorporate square tube Chords as illustrated and some models use round Chords. Round Chords shown in these diagrams are shown for reference. Atlas 65'L10' and 72'L10' Models.

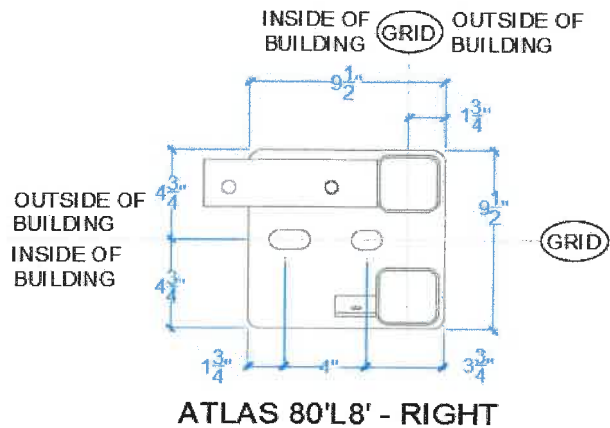
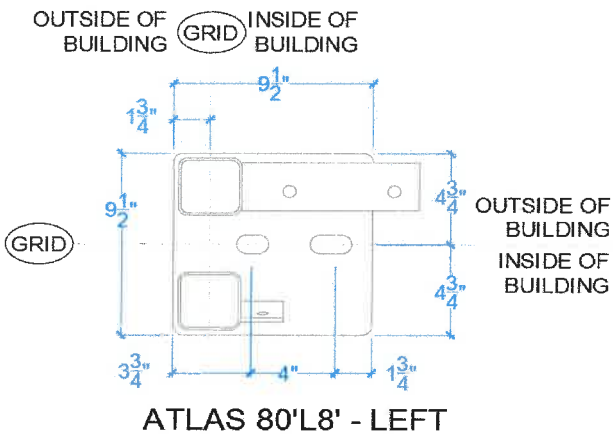
Baseplate Installation Continued

IMPORTANT: Refer to the building specific sealed structural drawing labelled "Baseplate Layout".

1. Place baseplates over anchor bolts and check for **level** and **plumb**.
2. Consult with the foundation engineer for acceptable means of levelling baseplates if found to be out of level or if anchors are not set properly.
3. Install nuts and/or washers (not supplied) over anchor bolts and torque to the foundation engineer's specifications.



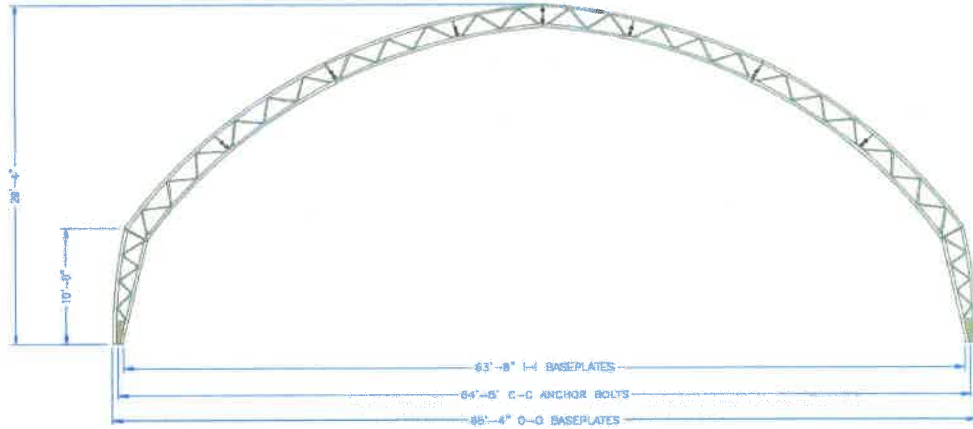
Note:
Anchor bolt holes: 1" x 1 1/2" slots
Plate thickness: 1/2"



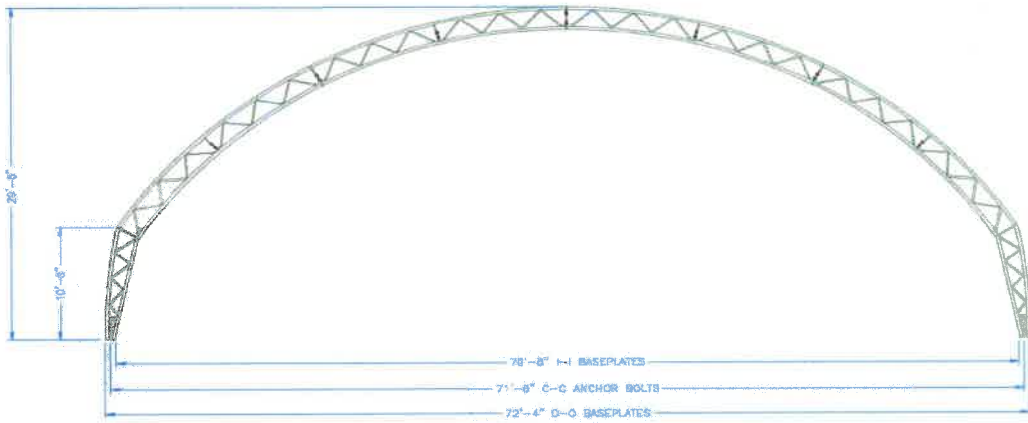
Note: Some models incorporate square tube Chords as illustrated and some models use round Chords. Square Chords shown in these diagrams are shown for reference. Atlas 80'L8' Model.

Baseplate Dimensions

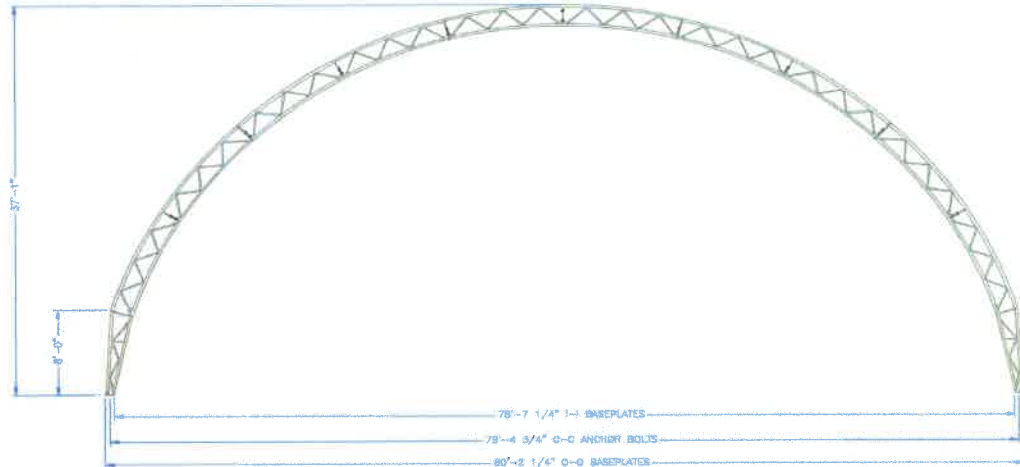
Atlas 65'L10'



Atlas 72'L10'



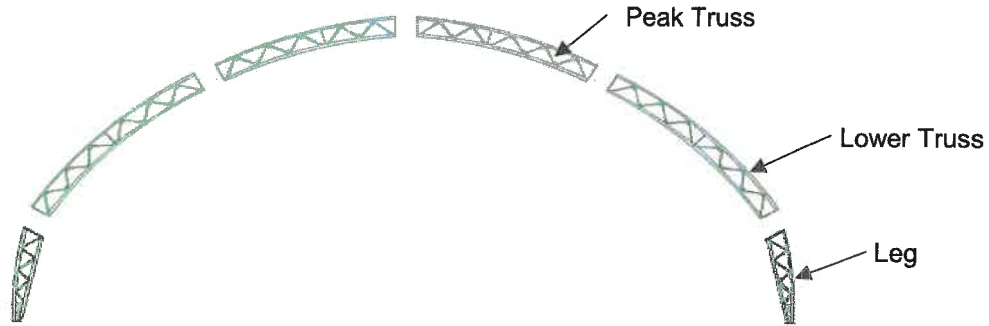
Atlas 80'L8'



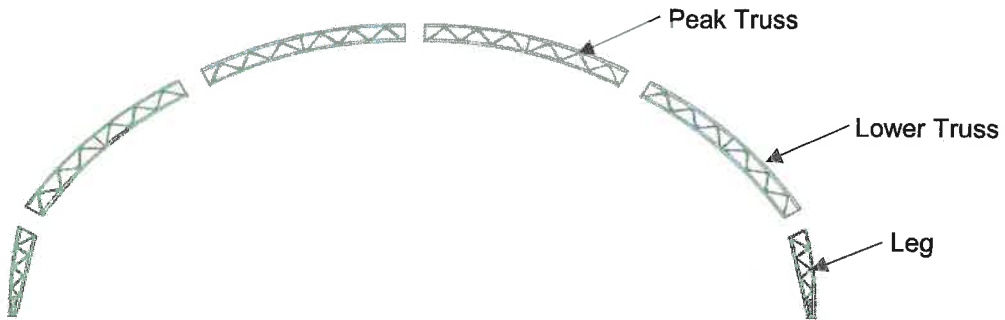
Truss Assembly

IMPORTANT: Check the Structural drawings for details of Truss section placement and orientation. In some cases, the Truss components are re-enforced and so must be placed and oriented as per the

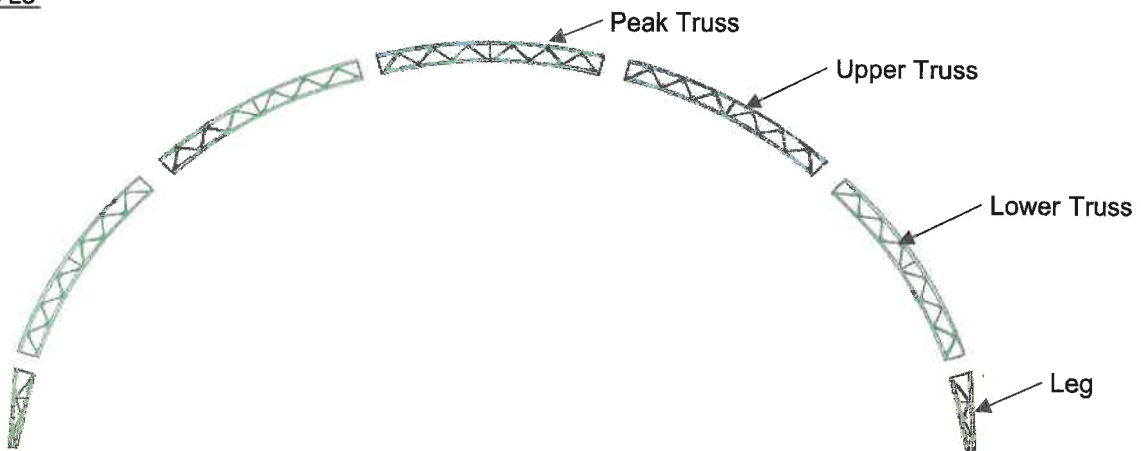
Atlas 65'L10'



Atlas 72'L10'



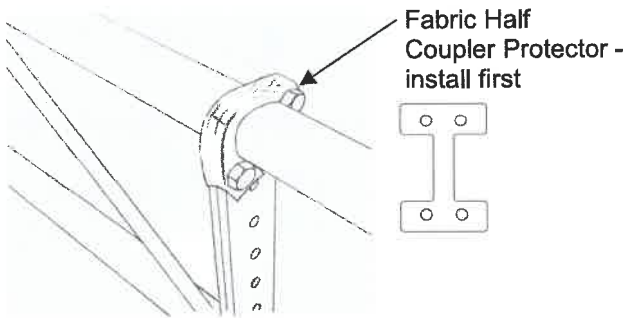
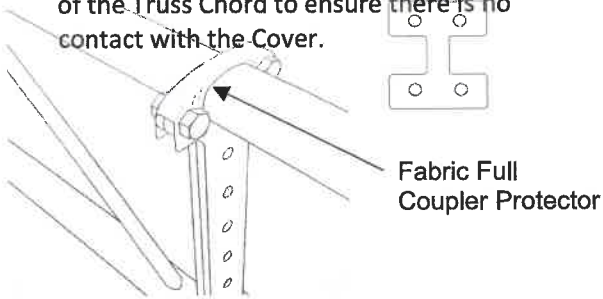
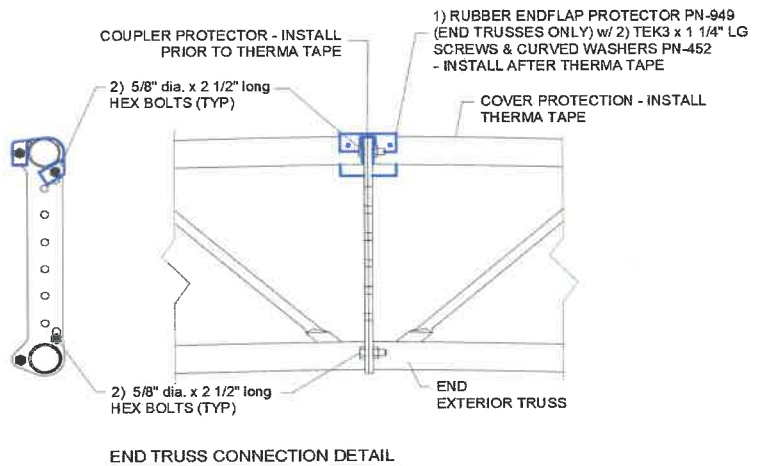
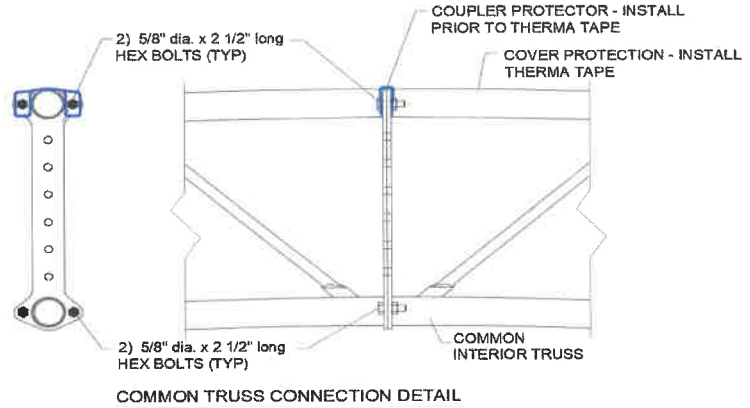
Atlas 80'L8'



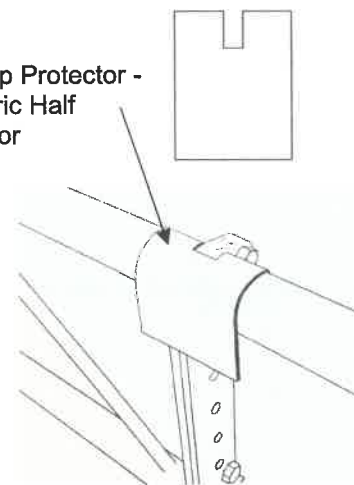
Truss Assembly Continued

IMPORTANT: Refer to the building specific sealed structural drawings labelled "Purlin and Cable Layout" & "Standard Details".

1. Ensure that Dogbones (Couplers) assemble flush. Ensure all holes align and bolts and nuts are tightened as per table from the building specific sealed structural drawing labelled "Cover Page".
2. On Common or Interior Trusses and End Trusses, install the Fabric Coupler Protectors by pushing each of the holes in the Fabric Protector fully over the appropriate bolt head. The friction will hold it in place.
3. To protect the Cover from damage and to maximize the Cover life, apply the Therma Tape to the top surface of the Truss Outer Chord. Ensure the surface is clean and dry before applying the tape.
4. On End Trusses only, install a Rubber Endflap Protector over the outside of each of the Couplers. Use two TEK3 screws c/w curved washers. Ensure the heads of the TEK screws are on the inside of the Truss Chord to ensure there is no contact with the Cover.



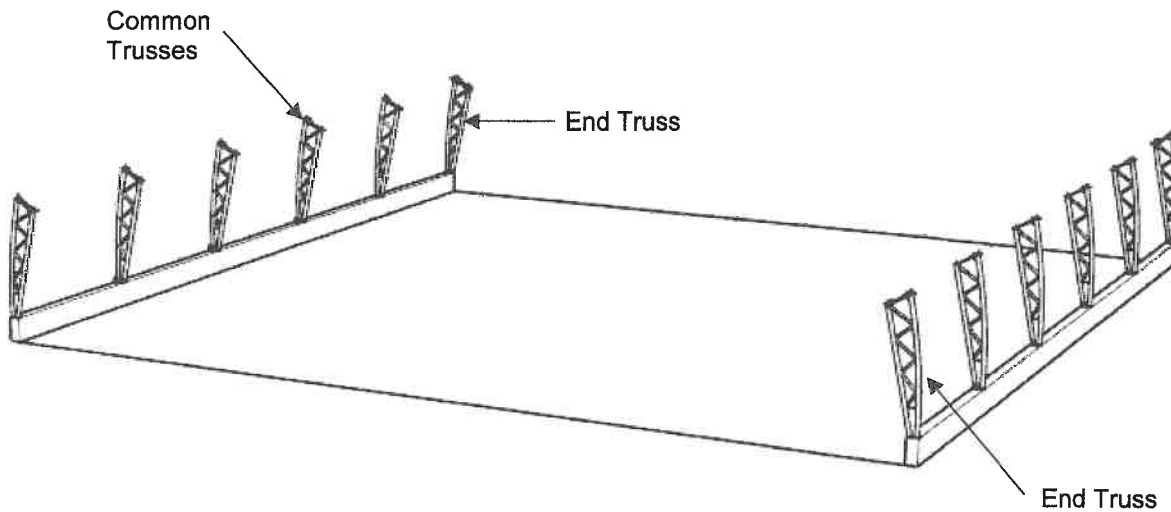
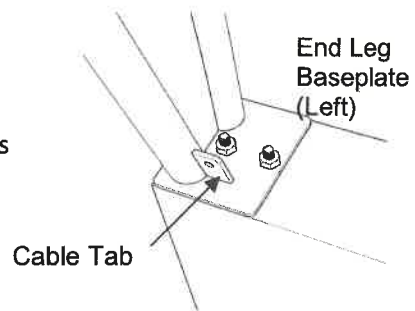
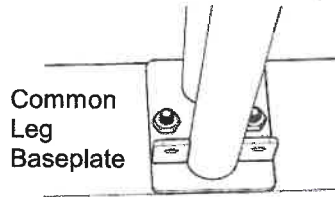
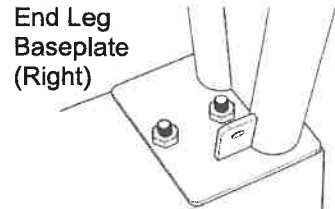
Rubber End Flap Protector - install after Fabric Half Coupler Protector



Erecting Trusses

IMPORTANT: Foundation anchor bolts need to be designed by a qualified foundation Engineer and are not supplied by Britespan Building Systems.

1. Mount the Legs to the foundation first. Fully tighten the foundation anchor bolts to the foundation Engineer's specifications.
2. Always check the profile of the building on the drawings and in the Manual to ensure the correct orientation of the Legs.
3. All buildings are supplied with two Left End and two Right End Legs. The top of the Leg will have an offset Dogbone Connector and the Baseplate will be offset toward the inside of the building. The Common or Interior Legs have a Baseplate that is symmetrical on both sides. See diagrams on this page.
4. To identify the End Legs, remember that the Left and Right Legs are identified from the **outside** of the end of the building. The Left Leg will be on your left etc. On the other end of the building, from the **outside** of the building, identify the Left and Right Legs in the same manner.
5. Note: orient the Leg so that the Cable Tab(s) on the Leg Baseplate is always toward the inside of the building.



Erecting Trusses

6. Assemble and position the Trusses so they can be easily reached with the crane for mounting on the top of the Legs that are bolted to the foundation.
7. Start with End 1 of the building and work in sequence to End 2.
8. Always use a spreader bar with multiple attachment point to the Truss to spread the load.



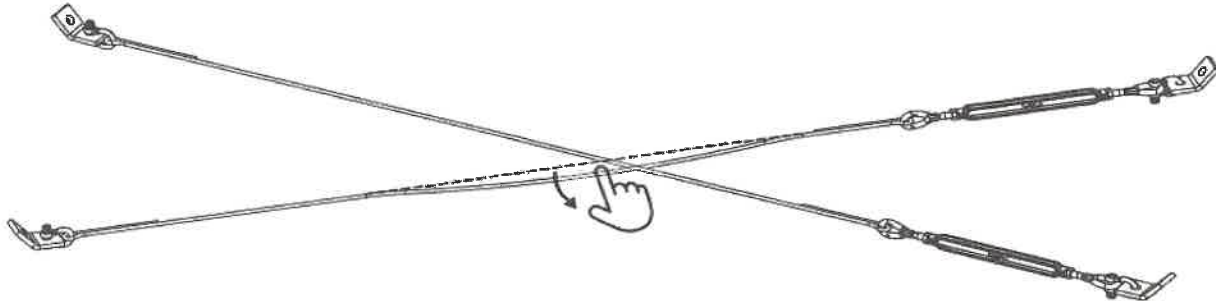
WARNING: A Spreader Bar and/or spread leg cables designed by a Lifting Engineer for a multiple point lift is required when erecting trusses with a crane to distribute weight, improve stability and prevent distortion of the Truss. **THE BUILDING WARRANTY IS VOID IF A SPREADER BAR IS NOT**

9. Lift the Truss Assembly with extreme caution. Carefully position the Truss on the top of the Legs and bolt the Leg and Truss Dogbone Couplers together with a minimum of four 5/8" dia. x 3" long bolts on each side of the building.
10. Check the Truss for plumb and brace the Truss with ropes and dimensional lumber so it is stable while the next Truss is placed.
11. Lift and mount the second (Grid 2) Truss in the same manner.
12. When the second Truss is secured and bolts, plumb the Truss and brace with ropes and dimensional lumber.
13. Proceed to the next page for details on installing the Purlins and Cross Cable bracing between the first and second Trusses.
14. Careful attention to detail ensuring that this first braced bay is square and plumb will provide a good straight and solid basis from which to erect the rest of the building.

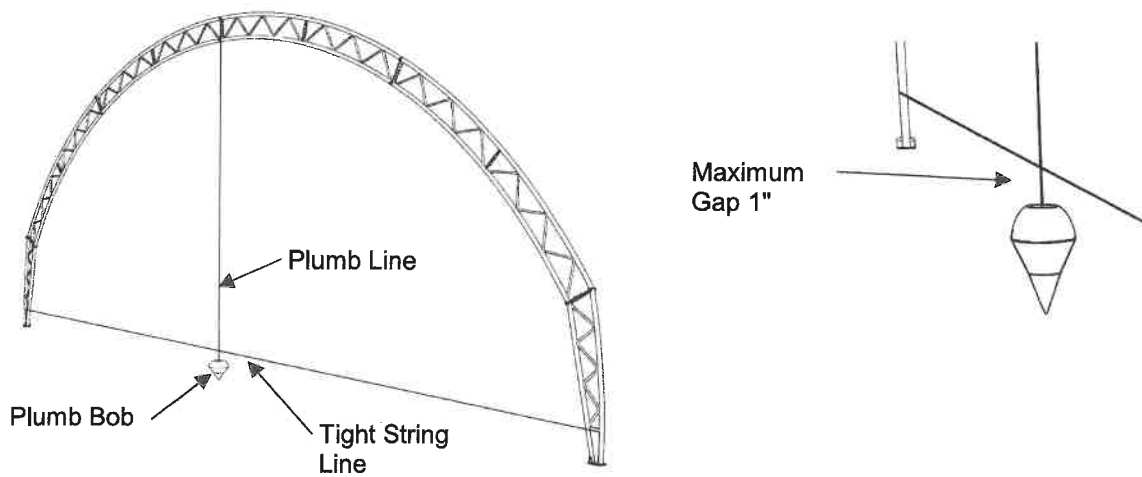
CAUTION: Protection of the aluminum Extrusion and Snap Cap (if equipped) must be provided during the lifting of the Truss frames.

Erecting Trusses Continued

15. Insert Horizontal Purlins, and Cross Cables as per the "End Purlin & X-Cable Layout" from the structural drawings. Open the turnbuckle of the cable fully before securing each end to the dogbone or king pin location. Then tension the cable by tightening the turnbuckle until there is between 1 1/2" to 2" of deflection when 50 pounds of force is applied. Ensure that the Cross Cables are approximately of equal length to apply equal force to each side of the Truss and ensure that the Truss is plumb. Attach Double Cable Tabs where there are cabled bays side by side and discard the Single Cable Tabs supplied with the Cables.



16. Adjust the Cross Cables to plumb the Trusses at Grid 1 and 2. Ensure to check both sides of the Truss Leg for plumb. Note that the maximum gap is determined by Truss and Leg Chord diameter.
17. Repeat raising the Trusses, securing to the Baseplates, installing Purlins and Cross Cables and temporarily bracing for the remainder of the building. Follow the Structural drawings for all Purlin and Cross Cable placement. Ensure that each frame is plumb and level at each grid. All bolts and nuts must match the sizing and tightening specifications listed in the Structural drawings. Check to ensure that all Extrusion and Snap Cap have remained aligned and are undamaged.

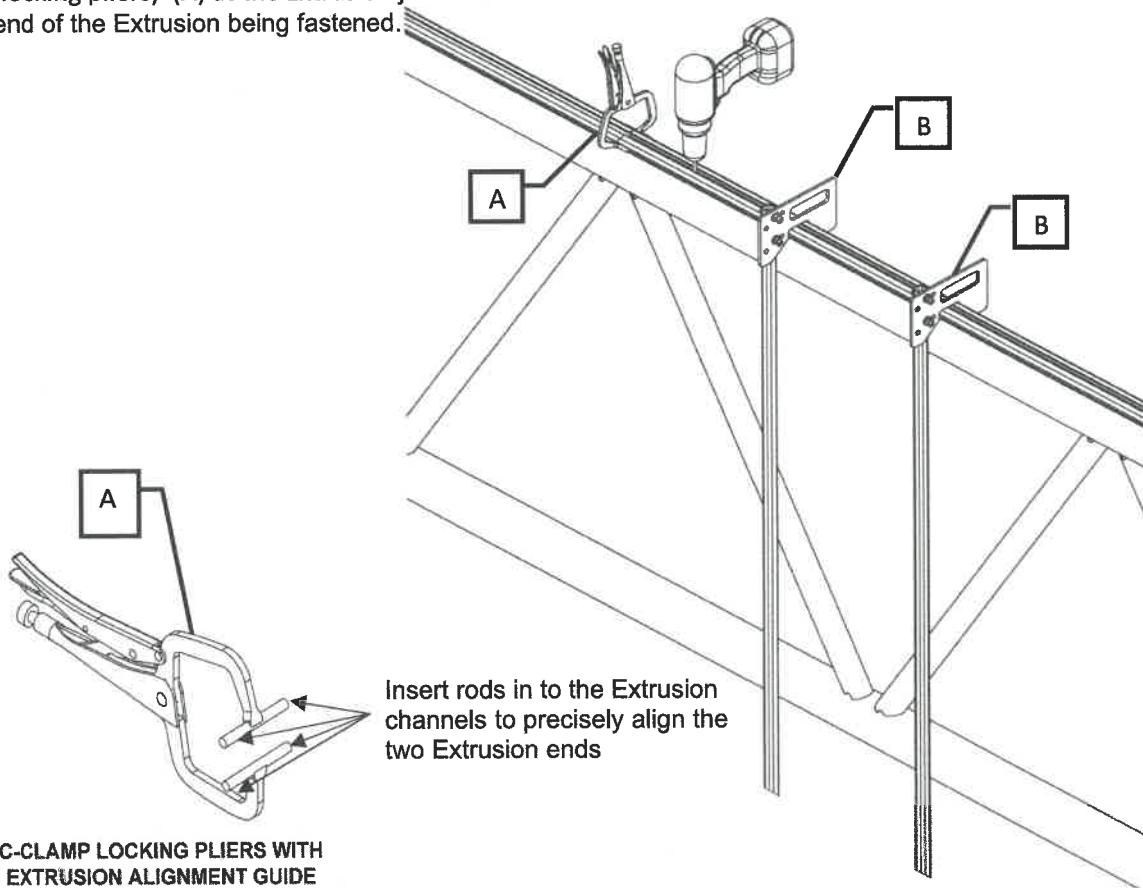


IMPORTANT: Ensuring that frames are plumb and level will improve the fit and finish of the installed cover fabric with less wrinkling and overall longevity of the fabric's durability. Failure to do so will affect the validity of the limited warranty.

Cover Joint Extrusion Installation

IMPORTANT: Buildings longer than 144' will have more than one Cover. Use these instructions if the Cover Joint is specified as a "Kedered Extrusion Joint". Please refer to the Structural drawings for

1. Install foam Butyl Tape centred on the top Chord of the assembled Truss from one side to the other.
2. Cut lengths of aluminum Extrusion according to the "Extrusion Layout" in the Structural drawings. Confirm on site, the length of the final piece of Extrusion marked on the drawing as "field verify".
3. Ream each end of the Extrusion to ensure that the channels where the fabric runs have no snags or burrs and that the Extrusion will join flush to the next piece of Extrusion.
4. Install the Extrusion centred on the top of the top Chord from the base of the intended finished Cover to the base of intended finished Cover on the other side. Use an Extrusion Alignment Guide (locking pliers) (A) at the Extrusion joint and a Universal Extrusion Guide Assembly (B) on each end of the Extrusion being fastened.

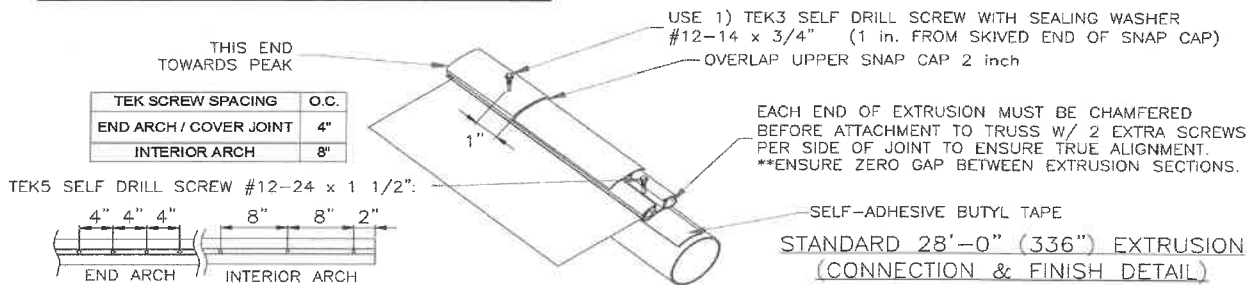


C-CLAMP LOCKING PLIERS WITH EXTRUSION ALIGNMENT GUIDE

Cover Joint Extrusion Installation Continued

5. Install TEK 5 screws as per the "Standard 28'-0" (336") Extrusion (Connection & Finish Detail)" on the Structural drawing labelled "Extrusion Layout". See Sample Detail below.
6. To reduce the risk of stripping or breaking TEK screws when installing select a driver that has a clutch limiting torque setting as not to over tighten. It is also recommended that the driver use a lithium powered battery as this will reduce torque variation over the life of the battery charge.
7. Ensure that each Extrusion Joint has two TEK 5 screws installed through virgin material, not the factory drilled hole on each side of the joint. This will ensure maximum alignment accuracy.

Sample Detail from the Structural Drawing



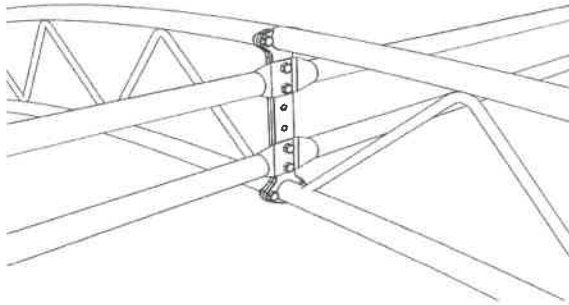
IMPORTANT: The first two self tapping TEK screws, installed 2" from the end of the Extrusion, must be drilled directly through virgin aluminum to ensure accurate alignment of the aluminum Extrusion Joints. Do not use a pre drilled hole at this location.

8. Starting from the base of the installed Extrusion on one side, tap the Snap Cap into the centre channel of the Extrusion with a rubber mallet.
9. Skive the first 2" of locking tab from the underside of the next length of Snap Cap. Tap this next Snap Cap into the Extrusion, so that it overlaps the lower length of Snap Cap by 2" and secure with

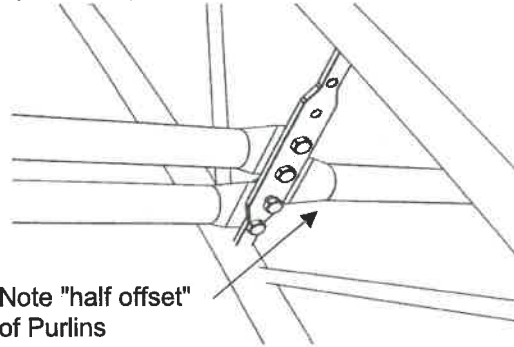
OPTION: Thread a pull rope in each fabric channel of the Extrusion so that when the Trusses are completely erected and the Covers are ready to install, the kedered end of the Covers can be quickly set-up to install.

Purlin Placement

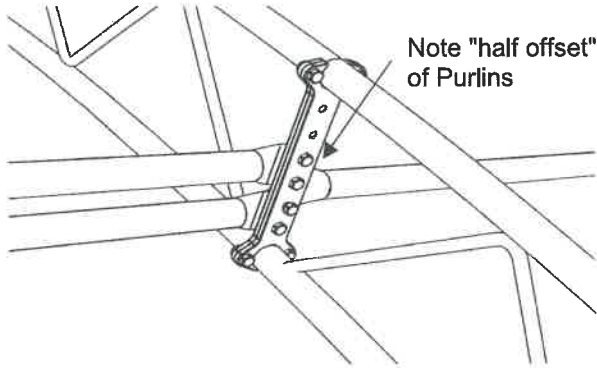
R (RIDGE)



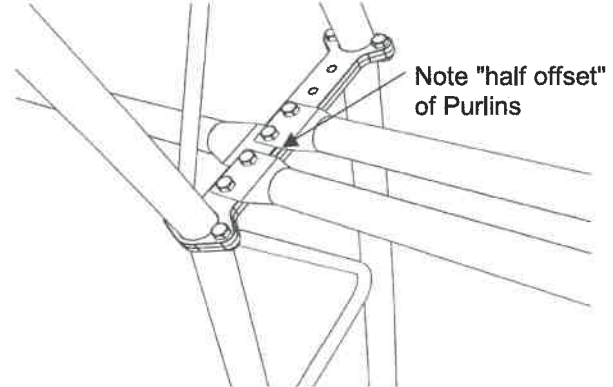
P (KINGPIN)



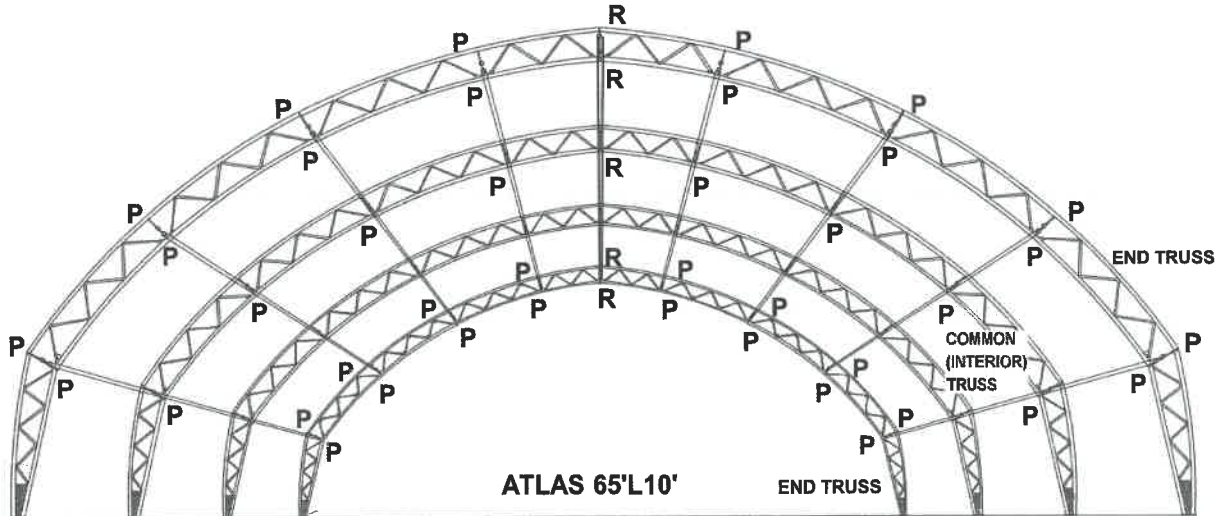
P (DOGBONE CONNECTION)



P (DOGBONE CONNECTION - TOP OF LEG)

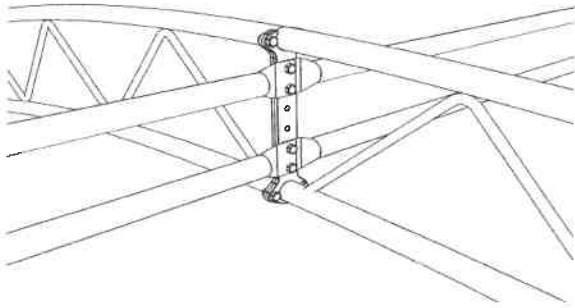


NOTE: Double Ridge Purlin the full length of the building. Other locations the double Purlins are in the End Bays only.

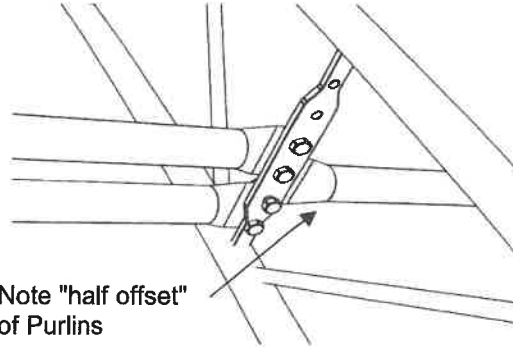


Purlin Placement Continued

R (RIDGE)

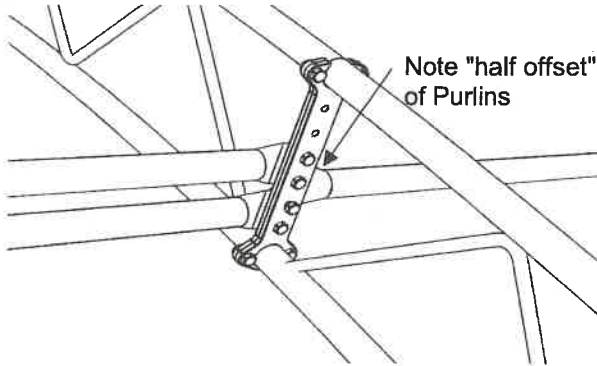


P (KINGPIN)



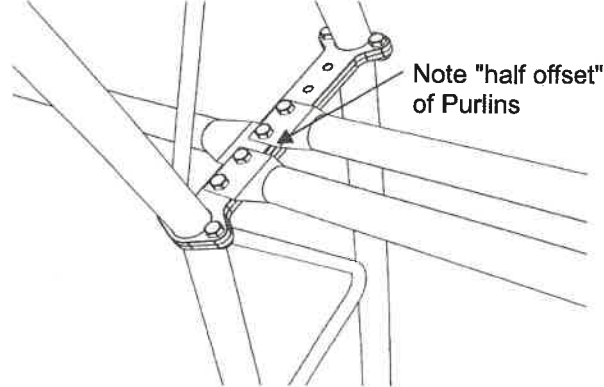
Note "half offset" of Purlins

P (DOGBONE CONNECTION)



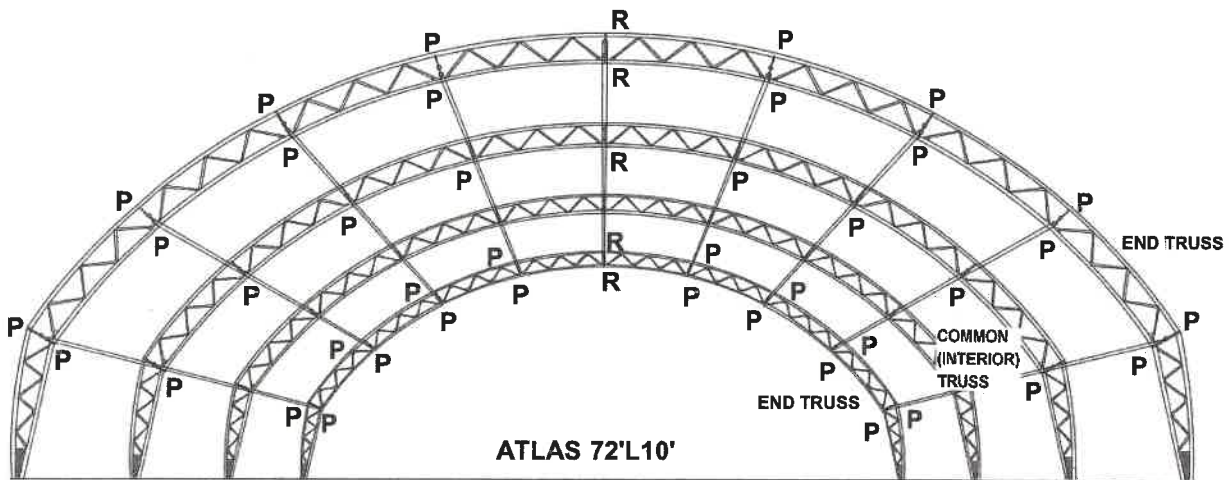
Note "half offset" of Purlins

P (DOGBONE CONNECTION - TOP OF LEG)



Note "half offset" of Purlins

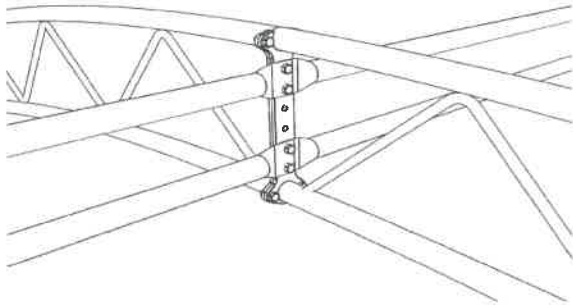
NOTE: Double Ridge Purlin the full length of the building. Other locations the double Purlins are in the End Bays only.



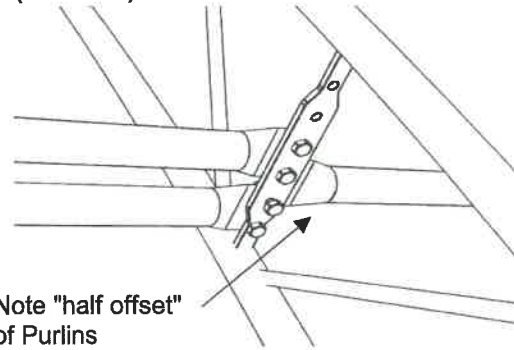
ATLAS 72'L10'

Purlin Placement Continued

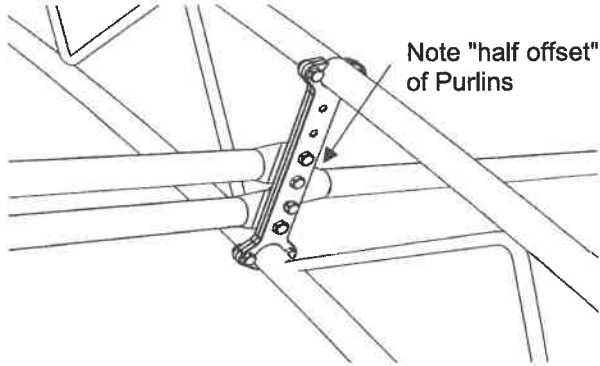
R (RIDGE)



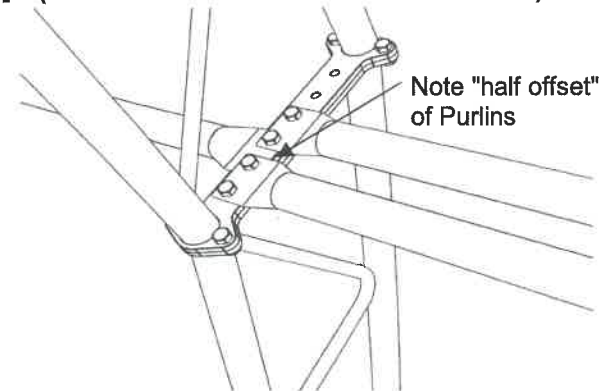
P (KINGPIN)



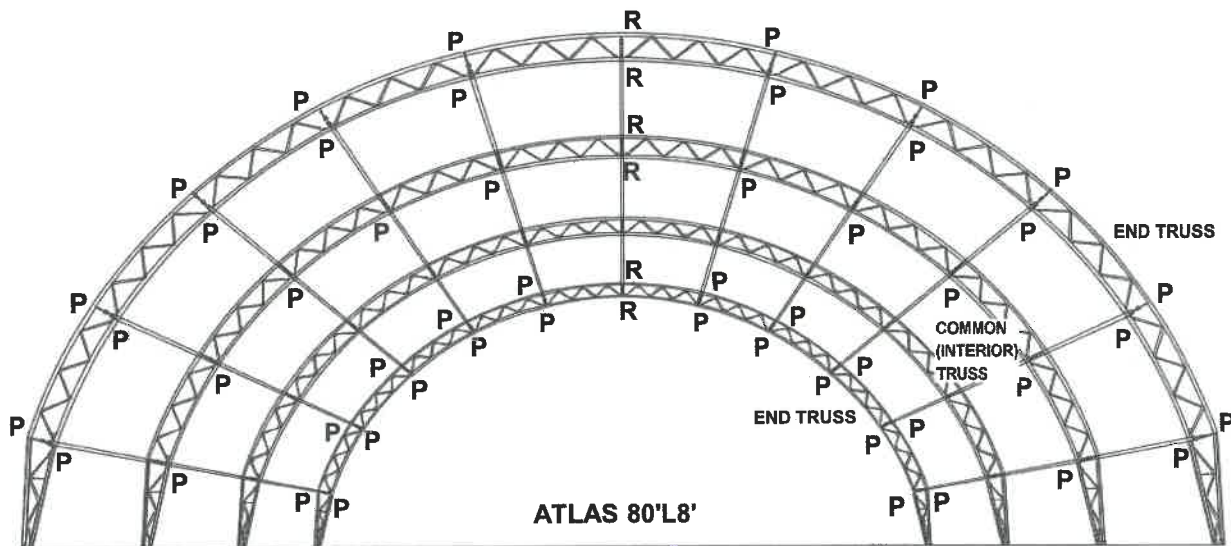
P (DOGBONE CONNECTION)



P (DOGBONE CONNECTION - TOP OF LEG)

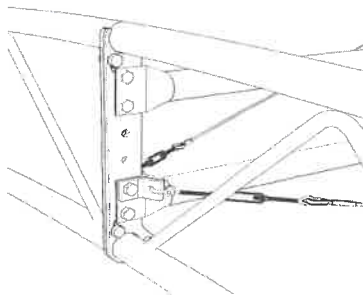
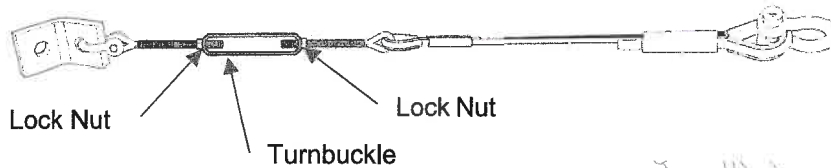


NOTE: Double Ridge Purlin the full length of the building. Other locations the double Purlins are in the End Bays only.

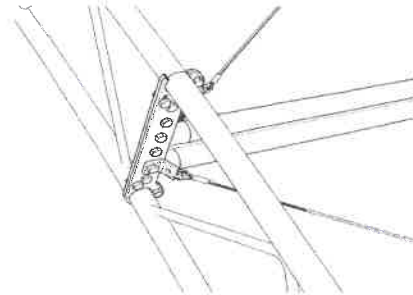


Cross Cables

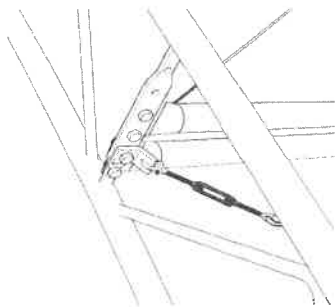
1. Install all of the Cross Cables as per the "End Purlin & X-Cable Layout" from the building specific sealed structural drawings. Open the turnbuckle of the cable fully before bolting each end to the Dogbone or Kingpin location.
2. Tension the Cross Cables by tightening the turnbuckle until there is between 1 1/2" to 2" of deflection when 50 pounds of force is applied at the middle of the cable.
3. Measure each of the Cross Cable lengths to ensure that the cross cables are approximately of equal length to apply equal force to each side of the truss and ensure that the truss is plumb
4. Measure each of the Cross Cable lengths to ensure that the cross cables are approximately of equal length to apply equal force to each side of the truss and ensure that the truss is plumb.
5. Tighten both of the Turnbuckle lock nuts on the each Cross Cable to prevent the Turnbuckle from rotating and loosening the Cable.



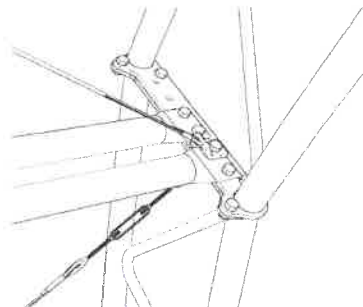
End Truss Peak



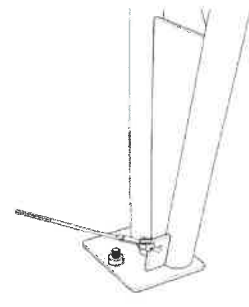
End Truss Dogbone



End Truss Kingpin



End Truss Top of Leg

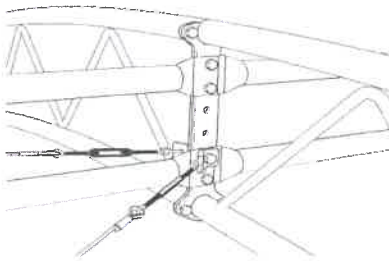
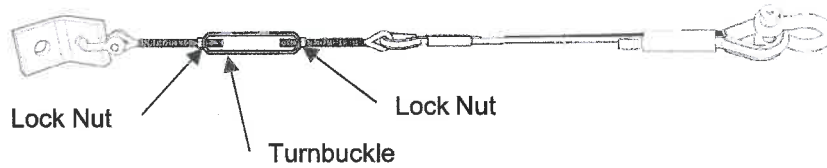


End Truss Base of Leg

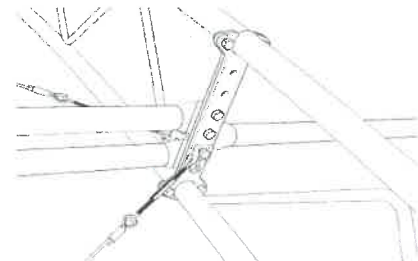
Cross Cables Continued

1. The Cross Cables attached to the second (interior) Truss in the same manner as on the End Truss.
6. Note the Cable is bolted to the second from bottom hole in all locations.
7. Refer to the chart below for bolt sizes at the various locations.

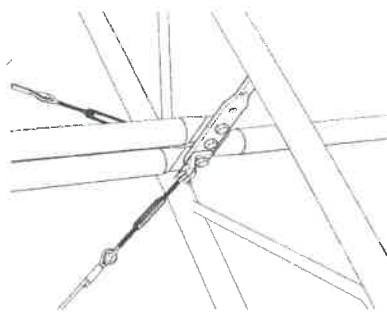
Location	Bolt Size
Coupler (Dogbone)	5/8" dia. x 3" long
Kingpin	5/8" dia. x 2 1/2" long
Leg Baseplate	5/8" dia. x 2" long



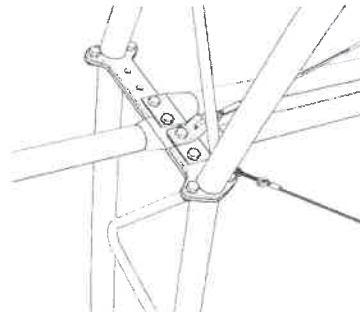
Interior Truss Peak



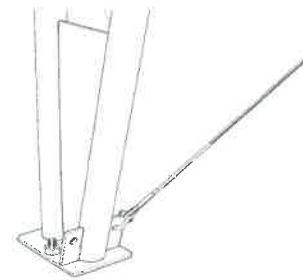
Interior Truss Dogbone



Interior Truss Kingpin



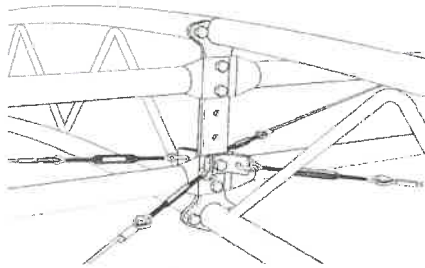
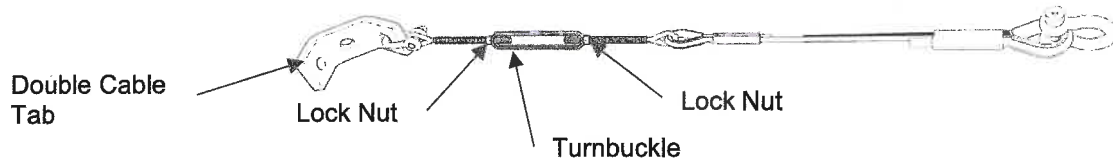
Interior Truss Top of Leg



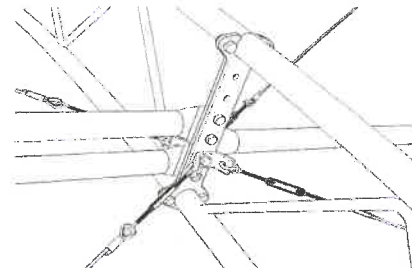
Interior Truss Base of Leg

Cross Cables Continued

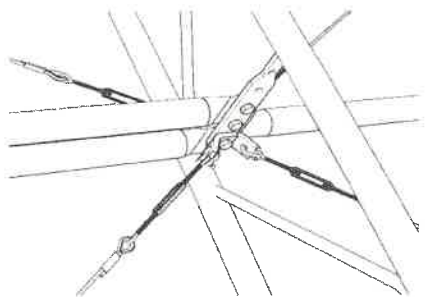
8. If the "End Purlin & X-Cable Layout" from the building specific sealed structural drawing specifies Double Cabled Bays (Cross Cables in two or more adjacent bays), the single Cable Tab attached to the end of the Cross Cable needs to be exchanged with the supplied Double Cable tab. See illustration below.
9. The single Cable Tab can be discarded or retained for spares.
10. The Bolt sizes remain the same as for the the Single Cable Tab arrangement. See the chart on the previous page.
11. As before, measure each of the Cross Cable lengths to ensure that the Cross Cables are approximately of equal length to apply equal force to each side of the Truss and ensure that the Truss is plumb.
12. Tighten both of the Turnbuckle lock nuts on the each Cross Cable to prevent the Turnbuckle from rotating and loosening the Cable.



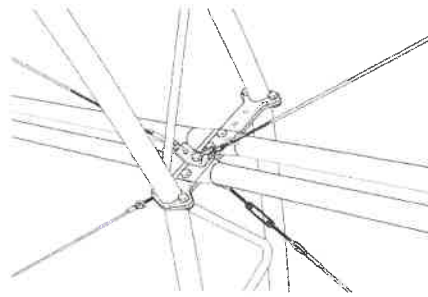
Interior Truss Peak



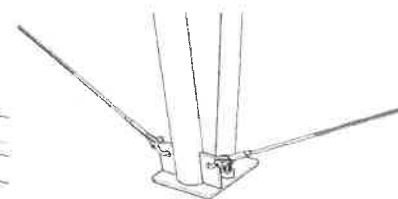
Interior Truss Dogbone



Interior Truss Kingpin

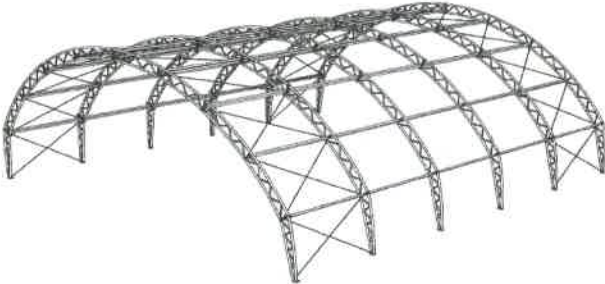


Interior Truss Top of Leg

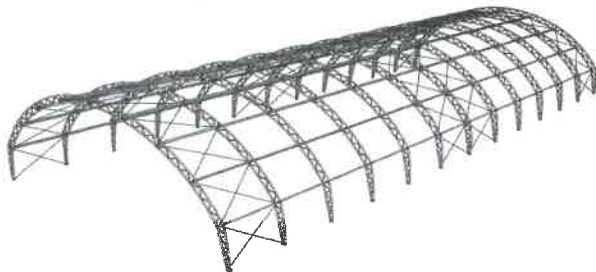


Interior Truss Base of Leg

13. The Cross Cables are located in the bays as described in the Structural drawings on the "End Purlin & X-Cable Layout" page. The diagrams below illustrate some of the typical arrangements.



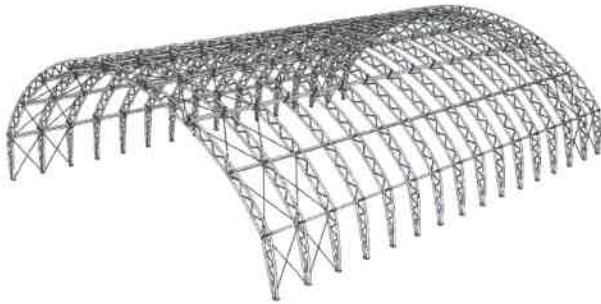
Typical Cabled End Bay Arrangement



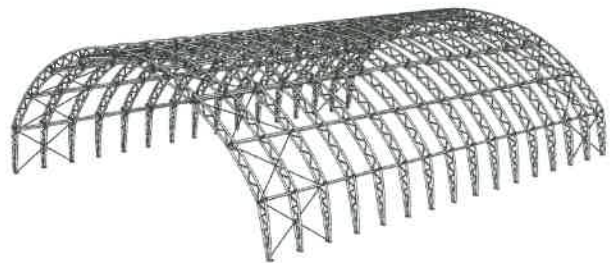
Long Building Cabled Bay Arrangement

14. Atlas 24 buildings longer than 144' have more than one Cover and there are two Cross Cabled bays at the Cover Joint in the middle of the building.

Important to note that the Cross Cables are of different length depending on the location in the building. Always refer to the Structural drawings.



Double Cabled End Bay Arrangement - 8' oc



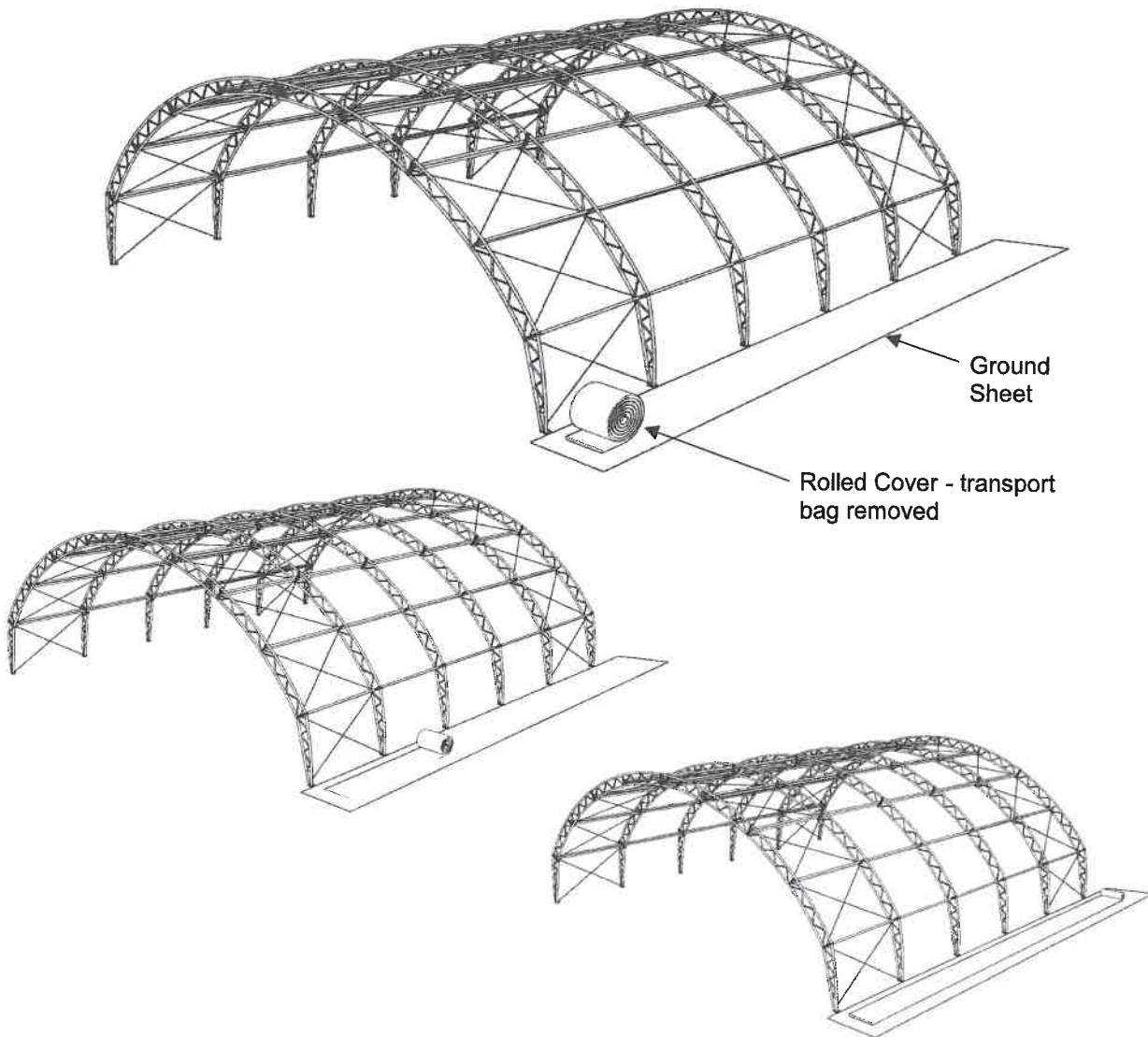
Double Cabled End Bay Arrangement 4', 5', 6' oc

15. A building with 8' oc Truss Spacing will be specified with two Cross cabled bays at each end of the building.

16. With 4', 5' and 6' oc Truss Spacing, the Cross Cables span two bays. Ensure the spanned cables do not contact Truss or Leg Webbing tubes.

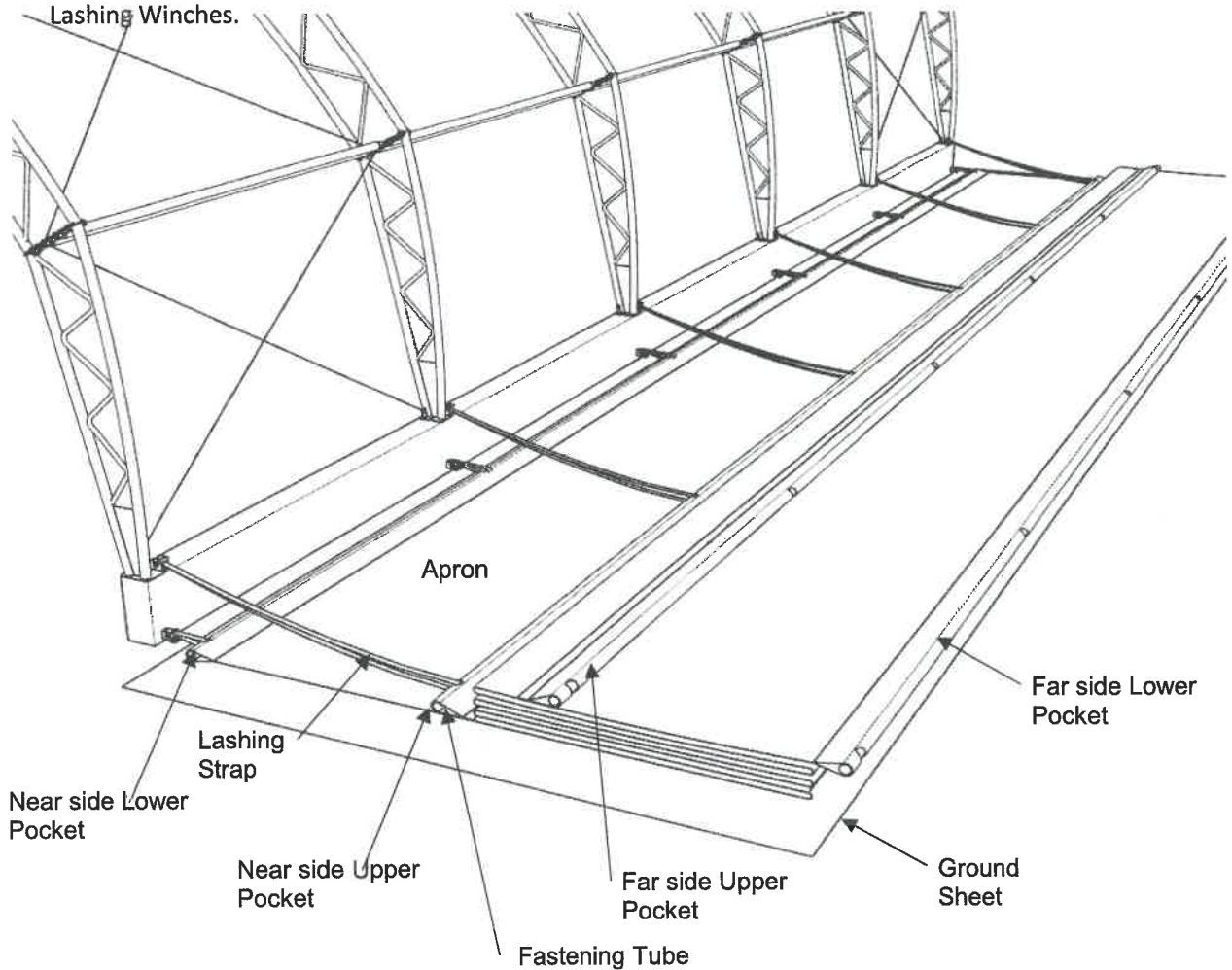
Installing the Cover

1. Lay down a ground sheet to keep the Cover clean.
2. Position the rolled Cover at one end of the building as shown in the diagram. Refer to the label on the Cover bag for un-rolling and positioning instructions.
3. The Cover is bundled and labelled with the intended installation order of End 1 to End 2 and pulling from Side B to Side A.
4. Carefully un-roll the Cover to the other end of the building.



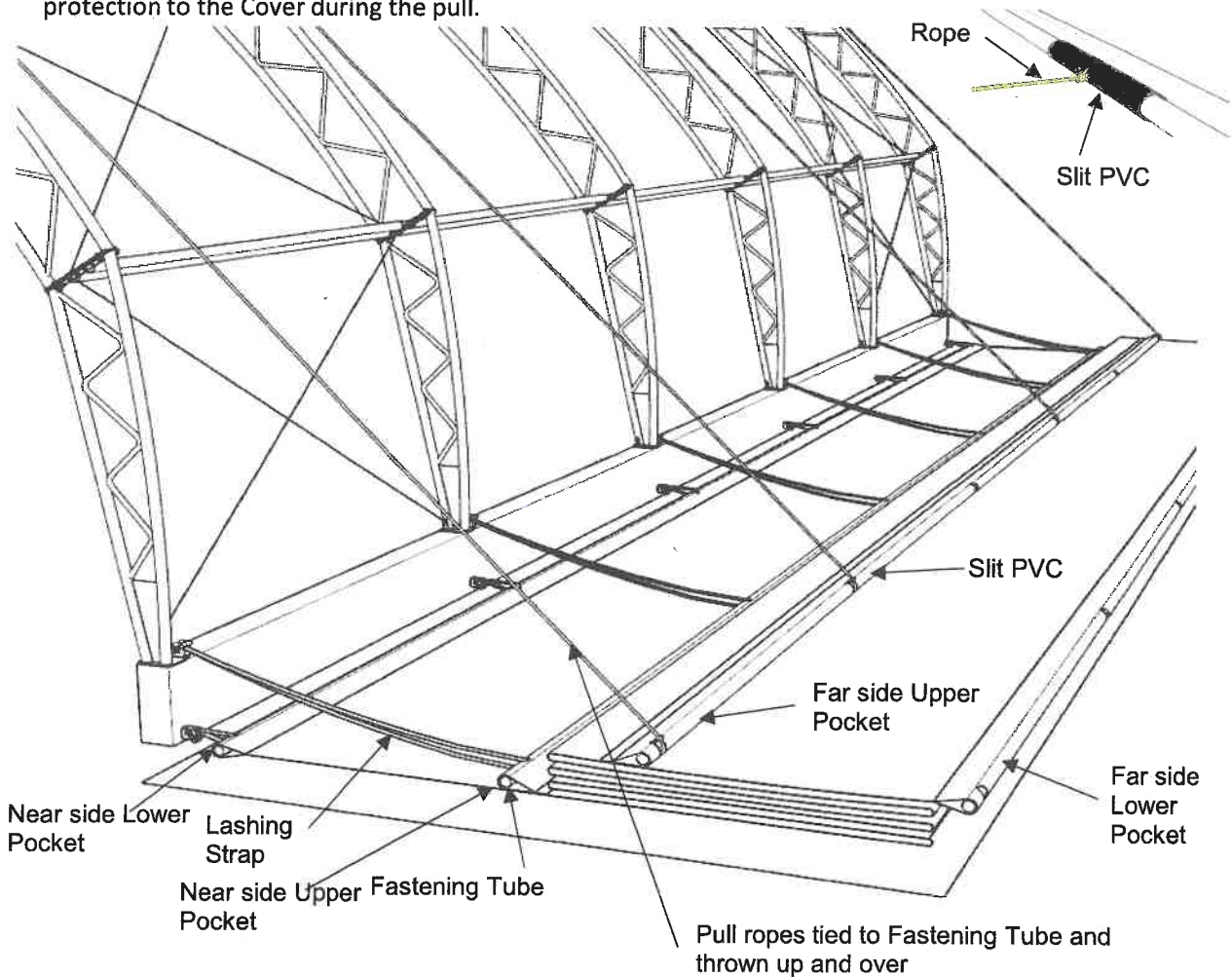
Installing the Cover Continued

5. Pull out the Cover to expose the near side Fastening Tube Pockets and Apron.
6. Insert the Fastening Tubes into the Upper and Lower Fastening Tube Pockets on the side of the Cover nearest the building. Note that the type of Cover that can be supplied varies. Please refer to the Cover Termination pages of this Manual for details of 220 Single Pocket and 320 Two Pocket Termination.
7. Care must be taken when inserting the Fastening Tube to ensure the Cover Pockets are not damaged by any sharp edges of the Fastening Tube. It is common practice when installing to temporarily attach a wooden or plastic "bullet" into or over the end of the Fastening Tube.
8. Loop the Lashing Straps around the Fastening Tubes and start the Straps into their respective Lashing Winches.



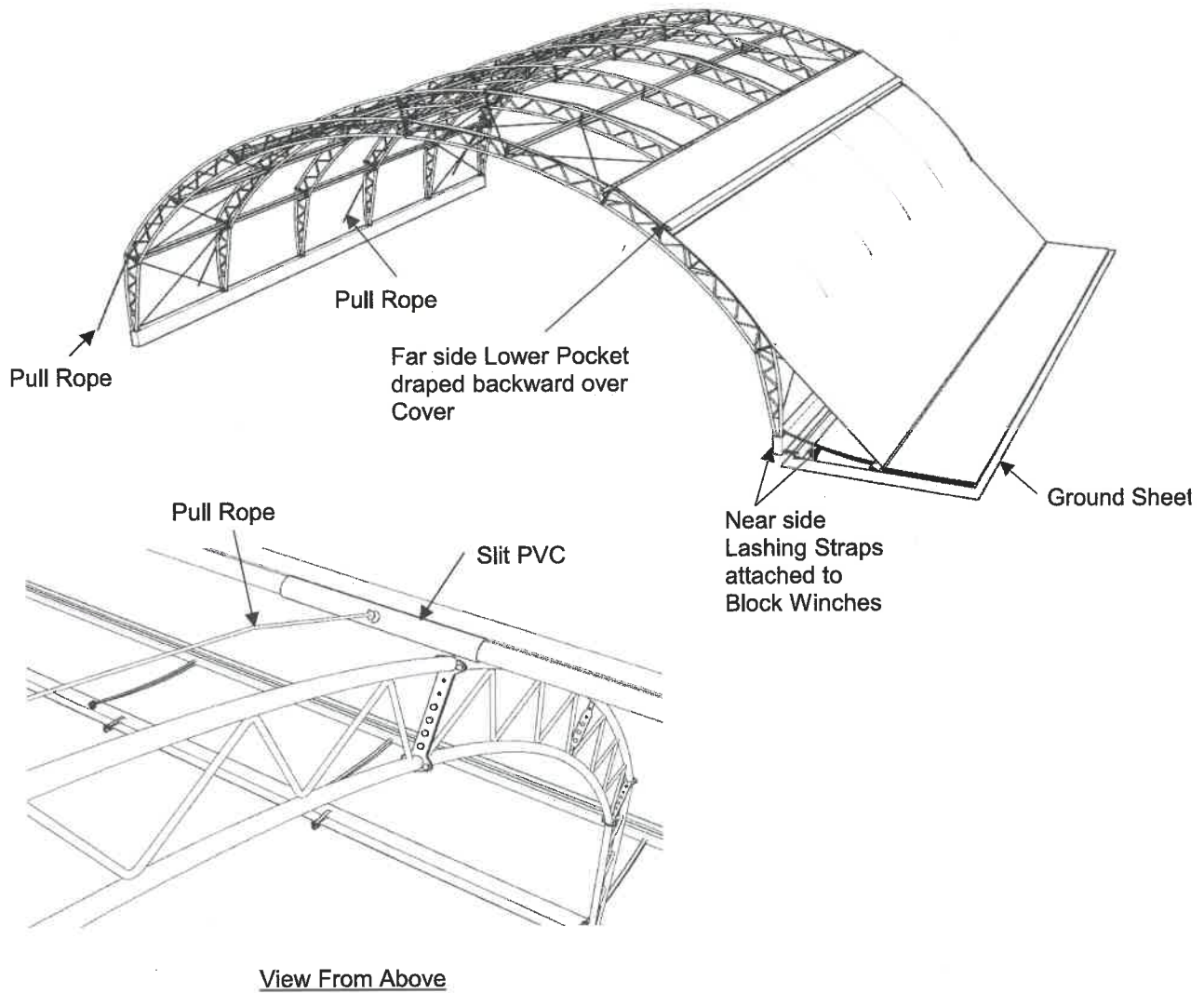
Installing the Cover Continued

9. Tie 1/2" nylon rope or similar to the Upper Fastening Tube installed in the far side of the Cover Upper Pocket. One rope is required every 20 to 30' depending on the Cover size and wind conditions.
10. Throw the ropes up and over the building framework to the far side. Ensure the ropes are over the top of any of the Truss frames or Purlins to ensure a smooth, problem free Cover pull.
11. As a last check, double check to ensure all the Truss Couplers have the Coupler Protectors installed and that any sharp metal edges have been properly covered or protected. Any sharp edge can cut, tear or abrade the Cover when it is being installed.
12. At the installers discretion, a PVC or ABS pipe that has been slit open and a rope clearance hole drilled can be installed over the Fastening Tube near the ropes to provide additional abrasion protection to the Cover during the pull.



Installing the Cover Continued

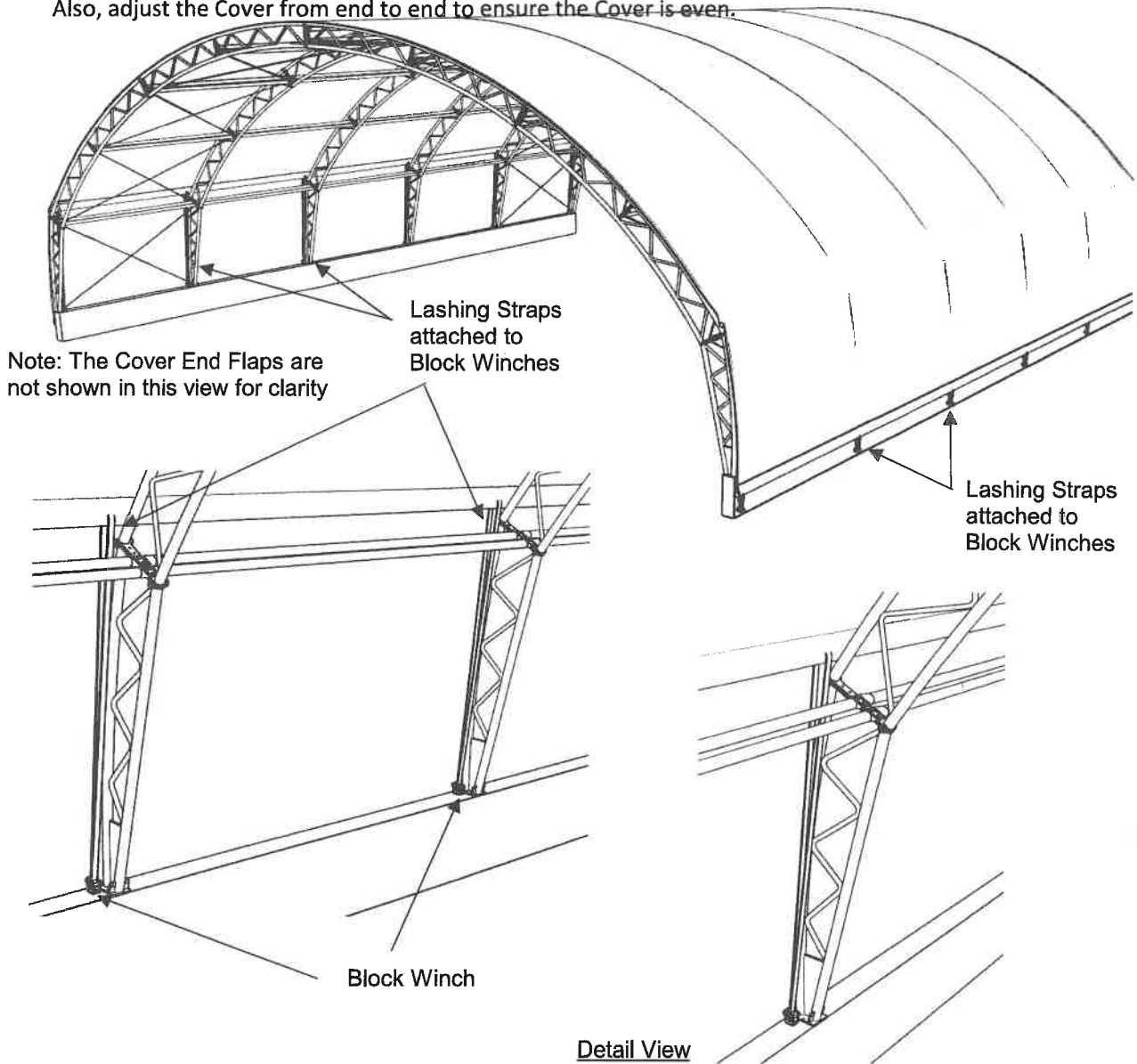
13. Pull the Pull Ropes from the far side of the building to pull the Cover up and over the building. Pull all ropes evenly and smoothly and stop if a rope or the Cover snags.
14. It is best to pull the Cover onto the building in very light wind conditions. Preferably with the wind coming from the side of the building you are pulling from. The wind will lift the Cover slightly off the framework, thus reducing friction.



CAUTION: Keep a watchful eye on the Cover at all points of the pulling process. In addition, do not leave the building un-attended at this stage of the process. The Cover must be tensioned and secured before the building is left un-attended.

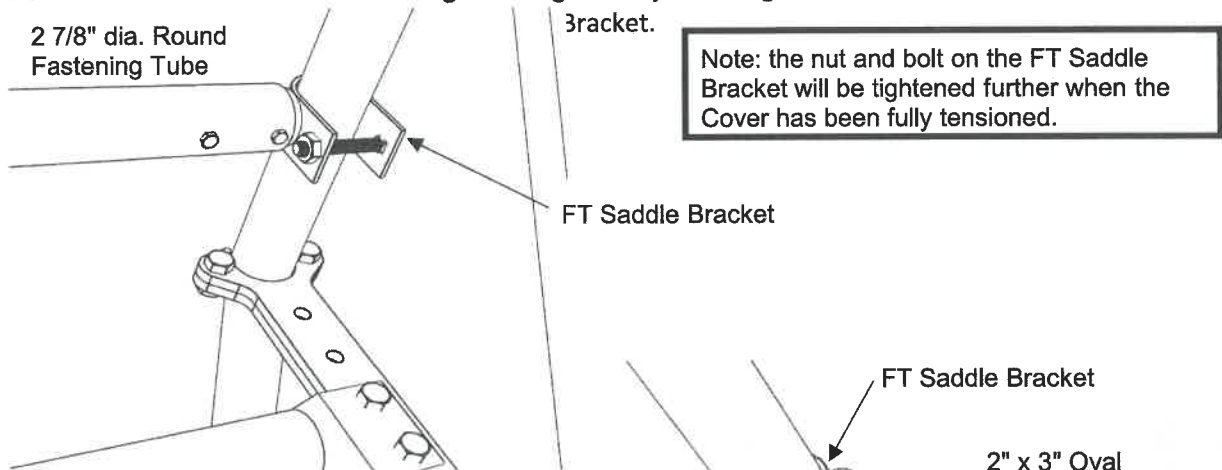
Installing the Cover Continued

15. Insert the Fastening Tubes into the Upper and Lower Fastening Tube Pockets on the second side of the building. Install the Lashing Straps onto both the upper and lower Fastening Tubes. Insert the Lashing Straps into the Block Winches and turn the nut for one wrap. Do not tighten the Winches at this time.
16. Adjust the Cover so it is even and square to the building. Check the centre mark on the Cover at the peak of the building to ensure it lines up with the framework peak - on both ends of the building. Also, adjust the Cover from end to end to ensure the Cover is even.

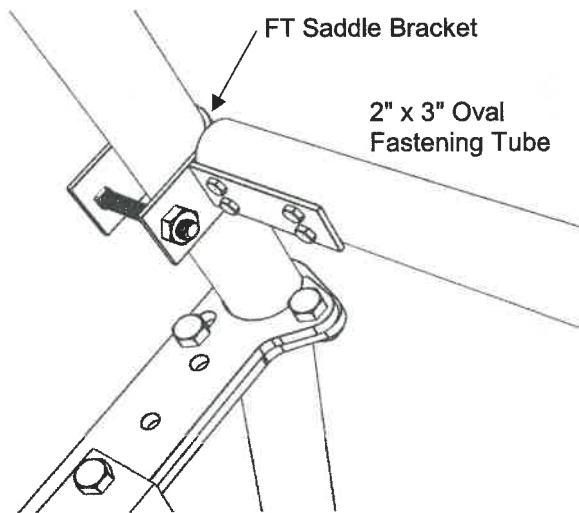


Installing the Cover Continued

17. The Upper Fastening Tube, in it's Pocket, is located on the outside of the Outer Chord of the Truss just above the Leg to Truss connection. This pushes the Cover Apron just outboard of that connection. Thus ensuring that the Cover does not make contact with the top of the Leg and preventing any Cover damage or wear.
18. At the ends of the building however, the Upper Fastening Tube must be pulled in even with the End Truss Outer Chord to prevent the tube from pressing against the inside of the Cover causing wear.
19. The Fastening Tube size is generally determined by the size of the building and the Truss spacing. Larger buildings and Spacing will use the 2" x 3" oval Fastening Tube and the smaller use 2 7/8" dia. round Fastening Tube. Check the Structural drawings and Packing List to determine the type.
20. The round Fastening Tube requires the installation of an FT Saddle Bracket with a round tube spigot. The spigot is inserted into the end of the Fastening Tube and the Fastening Tube is pressed inward so the Saddle straddles the Outer Chord of the End Truss. A 5/8" dia. x 4" long Carriage bolt is installed into the square hole in the Saddle Bracket from the outside end of the building. A nut is installed from the inside of the building and is tightened just enough to hold. Two TEK 5 screws are

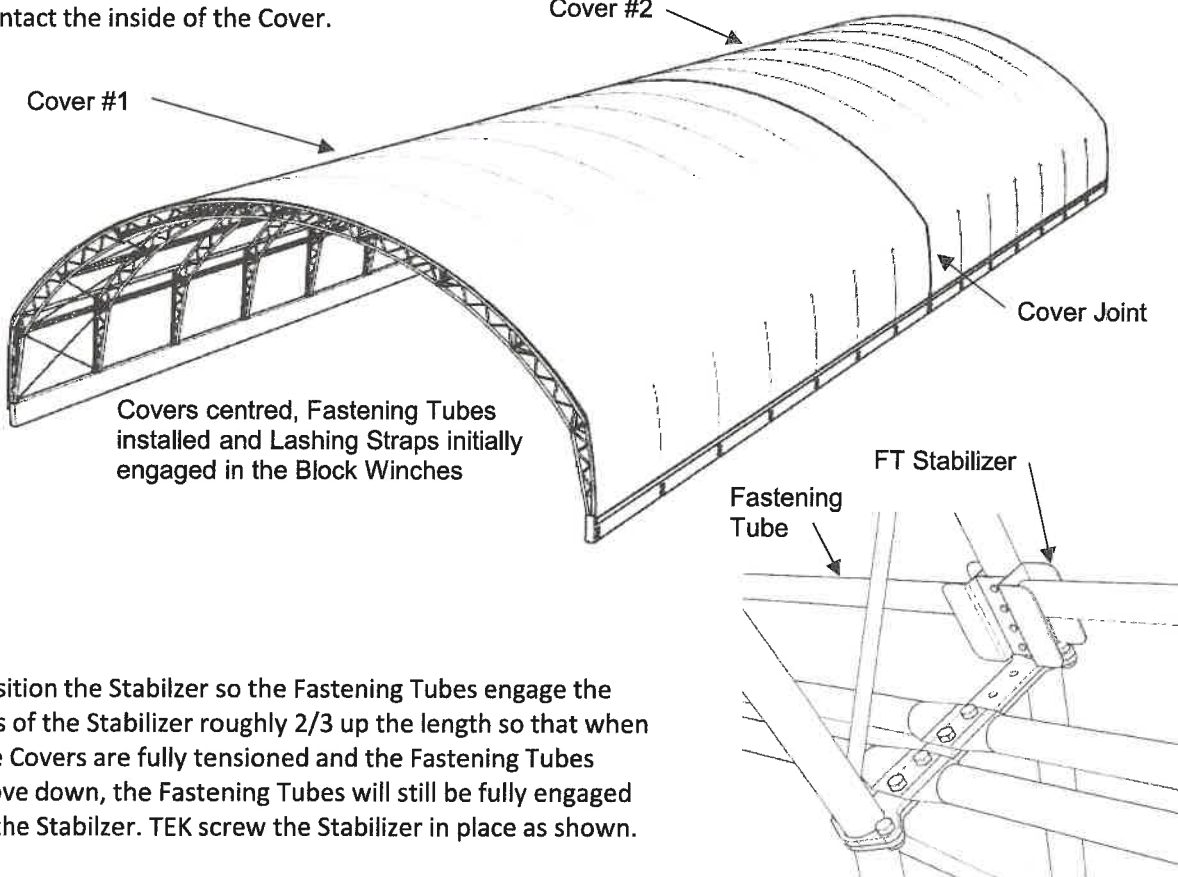


21. The oval Fastening Tube requires the installation of an FT Saddle Bracket with a flat Tab. The Bracket is set onto the Outer Chord of the End Truss and the bolt and nut installed. The Fastening Tube is pressed inward until it contacts the Tab. Four TEK 5 screws are installed thru the pre-drilled holes in the Tab to secure the Bracket in position.



Multiple Cover Joint

1. On buildings that are longer than 144', two or more Covers are supplied with a joint between the two Covers.
2. As described in the Cross Cable section of this Manual, the joint between the two Covers will be Cross Cabled in each of the bays adjacent to the Cover joint. Refer to the Structural drawings for placement of the Cross Cables.
3. The Cover Joint can be specified as either an Extrusion Joint or a Flap over Flap Joint.
4. In both cases, the Upper Fastening Tubes at the joint needs to be pressed inward so the end of the Fastening Tube is in line with the Outer Chord of the Truss. This will apply to both the Fastening Tubes coming together at the same point on both sides of the bulding. The ends of the Fastening Tubes are restrained by locating the ends of the tube in the FT Stabilizer Bracket.
5. When the Cover and the Fastening Tubes are installed, and each of the Covers are centred on the framing, position the FT Stabilizer on the inside of the Truss Outer Chord as shown in the diagram below. Ensure the Stabilizer is even on each side of the Truss and that the Stabilizer does not contact the inside of the Cover.

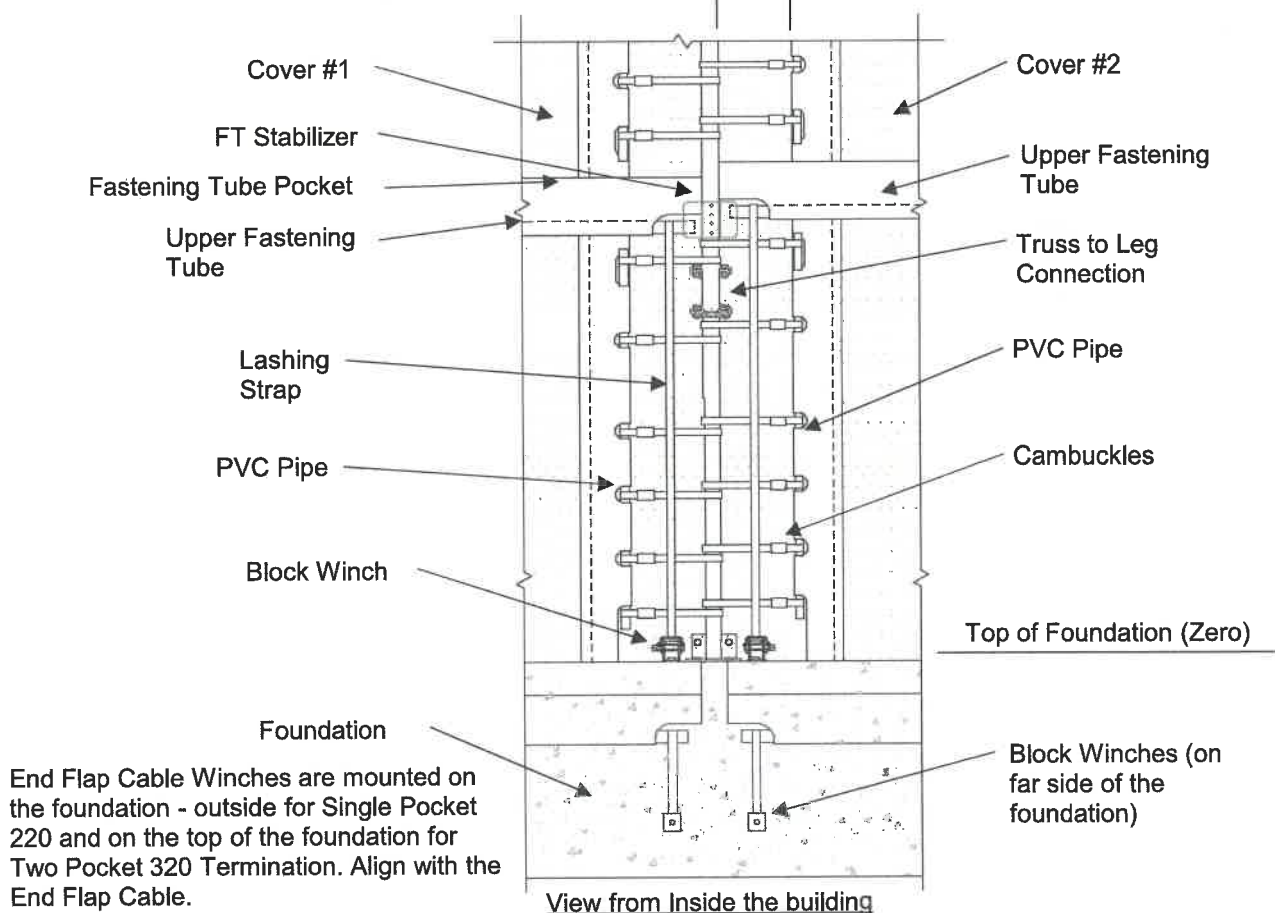


6. Position the Stabilizer so the Fastening Tubes engage the fins of the Stabilizer roughly 2/3 up the length so that when the Covers are fully tensioned and the Fastening Tubes move down, the Fastening Tubes will still be fully engaged in the Stabilizer. TEK screw the Stabilizer in place as shown.

Multiple Cover Joint Continued

Multiple Cover Flap Over Flap Joint

7. The Flap Over Flap Cover Joint used on multiple Cover buildings is basically the same construction as the End Flap on the Cover at the end of the building.
8. The Cover Joint is assembled by inserting the 1" PVC Pipe into the PVC Pocket adjacent to the Common Truss at the Cover Joint and attaching the 1" Belting (or 1" Cambuckles if ordered). Refer to the End Flap installation pages of this Manual.
9. Important: Cambuckle the the PVC on each Cover to the Truss Outer Chord. Do not Cambuckle the PVC pipes on the two Covers to each other. Pull the Covers evenly to the 8" - 10" dimension shown below.
10. When the Covers are fully adjusted and tensioned, throw the first Cover End Flap over the joint and tension the End Flap Cable with the Block Winches mounted to the foundation. Throw the second Cover End Flap over the first End Flap and tension the End Flap Cable in the same manner.



Multiple Cover Joint Continued

Multiple Cover Extrusion Joint

Pull Rope - rope supplied by the installer to guide the Lead Rope into the Extrusion rope channels.
Lead Rope - rope attached to the Keder edge of the Cover for installation.

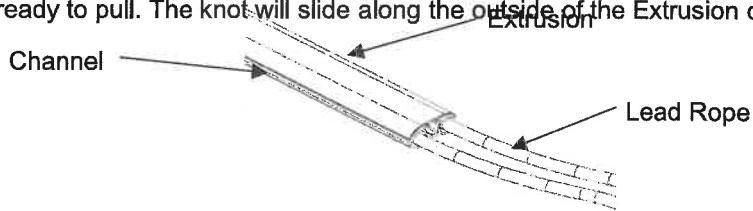
There are two recommended methods for pulling the Cover Lead Rope into the extrusion channel.

The **Rapid Install Method** is preferred when the truss frames are completely assembled on grade and then raised into place.

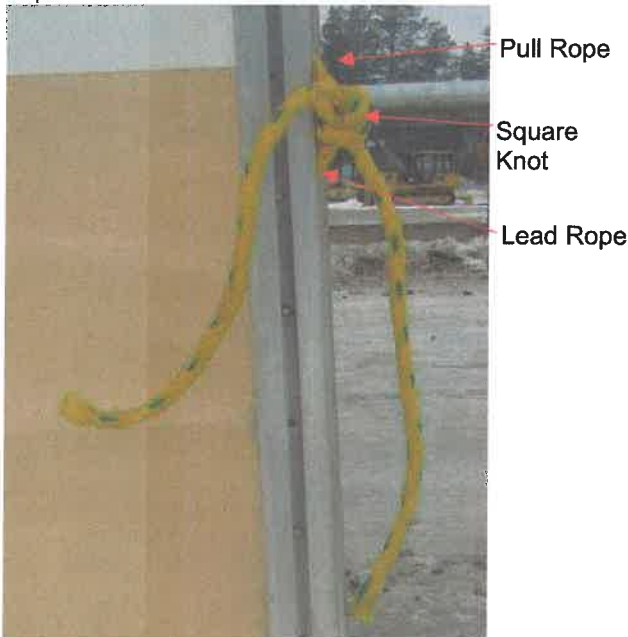
The **Moore Method** proves useful when truss frames are partially assembled on grade and joined once raised into place.

Rapid Install Method:

1. Before raising the Trusses, install a Pull Rope in both Extrusion channels that is 15' or greater in length than the length of the Extrusion from base to base.
2. Tie the Pull Rope to the Lead Rope with the knot out to the side of the channel. The rope can be pulled out of the channel by flattening out a section of the rope to slip it out of the gap in the side of the Extrusion channel.
3. The Lead Rope is ready to pull. The knot will slide along the outside of the Extrusion channel.



Left Below: Pull Rope tied to Lead Rope using a square knot



Right Below: Flattening the rope to pull ends out to the side of the Extrusion channel

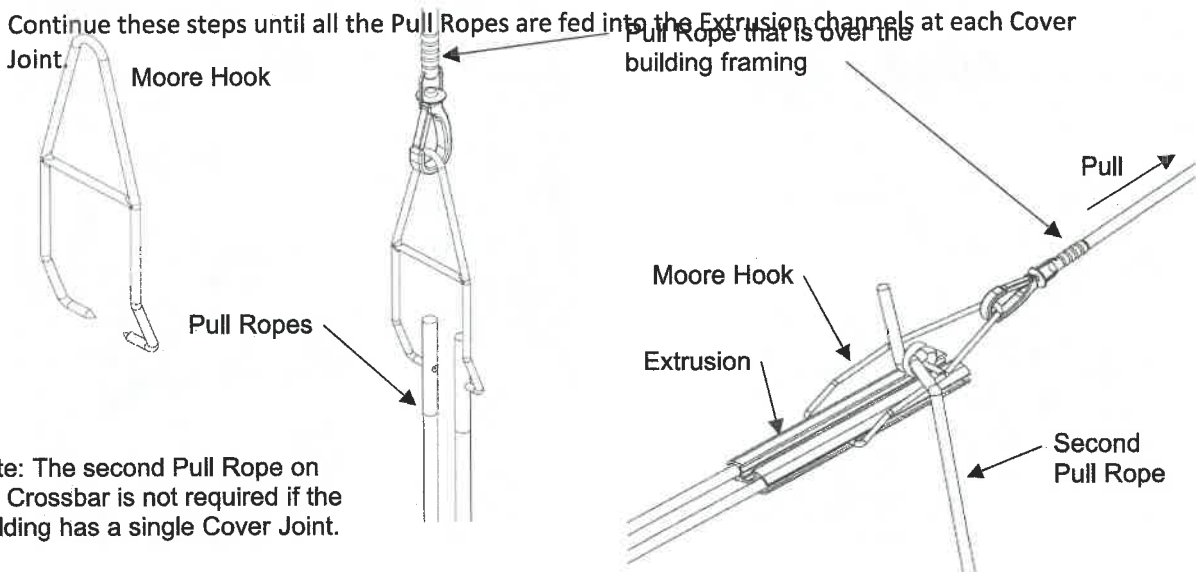


Multiple Cover Joint Continued

Moore Method:

4. Gather the Moore Hook and two lengths of Pull Rope that are 15' or greater in length than the length of the Extrusion from base to base.
5. Throw the first length of Pull Rope up and over the building at the first Extrusion.
6. On the far side of the building from the Cover, tie or clip the Moore Hook to the Pull Rope that is over the building framework. Push the points of the the Moore Hook into the Pull Ropes that are to be pulled into the Extrusion channels. Insert the two Pull Ropes into the Extrusion channels.
7. If there are more than two Covers and therefore two or more Trusses with Extrusion, tie a second Pull Rope to the Moore Hook Crossbar to assist in pulling the Moore Hook back over the building to pull the Pull Ropes into the second Extrusion.
8. Using the Pull Rope that is over the building, pull the Moore Hook with the two Pull Ropes that are in the Extrusion channels over the building to the side where the Cover is located and ready to install.
9. Using the second Pull Rope that is tied to the Moore Hook Crossbar, pull the Moore Hook back over the building and along the length of the building to the next Extrusion if there is one installed. Repeat the process of pulling the Pull Ropes into the next Extrusion and over the building to where the Covers are ready to install.
10. The Pull Ropes that are in the Extrusion can be tied to the Cover Lead Ropes with a square knot in the same manner as previously explained in the Rapid Install Method.

11. Continue these steps until all the Pull Ropes are fed into the Extrusion channels at each Cover Joint.

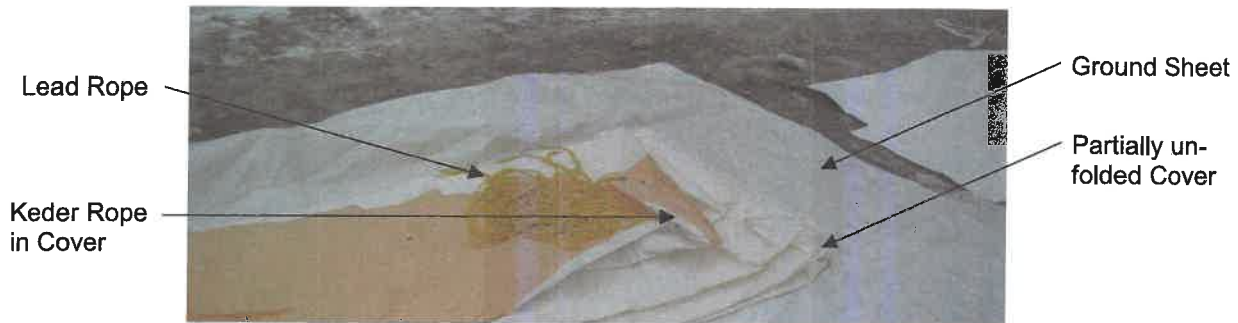


Note: The second Pull Rope on the Crossbar is not required if the building has a single Cover Joint.

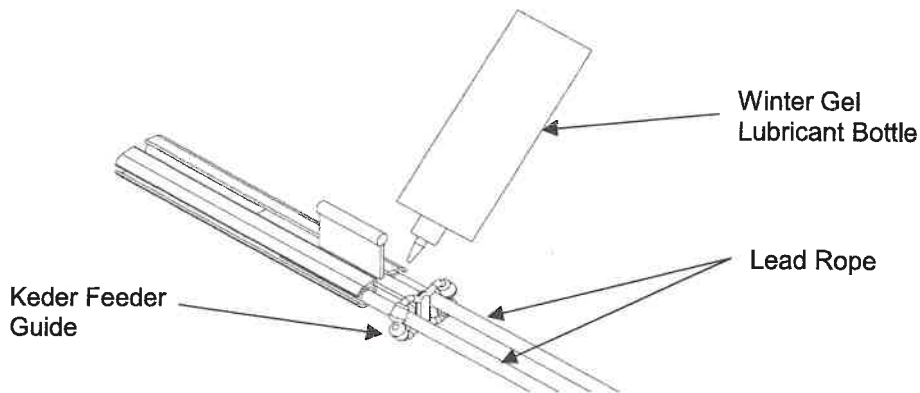
Multiple Cover Joint Continued

Multiple Cover Extrusion Joint

12. Whichever method was used to install the Pull Ropes into the Extrusion channel, tie the Pull Rope in the Extrusion to the Lead Rope on the Cover.
13. Remove the TEK screws from the lower four feet of Extrusion on the install side of the building to help ease the Cover Keder into the Extrusion channel.
14. Insert the Keder Feeder Guide into the Extrusion in the base of the Extrusion on the install side of the building.

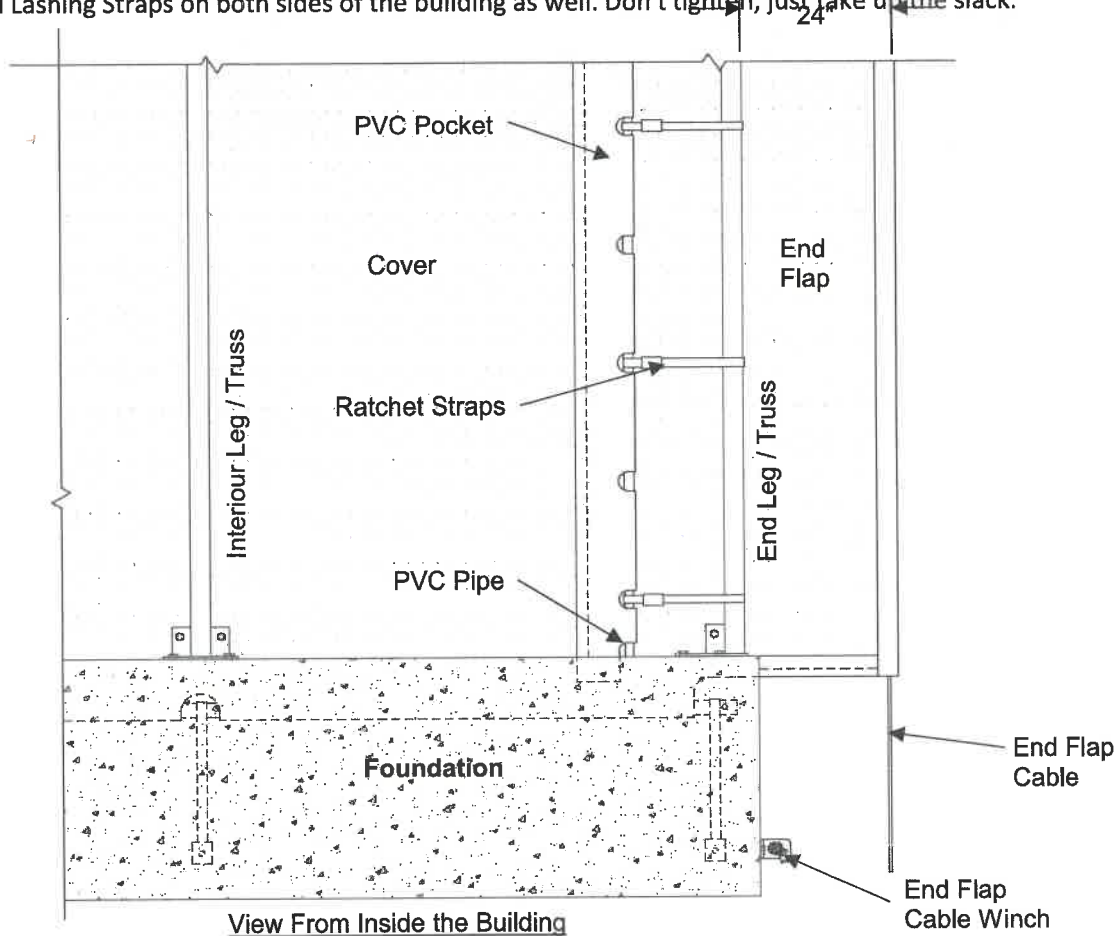


15. Insert the Lead or Pull Rope through a block and tackle mounted to the foundation on the far side of the building to ensure a straight pull through the Extrusion.
16. Apply Winter Gel Lubricant (supplied) or a similar waterbased lubricant to the channel in the Extrusion and the kedered material on the Cover before pulling the Cover.
17. Pull the Cover up and over the building using the Pull Ropes as described in the Single Cover section of this Manual while also simultaneously pulling the Pull Rope in the Extrusion so the Cover Keder Rope pulls evenly with the rest of the Cover.



Cover End Flap Installation

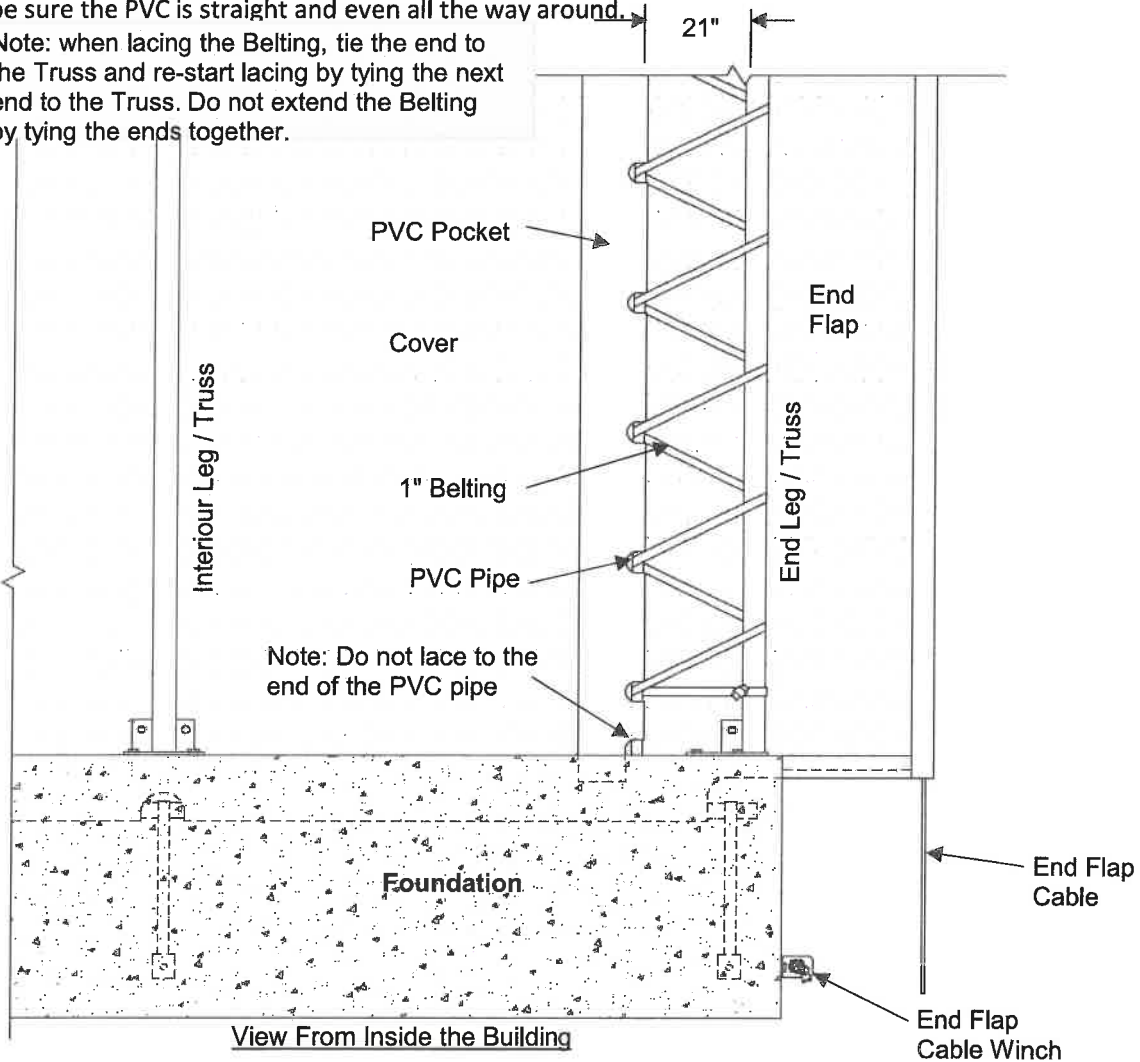
1. When the Cover or Covers in the case of multiple Covers, are fully centred, square and straight, ensure the End Flap extends 24" past the End Truss.
2. Drill a hole in the smooth end of a section of PVC Pipe. Thread the factory installed PVC pull rope through the hole and tie off the rope.
3. Pull the rope from the far side of the building while simultaneously pushing the PVC pipe up into the Pocket. Rotate and twist the pipe if necessary to help feed it through the Pocket.
4. When the first PVC Pipe is almost completely installed, glue the next section of PVC Pipe to the bell end of the first PVC Pipe. Install a screw in each joint and proceed until the PVC Pipe reaches the far side of the building.
5. Attach Ratchet Straps between the End Truss Outer Chord and the PVC on both ends of the Cover to evenly tension the Cover along the length of the building. Take up any slack in the Block Winches and Lashing Straps on both sides of the building as well. Don't tighten, just take up the slack.



Cover End Flap Installation Continued

6. Check both ends of the Cover to ensure the Cover is even on the building. The PVC Pipe should be positioned approximately 21" from the End Truss on both ends.
7. Starting at the base of the Leg, tie the 1" Belting to the Outer Chord of the Leg and begin lacing the Belting through the PVC Pipe and around the Leg and Truss Outer Chords as shown in the diagram below.
8. Continue lacing until the peak of the building is reached. Then repeat the process from the other side of the building at the base of the Leg again reaching the peak of the building.
9. Starting at the peak of the building, re-tension and tighten the 1" Belting all the way down to the base of the Leg. Repeat on the other side of the building and the other end of the Cover. Check to be sure the PVC is straight and even all the way around.

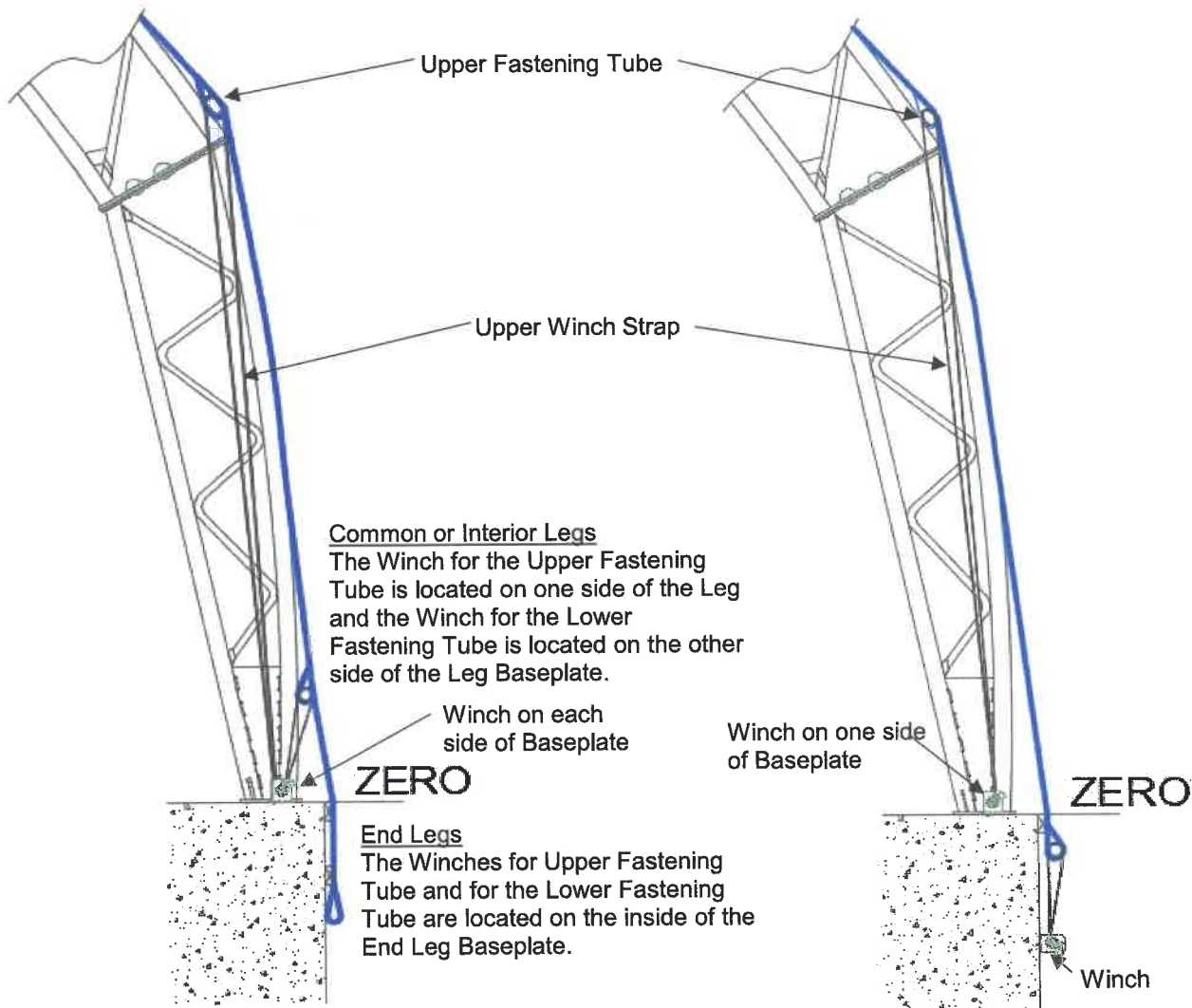
Note: when lacing the Belting, tie the end to the Truss and re-start lacing by tying the next end to the Truss. Do not extend the Belting by tying the ends together.



Cover Termination

Upper Fastening Tube

1. The Atlas 24 Series buildings - with Legs - are equipped with an Upper Fastening Tube located just above the top of the Leg Coupler.
2. **420 Two and Three Pocket Installations** - attach Block Winches as specified by foundation engineer to the foundation beside the Leg Baseplate - Atlas 65'L10' and 72'L10.' The Atlas 80'L8' Baseplate is equipped with Winch mount angles so the Winch is bolted to the angle.
3. Install Winches beside each Leg Baseplate and one in the centre of each bay if the Truss Spacing is greater than 16' oc.
4. Install buffer boards or foam backers to prevent wear (designed and supplied by others) on any wear point that the Cover may contact such as, but not limited to the top of the foundation, pilings, base of trusses, tops of legs and truss connections.



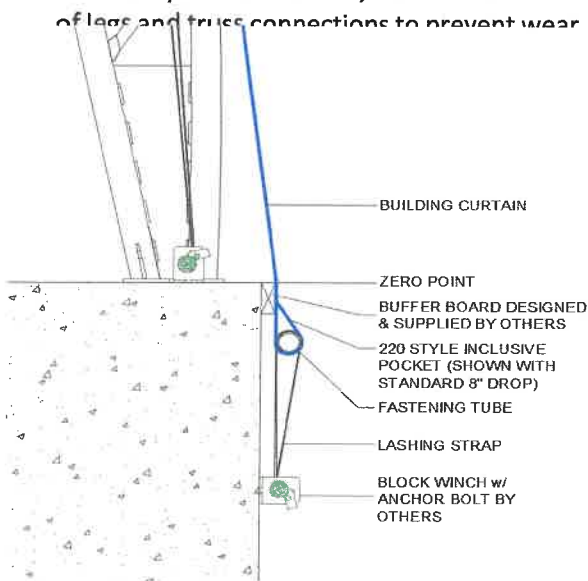
Two Pocket (420/320) Termination

Single Pocket (420/220) Termination

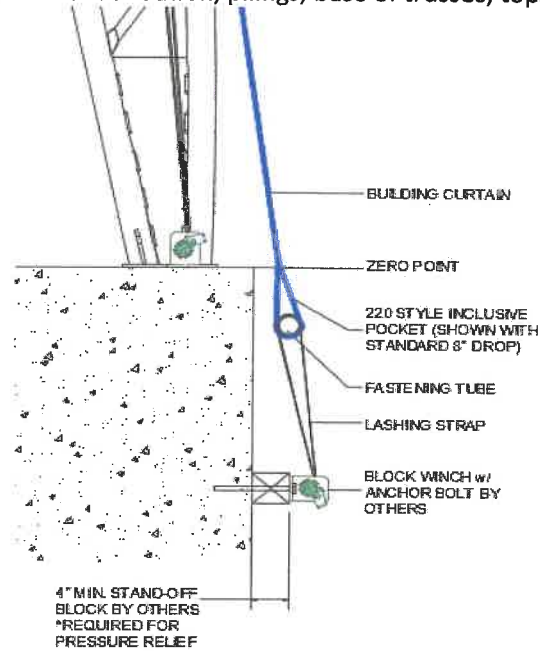
Cover Termination Continued

Install Lashing Winches

5. Refer to building specific sealed structural drawings for lashing winch locations.
6. **220 Single Pocket Installation** - attach winches as specified by foundation engineer to the foundation approximately 18" below the proposed finished fabric elevation.
7. Install winches in alignment with each of the trusses and one in the centre of each bay if the Truss Spacing exceeds 16' oc.
8. Install buffer boards or foam backers (designed and supplied by others) on any wear point that the fabric may contact such as, but not limited to the top of the foundation, pilings, base of trusses, tops of legs and truss connections to prevent wear.



Single Pocket (220) Cover Termination



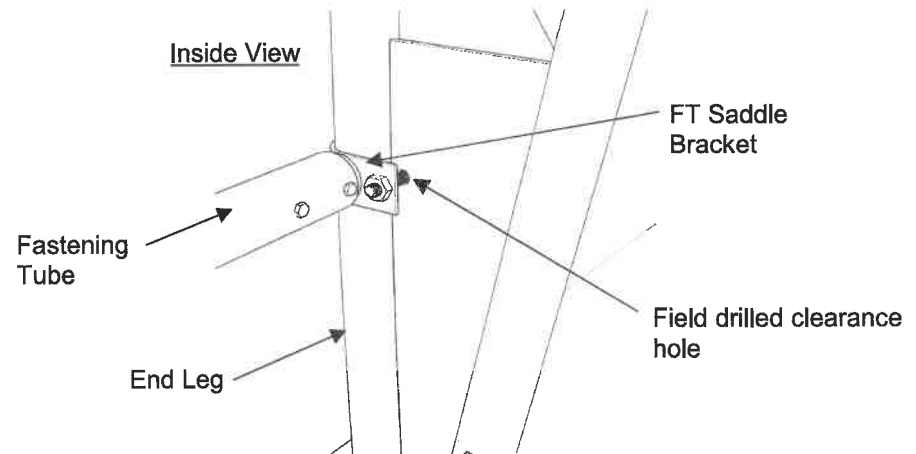
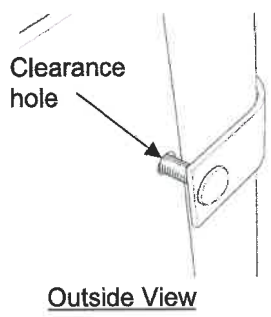
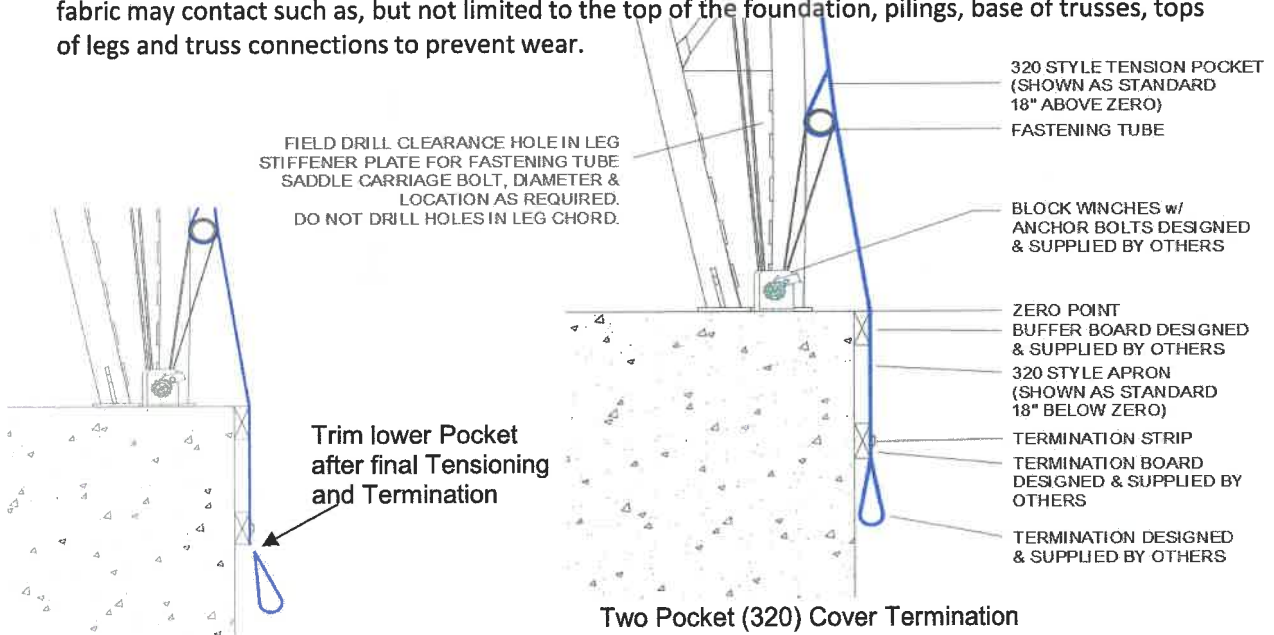
Single Pocket (220) Cover Termination with Standoff Arrangement

9. The Standoff Arrangement is specified by the Structural Engineer in specific situations. The Cover not contacting the foundation creates a gap that allows air pressure to escape the inside of the building. Thus reducing the build-up of air pressure on the inside of a building.
10. Often specified on a building that is open on one end.

Cover Termination Continued

Install Lashing Winches

11. Refer to building specific sealed structural drawings for lashing winch locations.
12. **320 Single Pocket Installation** - attach Block Winches as specified by foundation engineer to the foundation beside the Leg Baseplate - Atlas 65'L10' and 72'L10.' The Atlas 80'L8' Baseplate is equipped with a Winch mount angle so the Winch is bolted to the angle.
13. Install Winches beside each Leg Baseplate and one in the centre of each bay if the Truss Spacing exceeds 16' oc.
14. Install buffer boards or foam backers (designed and supplied by others) on any wear point that the fabric may contact such as, but not limited to the top of the foundation, pilings, base of trusses, tops of legs and truss connections to prevent wear.



Two Pocket (320) Termination - Fastening Tube End Leg Installation Detail

Auxiliary Notes

Building End Walls

An Important Message for Installers and Owners

Fabric End Walls must be supported by a framework that is constructed to meet wind load ratings and building safety standards.

If you are constructing a framework for Britespan supplied fabric end panels the framework must be designed to match the fastening system of the fabric end panel and must be constructed to meet wind load ratings and building safety standards.

Failure to comply with the above can result in damage to the building and will void fabric end panel warranty.

Contact a structural engineer or your Britespan representative for details.

Suspending Objects and Services in Building

An Important Message for Installers and Owners

Rule #1

Always suspend weighted objects and services from the trusses. Use dedicated brackets and hardware and attach to the lower truss chord only – do not use building brackets or hardware and never use the truss webbing as an attachment point. Whenever possible, use clamps to avoid drilling or piercing the lower truss cord. **Any suspended objects must be approved by a licensed engineer.** If this is not done it may void the building warranty.

Rule #2

Do not suspend weighted objects, services or building operation components from the purlins. The purlins act under compression when wind and snow loads affect the building. Added weight to a purlin can cause it to react unevenly and fail when wind and snow load forces are applied.

If suspensions mid-truss are necessary, use a separate purlin dedicated to the suspension. In some cases a tensioned cable in conjunction with the standard purlin can be used to offset the weight of the suspended object. Four inch (100mm) diameter purlins are capable of supporting weighted objects and services and in some cases can be substituted for standard purlins.

Exceptions for suspension from purlins can include:

- Lightweight aluminum and plastic roof vents
- Simple lighting services without ballasts or transformers
- Electrical conduit and wiring
- Control cables

Contact a structural engineer or your Britespan representative for assistance.

For Technical assistance call your local dealer or sales representative.

Or 1-800-407-5846

IMPORTANT: Always use clamps or ties – Do not drill or pierce purlins or trusses without specific instructions or authorization.

Completed Installation Checklist

- Foundation is level and square.
- Base plates are secured level and square at the correct location.
- Trusses are assembled securely and are plumb and level.
- Extrusion is fastened correctly to the trusses without any defect or misalignment that might damage the fabric.
- All required horizontal purlins are installed in the correct location
- All cross cables are installed in the correct location, properly tensioned and are even and square.
- All required diagonal purlins are installed in the correct location.
- All sway cables are installed in the correct location and properly tensioned.
- All vertical HSS are secure, plumb and level.
- All headers and horizontal ESS are secure and installed as specified.
- Lashing winches are securely fastened and in the correct location.
- All bolts complete with nuts and washers are installed in the correct locations and quantities, and tightened to specifications.
- Covers are securely tensioned with fastening tube and lashing straps, taut and free of wrinkles.

If any of these items are not deemed complete and to the engineer of records satisfaction, do not continue until that item is rectified and approved.

Notes

Warranty and Maintenance Schedule

To ensure the warranty of the building as provided by Britespan Building Systems Inc. (Britespan) this maintenance schedule must be adhered to completely. Failure to comply with this maintenance schedule will invalidate the warranty. Perform maintenance on all items once a week for first month; once a month for first year; quarterly thereafter or after any unusually extreme weather event.

A/ 1-Piece Covers & Lacing

The cover of your Britespan building may relax after installation. It is important to keep the cover tight in all directions at all times. Tighten the building lengthwise and then tighten over the arc of the building.

- Check all ratchet straps and lacing for premature wearing on hard surfaces like pipes or foundations. Reposition ratchets if visible wearing is occurring.
- Pull out any excess lacing towards ratchets. De-spool the ratchets and pull excess through. Re-tighten ratchets.
- Make sure all ratchet straps, lacing, and winches have moderate tension throughout the whole building.
- Moderate tension in the cover to pull out as many wrinkles in the material as possible.
- Cover tensioning tubes should be as level as possible.
- Check the cover for tears and rips.
- Cover should be tight enough that there is no movement from the wind, and that rain or snow will not accumulate on the cover.
- The cover material should not be in contact or rubbing on any surface that will tear, rub, or cut it. If tightening the cover produces cover contact with foundation, detach finish angle, provide buffer material and reattach finish angle.
- Remove any excess cover material caused by re-tightening the cover.
- Radius all corner cuts in fabric.
- Call Britespan for further details.

B/ Individual Panels (kedered) Covers & Lacing

The covers of your Britespan building may relax after installation. It is important to keep the cover tight over the arch of the building. Kedered covers only need to be tightened over the arch of the building.

- Make sure all lacing and winches have moderate tension throughout the whole building.
- Moderate tension in the cover should pull out as many wrinkles in the material as possible.
- Cover tensioning tubes should be as level as possible.
- Check the cover for tears and rips.
- Cover should be tight enough that there is no whipping movement from the wind, and that rain or snow will not accumulate on the cover.
- The cover material should not be in contact or rubbing on any surface that will tear, rub, or cut it.
- If tightening covers produces excess cover material, detach finish angle and re-stretch cover. Reattach finish angle
- Radius cut all corner cuts in fabric.
- Check keder cover flaps for tightness. If the cable in the flap is loose, re-tension the cable, and reattach.
- Call Britespan for further details.

C/ End Wall Cover

- Hand tighten all cambuckles, ratchet straps, and lacing.
- If excess material accumulates around outside arch, remove fasteners from arch, re-stretch the cover, and re-attach.
- If tightening covers produces excess cover material at the bottom, detach finish angle (if applicable) and re-stretch cover. Re-attach finish angle and trim off excess material.
- Radius cut all corner cuts in fabric.
- Call Britespan for further details.

Warranty and Maintenance Schedule Continued

D/ Cold Weather Cover Installation

Building covers installed during cooler weather tend to relax more than covers installed during warmer weather. If your cover was installed in cooler weather recheck its tightness on the first available warm day in addition to the above maintenance.

E/ Metal Components

Seal all marks or scrapes that are down to the base metal with 3 layers of high zinc content paint. Tighten any loose cabling in the building with the turnbuckles. If there is no more take-up available on the turnbuckle, please contact Britespan for instructions. Check for damage to any truss or end wall framing.

F/ Fasteners

Ensure that all fasteners are tight and free of corrosion. Make sure any foundation anchors are fastened securely into the foundation.

General Maintenance Concerns

Cover Material is Getting Dirty

It is very easy to clean with water and non-abrasive soap. Do not use solvents or chemicals. Do not pressure wash at close range as damage can occur.

Snow on the Cover

Some snow may accumulate on the cover. Heavy snow accumulating on the cover could indicate that the cover needs re-tensioning. Remove heavy snow and check cover tensions immediately or damage may occur. Remove any ground snow that applies lateral force on the fabric or structure. Damage from snow accumulation is not covered by warranty. Refer to the Britespan warranty for further details.

Damage

Structure and Fabric - Report and document with pictures any damage to the cover, steel structure, components, or foundation immediately. Please call Britespan for assistance and a comprehensive evaluation. Report any damage from an insurable event to your insurance company. The Britespan maintenance and warranty agreements are not a replacement for Insurance. Refer to the Britespan warranty for further details. Perform any temporary or emergency repairs as deemed necessary. Replace or repair damaged components as determined necessary.

Fabric Repair

- Sharp objects can puncture the woven polyethylene fabric. Do not attempt to seal or repair with conventional materials.
- The fabric can be repaired by contacting an Authorized Britespan Dealer to arrange for plastic welding or with the self-adhesive cover material available from Britespan.
- When using the self-adhesive cover material, cut out the tear so that all corners of the tear are rounded and patch material will stick to each other in the cut out area.
- Clean both the inside and outside area around the tear with rubbing alcohol.
- Cut a repair patch to cover an area of at least 4" out from all spots of the tear. Round the corners of the patch so that the corners will not want to peel off.
- Self-adhesive cover material should be placed on the inside and outside of the cover around the tear and pressed together so it adheres to the cover and itself.
- Contact Britespan or your dealer for further assistance.



Warranty and Maintenance Schedule Continued

Maintenance in Corrosive Environments

Building Framework, Cover, and Fasteners - Britespan manufactured steel components for corrosive environments are hot-dip galvanized. Hardware components are made of galvanized steel, stainless steel, aluminum alloy, poly, or are zinc plated. It is still required for warranty coverage that the building owner/operator:

- Prevent corrosive material or product from resting against the fabric or metal building components.
- While hot-dipped galvanization delays corrosion, any corrosion should be immediately cleaned off to base metal and covered with high content zinc paint.
- All bolts, fasteners, and cover tensioning hardware that are hot-dipped galvanized shall be coated with a corrosion protective film (fluid film or equivalent) annually.
- Seal or protect from corrosion any non-building components that are connected to, or that come in contact with, the building hardware.
- Spray any moving part with a moisture displacing lubricant (fluid film or equivalent).
- Refer to the Britespan warranty for further details.

Following these maintenance items on your Britespan building will help extend the service life of your structure. Please contact Britespan or your local dealer with any maintenance questions.



Maintenance Record

This maintenance schedule must be adhered to completely. Failure to comply with this maintenance schedule will invalidate the warranty. Perform maintenance on all items once a week for first month; once a month for first year; quarterly thereafter or after any unusually extreme weather event.

Date of Installation: _____

Dealer Information: _____

Installer Information: _____

Maintenance Log:

Inspection Period	Date of Inspection	Noted Issues	Inspection Period	Date of Inspection	Noted Issues
Week 2			Quarter 28		
Week 3			Quarter 29		
Week 4			Quarter 30		
Month 2			Quarter 31		
Month 3			Quarter 32		
Month 4			Quarter 33		
Month 5			Quarter 34		
Month 6			Quarter 35		
Month 7			Quarter 36		
Month 8			Quarter 37		
Month 9			Quarter 38		
Month 10			Quarter 39		
Month 11			Quarter 40		
Month 12			Quarter 41		
			Quarter 42		
Quarter 6			Quarter 43		
Quarter 7			Quarter 44		
Quarter 8			Quarter 45		
Quarter 9			Quarter 46		
Quarter 10			Quarter 47		
Quarter 11			Quarter 48		
Quarter 12			Quarter 49		
Quarter 13			Quarter 50		
Quarter 14			Quarter 51		
Quarter 15			Quarter 52		
Quarter 16			Quarter 53		
Quarter 17			Quarter 54		
Quarter 18			Quarter 55		
Quarter 19			Quarter 56		
Quarter 20			Quarter 57		
Quarter 21			Quarter 58		
Quarter 22			Quarter 59		
Quarter 23			Quarter 60		
Quarter 24			Quarter 61		
Quarter 25			Quarter 62		
Quarter 26			Quarter 63		
Quarter 27			Quarter 64		



Insurance

At all times starting with the date of delivery, Purchaser shall maintain insurance coverage, on the building components, and once constructed such insurance shall provide insurance on the structure, providing coverage against property damage to the building components, the structure and its contents for their full replacement cost; such coverage to be no less than what is ordinary and customary for the location of install. Such insurance shall include coverage for the acts of third parties and for all weather related events. Purchaser's insurance coverage will be the primary source for payment of any damage or costs to the building components and the structure even if a defective building component would otherwise be subject to repair or replacement by Britespan under this limited warranty. Purchasers' insurance coverage will be the sole source for payment of any damage or costs to the building components and the structure in any way related to a weather event (weather wind, hail, snow, ice, tornado, hurricane, lightning or otherwise), even if the defective building components would otherwise be subject to repair or replacement by Britespan under this limited warranty. Purchaser waives all rights of subrogation against Britespan and shall require that its insurer also waives all rights of subrogation against Britespan. In the event Britespan provides any repair or replacement of defective building components to Purchaser, Purchaser hereby assigns its rights to any insurance proceeds for such defective building components to Britespan and Purchaser shall provide all cooperation required by Britespan to allow Britespan to enforce any insurance claim, including without limitation executing an assignment of claim to Britespan and any other documents or instruments which may be requested by Britespan.



Warranty Registration

Warranty Registration must be submitted within 60 days of building installation.

Warranty Registration Forms are available online at www.britespanbuildings.com.

WARNING : FAILURE TO COMPLETE WARRANTY REGISTRATION WILL VOID ABILITY TO MAKE ANY CLAIM IN THE FUTURE.



BRITESPAN Warranty Photo Registration

NUMBERS
Represent Views
and
Preferred Sequence
(see attached photo examples)

**MIN 13 PHOTOS
REQUIRED**

**BUILDINGS WITH
MID-BRACING
14 PHOTOS**

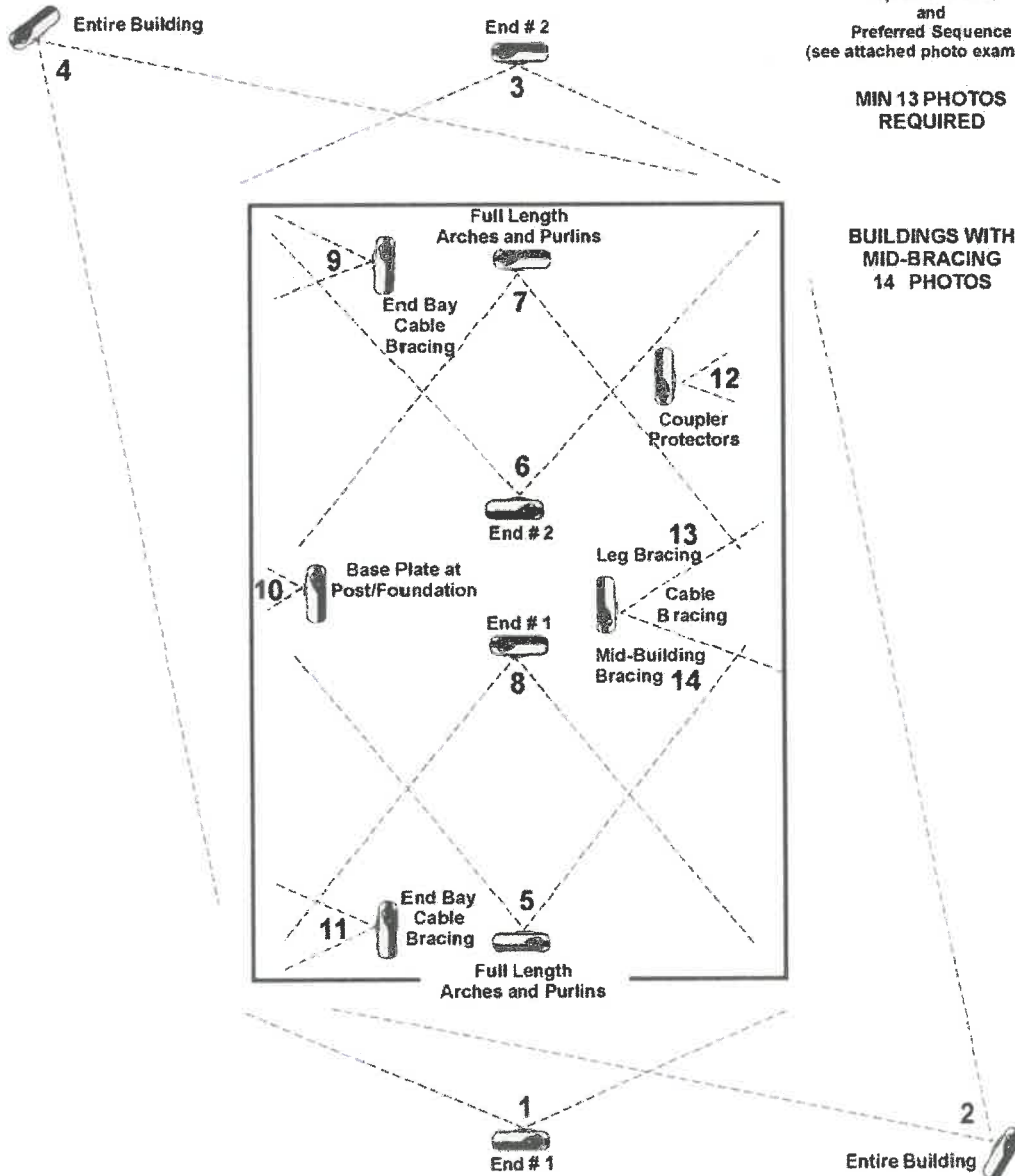
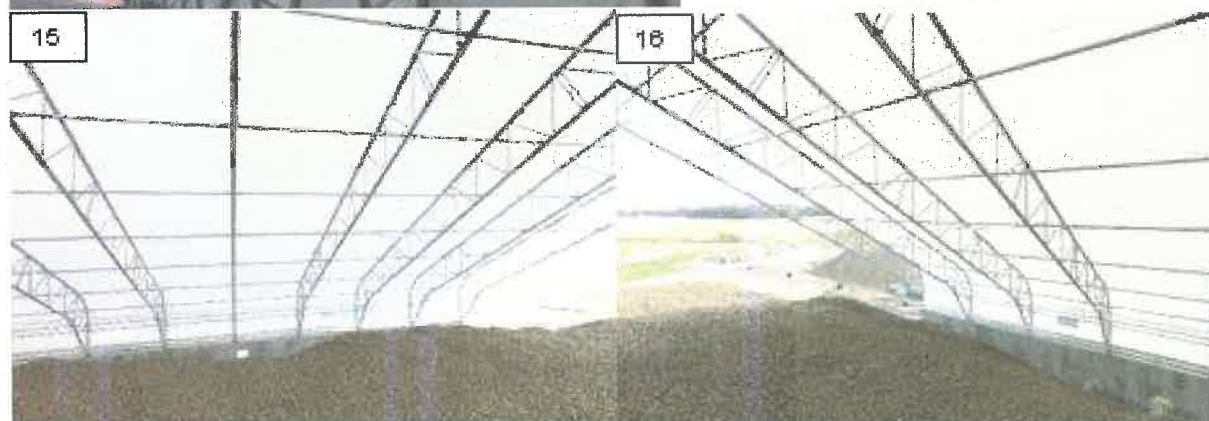
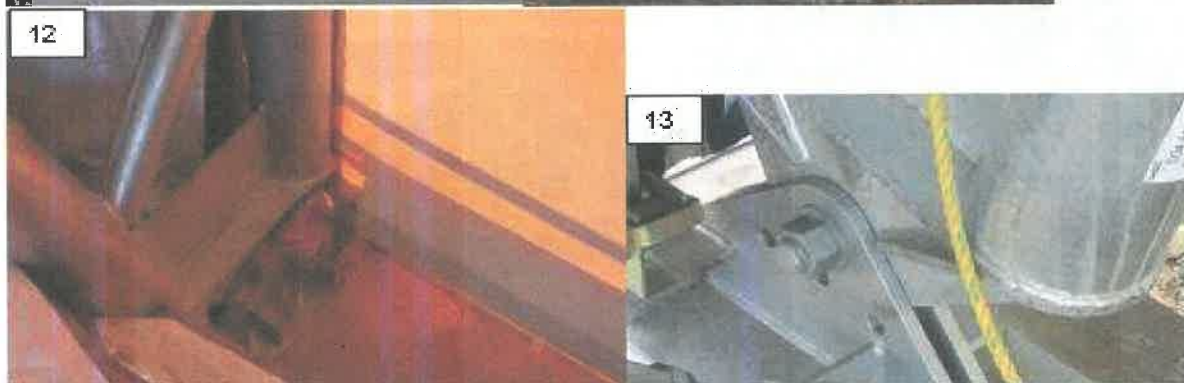
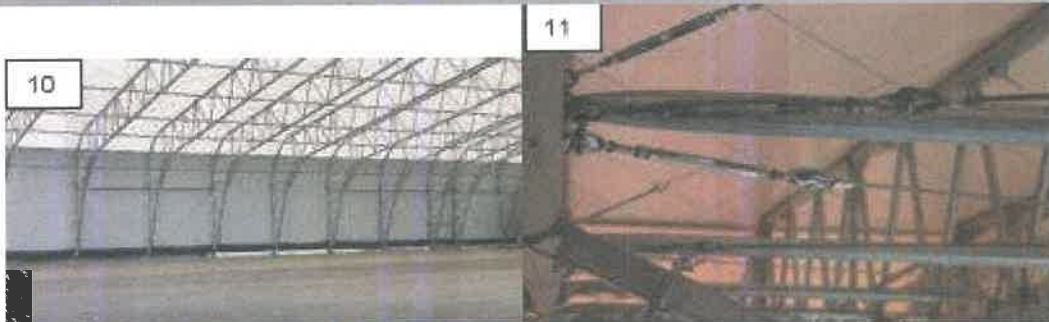


Photo Registration Instructions Required Views



Photo Registration Instructions Required Views Continued



20 Year Limited Warranty

SCOPE OF LIMITED WARRANTY

Only the building components manufactured by Britespan Building Systems Inc. (Britespan) and described in this agreement are

This warranty is only valid if and when

- i) Warranty has properly been registered by an authorized Britespan dealer as per the instruction in the building kit.
- ii) Building and any components are assembled and maintained in accordance with the Installation/Owner's Manual/Structural Drawings and applicable Technical Bulletins.
- iii) Britespan receives written notice and proof of claim (photos where possible) of any manufacturer's defects during the period of warranty coverage.
- iv) Britespan Building Systems has been paid in full for the building and materials.

Resolve of the structural defect(s) may be through the supply of new, used or rebuilt parts, or on-site repair, at the discretion of Britespan. If Britespan chooses to repair or replace the defective product or component, Britespan shall be allotted reasonable time to do so.

This warranty includes the explicit warranty of Britespan. There are no other warranties expressed or implied. This warranty is made and is not to be replaced by any warranties of marketability or suitability for a particular purpose. Warranty specifications are applicable to units sold and erected in Canada and the United States only. Warranty may vary outside of those areas. Please contact your local authorized Britespan representative for more details.

WARRANTY REGISTRATION

Follow all of the instructions for the online Warranty Registration found in the Owner/Installation Manual shipped with the building kit, or at www.britespanbuildings.com. **All Warranty Registrations must be submitted for registration review within 60 days of building installation.** A Certificate of Warranty will be issued to your local authorized Britespan representative once all the requirements have been met for registration and approved by Britespan.

A Warranty Certificate may be withheld if the building or any components are not assembled in accordance with the installation procedures indicated in the installation manual or structural drawings. A Warranty Certificate will be issued upon correction of identified deficiencies supported with new photographs to complete the verification.

If the building changes ownership, the new owner must apply for a Warranty Transfer to assume remaining years of warranty on the existing structure(s). Contact your local authorized Britespan dealer to obtain a transfer of warranty package. A one-time per transfer fee may apply.

STANDARD LIMITED WARRANTY COVERAGE PERIODS:

TABLE 3-1: STANDARD PRO-RATED WARRANTY COVERAGE PERIOD (YEARS)	
COMPONENT	ATLAS / GENESIS / APEX / EASY ACCESS / EPIC SERIES
MAIN STRUCTURE COVER (NON-FR) (4)	20
MAIN STRUCTURE COVER (FR) (4)	15
END FABRIC (NON-FR) (5)	5
END FABRIC (FR) (5)	5
MAIN STEEL FRAMEWORK (2)	20
END STEEL FRAMEWORK (HSS) (3)	10

* Building needs to be installed by factory trained, approved and qualified personnel.

NOTES ON LIMITED WARRANTY COVERAGE PERIODS

- All repair or replacement costs are pro-rated as per table 3-1 on page one of this document.
- Standard pre-galvanized purlins include a 5 year pro-rated warranty. Main building trusses, hot dip galvanized purlins and manufactured brackets include 20 year pro-rated warranty. (2)
- Consists of vertical columns, horizontal members, and manufactured brackets. Does not include cables or fasteners. (3)
- Consists of main building cover panels only. Does not include any fastening system components (4)
- Consists of end enclosure panels only (standard FR & non-FR fabrics only). Does not include any fastening system components. End enclosure panels must be properly supported by a Britespan end support system or an alternative system designed and engineered to match the end panel fastening system. The alternative system must also meet site wind load and building safety requirements as per engineer requirements. (5)

STANDARD TERMS OF LIMITED WARRANTY COVERAGE

Should any components be found to have manufacturer's defects under normal use, the defect(s) will be repaired, or the components replaced, at the discretion of Britespan. The building owner will be responsible for the cost of the repair or replacement parts pro-rated per year following the original purchase date, plus the cost of delivery and installation of replacement parts, if required. All replacement parts are F.O.B. Wingham, Ontario, Canada. Any parts requiring replacement under this warranty are subsequently warranted only for the remaining time period of the unexpired portion of the warranty that is applicable to the original product.

Due to continual product development, over time certain fabric colours or steel components may become unavailable. In those incidents, Britespan reserves the right to substitute replacement components with those that are comparable in function, quality, and price to the original. Britespan is not responsible or liable if the replacement component varies in appearance from the original.

LIMITS AND RELEASE OF LIABILITY

This warranty does not apply to defects or damages resulting from a) improper installation and/or installation that is not in accordance with Britespan installation manuals/procedures/structural drawings, and Technical Memos; b) improper or inadequate maintenance of the structure; c) any modification or alteration of the product reported or not reported; d) misuse, neglect, or abuse of the product; e) accident; f) repair or alteration by an unauthorized Britespan dealer; g) integration of products or accessories not manufactured specifically for use in a Britespan; h) exposure to corrosive elements; i) corrosion resulting from structure applications, environment within the structure, and/or insufficient maintenance or any cause other than a defect in an item's described corrosion protection; j) use of abrasive cleaning methods, chemicals, or solvents; k) exposure to conditions in excess of, or not meeting, as the case may be, wind and snow load specifications for building model; l) design of foundation and/or installation and/or deficiency in the foundation; m) product upgrades; n) product recall; o) normal wear and tear; p) wear caused by multiple installations; q) storage and/or handling of building components; r) an act of God; This warranty does not apply to s) cosmetic defects or deterioration, including discolouration of fabric or steel t) rub marks on the fabric that only rub off of the colour coat, but do not leak.

Britespan will not be liable for any damages incurred during or as a result of installation of a Britespan product, whether or not in accordance with the installation instructions. In no event will Britespan, any distributor, or the selling dealer be liable for any direct, indirect, special, incidental, or consequential damages (including loss of profit, loss of time, inconvenience, or the use or inability to use this product for any purpose whatsoever), whether based on contract, tort, strict liability or any other legal basis; even if Britespan, its distributor, or selling dealer was advised of the possibility of the occurrence of such damages. By registering for and taking benefit of the warranty, the building owner expressly releases and discharges Britespan, all distributors, and all dealers from all claims, causes of action, demands, actions, suits, judgments and executions for any actual, incidental or consequential damages, bodily or otherwise, that the building owner ever had, now has, or may have by reason of the assembly, erection, use and/or operation of any Britespan. All references to building owners, Britespan, all distributors and all dealers, include such parties' spouse, heirs, successors, legal representatives and assigns.

Britespan and its authorized Dealers are independent businesses; authorized Dealers are not agents or legal representatives of Britespan. Authorized dealers have no right or authority to assume or create any legal obligation or responsibility, express or implied, on behalf of Britespan, or to bind Britespan in any manner whatsoever. Britespan Building Systems Inc. shall have no liability for any acts, errors, omissions, workmanship, supplies, advice, representations or misrepresentations of any authorized Dealer.



LIMITED WARRANTY REGISTRATION

COMPLETE THIS PAGE IN FULL AND RETURN WITH THE WARRANTY PHOTOS.

IT IS THE RESPONSIBILITY OF THE OWNER/DEALER TO RETURN THIS BUILDING WARRANTY REGISTRATION FORM.

Owner Name		Business / Company Name	
1		COMPLETE	
Mailing Address		Agent / Representative	Title
2		ONLY IF	
City / Town	Prov / State	Phone	Website
3	4	APPLICABLE	
Postal Code / Zip Code		Country	Email Address
5		6	7
Home Phone with area code		Work Phone with area code	
8		9	
10 The Building Address is the same as above <input type="checkbox"/> If not, provide the building address in the comments section below			
SO#		*SO# is located on white shipping label on wooden crate OR bundles of steel components OR dealer invoice	
11			
Date of Purchase		Name of Dealer building purchased from	
12		13	

	Self Installed	Dealer Installed
14 Building Foundation	<input type="checkbox"/>	<input type="checkbox"/>
15 Building Cover	<input type="checkbox"/>	<input type="checkbox"/>
16 Building Steel	<input type="checkbox"/>	<input type="checkbox"/>
17 The End Frame(s)	<input type="checkbox"/>	<input type="checkbox"/>
18 The End(s) Fabric	<input type="checkbox"/>	<input type="checkbox"/>

****Self installed includes customer arranging own contractor**

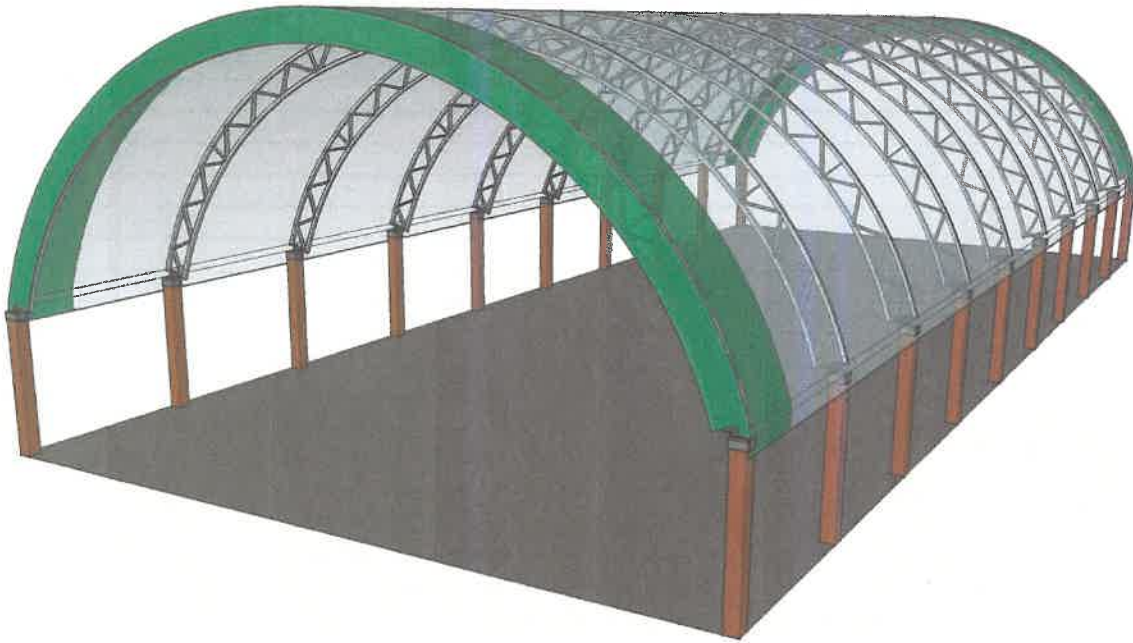
- 19 Did you receive the Owners / Installation Manual with building maintenance information included?
- 20 Did you ask the installer or Dealer for instructions on how to perform Building Maintenance procedures?

	YES	NO
19	<input type="checkbox"/>	<input type="checkbox"/>
20	<input type="checkbox"/>	<input type="checkbox"/>

Comments

Now 90 days from date of registration submission for processing and evaluation of warranty photos. If you do not receive a Warranty Certificate within this time frame, please contact your authorized Britespan Dealer or contact Britespan Corporate office at 800-407-5846. Use the building's SO# as your trace number. **Note:** Warranty only valid with Warranty Registration Card and required photos. See attached for photo instructions. Submit this form and photos to warranty@britespanbuildings.com

ATLAS 18 POST MOUNT - GROUND MOUNT



GENERAL INSTALLATION GUIDE

IMPORTANT: Always refer to the building specific sealed structural drawings for all details. These drawings will be the most current and accurate.

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Important

It is the Owner's responsibility to inspect product regularly for visible damage, cracks, wear, elongation, rust, etc. Protect all products from corrosion. The need for periodic inspections cannot be overemphasized. Periodic inspections help determine when to replace or adjust a product and reduce hazards. It is the Owner's responsibility to keep inspection records to help pin point problems and to ensure periodic inspection intervals are maintained.

Due to the diversity of the products and components involved and the uses to which the structures can be put, Britespan can only provide general recommendations for inspection procedures and frequency. Best results will be achieved when qualified personnel base their decisions on information from construction and engineering manuals and on field experience.

Frequency of inspections will depend on environmental conditions, application, storage of product prior to use, frequency of use, etc. When in doubt, inspect products prior to each use. Carefully check each item for wear, deformation, cracks or elongation - a sign of possible failure. Immediately withdraw such items from service pending investigation.

Rust damage is another potential hazard. When in doubt about the extent of corrosion or other damage, withdraw the items from service pending investigation.

Destroy, rather than discard, items that have been judged defective to avoid them being used by someone not aware of the hazard involved.

Additional information on products and components can be obtained by contacting Britespan Building Systems Inc.

See MAINTENANCE

IMPORTANT: Improper Site Preparation, Assembly and Maintenance may invalidate warranty and cause unnecessary and costly mistakes. If you have any questions, contact your local dealer.

It is the Owner's responsibility to obtain all permits and contract an engineer of record.

All construction activities must comply with local governing authorities and safety regulations and are the responsibility of the Owner.

Britespan Building Systems Inc. will not be held responsible for conduct that is an infraction thereof.

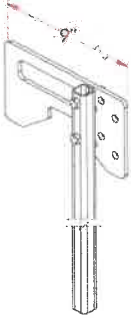
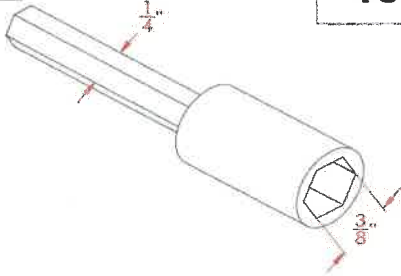
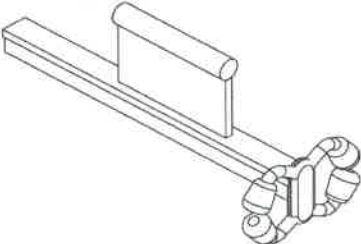
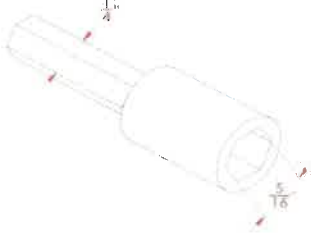
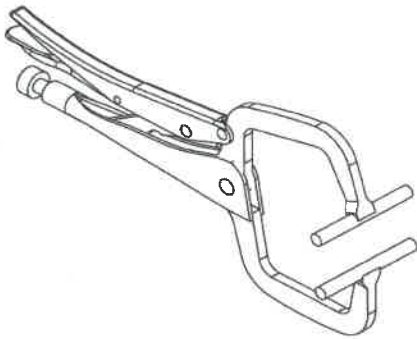
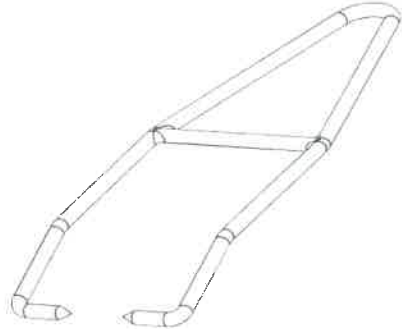
Tools

You will need the following tools to install Britespan Building Systems Buildings Inc. buildings.

<p>String and string level</p> 	<p>Stakes, Batter Boards and tape to mark the post/pipe locations</p> 	<p>Moveable scaffolding or a platform lift.</p> 	<p>Crane or equivalent to lift arches into the vertical position.</p> 
<p>Temporary bracing—dimensional lumber or rope.</p> 	<p>Square level.</p> 	<p>2 to 4 lengths of cover pull rope 125' (40M) or longer</p> 	<p>Torque Wrench</p> 
<p>Hacksaw</p> 	<p>#10 x 3/4" (#10 x 20mm) round head Philips screws and bit.</p> 	<p>13/16" (21mm) - 15/16" (24mm) - 1 1/8" (29mm) Wrenches and Sockets</p> 	<p>Transit</p> 
<p>Drill and Impact Driver</p> 	<p>Rubber Mallet</p> 	<p>Hand Held Hot Air Welder</p> 	<p>Reamer or Ream Bit</p> 
<p>Ratchets for Detensioning</p> 	<p>Measuring Tapes</p> 	<p>Levels and Laser Level</p> 	<p>Plumb Line and Plumb Bob</p> 
<p>Force Weight Scale</p> 	<p>Tek Screw Driver</p> 		

Tools Needed For Installation Available from Britespan




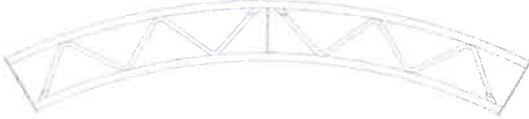






You will need the following tools install Britespan Building Systems Genesis, available for purchase from Britespan Building Systems.

<p>9.4lbs</p>  <p>2746</p> <p>EXTRUSION GUIDE ASSEMBLY- UNIVERSAL</p>	<p>0.1lbs</p>  <p>406</p> <p>MAG CHUCK DRIVER- 3/8"</p>
 <p>KEDER FEEDER</p>	<p>0.0lbs</p>  <p>416</p> <p>MAG CHUCK DRIVER- 5/16"</p>
 <p>C-CLAMP LOCKING PLIERS WITH EXTRUSION ALIGNMENT GUIDE</p>	 <p>MOORE HOOK</p>

Part number noted in upper right corner when available.

Building Components

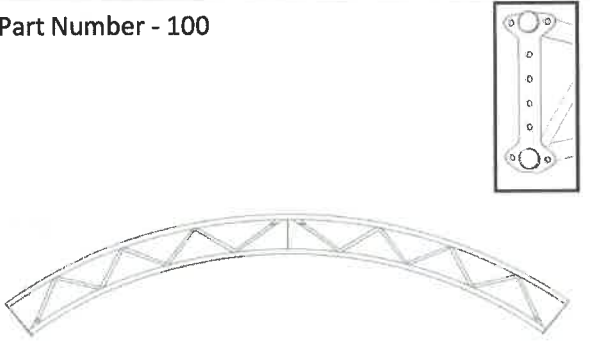
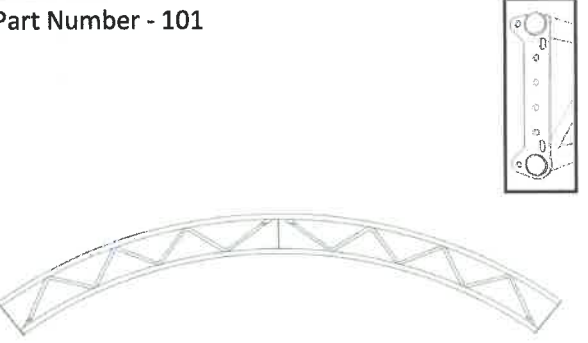
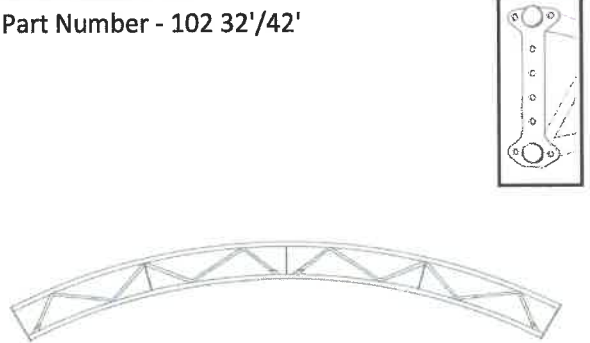
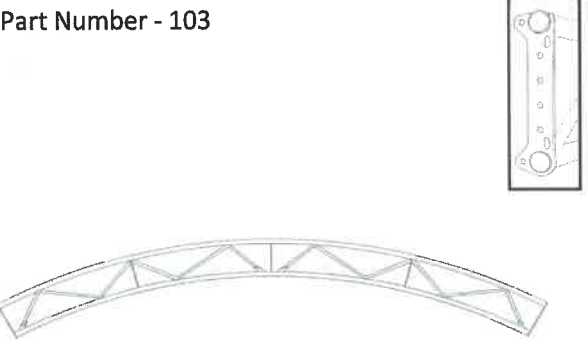
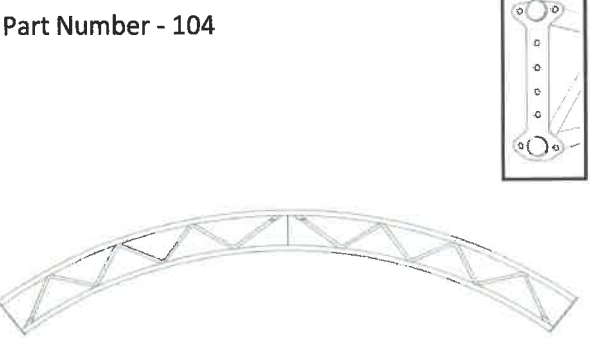
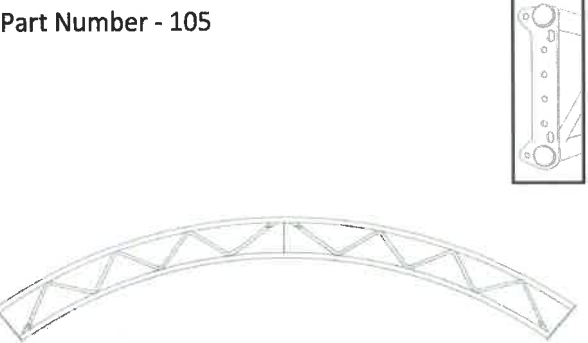
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p>Part Number - 115</p>  	<p>Part Number - 116</p>  
<p>Part Number - 112</p>  	<p>Part Number - 114</p>  
<p>Part Number - 113</p>  	

Part number noted when available.

Building Components

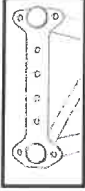
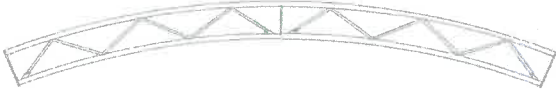

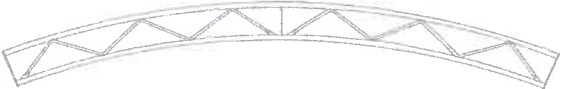

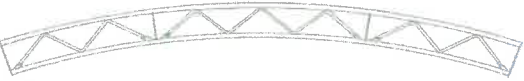

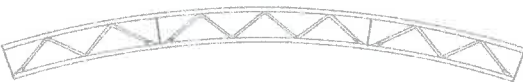
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p>Part Number - 100</p> 	<p>Part Number - 101</p> 
<p>Part Number - 102 32'/42'</p> 	<p>Part Number - 103</p> 
<p>Part Number - 104</p> 	<p>Part Number - 105</p> 

Part number noted when available.

Building Components

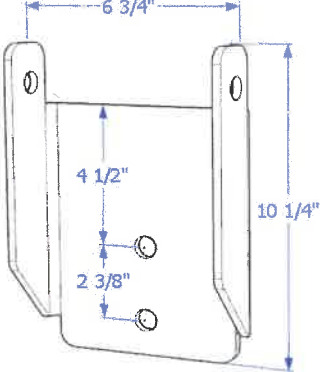
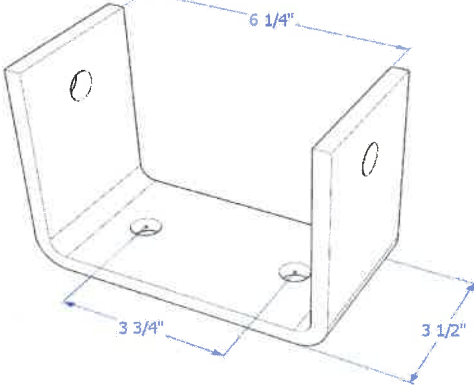
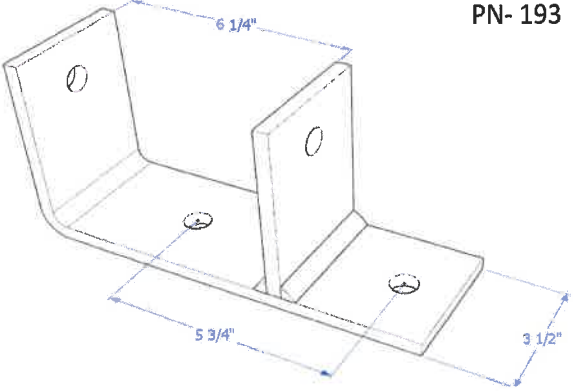
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p>Part Number - 106</p>  	<p>Part Number - 108</p>  
<p>Part Number - 110 62' Common Truss</p>  	<p>Part Number - 111 62' End Truss</p>  

Part number noted when available.

Building Components Continued


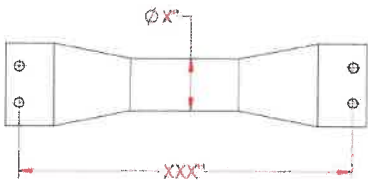
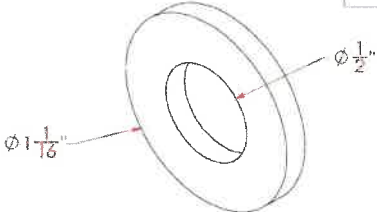
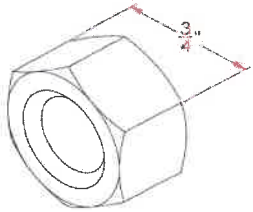
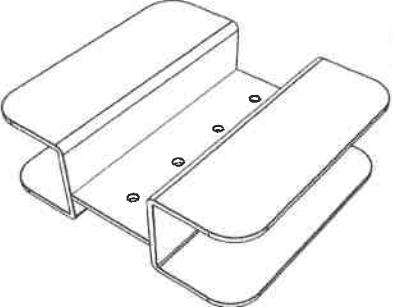
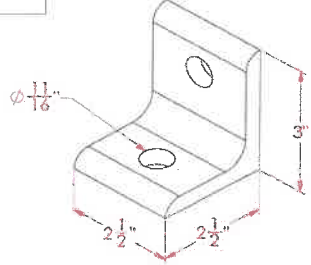
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

 <p style="text-align: right;">PN- 127</p> <p style="text-align: center;">POST MOUNT BRACKET</p>	 <p style="text-align: right;">PN- 192</p> <p style="text-align: center;">GROUND MOUNT BRACKET - COMMON</p>
 <p style="text-align: right;">PN- 193</p> <p style="text-align: center;">GROUND MOUNT BRACKET - END</p>	
<p style="text-align: center;">FT STABILIZER BRACKET</p>	

Part number noted in upper right corner when available.

Building Components Continued

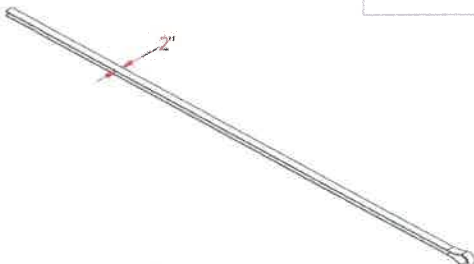
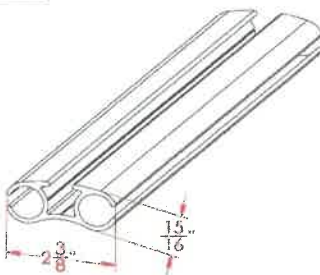
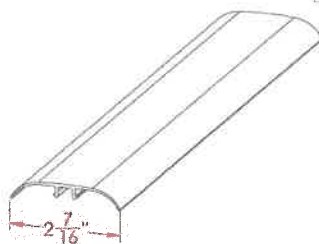

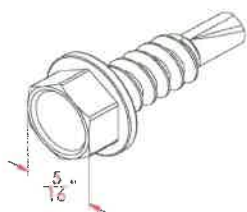
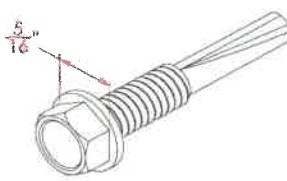
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p style="text-align: center;">863XXXTT</p>  <p style="text-align: center;">CROSS CABLE ASSEMBLY- XXX" LONG TYPICALLY 1/2" dia. CABLE</p>	 <p style="text-align: center;">PURLIN- 2 7/8", 3 1/2" OR 4" DIA. - XXX" LONG</p>
<p>0.02lbs</p> <p style="text-align: right;">450</p>  <p style="text-align: center;">WASHER- 1/2" FLAT</p>	<p>0.0lbs</p> <p style="text-align: right;">449</p>  <p style="text-align: center;">NUT- 1/2"-13 NC</p>
 <p style="text-align: right;">213</p> <p style="text-align: center;">FT STABILIZER BRACKET</p>	<p>1.3lbs</p> <p style="text-align: right;">228</p>  <p style="text-align: center;">BRKT- WINCH MOUNT- 3" X 2 1/2" X 2 1/2"</p>

Part number noted in upper right corner when available.

Building Components Continued

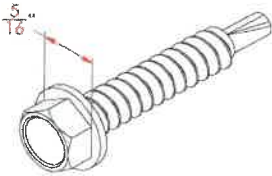
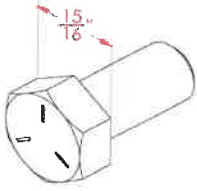
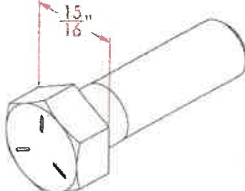
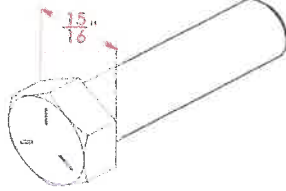
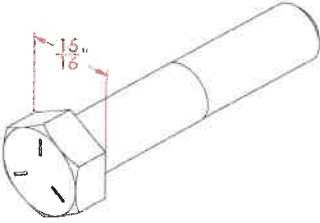
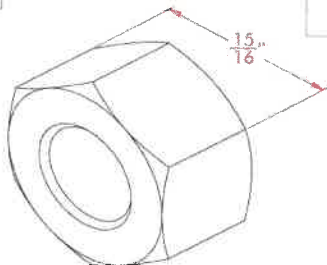
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p>3.0lbs</p> <p>405</p>  <p>TIE DOWN STRAP - 2" x 6'- NOT SEWN</p>	<p>0.8lbs</p> <p>428</p>  <p>EXTRUSION- ORIGINAL- W/ DRILLED HOLES- XXX" LG</p>
<p>0.1lbs</p> <p>427</p>  <p>EXTRUSION - COVER CAP (SNAP CAP) - WHITE POLY 240"</p>	<p>2.1lbs</p> <p>426</p>  <p>WINTERGEL- LUBRICANT- GREENLEE WINTERGEL- 1 QT BOTTLE</p>
<p>0.0lbs</p> <p>603</p>  <p>TEK 3-1/4"- #12-14 X 3/4" COARSE THREAD- ITX BUILDDEX</p>	<p>0.0lbs</p> <p>454</p>  <p>TEK 5- #12-24 X 1-1/4" FINE THREAD</p>

Part number noted in upper right corner when available.

Building Components Continued

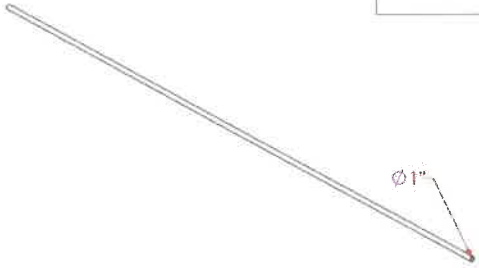



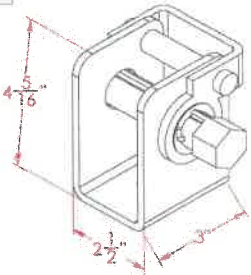
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<p>0.0lbs</p> <p>455</p>  <p>TEK 3- #12-14 X 1-1/4" COARSE THREAD</p>	<p>0.2lbs</p> <p>432</p>  <p>HEX BOLT- 5/8"-11NC X 1-1/4" LG- GR 5</p>
<p>0.3lbs</p> <p>433</p>  <p>HEX BOLT 5/8"-11 NC X 2" LG</p>	<p>0.0lbs</p> <p>435</p>  <p>HEX BOLT 5/8"-11 X 2-1/2" LG</p>
<p>0.3lbs</p> <p>434</p>  <p>HEX BOLT- 5/8"-11NC X 3" LG- GR 5</p>	<p>0.1lbs</p> <p>451</p>  <p>NUT 5/8"-11 NC</p>

Part number noted in upper right corner when available.

Building Components Continued


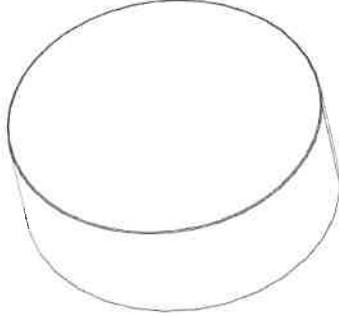
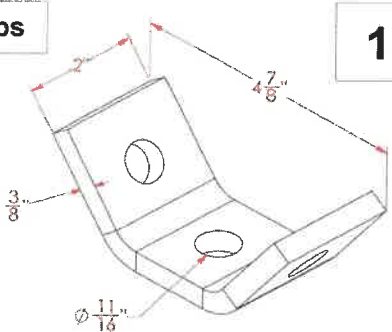
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p>1.7lbs</p> <p>418</p>  <p>PVC TUBE- 1" WHITE</p>	<p>0.0lbs</p> <p>414</p>  <p>CAMBUCKLE- 1" X 36"</p>
<p>0.0lbs</p> <p>415</p>  <p>RATCHET- 1" RATCHET- WITH 1" X 6' STRAP</p>	<p>0.0lbs</p> <p>413</p>  <p>BELTING - 1"X100' ROLL</p>
<p>3.6lbs</p> <p>318R/ 319L</p>  <p>LASHING WINCH- RIGHT/LEFT HAND- 3" X 2 1/2" X 4 5/16"</p>	

Part number noted in upper right corner when available.

Building Components Continued

Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

 <p>FASTENING TUBE</p>	 <p>PLASTIC FASTENING TUBE CAP</p>
<p>1.2lbs</p>  <p>149</p> <p>BRKT - CROSS CABLE DOUBLE TAB</p>	

Part number noted in upper right corner when available.

Foundation Requirements for the Building

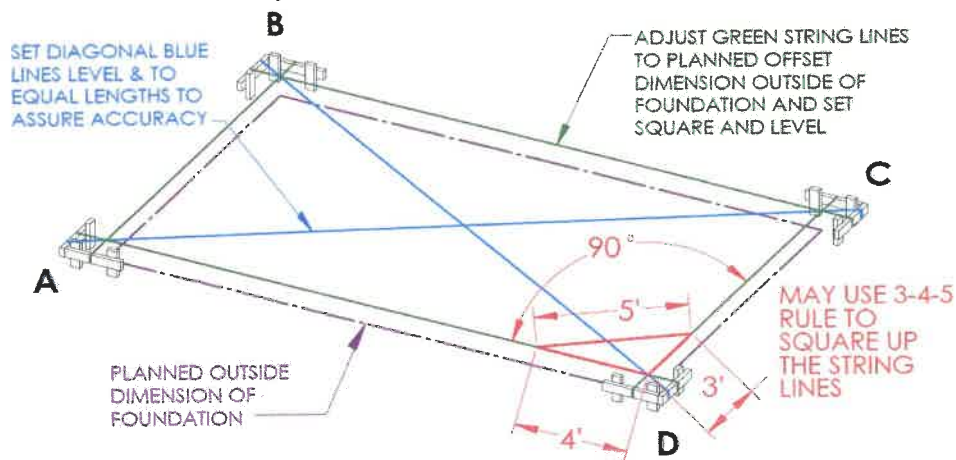
It is important that your building is square and level. To ensure this accuracy, it is recommended to have a qualified contractor or engineer complete the building plan layout. This described method is only a suggestion. Britespan Building Systems Inc. is not responsible for foundation design or installation. Site specific loads including, but not limited to, soil type, snow loads, wind loads and structure weight are a determining factor for foundation requirements. It is recommended you consult with a qualified engineer for building codes and load specifications in your area.

IMPORTANT: BRITESPAN IS NOT RESPONSIBLE FOR FOUNDATION DESIGN OR INSTALLATION.

There are several ways to find "square" in a building foundation. All methods use some sort of diagonal measurement. When a building is square the two diagonal measurements from opposite corner to opposite corner will be exactly the same.

Positioning the Building Square

1. Ensure the site is level.
2. Using ground stakes and batter boards, mark just outside the approximate position of where the four corners of the foundation will be.
3. Measure and run a string line from batter board at corner A to batter board at corner B.
4. Measure and run a string line (perpendicular to A - B line) from corner B to corner C.
5. Repeat steps 3 and 4, from C to D and D to A.
6. Adjust string lines C to D and D to A to exact width and length of foundation.
7. Measure both diagonals from opposite corner to opposite corner. A to C and B to D.
8. If the layout is square these measurements will be equal.
9. Measure and stake the frame on-centre intervals along both lengths of the building. Measure across the width to ensure consistency at each frame. Adjust accordingly.



Checking the Level of the Foundation

1. Using a protractor level, ensure that the foundation is plumb and level within a 1/4 inch for the entirety of the foundation or as specified by the foundation engineer.
2. Consult the foundation engineer in the event there needs to be corrective action taken to ensure plumb and level.

TIP: When pulling dimensions across long distances, use a steel or fiberglass tape measure to eliminate any stretching. Ensure to pull the tape quite firmly to prevent it sagging and changing the true dimension.

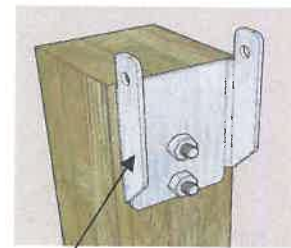
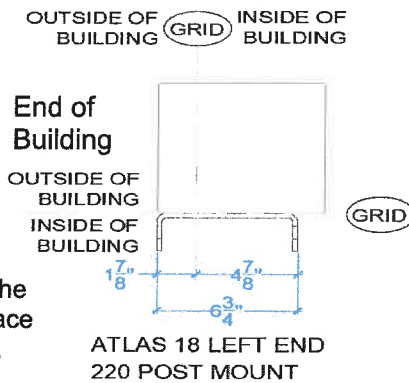
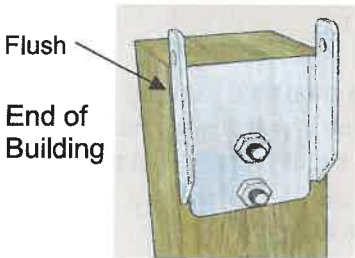
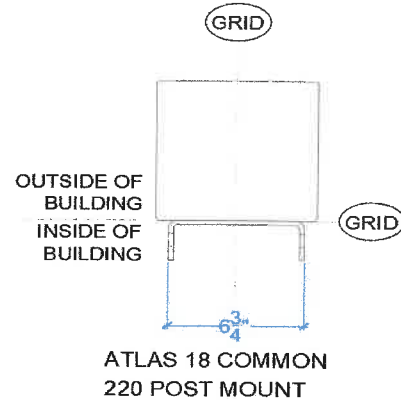
Foundation Layout - Post Mount

IMPORTANT: Refer to the building specific sealed structural drawing labelled "Baseplate Layout".

1. Position the Posts so the inside edge of the Posts are at the width dimension of the profile drawing of the building. Refer to the Baseplate Width section of this Manual.
2. The centre of the Common or Interior Posts are located on the Gridline of the Trusses.
3. The End Posts are offset from the Gridline of the End Truss so that the end of the building is flush. This will ensure good End Flap and End Wall Cover finishing. Offset the Post so the outside face is $1\frac{7}{8}$ " outside of the Gridline.

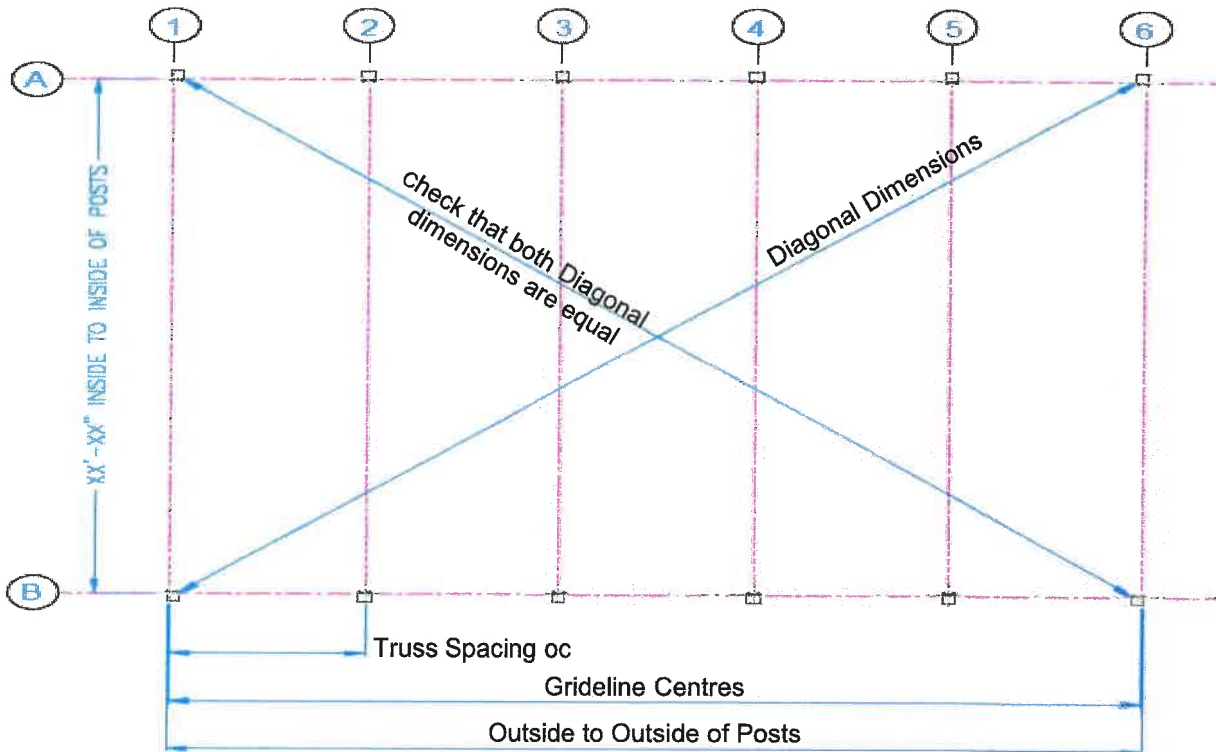
Anchor bolt holes: $11/16$ " dia.

Plate thickness: $1/4$ "



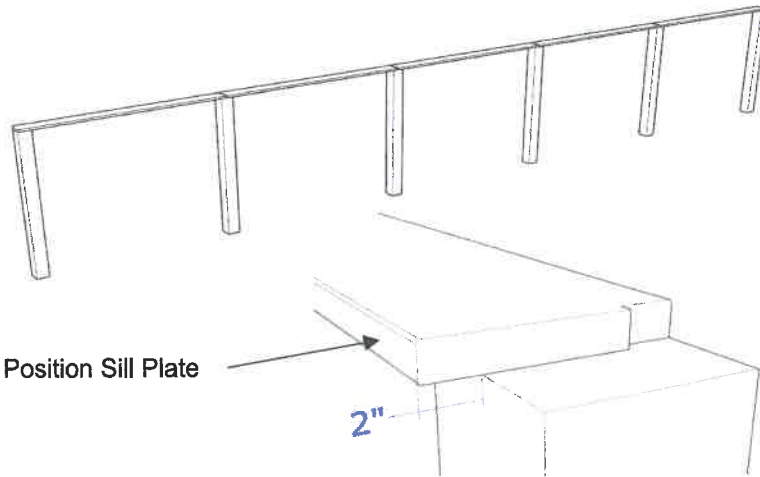
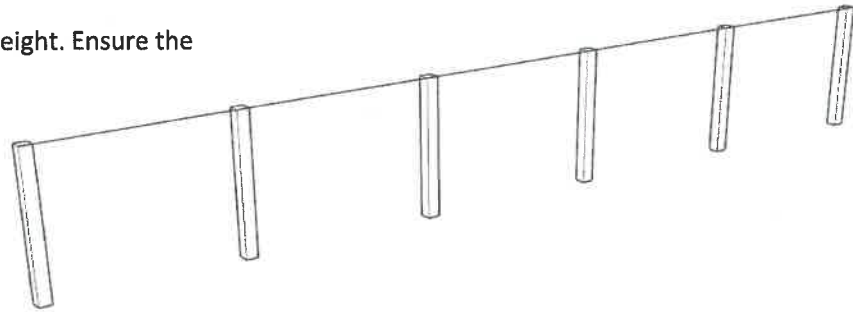
Post Mount Bracket same for Common and End Posts

Note: the "offset" varies based on the size of the Post. Position the end face of the Post $1\frac{7}{8}$ " from the Gridline.

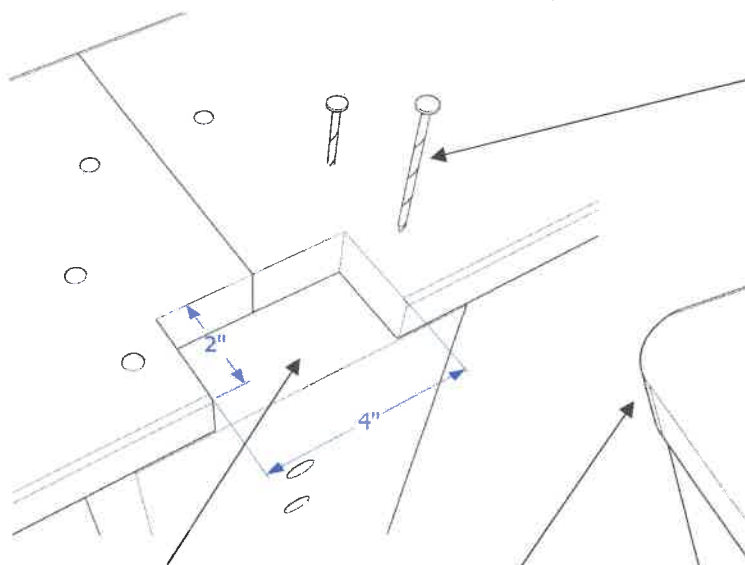


Foundation Layout - Post Mount

4. Stringline the specified post height. Ensure the string is level.
5. Cut the Posts off square. All the Posts are at the same elevation.



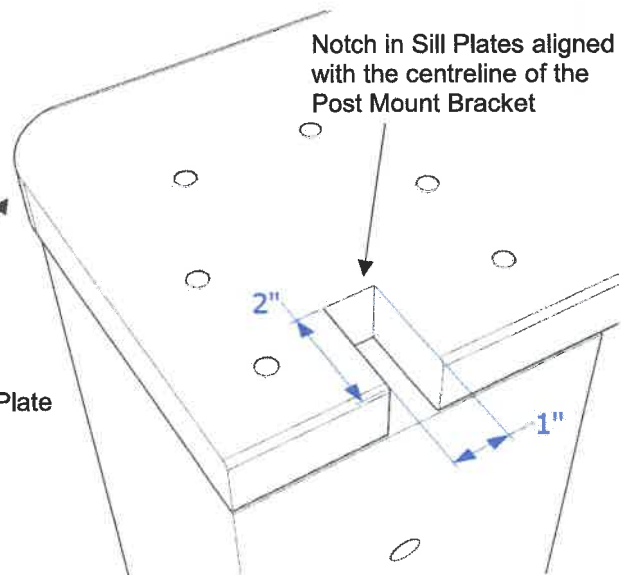
6. Install a dimensional lumber Sill Plate on the tops of the Posts. The plate should be a minimum of a 2" x 10".
7. The Plate should be installed flush to the inside face of the Post and should extend past the outside face of the Post by a minimum of 2".
8. The Sill Plate will push the Cover off the steel at the bottom of the Truss thus minimizing wear on the Cover.



Nail Sill Plates to top of Posts with 3 1/2" long Ardox (spiral) nails

Notch in Sill Plate at each Post for Swivel Plate clearance

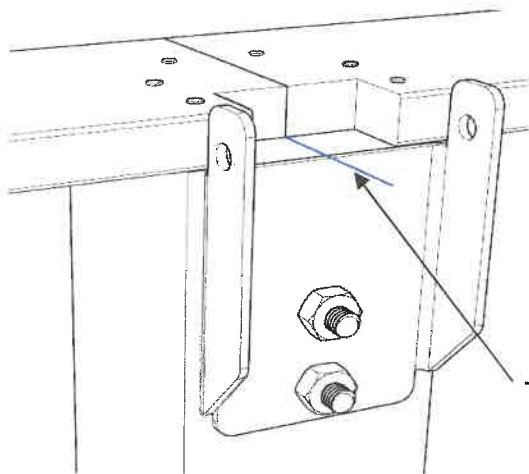
Round off corner of Sill Plate at ends (four corners)



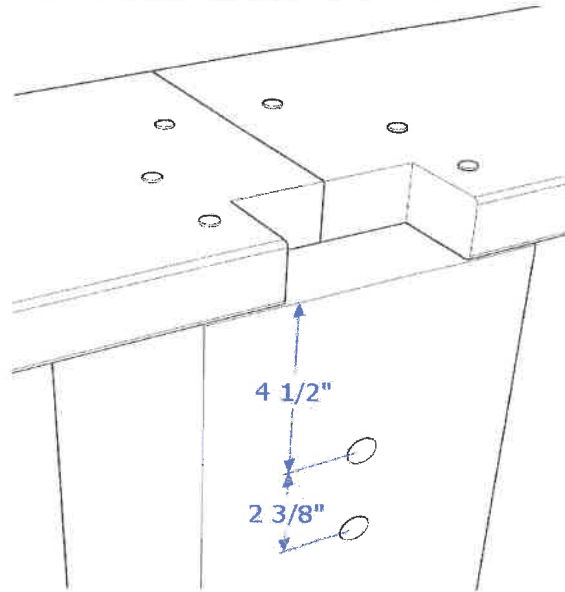
Notch in Sill Plates aligned with the centreline of the Post Mount Bracket

Foundation Layout - Post Mount

9. Drill the 5/8" dia. mounting holes in the Posts for the Post Mount Brackets.
10. The hole positions can be measured or the Post Mount Bracket can be used as a template for drilling the holes.

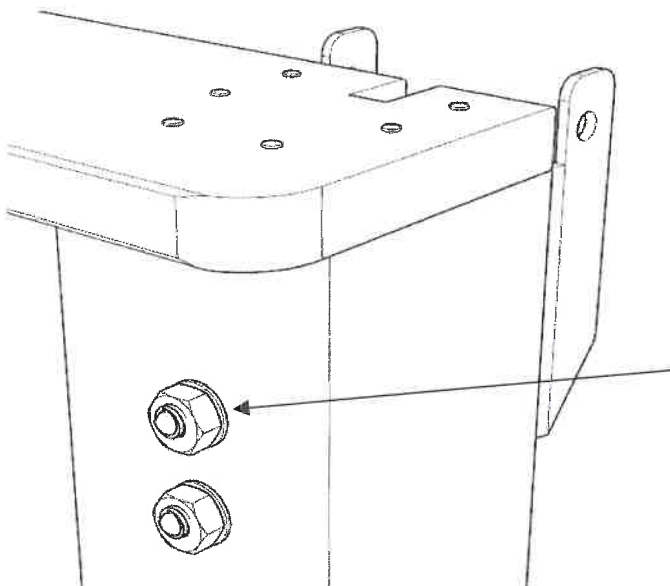
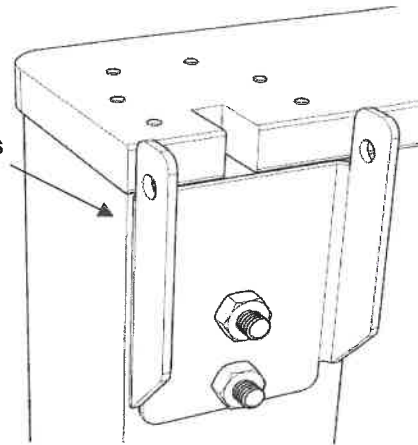


Top of Bracket flush with top of Post



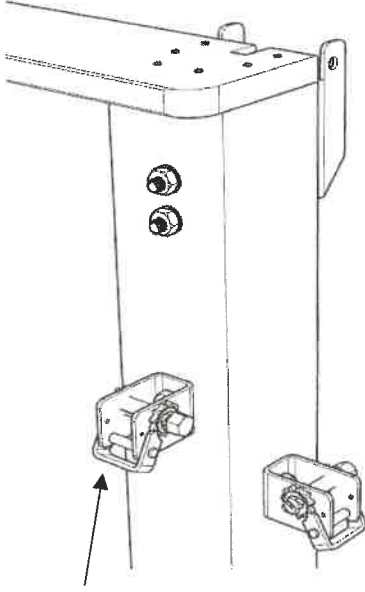
Common or Interior Post Brackets are on the centre of the Posts.
Note: check Gridline dimensions for accuracy.

Note: the Bracket on the End Post is positioned so that the side of the bracket is flush with the outside of the Post.



9. Bolt the Post Mount Brackets to the Posts using the 5/8" dia. Threaded Rod.
10. Install a nut on both ends of the Threaded Rod c/w a Flat Washer on the outside of the Post so that the bolted joint will remain tight.

Foundation Layout - Post Mount



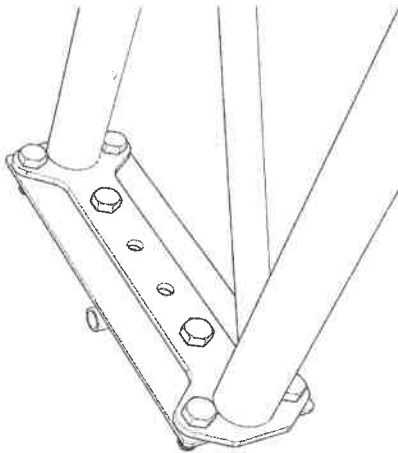
Cover Winch

11. Drill a 5/8" dia. mounting hole 18" below the top of the Posts for the Cover Winches. Do this on all of the Posts.
12. Install the Block Winches and bolt in place with 5/8" Threaded Rod c/w nuts and a Flat Washer on the inside of the Post.
13. Drill a 5/8" dia. mounting hole 24" below the top of the End Posts for the End Flap Cable Winches. Do this on the End Posts only.
14. Install the Block Winches and bolt in place with 5/8" Threaded Rod c/w nuts and a Flat Washer on the inside of the Post.
15. Install the Block Winches with the Lock Bar down as shown in the diagram.

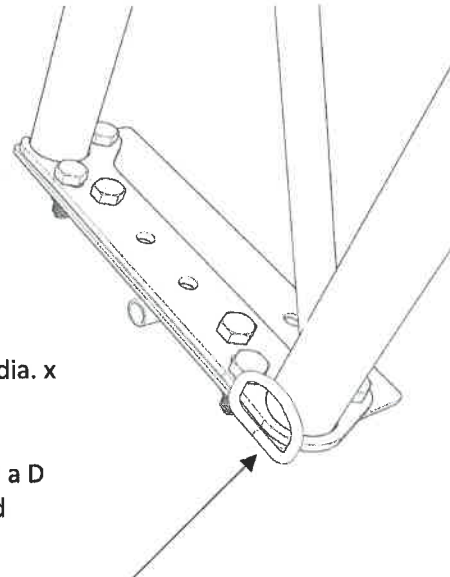
Lock Bar

Note: Align the Cover Winch holes in the Posts with the Bracket mounting holes.

Note: the End Post Mount Bracket is offset toward the end of the building.



16. Install the Swivel Plate on the Common or Interior Trusses with six 5/8" dia. x 2" long bolts and nuts.



17. Install the End Swivel Plate on the End Trusses with six 5/8" dia. x 2" long bolts and nuts.
18. There is a right and left End Swivel Plate both equipped with a D Ring for routing the End Flap Cable - usually only on Ground Mount buildings.
19. Position the D Ring on the outside of the Truss at the lower end as shown in the diagram.

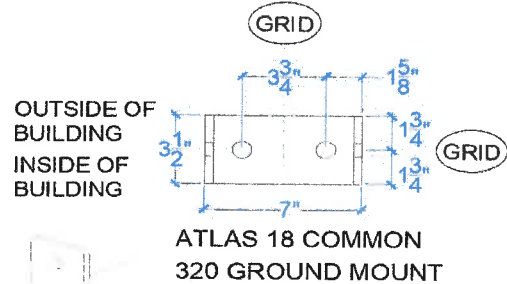
Foundation Layout - Ground Mount

IMPORTANT: Refer to the building specific sealed structural drawing labelled "Baseplate Layout".

1. Position the Ground Mount Brackets on the Gridlines at the width dimension of the profile drawing of the building. Refer to the Baseplate Width section of this Manual.

2. Refer to the 320 Ground Mount diagrams on this page for the dimensions of the Ground Mount Brackets and the Gridlines of the Trusses.

3. The End Brackets are offset from the Gridline of the End Truss so that the end of the building is flush. This will ensure good End Flap and End Wall Cover finishing. Offset the End Brackets so the outside face

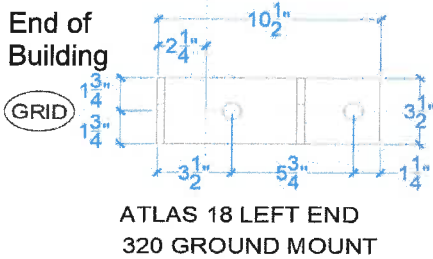


Anchor bolt holes: 7/8" dia.
Plate thickness: 3/8"

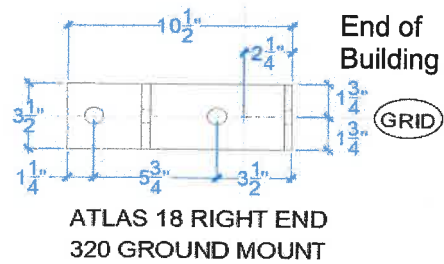
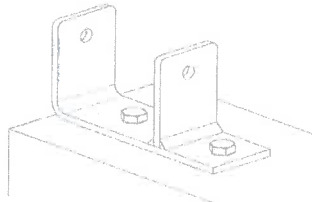
is 2 1/4" outside of the Gridline.
BUILDING (GRID) BUILDING

Note: Set anchor bolts as per the foundation engineers specifications.

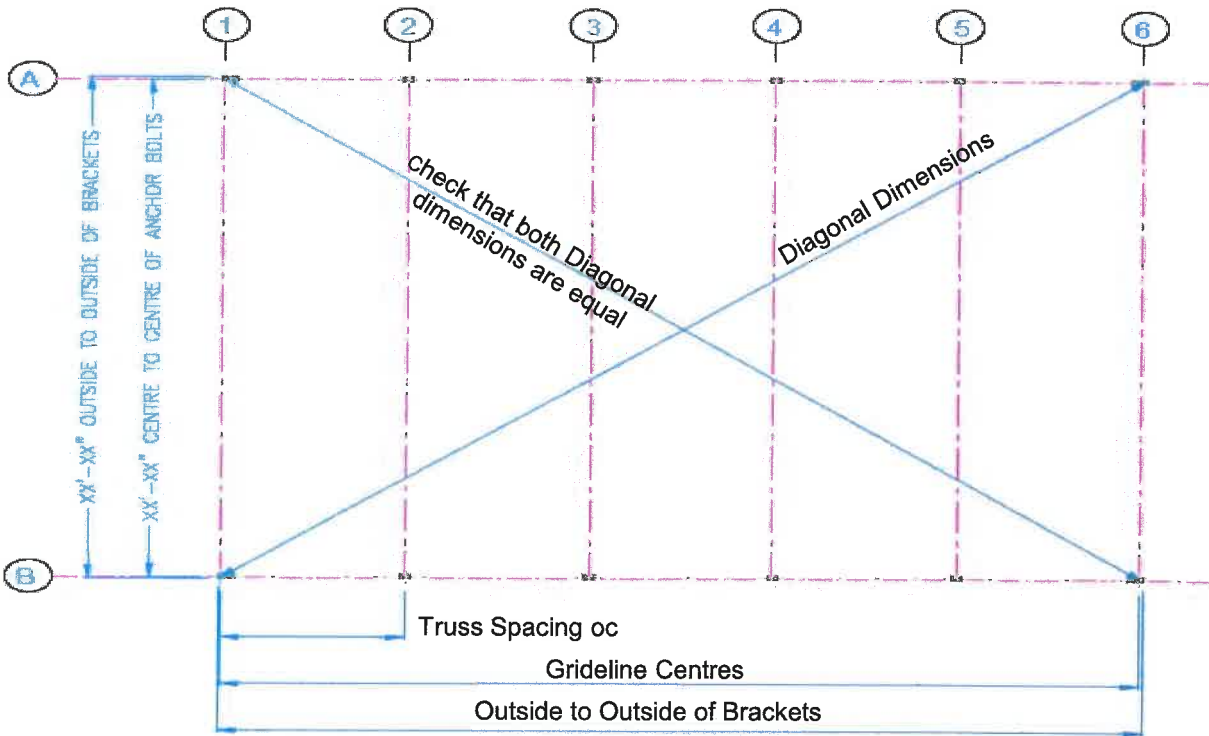
INSIDE OF BUILDING (GRID) OUTSIDE OF BUILDING



ATLAS 18 LEFT END
320 GROUND MOUNT

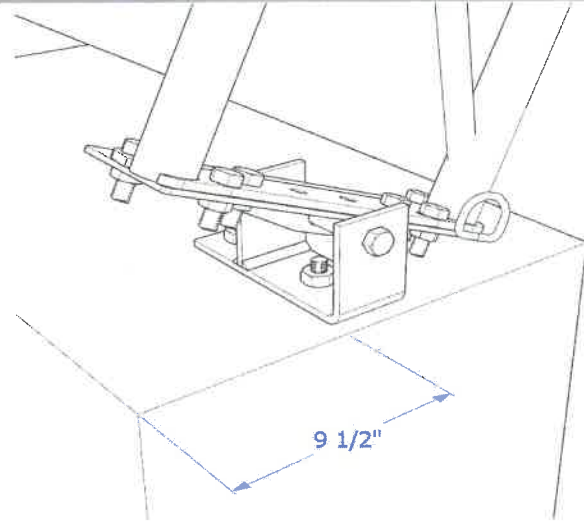


ATLAS 18 RIGHT END
320 GROUND MOUNT

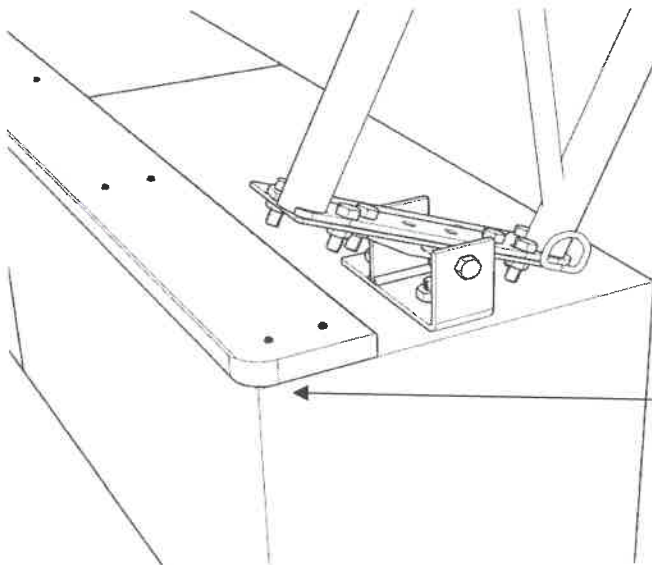


Foundation Layout - Post Mount

4. Position the Ground Mount Brackets on the foundation. If the foundation consists of concrete blocks that are 2' to 3' wide, position the outside edge of the Ground Mount Bracket approximately 9 1/2" from the outside edge of the concrete.
5. This will allow the Cover Apron to transition neatly onto the outer face of the concrete block.
6. Always refer to the foundation Engineer's instructions on Bracket placement and anchor bolt details.



7. Regardless of the type of concrete foundation, the Ground Mount Brackets should be located close to the end of the foundation so that the Cover End Flap and the End Wall Cover can terminate cleanly on the outside corner of the foundation.
8. The Bracket however, should not overhang the concrete as the Bracket needs to be fully supported by the foundation.



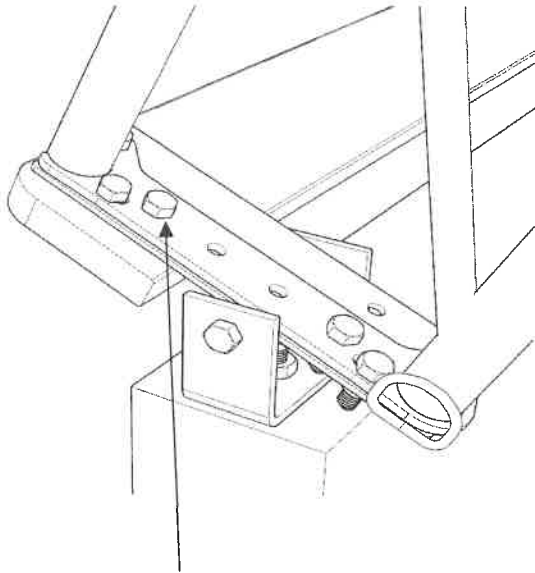
9. In addition, the outermost Anchor Bolt in the bracket will need a minimum distance from the edge of the concrete to maintain the concrete coverage required by the foundation engineer - based in part on the type and strength of the concrete and the type of anchor bolt specified. 3" coverage is fairly typical but best to refer to the foundation Engineer's specifications.

Round off corner of Buffer Board at ends (four corners)

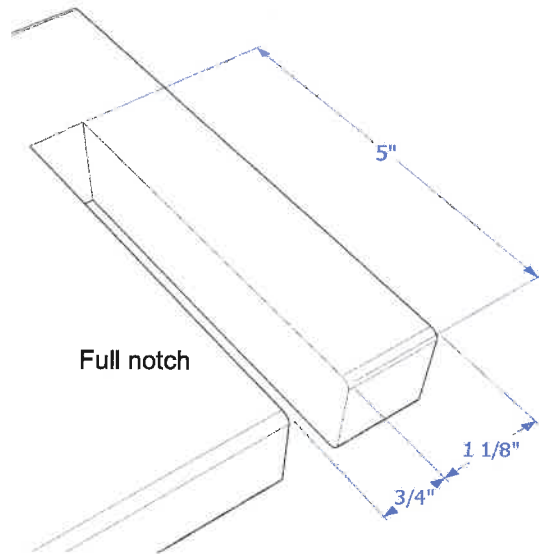
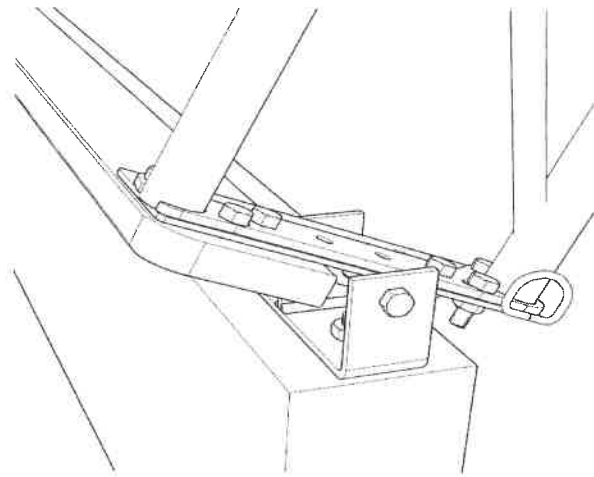
10. Install a dimensional lumber Buffer Board on the top of the concrete block foundation using wedge anchor bolts or Tapcon screws. The board will protect the Cover fabric from wear on the edge of the concrete.
11. The board should be installed to extend 1/2" to 1" beyond the outside face of the block and extend the full length of the building on both sides of the building.
12. Round off the outside corner of the Buffer Board on all four corners to reduce the pressure point and wear on the Cover.

Foundation Layout - Post Mount

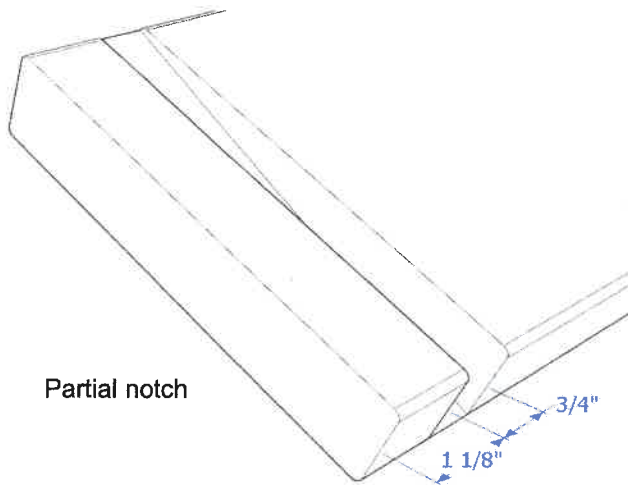
10. If the building is to be installed on a poured in place concrete foundation wall, position the Ground Mount Brackets in the centre of the foundation.
11. Install a dimensional lumber Buffer Board on the bottom of the Truss below the Swivel Plate. The board will protect the Cover fabric from wear on the end of the Truss.



Bolt Buffer Board to Dogbone and Swivel Plate



Full notch

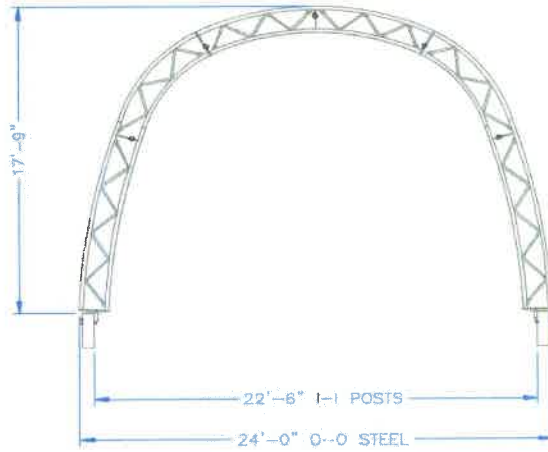


Partial notch

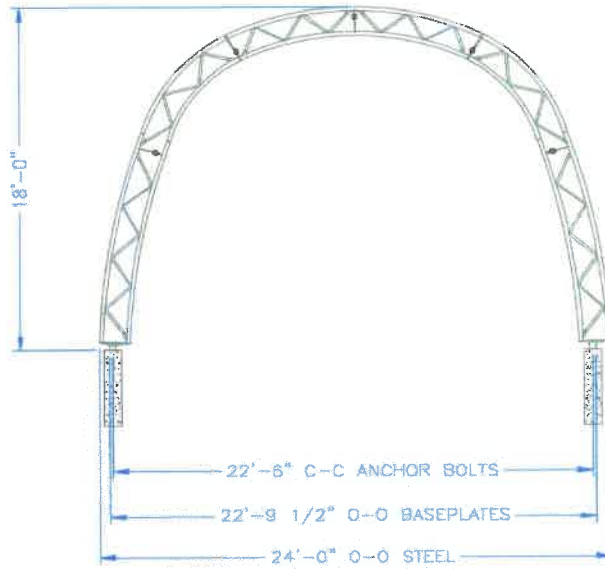
12. The Buffer Board should be bolted to the bottom of the Swivel Plate using a bolt hole along the centreline of the Dogbone.
13. The dimensional lumber Buffer Board will need to be notched to clear the Gusset on the bottom of the Swivel Plate.

Baseplate Dimensions

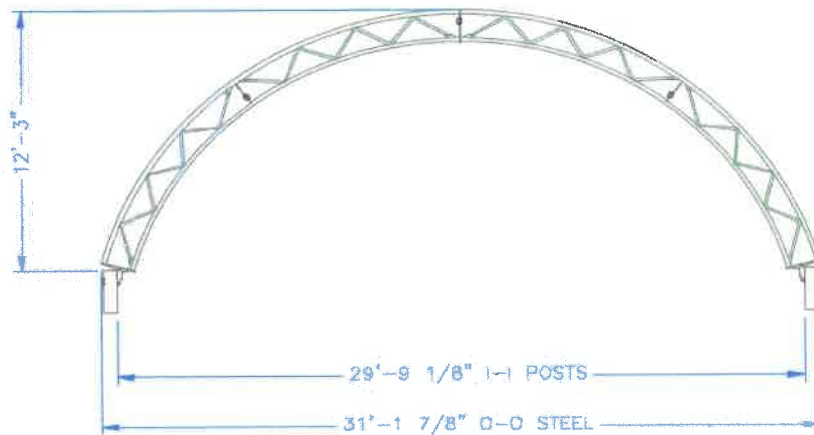
Atlas 24' Post Mount



Atlas 24' Ground Mount

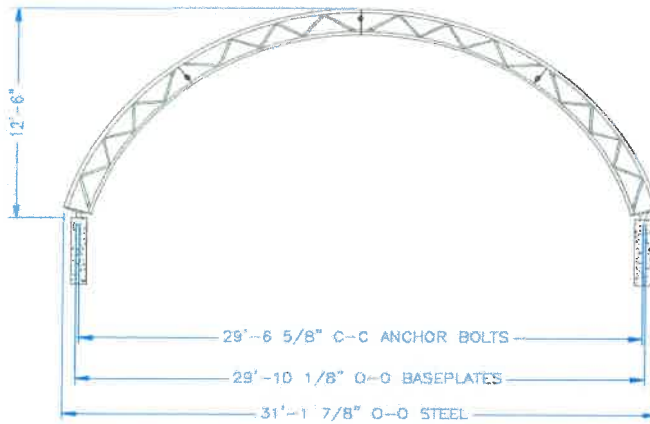


Atlas 30' Post Mount

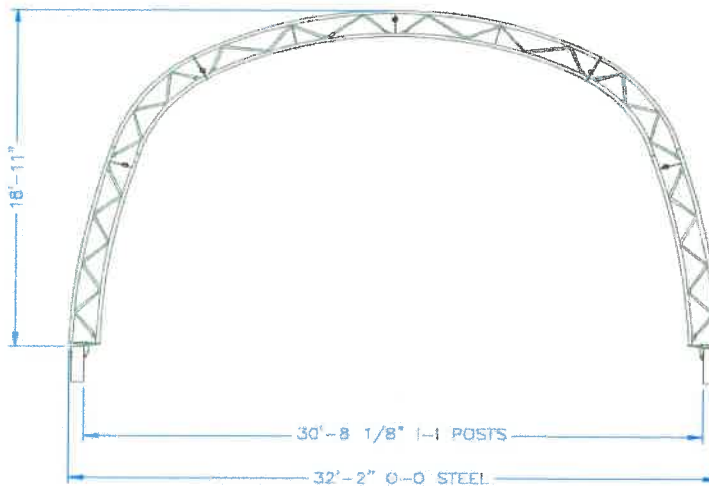


Baseplate Dimensions

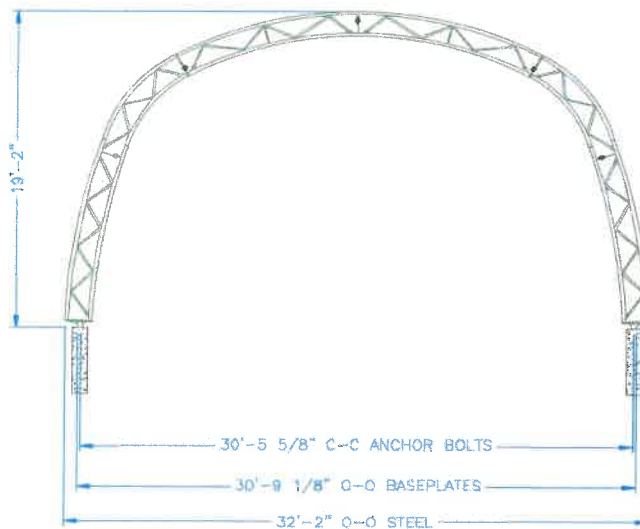
Atlas 30' Ground Mount



Atlas 32' Post Mount

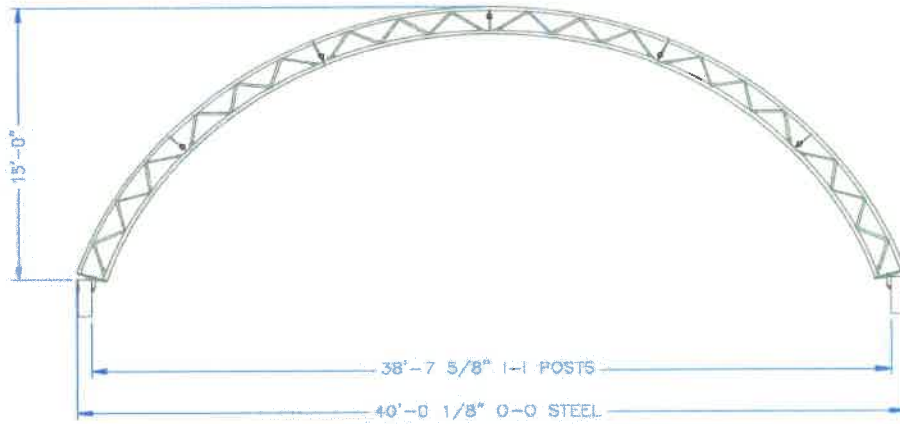


Atlas 32' Ground Mount

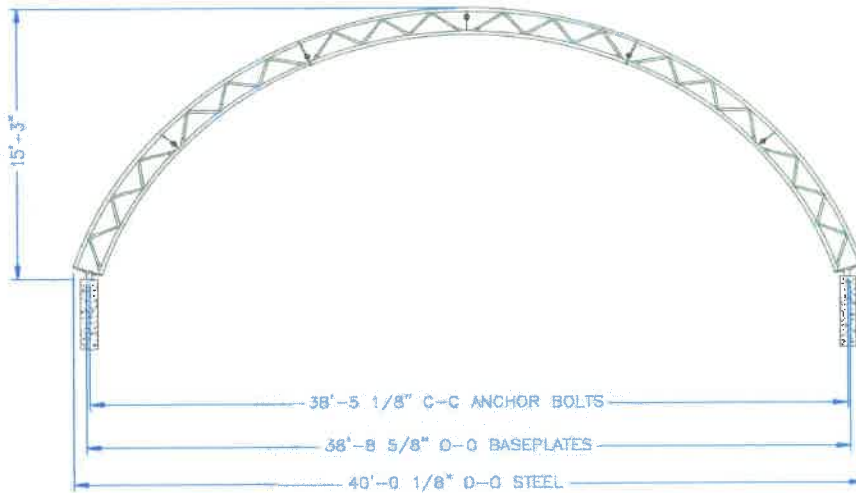


Baseplate Dimensions Continued

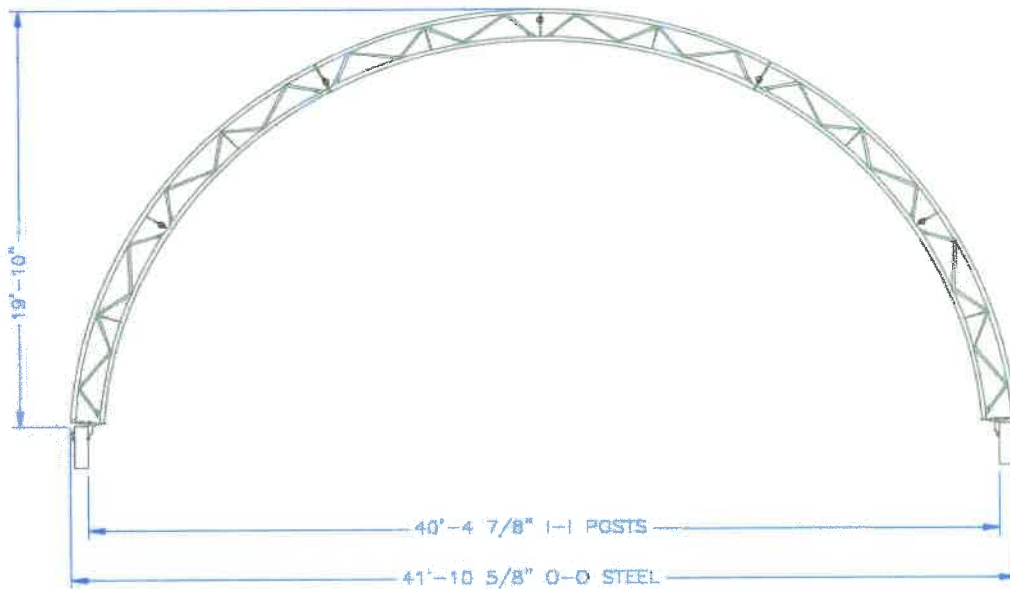
Atlas 40' Post Mount



Atlas 40' Ground Mount

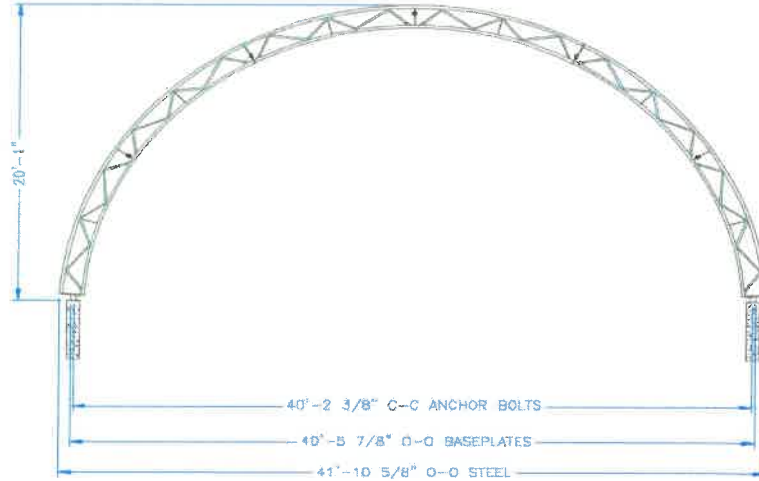


Atlas 42' Post Mount

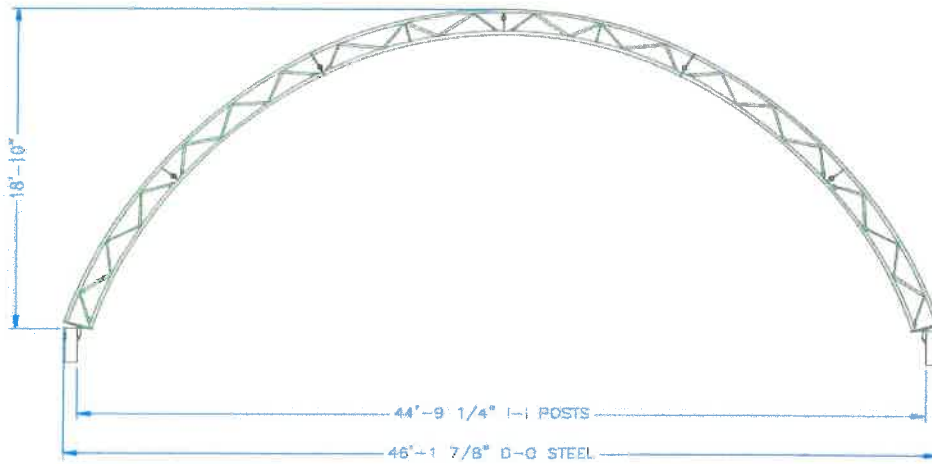


Baseplate Dimensions Continued

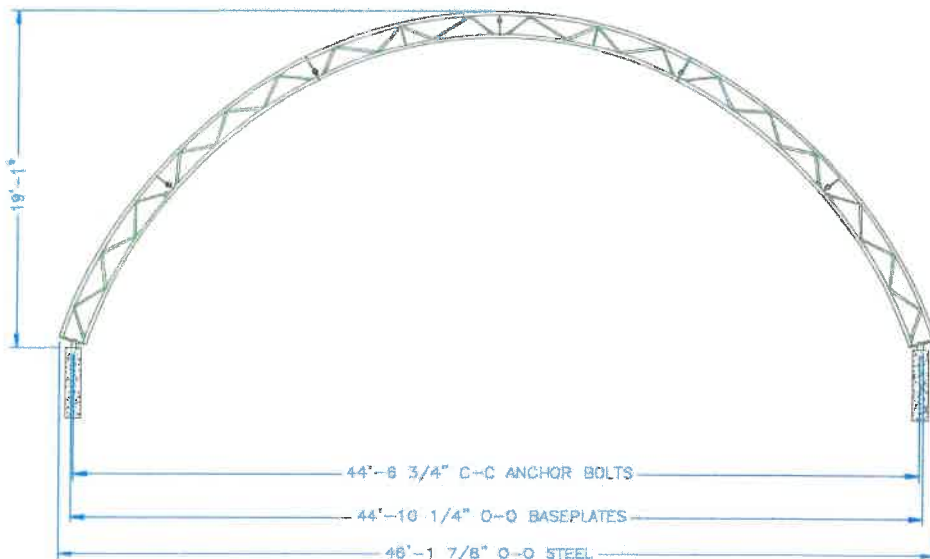
Atlas 42' Ground Mount



Atlas 46' Post Mount

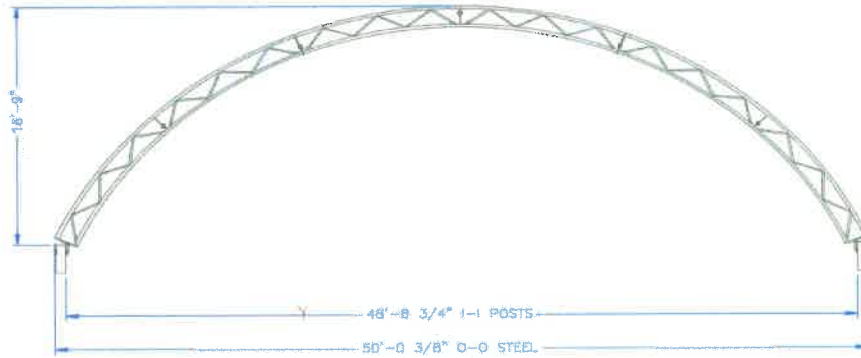


Atlas 46' Ground Mount

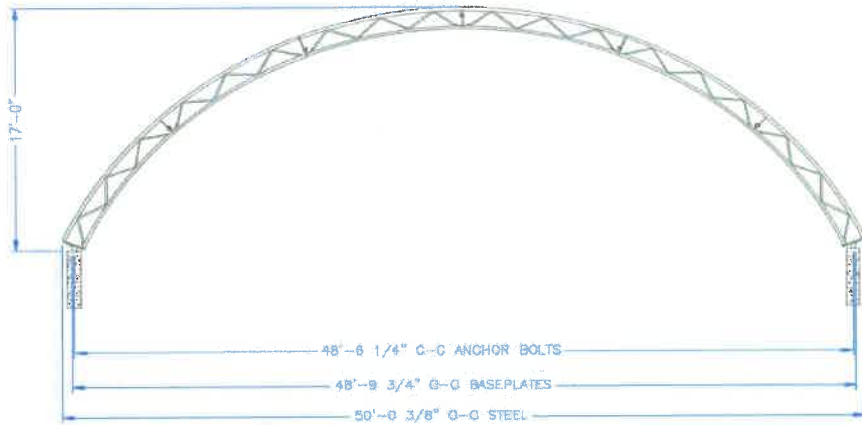


Baseplate Dimensions Continued

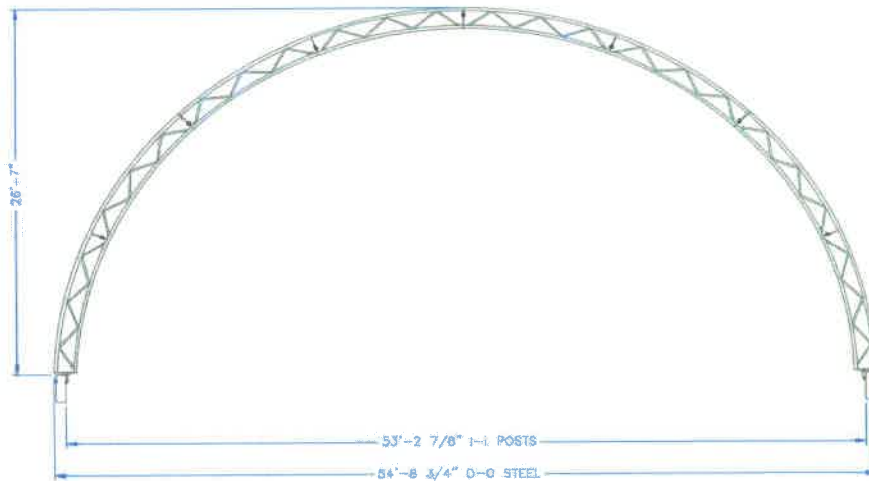
Atlas 50' Post Mount



Atlas 50' Ground Mount

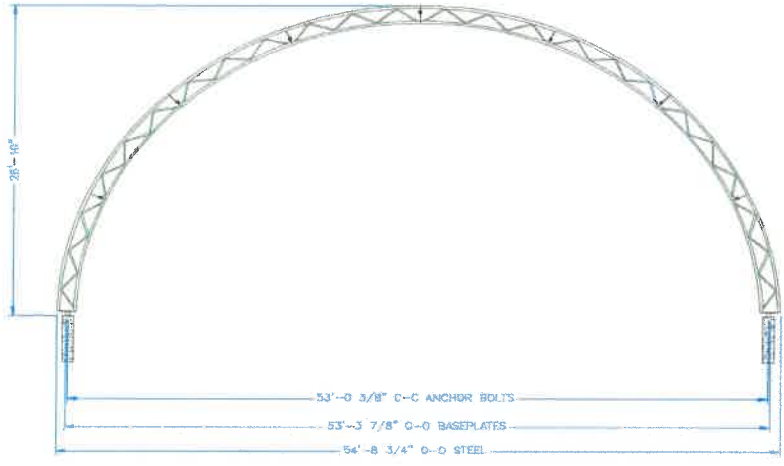


Atlas 55' Post Mount

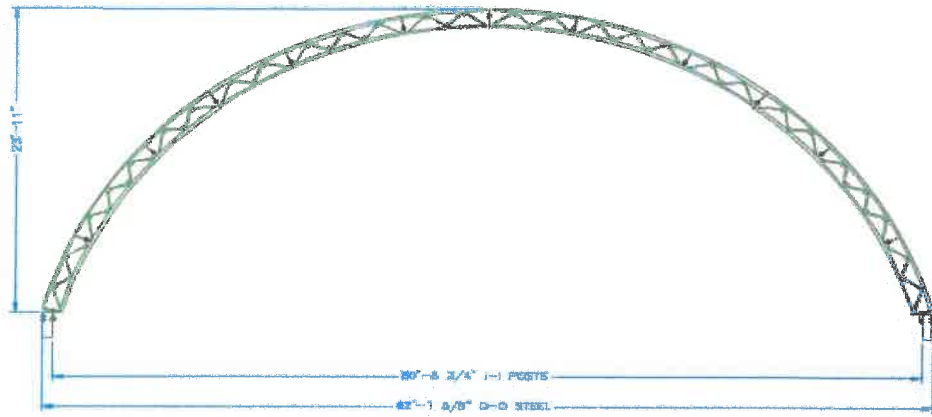


Baseplate Dimensions Continued

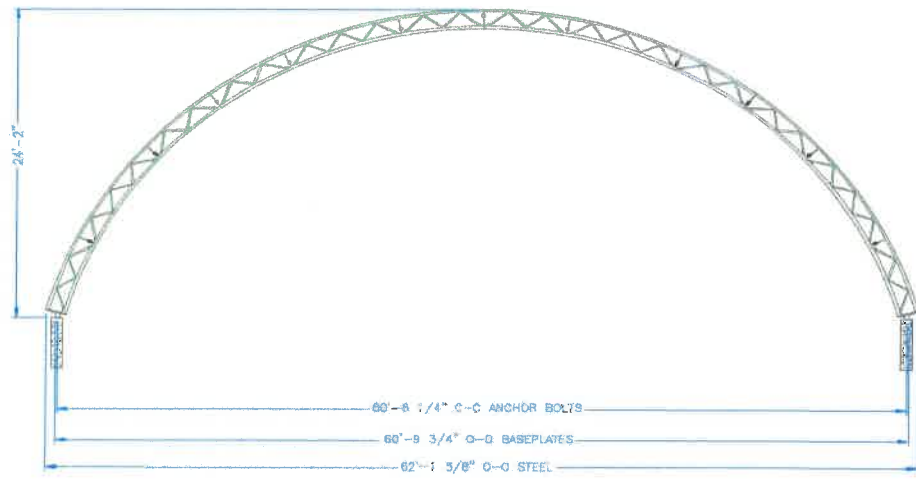
Atlas 55' Ground Mount



Atlas 62' Ground Mount



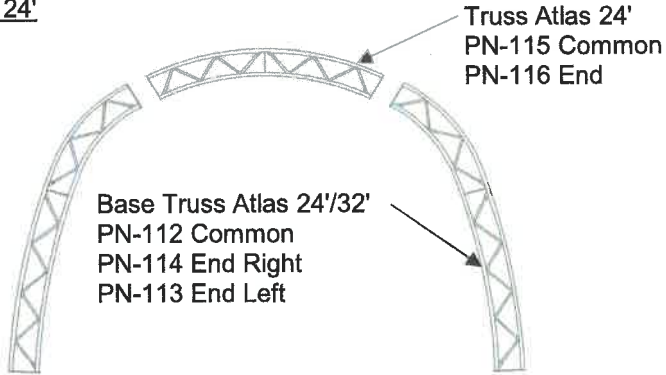
Atlas 62' Post Mount



Truss Assembly

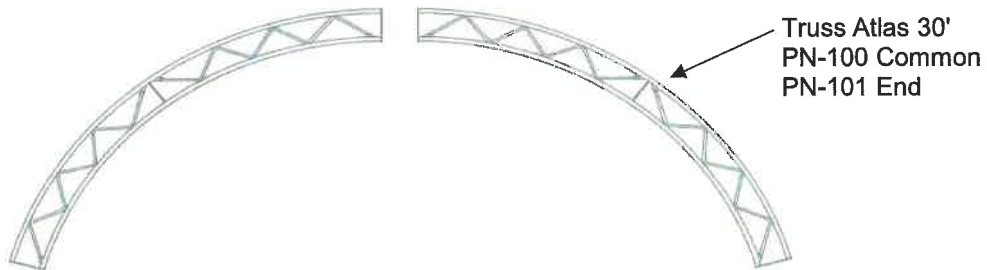
IMPORTANT: Check the Structural drawings for details of Truss section placement and orientation. In some cases, the Truss components are re-enforced and so must be placed and oriented as per the

Atlas 24'

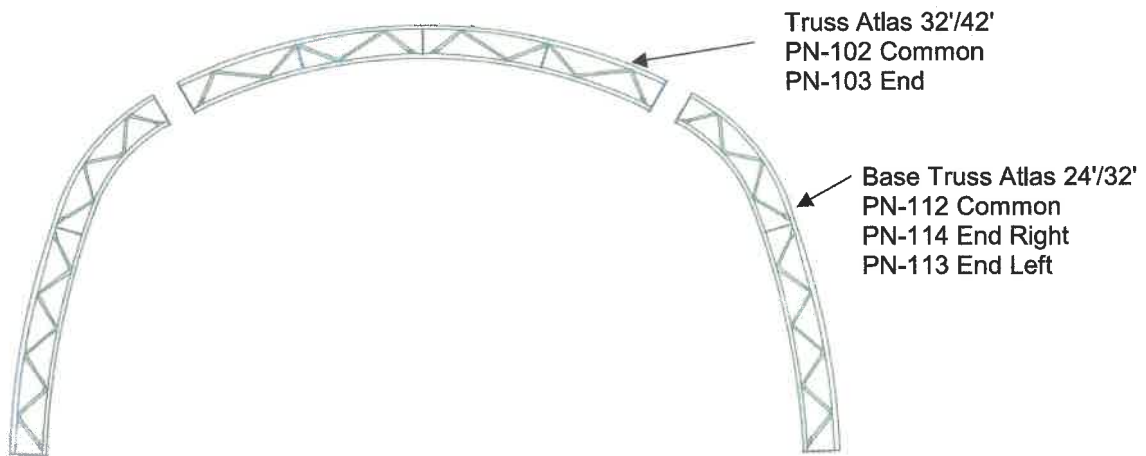


Bolt Size for Truss Assembly	
Location	Bolt Size
Coupler (Dogbone)	5/8" dia. x 3" long
Kingpin	5/8" dia. x 2 1/2" long
Note: applies to all Atlas 18 Series buildings	

Atlas 30'



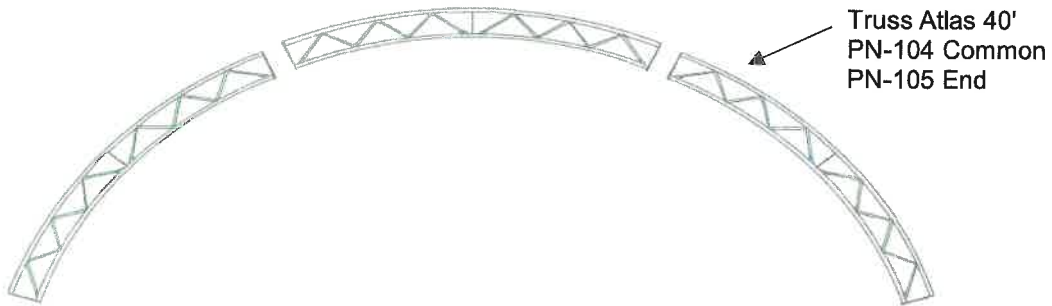
Atlas 32'



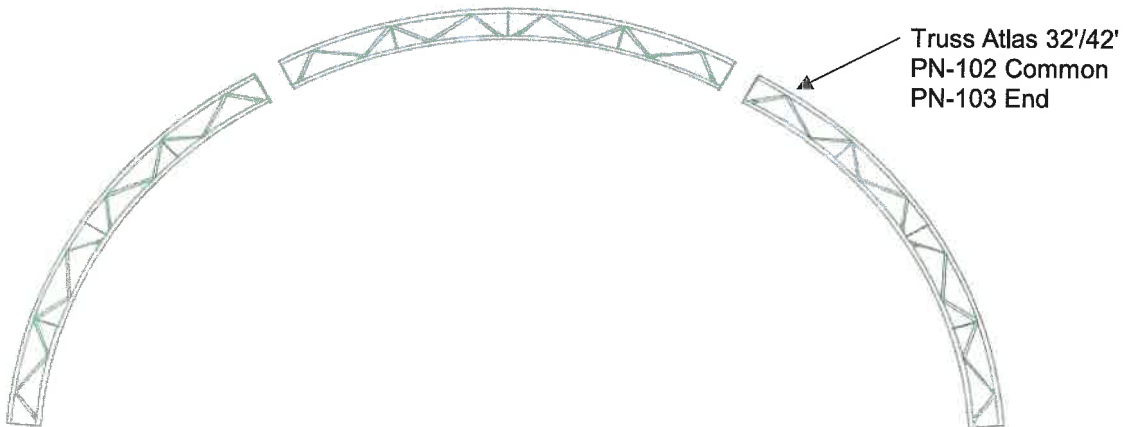
Truss Assembly

IMPORTANT: Check the Structural drawings for details of Truss section placement and orientation. In some cases, the Truss components are re-enforced and so must be placed and oriented as per the

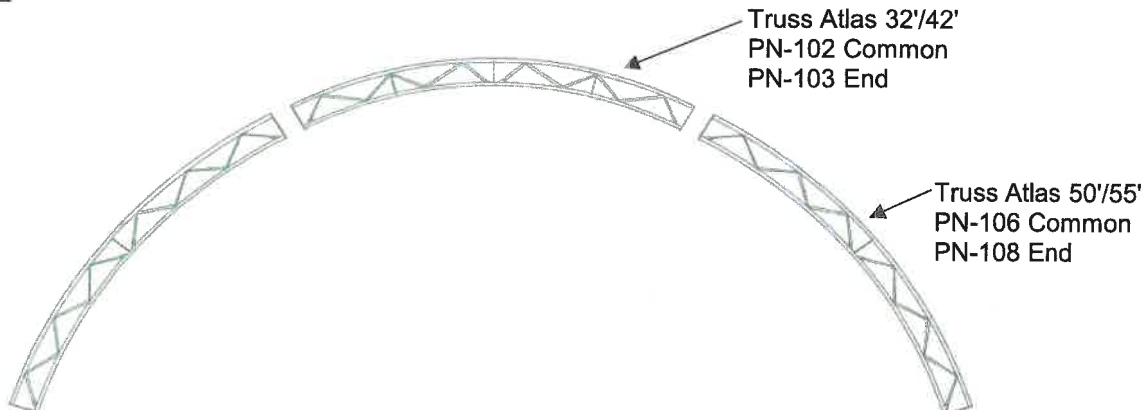
Atlas 40'



Atlas 42'



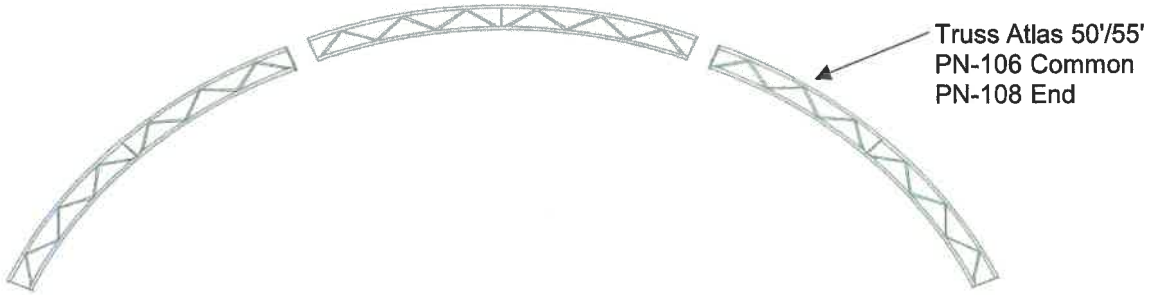
Atlas 46'



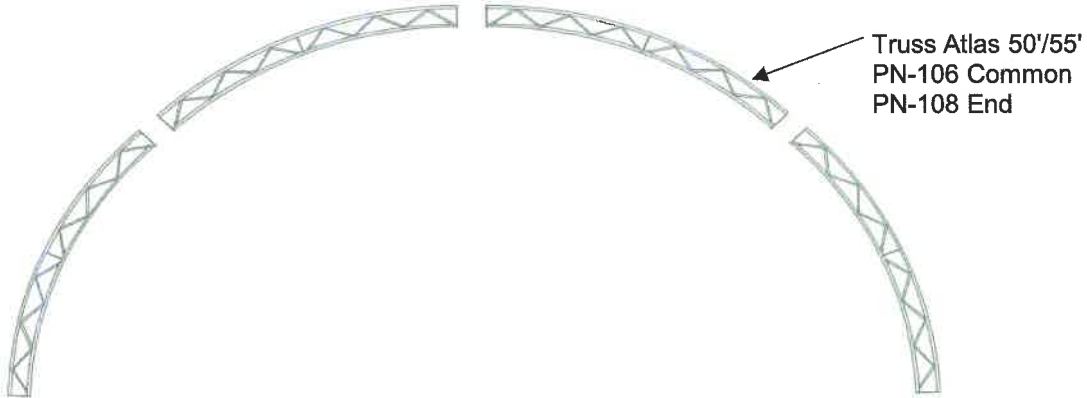
Truss Assembly

IMPORTANT: Check the Structural drawings for details of Truss section placement and orientation. In some cases, the Truss components are re-enforced and so must be placed and oriented as per the

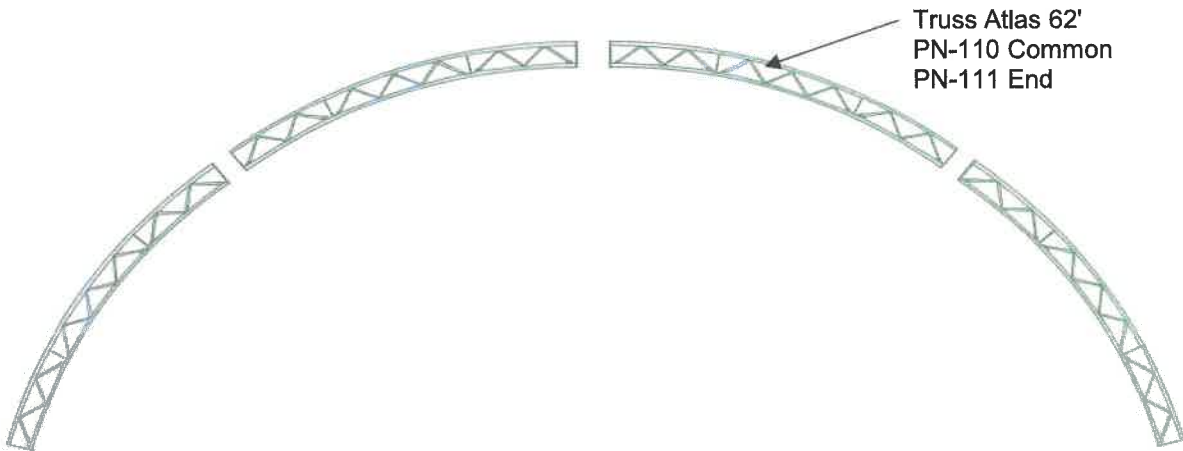
Atlas 50'



Atlas 55'



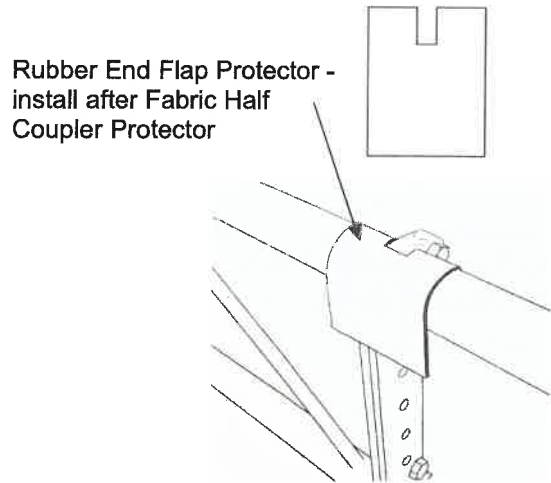
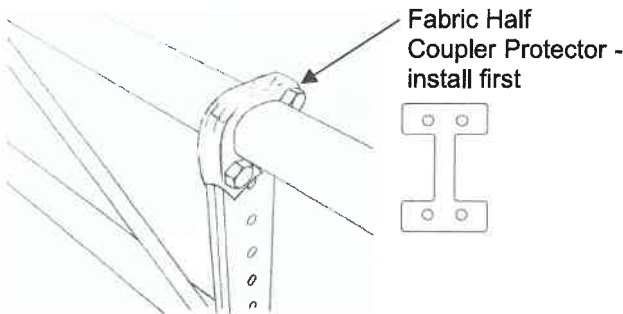
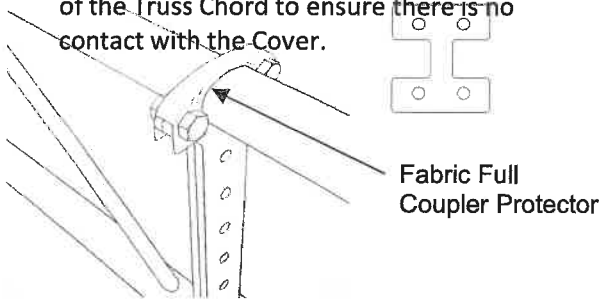
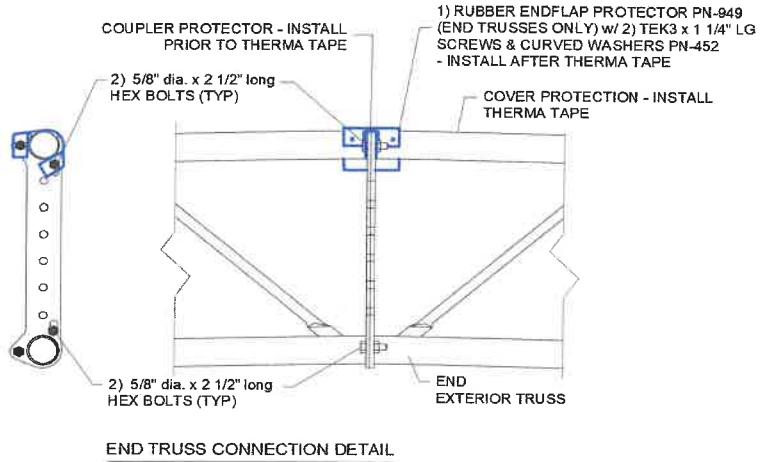
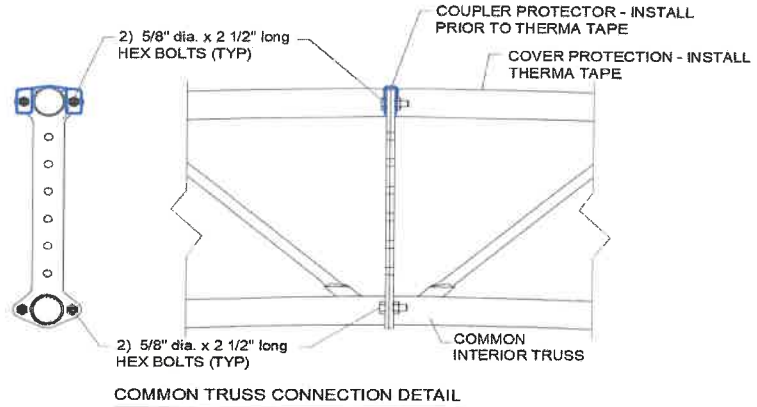
Atlas 62'



Truss Assembly Continued

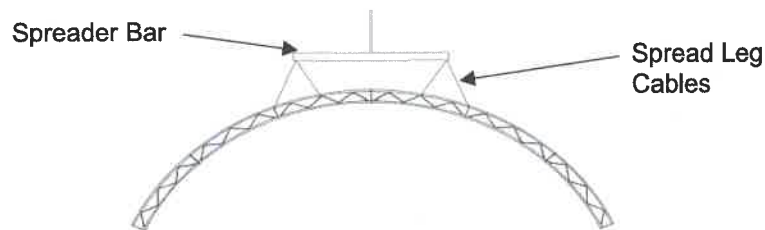
IMPORTANT: Refer to the building specific sealed structural drawings labelled "Purlin and Cable Layout" & "Standard Details".

1. Ensure that Dogbones (Couplers) assemble flush. Ensure all holes align and bolts and nuts are tightened as per table from the building specific sealed structural drawing labelled "Cover Page".
2. On Common or Interior Trusses and End Trusses, install the Fabric Coupler Protectors by pushing each of the holes in the Fabric Protector fully over the appropriate bolt head. The friction will hold it in place.
3. To protect the Cover from damage and to maximize the Cover life, apply the Therma Tape to the top surface of the Truss Outer Chord. Ensure the surface is clean and dry before applying the tape.
4. On End Trusses only, install a Rubber Endflap Protector over the outside of each of the Couplers. Use two TEK3 screws c/w curved washers. Ensure the heads of the TEK screws are on the inside of the Truss Chord to ensure there is no contact with the Cover.



Erecting Trusses

6. Assemble and position the Trusses so they can be easily reached with the crane for mounting on the top of the Legs that are bolted to the foundation.
7. Start with End 1 of the building and work in sequence to End 2.
8. Always use a spreader bar with multiple attachment point to the Truss to spread the load.



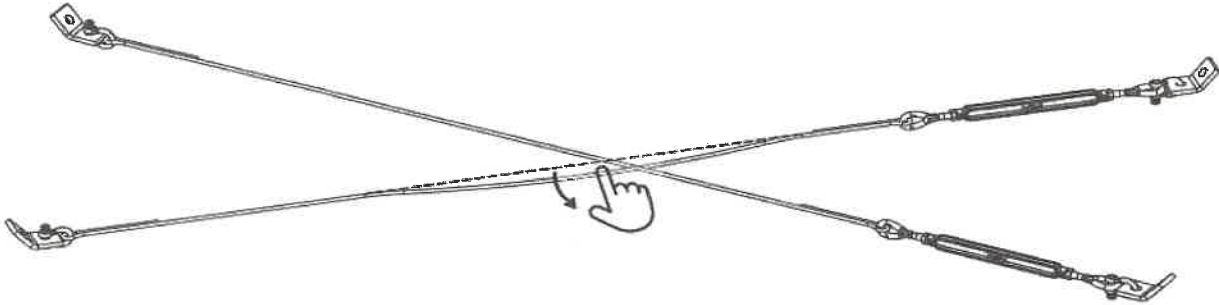
WARNING: A Spreader Bar and/or spread leg cables designed by a Lifting Engineer for a multiple point lift is required when erecting trusses with a crane to distribute weight, improve stability and prevent distortion of the Truss. **THE BUILDING WARRANTY IS VOID IF A SPREADER BAR IS NOT**

9. Lift the Truss Assembly with extreme caution. Carefully position the Truss on the top of the Legs and bolt the Leg and Truss Dogbone Couplers together with a minimum of four 5/8" dia. x 3" long bolts on each side of the building.
10. Check the Truss for plumb and brace the Truss with ropes and dimensional lumber so it is stable while the next Truss is placed.
11. Lift and mount the second (Grid 2) Truss in the same manner.
12. When the second Truss is secured and bolts, plumb the Truss and brace with ropes and dimensional lumber.
13. Proceed to the next page for details on installing the Purlins and Cross Cable bracing between the first and second Trusses.
14. Careful attention to detail ensuring that this first braced bay is square and plumb will provide a good straight and solid basis from which to erect the rest of the building.

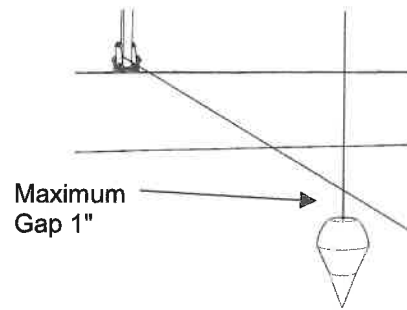
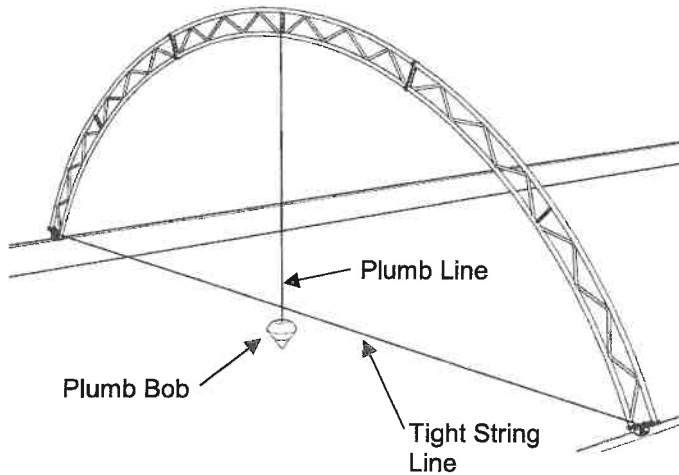
CAUTION: Protection of the aluminum Extrusion and Snap Cap (if equipped) must be provided during the lifting of the Truss frames.

Erecting Trusses Continued

15. Insert Horizontal Purlins, and Cross Cables as per the "End Purlin & X-Cable Layout" from the structural drawings. Open the turnbuckle of the cable fully before securing each end to the dogbone or king pin location. Then tension the cable by tightening the turnbuckle until there is between 1 1/2" to 2" of deflection when 50 pounds of force is applied. Ensure that the Cross Cables are approximately of equal length to apply equal force to each side of the Truss and ensure that the Truss is plumb. Attach Double Cable Tabs where there are cabled bays side by side and discard the Single Cable Tabs supplied with the Cables.



16. Adjust the Cross Cables to plumb the Trusses at Grid 1 and 2. Ensure to check both sides of the Truss Leg for plumb. Note that the maximum gap is determined by Truss and Leg Chord diameter.
17. Repeat raising the Trusses, securing to the Baseplates, installing Purlins and Cross Cables and temporarily bracing for the remainder of the building. Follow the Structural drawings for all Purlin and Cross Cable placement. Ensure that each frame is plumb and level at each grid. All bolts and nuts must match the sizing and tightening specifications listed in the Structural drawings. Check to ensure that all Extrusion and Snap Cap have remained aligned and are undamaged.

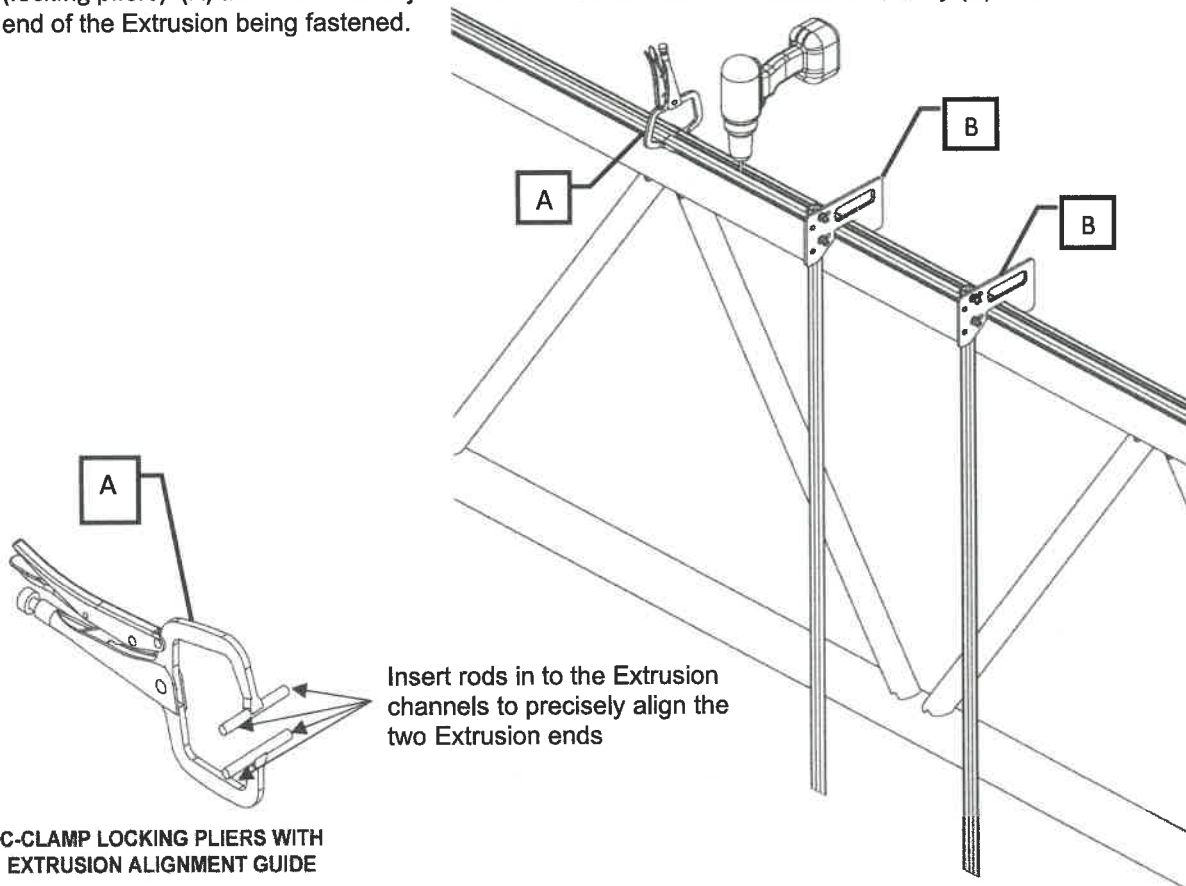


IMPORTANT: Ensuring that frames are plumb and level will improve the fit and finish of the installed cover fabric with less wrinkling and overall longevity of the fabric's durability. Failure to do so will affect the validity of the limited warranty.

Cover Joint Extrusion Installation

IMPORTANT: Buildings longer than 144' will have more than one Cover. Use these instructions if the Cover Joint is specified as a "Kedered Extrusion Joint". Please refer to the Structural drawings for

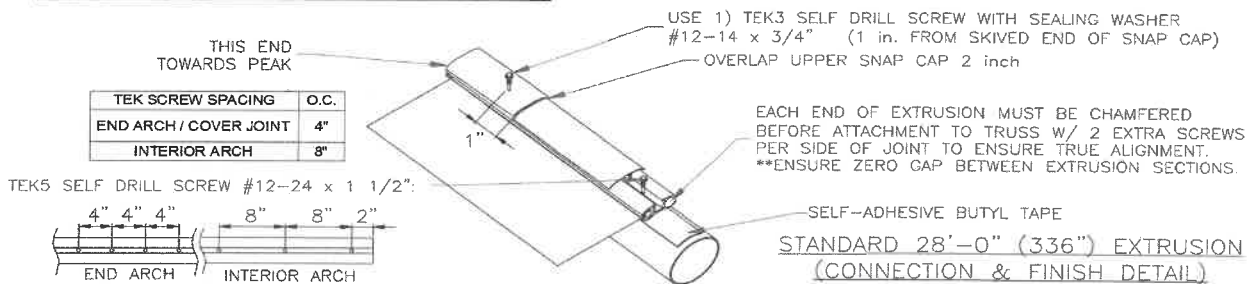
1. Install foam Butyl Tape centred on the top Chord of the assembled Truss from one side to the other.
2. Cut lengths of aluminum Extrusion according to the "Extrusion Layout" in the Structural drawings. Confirm on site, the length of the final piece of Extrusion marked on the drawing as "field verify".
3. Ream and chamfer each end of the Extrusion to ensure that the channels where the fabric runs have no snags or burrs and that the Extrusion will join flush to the next piece of Extrusion.
4. Install the Extrusion centred on the top of the top Chord from the base of the intended finished Cover to the base of intended finished Cover on the other side. Use an Extrusion Alignment Guide (locking pliers) (A) at the Extrusion joint and a Universal Extrusion Guide Assembly (B) on each end of the Extrusion being fastened.



Cover Joint Extrusion Installation Continued

5. Install TEK 5 screws as per the "Standard 28'-0" (336") Extrusion (Connection & Finish Detail)" on the Structural drawing labelled "Extrusion Layout". See Sample Detail below.
6. To reduce the risk of stripping or breaking TEK screws when installing select a driver that has a clutch limiting torque setting as not to over tighten. It is also recommended that the driver use a lithium powered battery as this will reduce torque variation over the life of the battery charge.
7. Ensure that each Extrusion Joint has two TEK 5 screws installed through virgin material, not the factory drilled hole on each side of the joint. This will ensure maximum alignment accuracy.

Sample Detail from the Structural Drawing



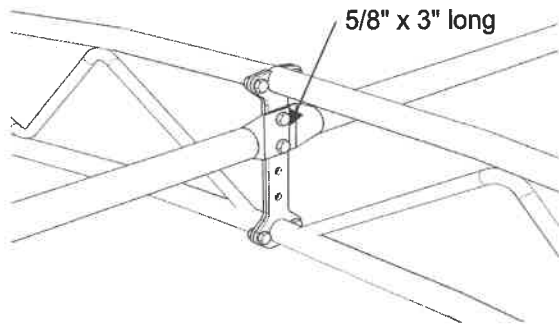
IMPORTANT: The first two self tapping TEK screws, installed 2" from the end of the Extrusion, must be drilled directly through virgin aluminum to ensure accurate alignment of the aluminum Extrusion Joints. Do not use a pre drilled hole at this location.

8. Starting from the base of the installed Extrusion on one side, tap the Snap Cap into the centre channel of the Extrusion with a rubber mallet.
9. Skive the first 2" of locking tab from the underside of the next length of Snap Cap. Tap this next Snap Cap into the Extrusion, so that it overlaps the lower length of Snap Cap by 2" and secure with a TEK 3 screw to create a shingling effect from peak to base.

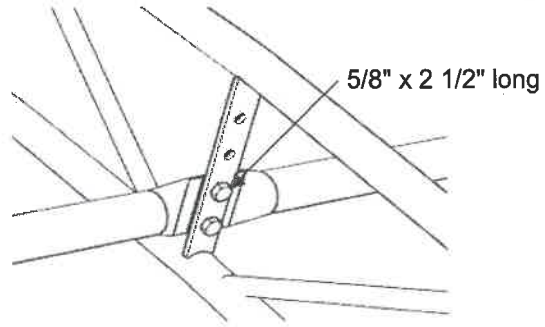
OPTION: Thread a pull rope in each fabric channel of the Extrusion so that when the Trusses are completely erected and the Covers are ready to install, the kedered end of the Covers can be quickly set-up to install.

Purlin Placement

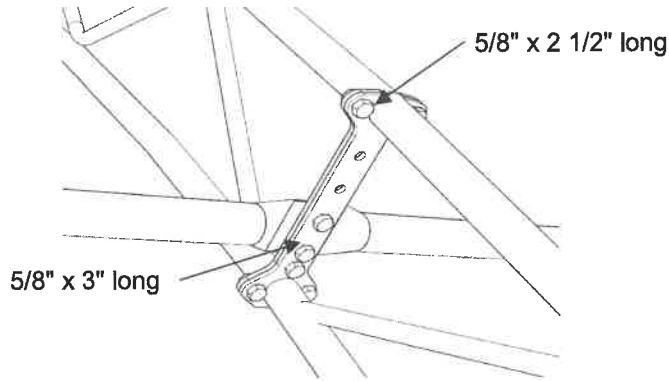
R (RIDGE)



P (KINGPIN)

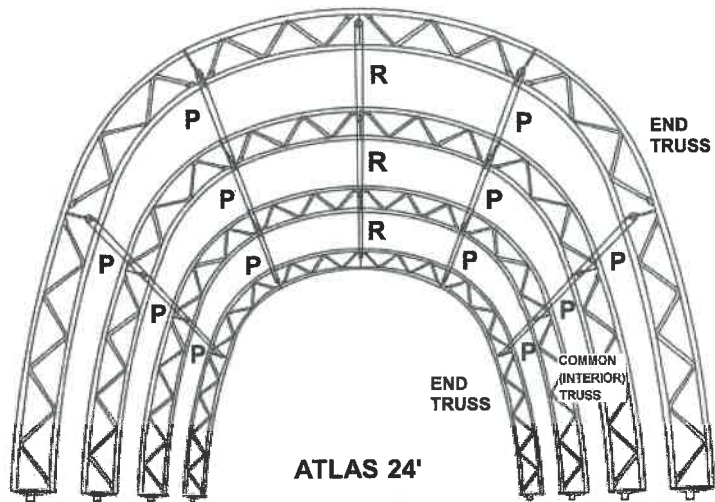


P (DOGBONE CONNECTION)



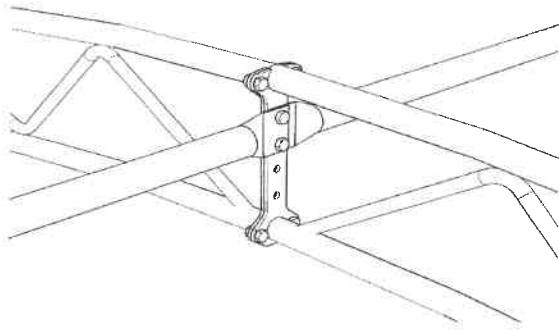
Bolt Size for Purlins	
Location	Bolt Size
Coupler (Dogbone)	5/8" dia. x 3" long
Kingpin	5/8" dia. x 2 1/2" long
Top of Leg	5/8" dia. x 4 1/2" long
Mid span of Leg (Atlas 52'L10' only)	5/8" dia. x 2 1/2" long

Note: applies to all Atlas 18 Series buildings

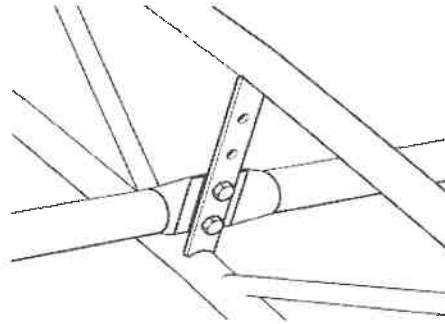


Purlin Placement Continued

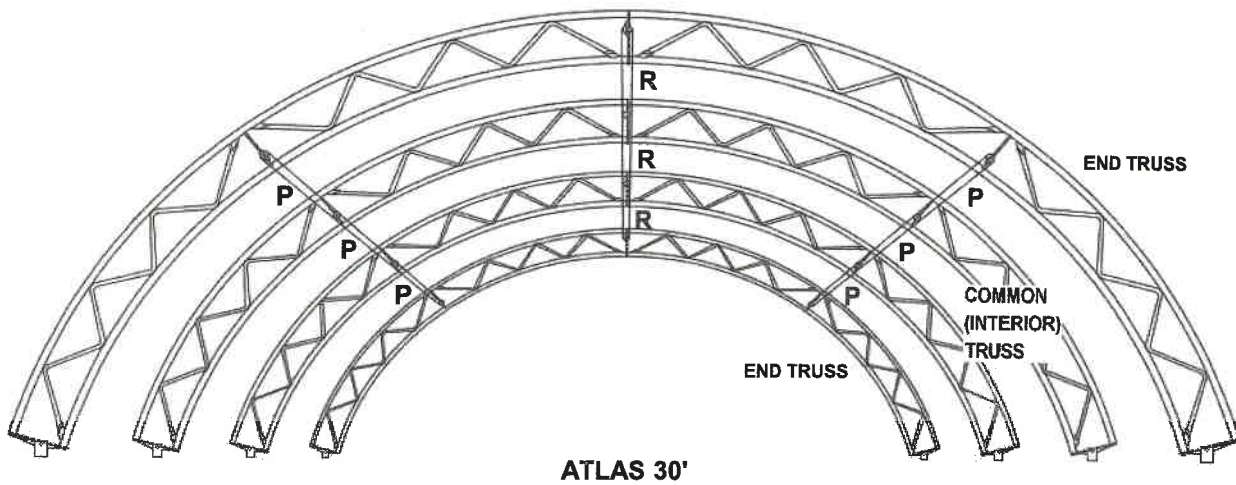
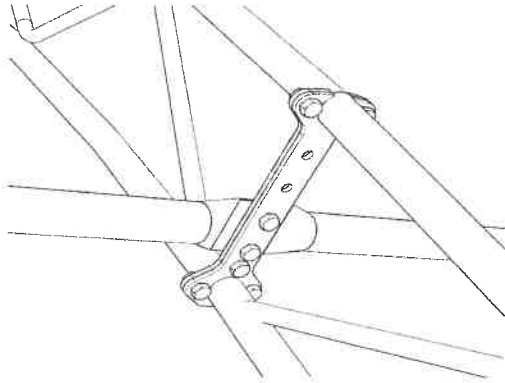
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P (KINGPIN)

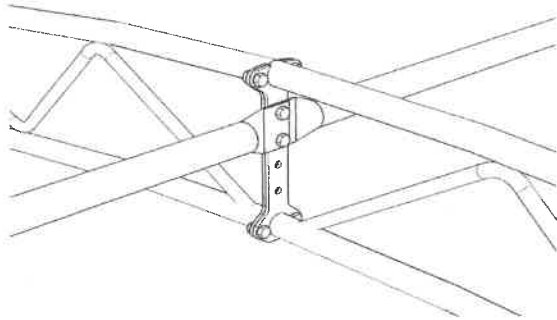


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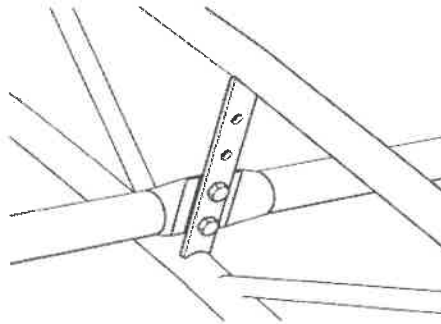


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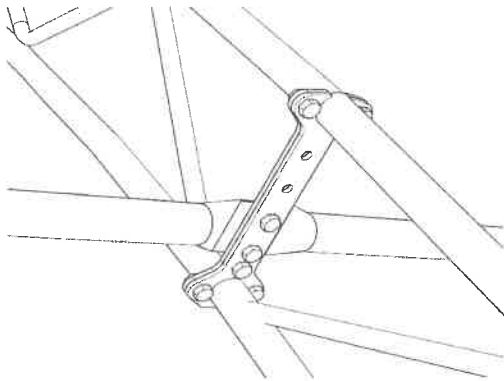
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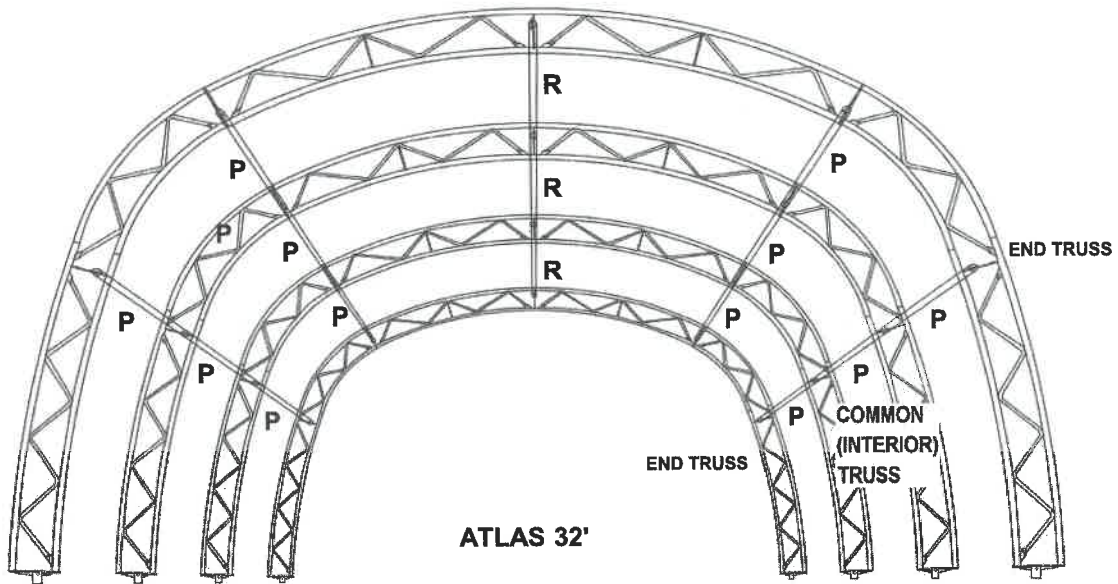
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P (DOGBONE CONNECTION)

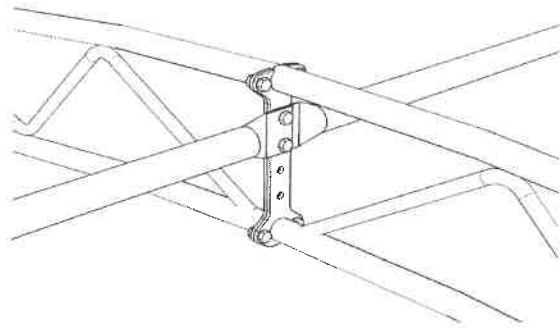


NOTE: The top of the Leg Purlin is bolted to the outside of the Leg and acts to push the Cover out and away from the corner formed by the connection between the Truss and the Leg.

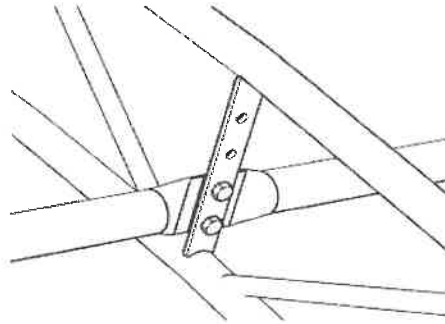


Purlin Placement Continued

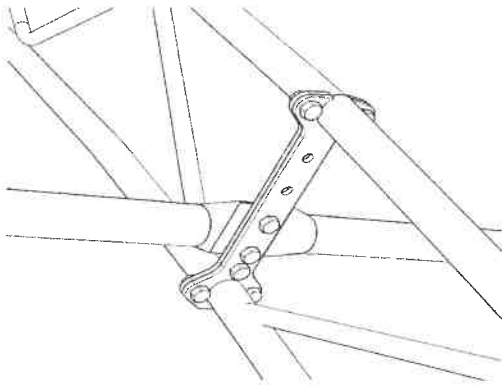
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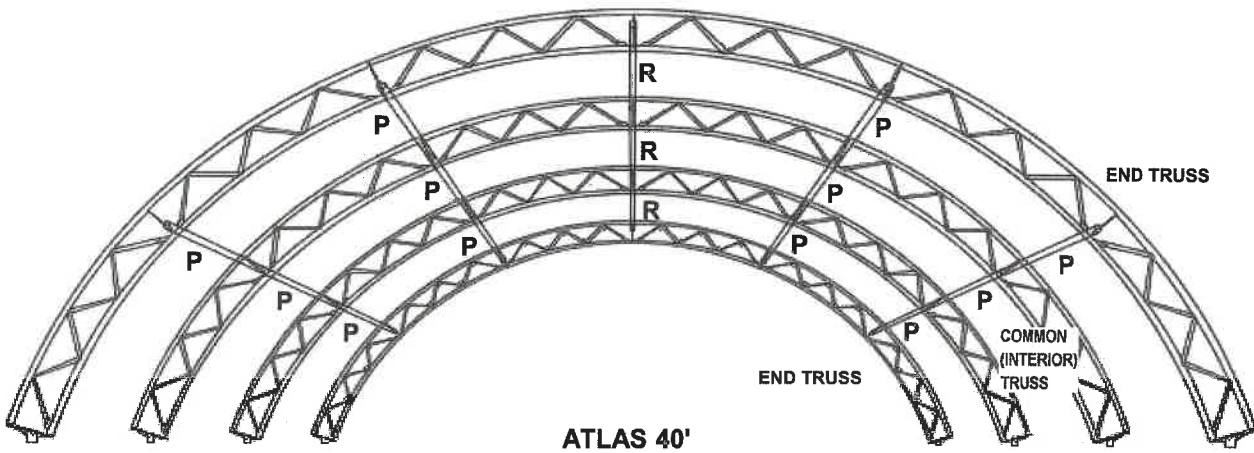
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P (DOGBONE CONNECTION)

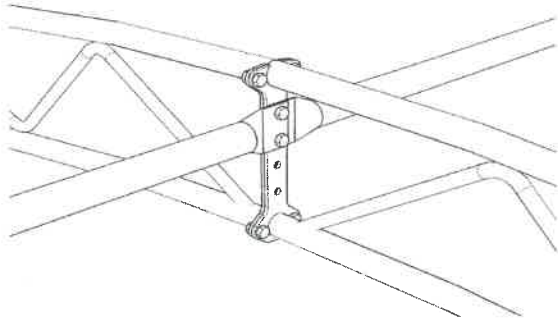


NOTE: The top of the Leg Purlin is bolted to the outside of the Leg and acts to push the Cover out and away from the corner formed by the connection between the Truss and the Leg.

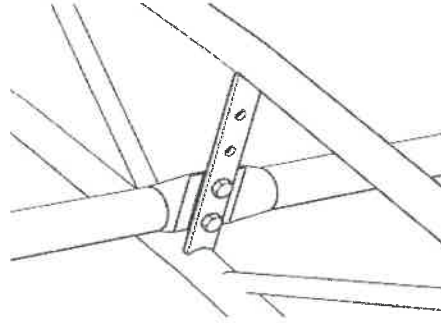


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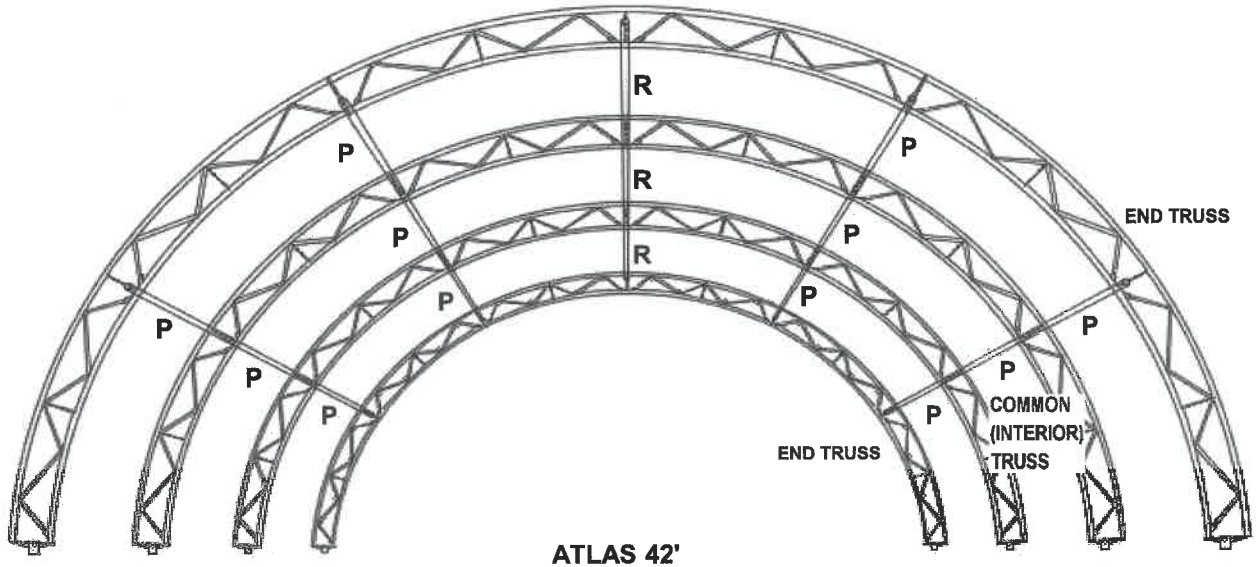
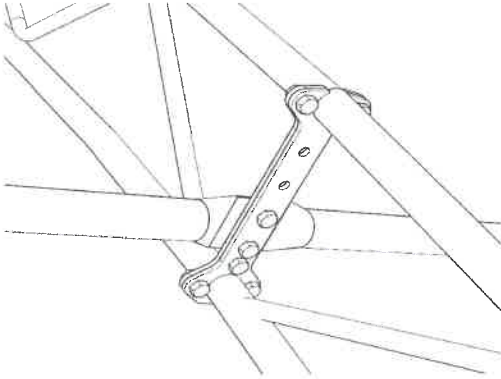
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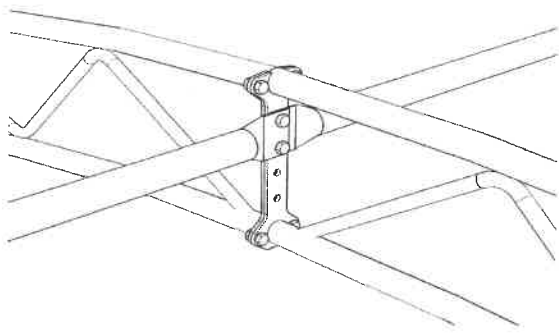


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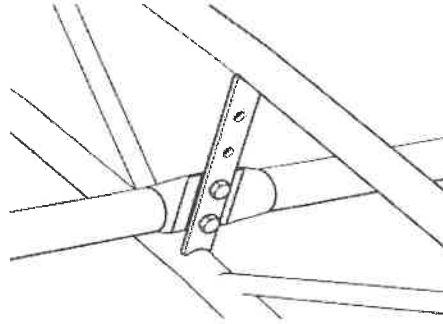


Purlin Placement Continued

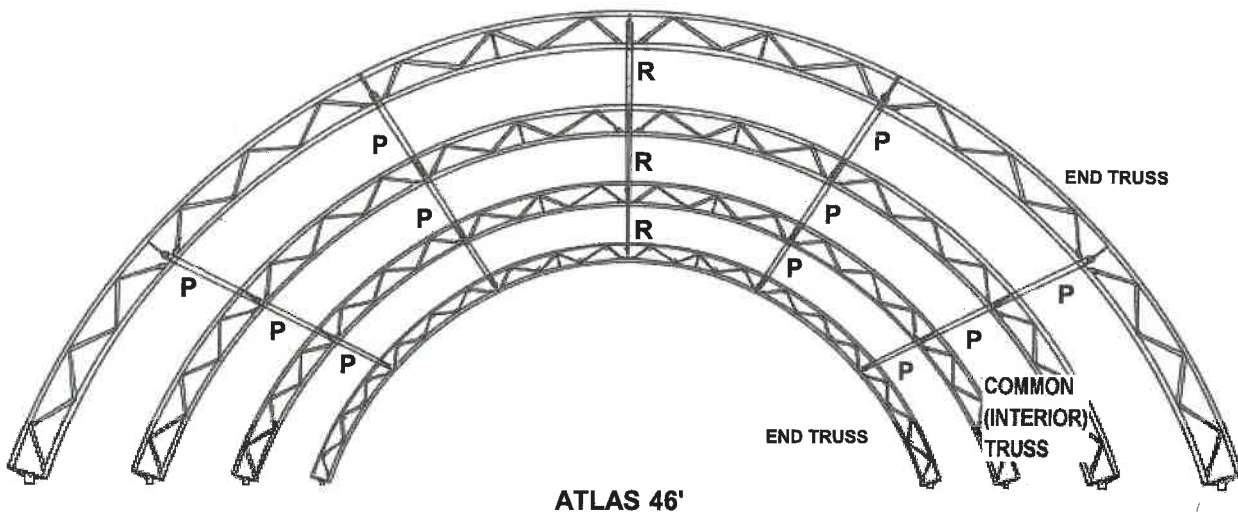
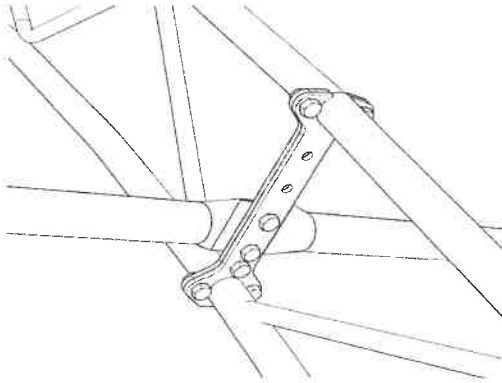
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P (KINGPIN)

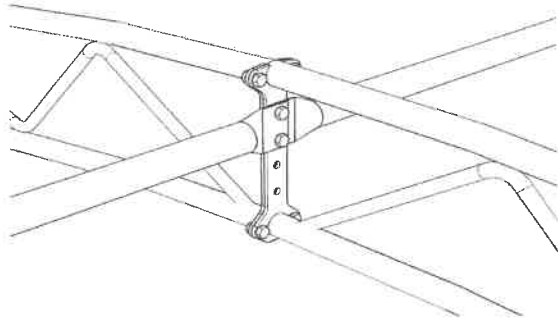


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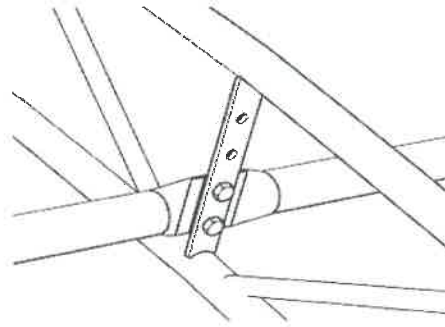


Purlin Placement Continued

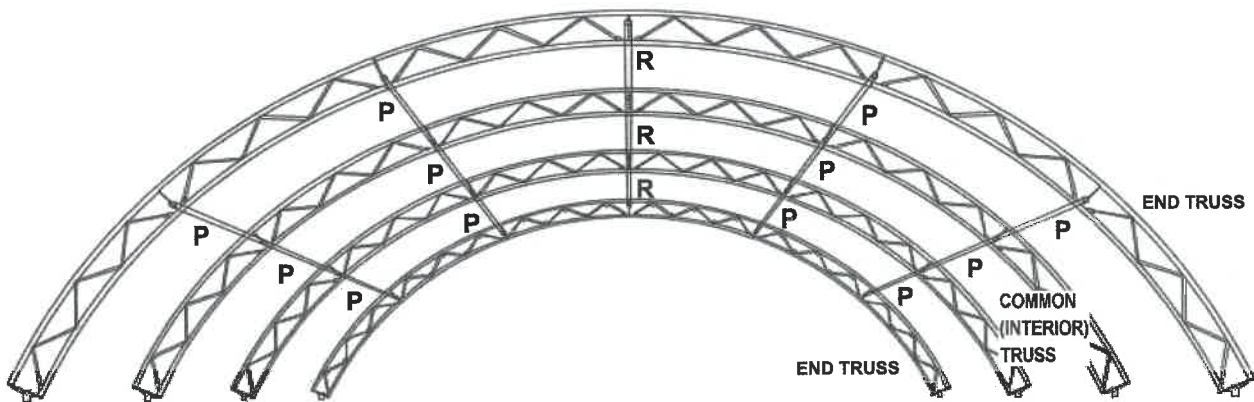
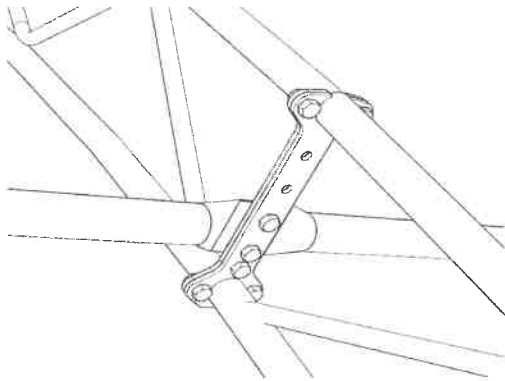
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P (KINGPIN)



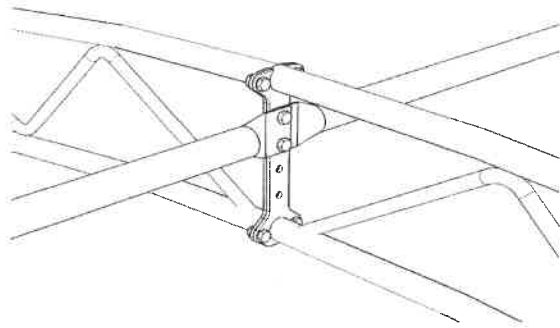
P (DOGBONE CONNECTION)



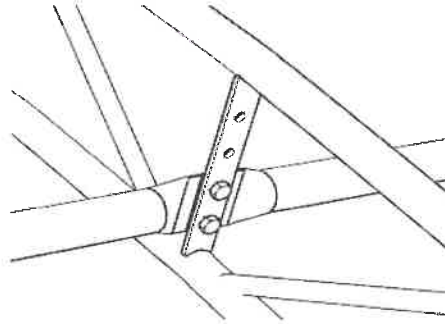
ATLAS 50'

Purlin Placement Continued

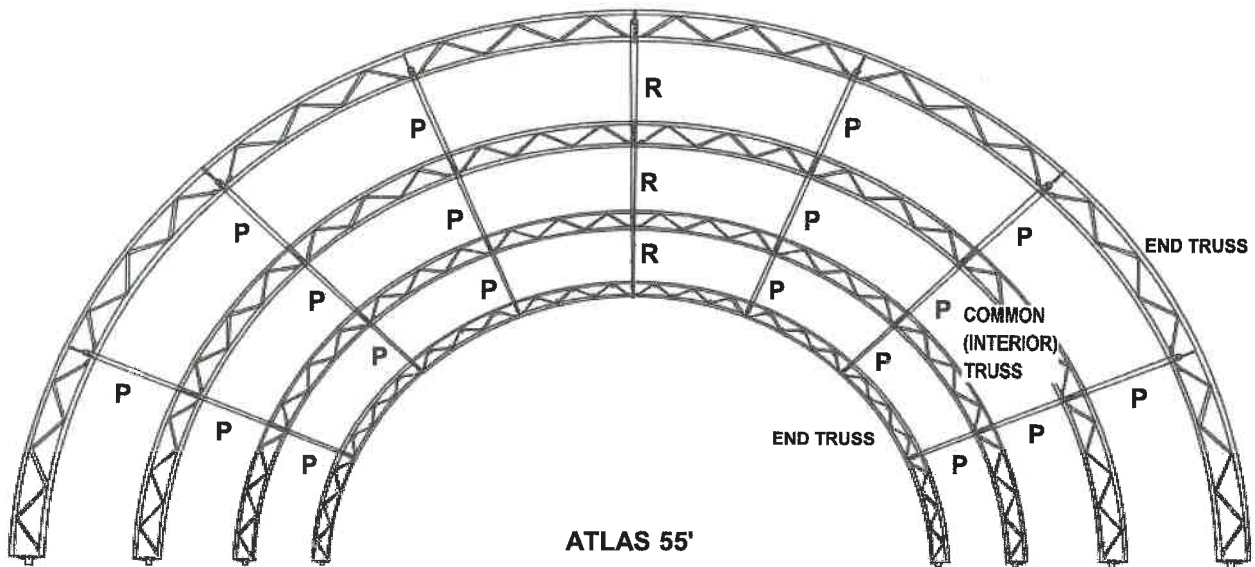
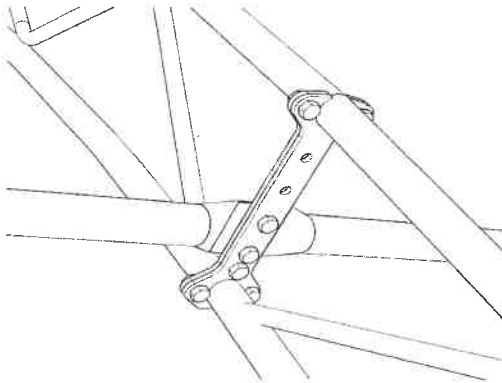
R (RIDGE)



P (KINGPIN)

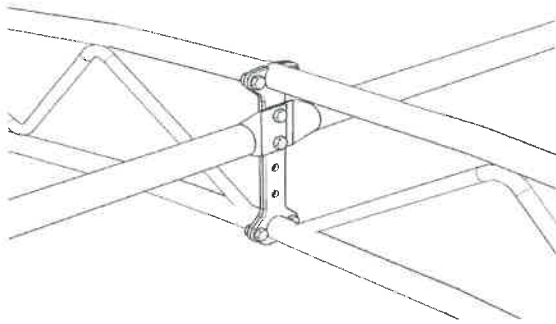


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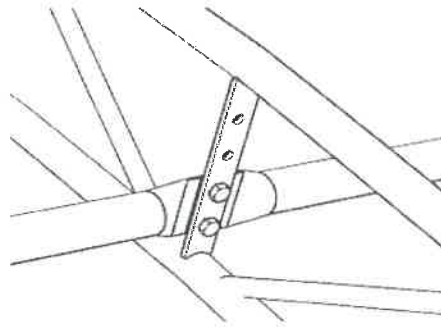


Purlin Placement Continued

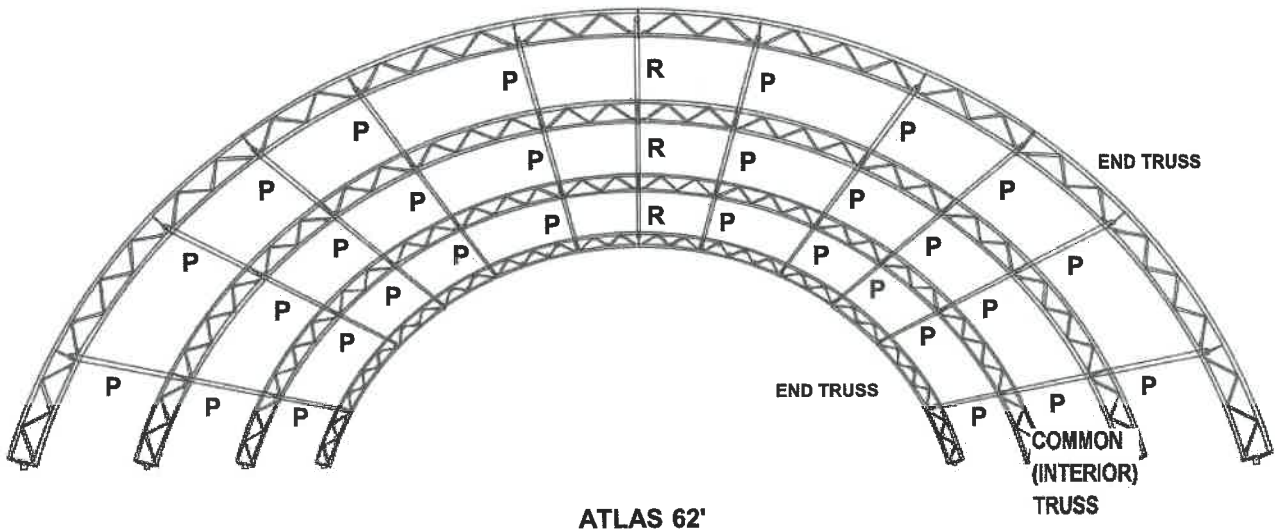
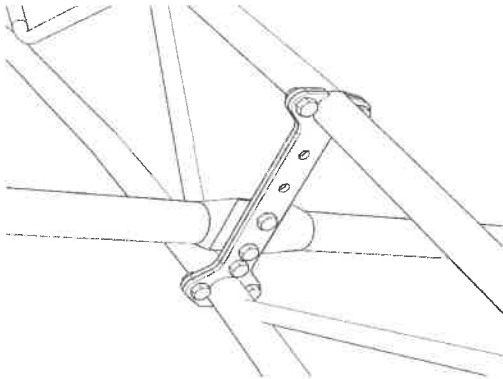
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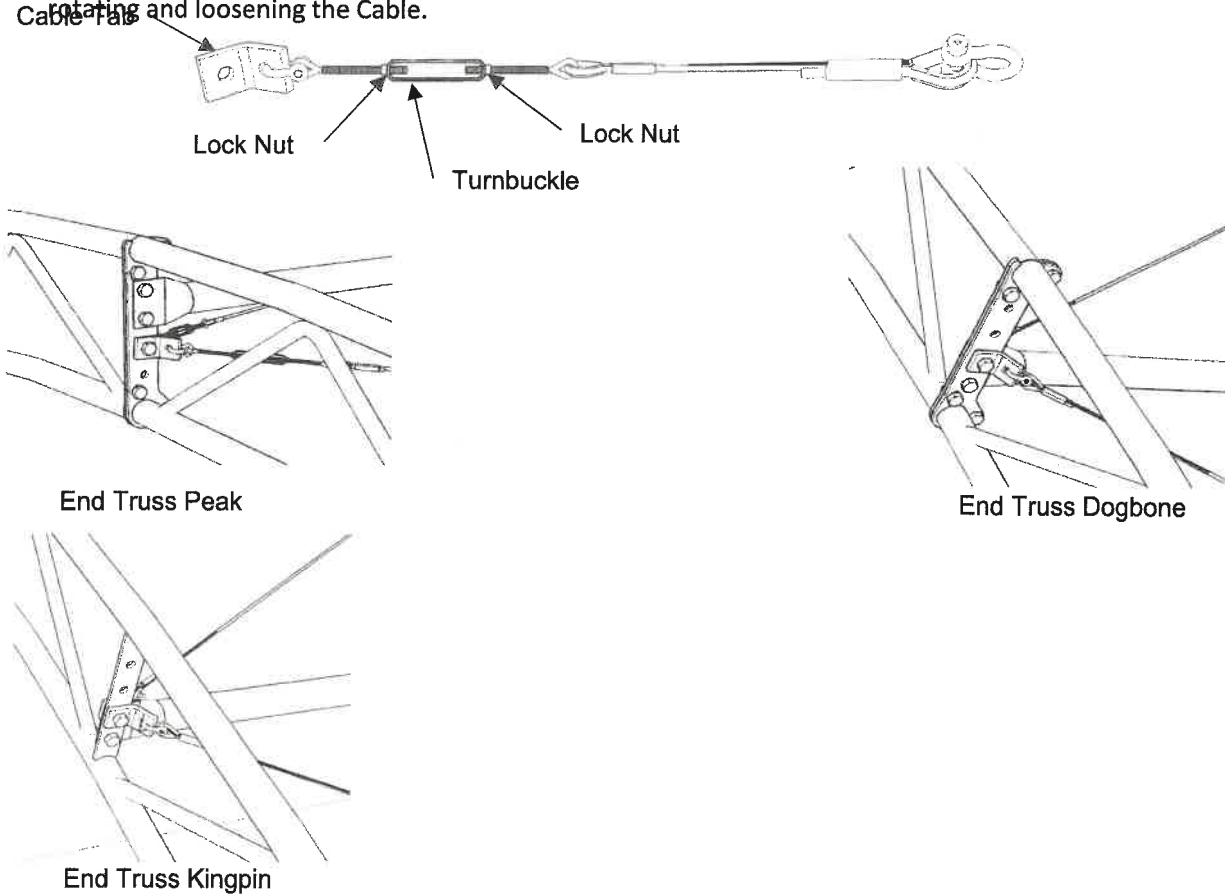


P (DOGBONE CONNECTION)



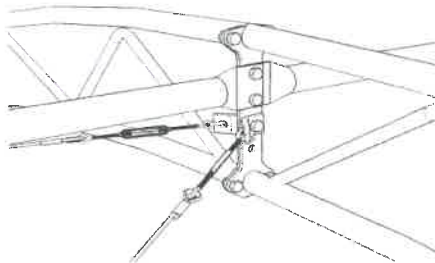
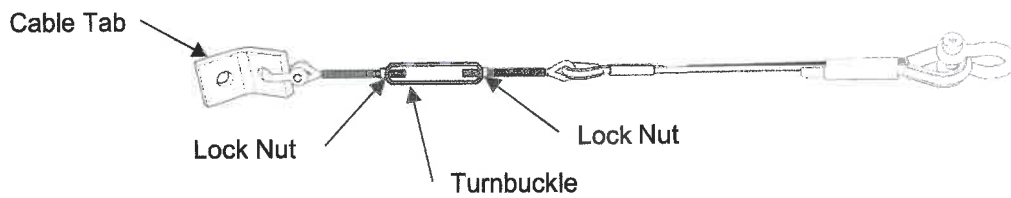
Cross Cables

1. Install all of the Cross Cables as per the "End Purlin & X-Cable Layout" from the building specific sealed structural drawings. Open the turnbuckle of the cable fully before bolting each end to the Dogbone or Kingpin location.
2. Tension the Cross Cables by tightening the turnbuckle until there is between 1 1/2" to 2" of deflection when 50 pounds of force is applied at the middle of the cable.
3. Measure each of the Cross Cable lengths to ensure that the cross cables are approximately of equal length to apply equal force to each side of the truss and ensure that the truss is plumb
4. Measure each of the Cross Cable lengths to ensure that the cross cables are approximately of equal length to apply equal force to each side of the truss and ensure that the truss is plumb.
5. Tighten both of the Turnbuckle lock nuts on the each Cross Cable to prevent the Turnbuckle from rotating and loosening the Cable.

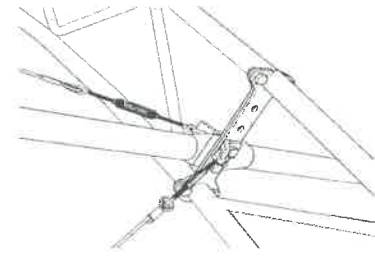


1. The Cross Cables attached to the second (interior) Truss in the same manner as on the End Truss.
6. Note the Cable is bolted to the second from bottom hole in all locations.
7. Refer to the chart below for bolt sizes at the various locations.

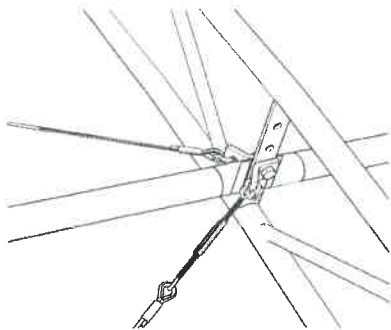
Bolt Size for Cross Cable Locations	
Location	Bolt Size
Coupler (Dogbone)	5/8" dia. x 3" long
Kingpin	5/8" dia. x 2 1/2" long
Top of Leg	5/8" dia. x 4 1/2" long
Leg Baseplate	5/8" dia. x 2" long



Interior Truss Peak



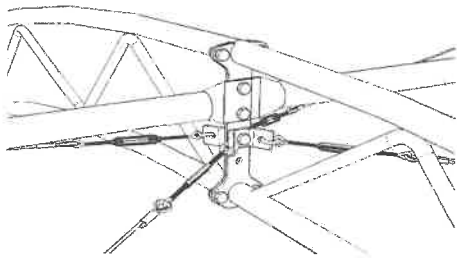
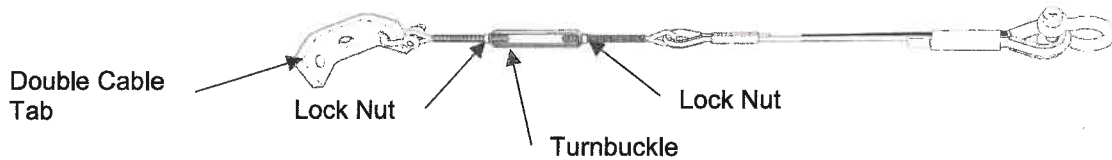
Interior Truss Dogbone



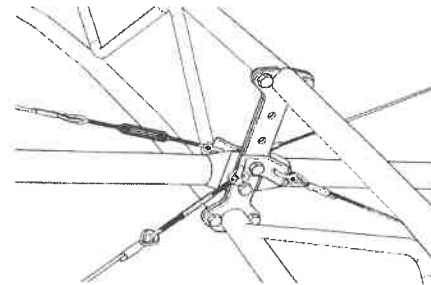
Interior Truss Kingpin

Cross Cables Continued

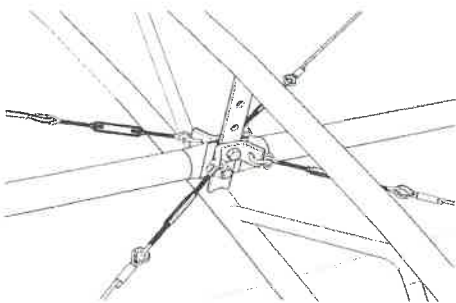
8. If the "End Purlin & X-Cable Layout" from the building specific sealed structural drawing specifies Double Cabled Bays (Cross Cables in two or more adjacent bays), the single Cable Tab attached to the end of the Cross Cable needs to be exchanged with the supplied Double Cable tab. See illustration below.
9. The single Cable Tab can be discarded or retained for spares.
10. The Bolt sizes remain the same as for the the Single Cable Tab arrangement. See the chart on the previous page.
11. As before, measure each of the Cross Cable lengths to ensure that the Cross Cables are approximately of equal length to apply equal force to each side of the Truss and ensure that the Truss is plumb.
12. Tighten both of the Turnbuckle lock nuts on the each Cross Cable to prevent the Turnbuckle from rotating and loosening the Cable.



Interior Truss Peak

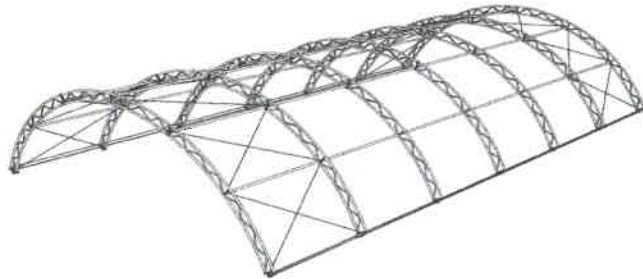


Interior Truss Dogbone

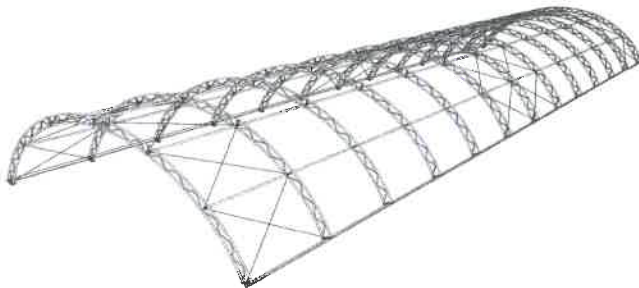


Interior Truss Kingpin

13. The Cross Cables are located in the bays as described in the Structural drawings on the "End Purlin & X-Cable Layout" page. The diagrams below illustrate some of the typical arrangements.



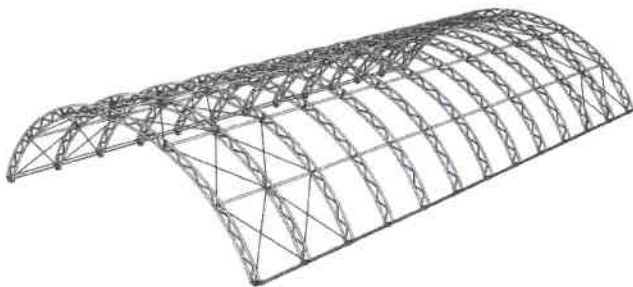
Typical Cabled End Bay Arrangement



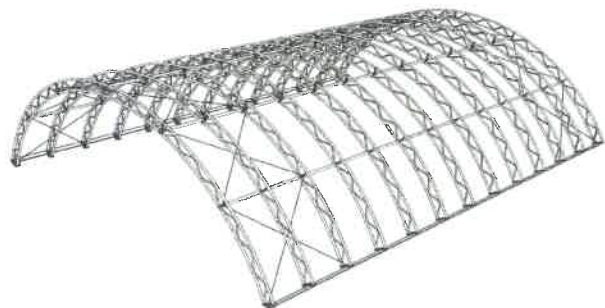
Long Building Cabled Bay Arrangement

14. Atlas 18 buildings longer than 144' have more than one Cover and there are two Cross Cabled bays at the Cover Joint in the middle of the building.

Important to note that the Cross Cables are of different length depending on the location in the building. Always refer to the Structural drawings.



Double Cabled End Bay Arrangement - 8' oc



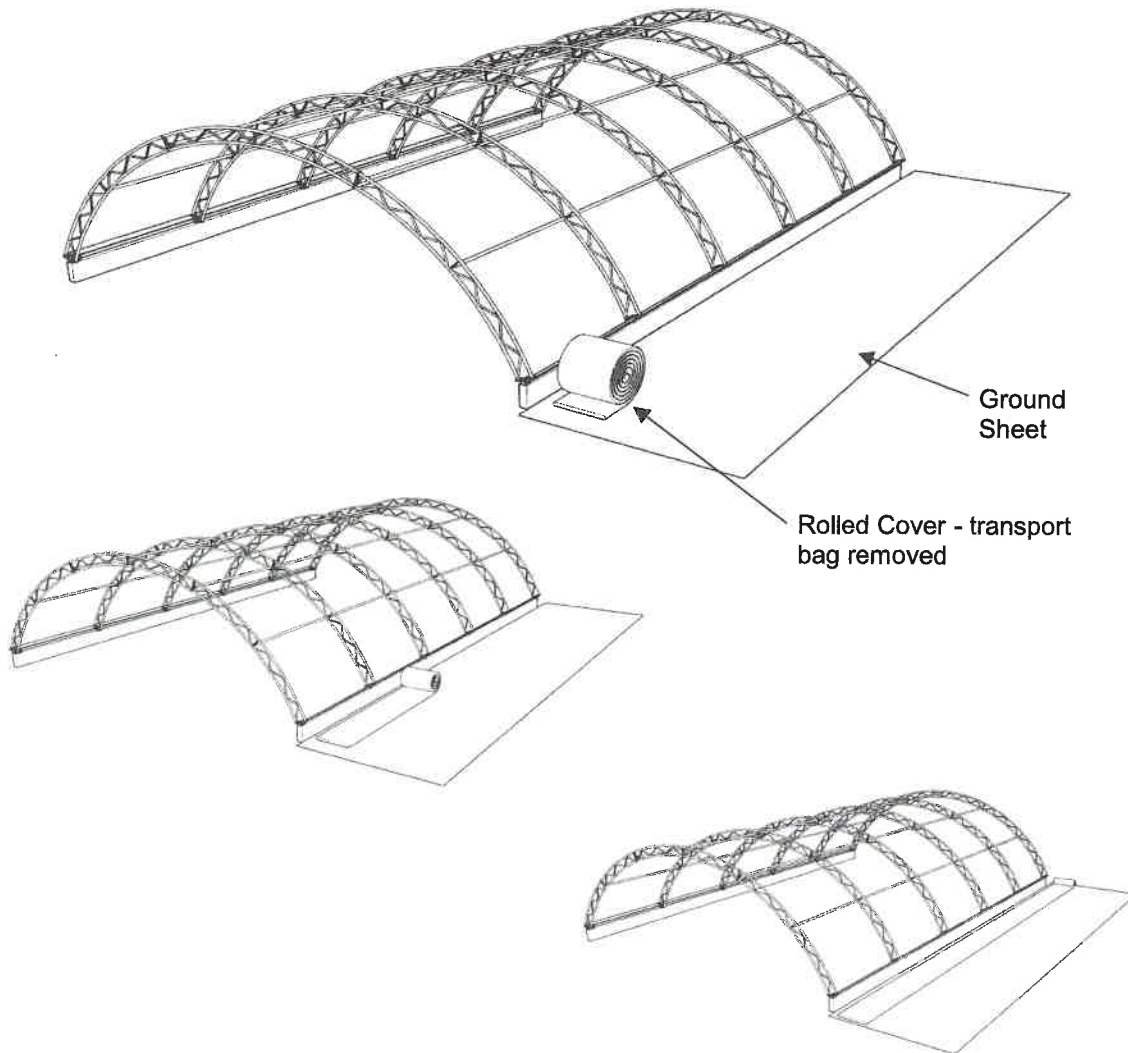
Double Cabled End Bay Arrangement 4', 5', 6' oc

15. A building with 8' oc Truss Spacing will be specified with two Cross cabled bays at each end of the building.

16. With 4', 5' and 6' oc Truss Spacing, the Cross Cables span two bays. Ensure the spanned cables do not contact Truss Webbing tubes.

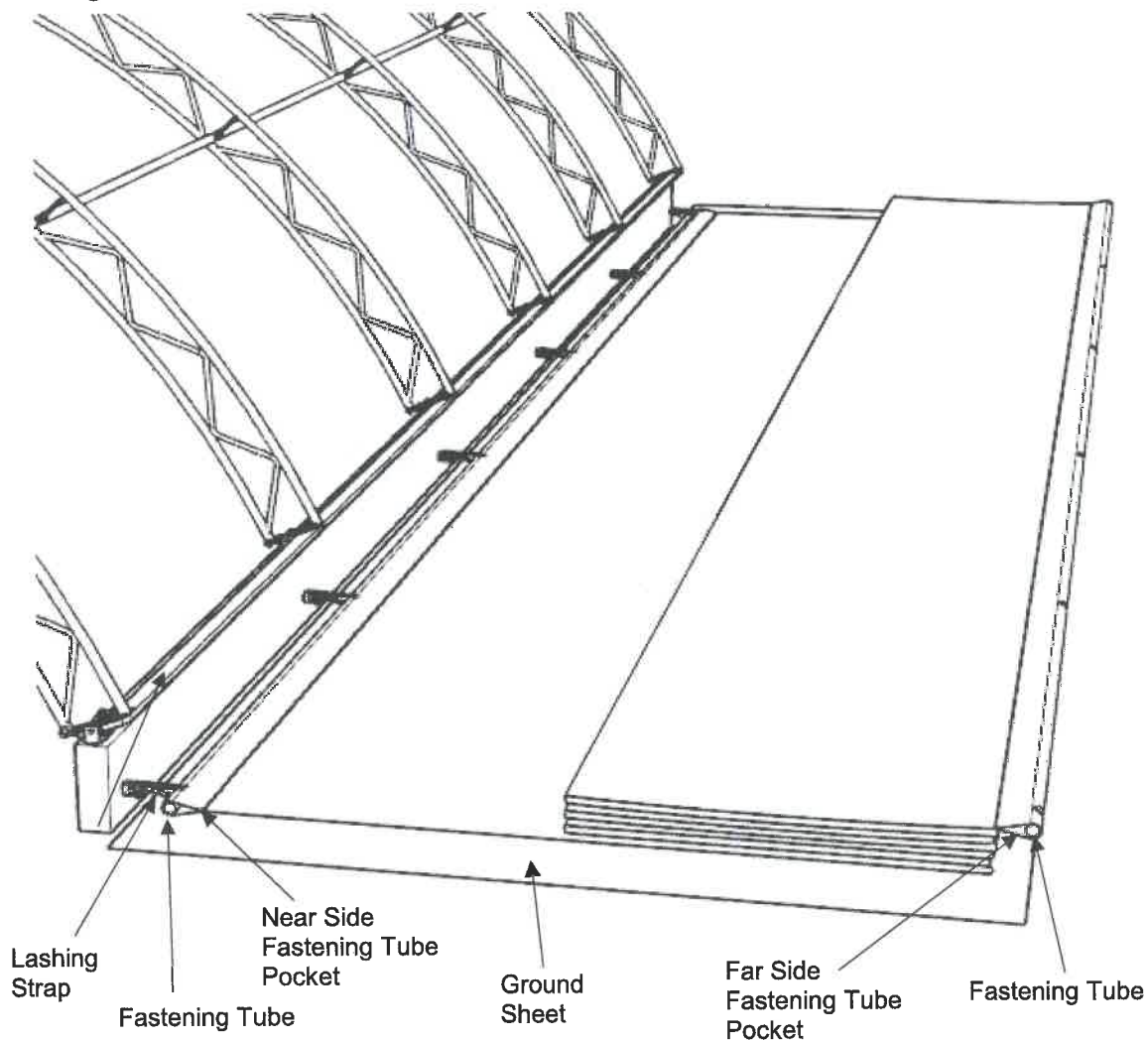
Installing the Cover

1. Lay down a ground sheet to keep the Cover clean.
2. Position the rolled Cover at one end of the building as shown in the diagram. Refer to the label on the Cover bag for un-rolling and positioning instructions.
3. The Cover is bundled and labelled with the intended installation order of End 1 to End 2 and pulling from Side B to Side A.
4. Carefully un-roll the Cover to the other end of the building.



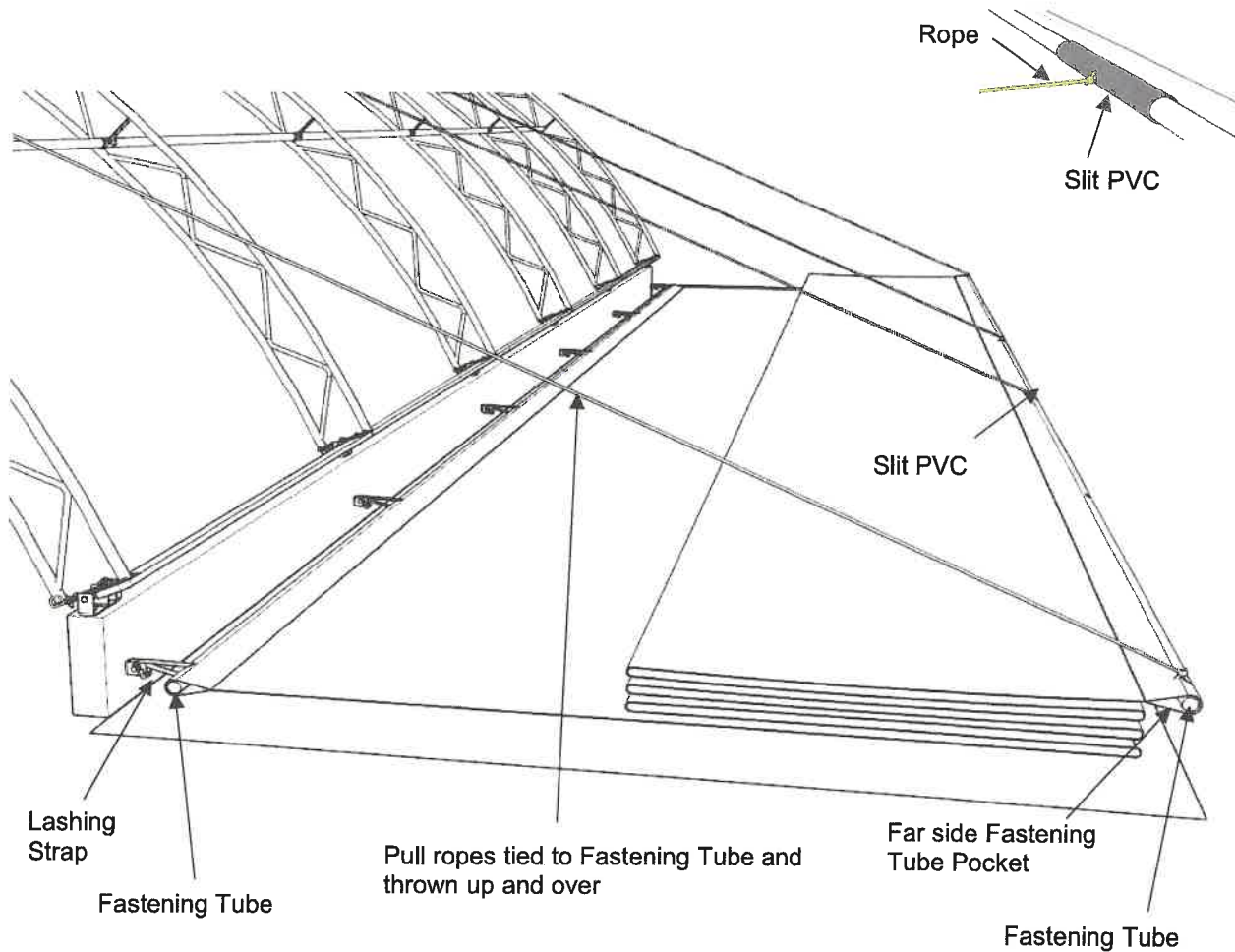
Installing the Cover Continued

5. Pull out the Cover to expose the near side Fastening Tube Pockets and Apron.
6. Insert the Fastening Tubes into the Fastening Tube Pockets on the side of the Cover nearest the building. Note that the type of Cover that can be supplied varies. Please refer to the Cover Termination pages of this Manual for details of 220 Single Pocket and 320 Two Pocket Termination.
7. Care must be taken when inserting the Fastening Tube to ensure the Cover Pockets are not damaged by any sharp edges of the Fastening Tube. It is common practice when installing to temporarily attach a wooden or plastic "bullet" into or over the end of the Fastening Tube.
8. Loop the Lashing Straps around the Fastening Tubes and start the Straps into their respective Lashing Winches.



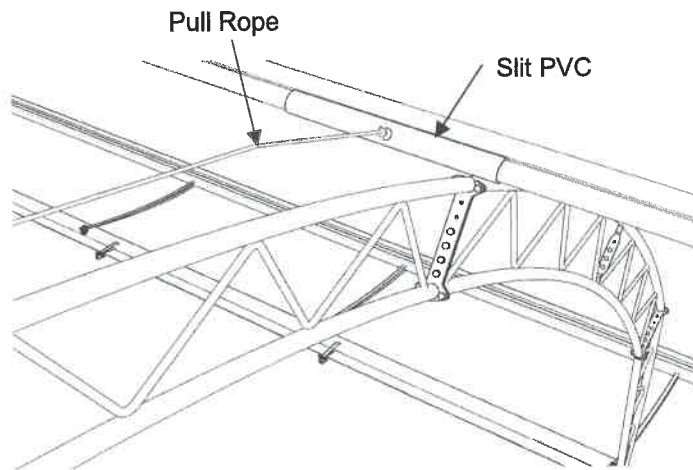
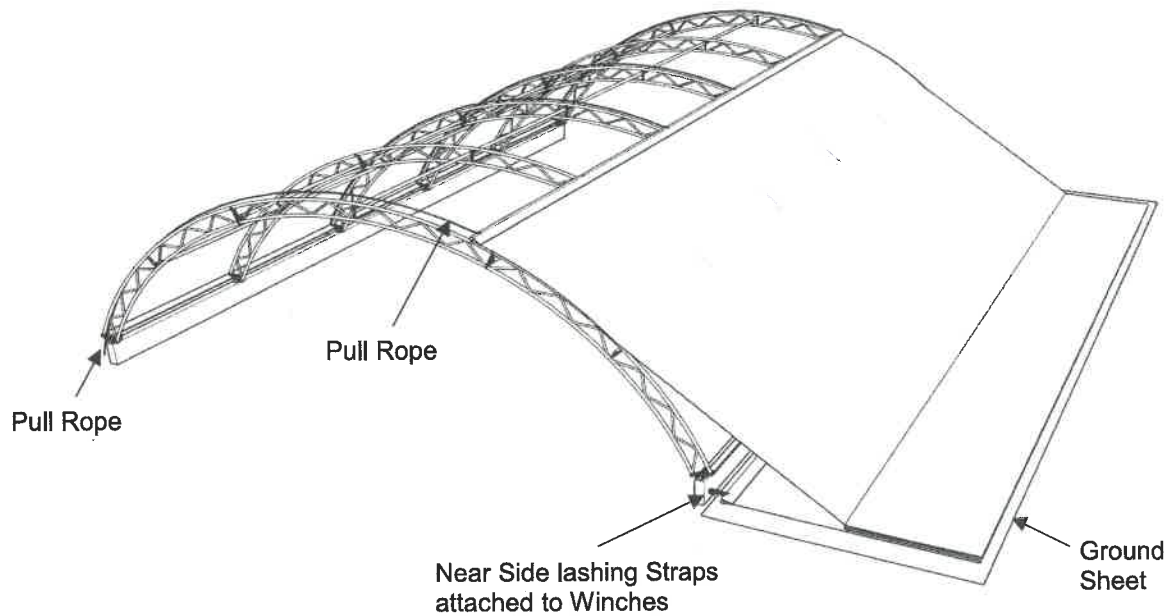
Installing the Cover Continued

9. Tie 1/2" nylon rope or similar to the Fastening Tube installed in the far side of the Cover Upper Pocket. One rope is required every 20 to 30' depending on the Cover size and wind conditions.
10. Throw the ropes up and over the building framework to the far side. Ensure the ropes are over the top of any of the Truss frames or Purlins to ensure a smooth, problem free Cover pull.
11. As a last check, double check to ensure all the Truss Couplers have the Coupler Protectors installed and that any sharp metal edges have been properly covered or protected. Any sharp edge can cut, tear or abrade the Cover when it is being installed.
12. At the installers discretion, a PVC or ABS pipe that has been slit open and a rope clearance hole drilled can be installed over the Fastening Tube near the ropes to provide additional abrasion protection to the Cover during the pull.



Installing the Cover Continued

13. Pull the Pull Ropes from the far side of the building to pull the Cover up and over the building. Pull all ropes evenly and smoothly and stop if a rope or the Cover snags.
14. It is best to pull the Cover onto the building in very light wind conditions. Preferably with the wind coming from the side of the building you are pulling from. The wind will lift the Cover slightly off the framework, thus reducing friction.

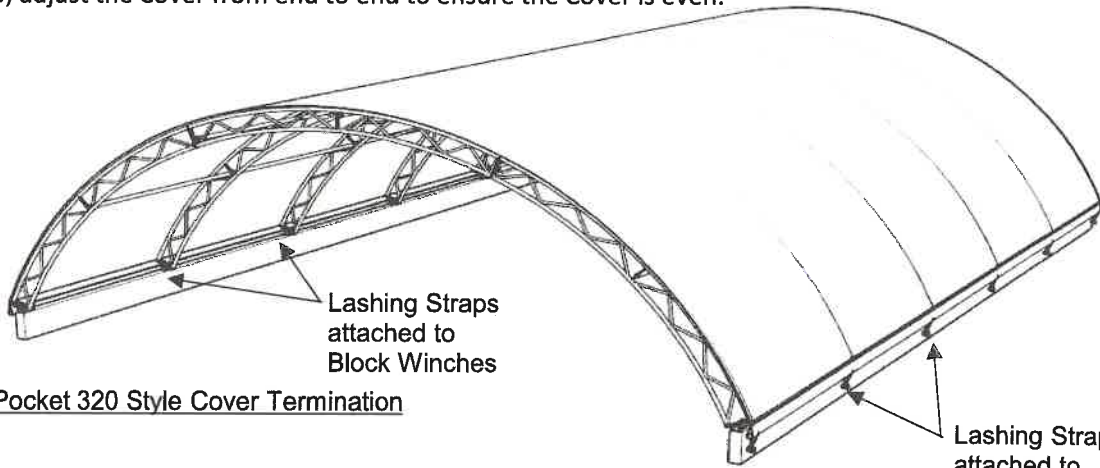


View From Above

CAUTION: Keep a watchful eye on the Cover at all points of the pulling process. In addition, do not leave the building un-attended at this stage of the process. The Cover must be tensioned and secured before the building is left un-attended.

Installing the Cover Continued

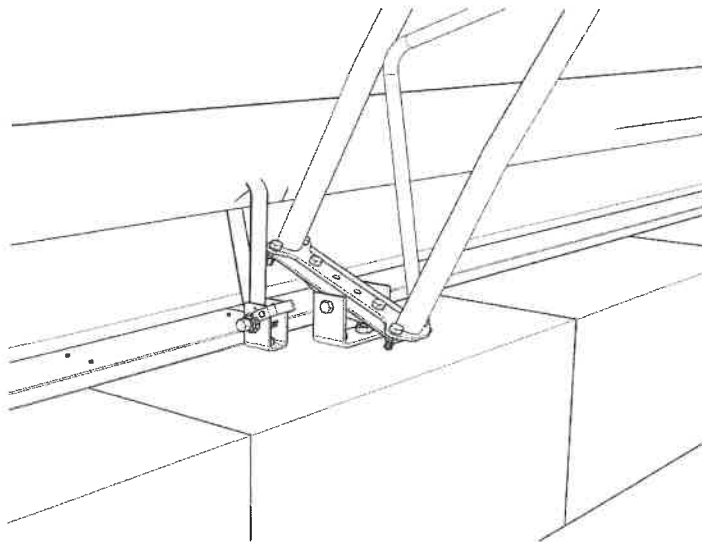
15. Insert the Fastening Tubes into the Fastening Tube Pocket on the second side of the building. Install the Lashing Straps onto the Fastening Tubes. Insert the Lashing Straps into the Block Winches and turn the nut for one wrap. Do not tighten the Winches at this time.
16. Adjust the Cover so it is even and square to the building. Check the centre mark on the Cover at the peak of the building to ensure it lines up with the framework peak - on both ends of the building. Also, adjust the Cover from end to end to ensure the Cover is even.



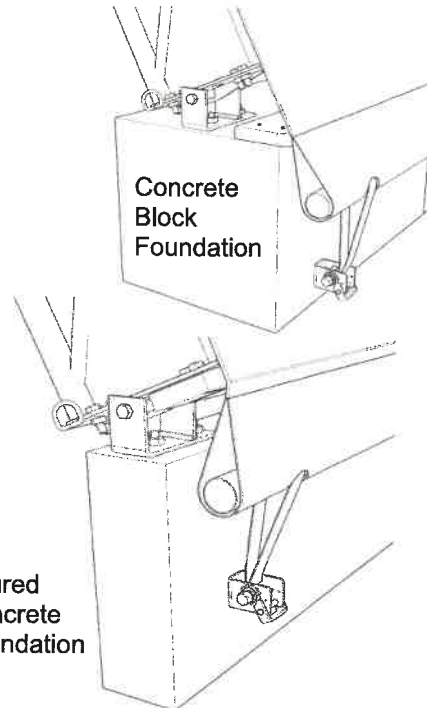
Two Pocket 320 Style Cover Termination

Single Pocket 220 Style Cover Termination

Note: The Cover End Flaps are not shown in this view for clarity



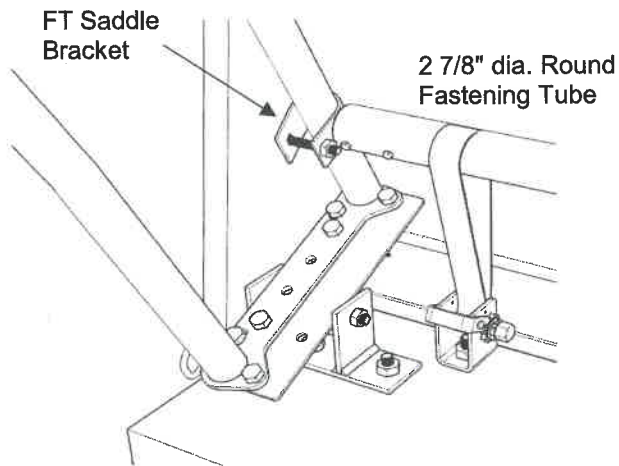
Two Pocket 320 Style Cover Termination - Detail View



Single Pocket 220 Style Cover Termination - Detail View

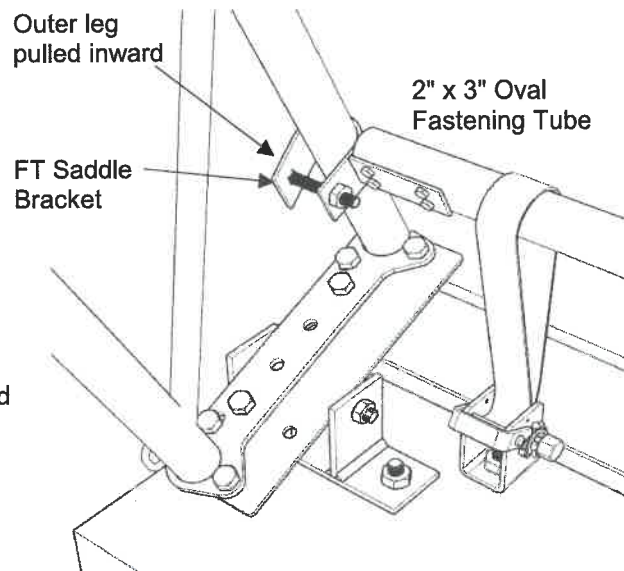
Installing the Cover Continued

17. In a 320 Single Two Pocket Cover Termination, the Fastening Tube and Pocket is located on the outside of the Outer Chord of the Truss just above the Swivel Plate.
18. At the ends of the building however, the Fastening Tube must be pulled in even with the End Truss Outer Chord to prevent the tube from pressing against the inside of the Cover causing wear.
19. The Fastening Tube size is generally determined by the size of the building and the Truss spacing. Larger buildings and Spacing will use the 2" x 3" oval Fastening Tube and the smaller use 2 7/8" dia. round Fastening Tube. Check the Structural drawings and Packing List to determine the type.
20. The round Fastening Tube requires the installation of an FT Saddle Bracket with a round tube spigot. The spigot is inserted into the end of the Fastening Tube and the Fastening Tube is pressed inward so the Saddle straddles the Outer Chord of the End Truss. A 5/8" dia. x 4" long Carriage bolt is installed into the square hole in the Saddle Bracket from the outside end of the building. A nut is installed from the inside of the building and is tightened just enough to hold. Two TEK 5 screws are used to affix the Fastening Tube to the FT Saddle Bracket.



Note: the nut and bolt on the FT Saddle Bracket will be tightened further when the Cover has been fully tensioned.

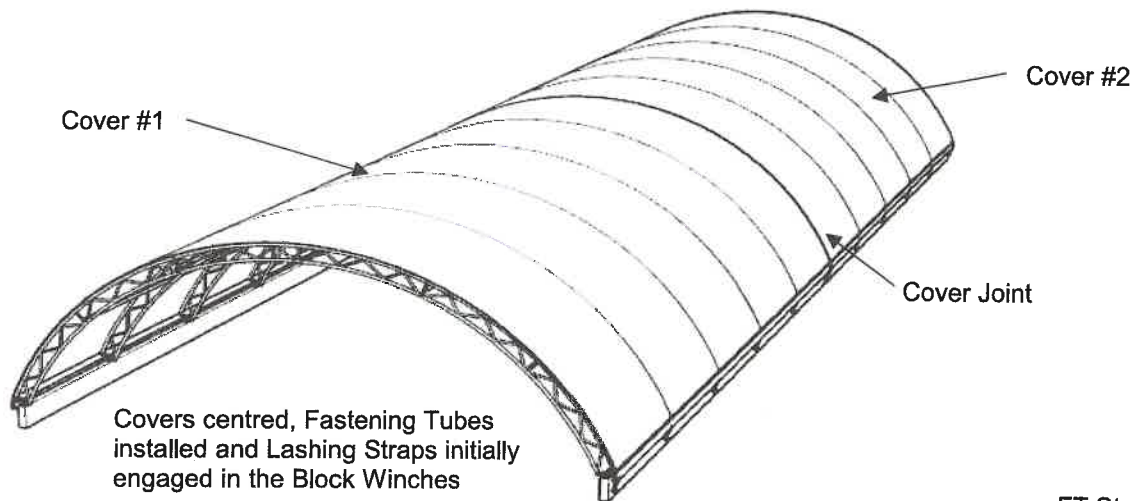
21. The oval Fastening Tube requires the installation of an FT Saddle Bracket with a flat Tab. The Bracket is set onto the Outer Chord of the End Truss and the bolt and nut installed. The Fastening Tube is pressed inward until it contacts the Tab. Four TEK 5 screws are installed thru the pre-drilled holes in the Tab to secure the Bracket in position.



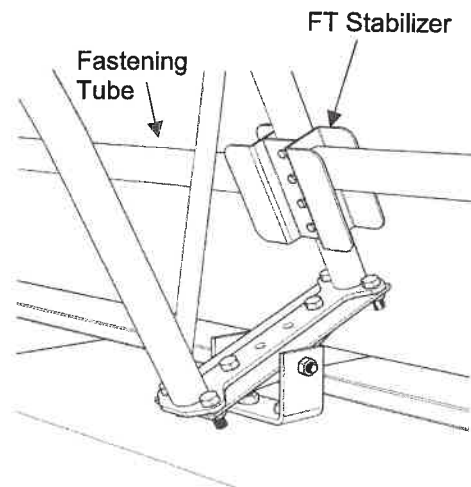
Note: the outer leg of the FT Saddle Bracket will pull inward when the bolt is tightened as show in the diagrams. Encourage this if need be.

Multiple Cover Joint

1. On buildings that are longer than 144', two or more Covers are supplied with a joint between the two Covers.
2. As described in the Cross Cable section of this Manual, the joint between the two Covers will be Cross Cabled in each of the bays adjacent to the Cover joint. Refer to the Structural drawings for placement of the Cross Cables.
3. The Cover Joint can be specified as either an Extrusion Joint or a Flap over Flap Joint.
4. With a Two Pocket 320 Cover Termination, the Fastening Tubes at the building joint need to be pressed inward so the ends of the Fastening Tube is in line with the Outer Chord of the Truss. This will apply to both the Fastening Tubes coming together at the same point on both sides of the building. The ends of the Fastening Tubes are restrained by locating the ends of the tube in the FT Stabilizer Bracket.
5. When the Cover and the Fastening Tubes are installed, and each of the Covers are centred on the framing, position the FT Stabilizer on the inside of the Truss Outer Chord as shown in the diagram below. Ensure the Stabilizer is even on each side of the Truss and that the Stabilizer does not contact the inside of the Cover.



6. Position the Stabilizer so the Fastening Tubes engage the fins of the Stabilizer roughly 2/3 up the length so that when the Covers are fully tensioned and the Fastening Tubes move down, the Fastening Tubes will still be fully engaged in the Stabilizer. TEK screw the Stabilizer in place as shown.

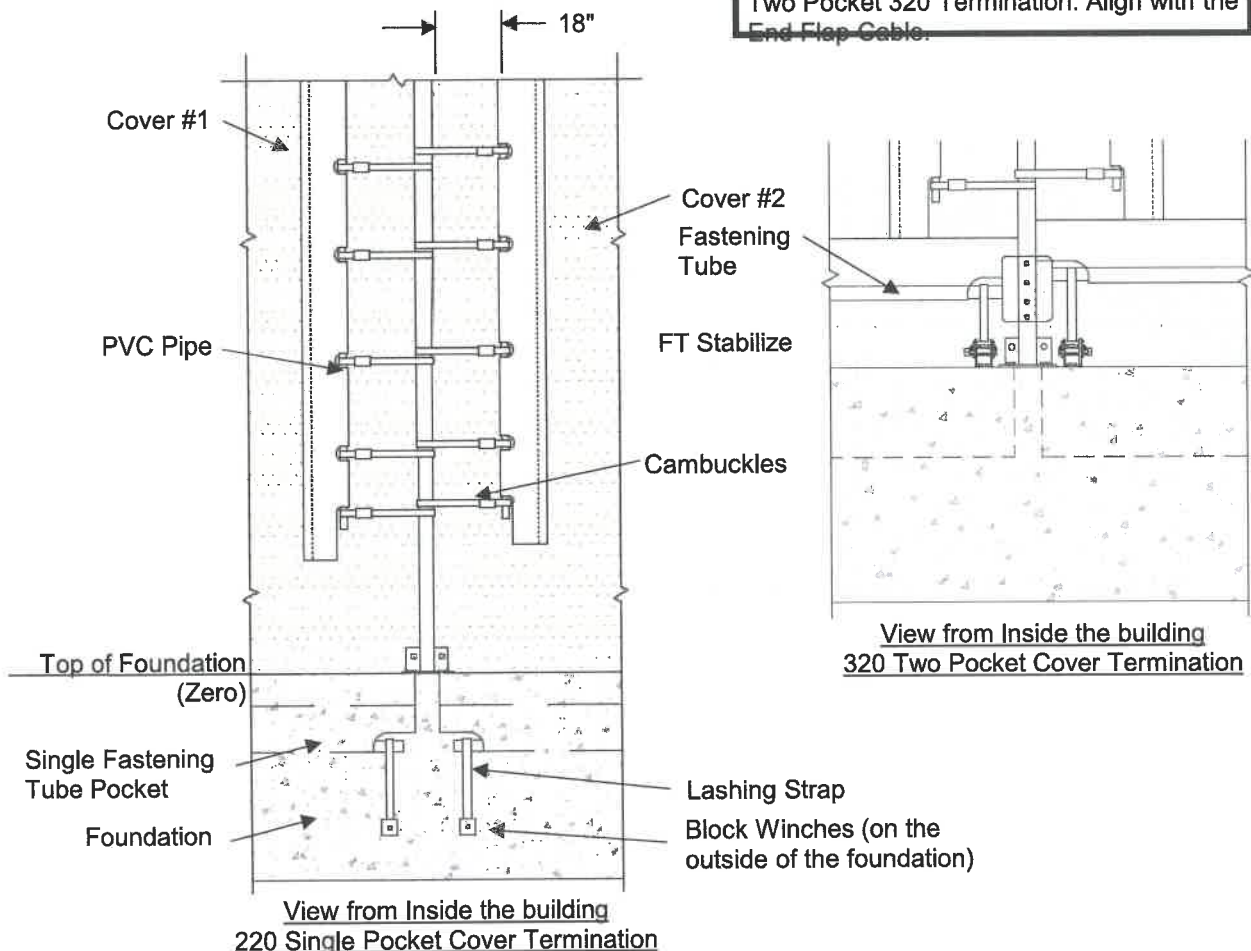


Multiple Cover Joint Continued

Multiple Cover Flap Over Flap Joint

7. The Flap Over Flap Cover Joint used on multiple Cover buildings is basically the same construction as the End Flap on the Cover at the end of the building.
8. The Cover Joint is assembled by inserting the 1" PVC Pipe into the PVC Pocket adjacent to the Common Truss at the Cover Joint and attaching the 1" Belting (or 1" Cambuckles if ordered). Refer to the End Flap installation pages of this Manual.
9. Important: Cambuckle the the PVC on each Cover to the Truss Outer Chord. Do not Cambuckle the PVC pipes on the two Covers to each other. Pull the Covers evenly to the 8" - 10" dimension shown below.
10. When the Covers are fully adjusted and tensioned, throw the first Cover End Flap over the joint and tension the End Flap Cable with the Block Winches mounted to the foundation. Throw the second Cover End Flap over the first End Flap and tension the End Flap Cable in the same manner.

End Flap Cable Winches are mounted on the foundation - outside for Single Pocket 220 and on the top of the foundation for Two Pocket 320 Termination. Align with the End Flap Cable.



Multiple Cover Joint Continued

Multiple Cover Extrusion Joint

Pull Rope - rope supplied by the installer to guide the Lead Rope into the Extrusion rope channels.
Lead Rope - rope attached to the Keder edge of the Cover for installation.

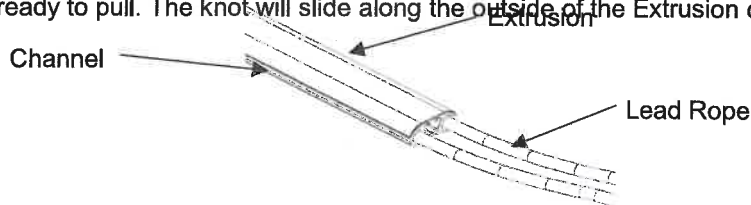
There are two recommended methods for pulling the Cover Lead Rope into the extrusion channel.

The Rapid Install Method is preferred when the truss frames are completely assembled on grade and then raised into place.

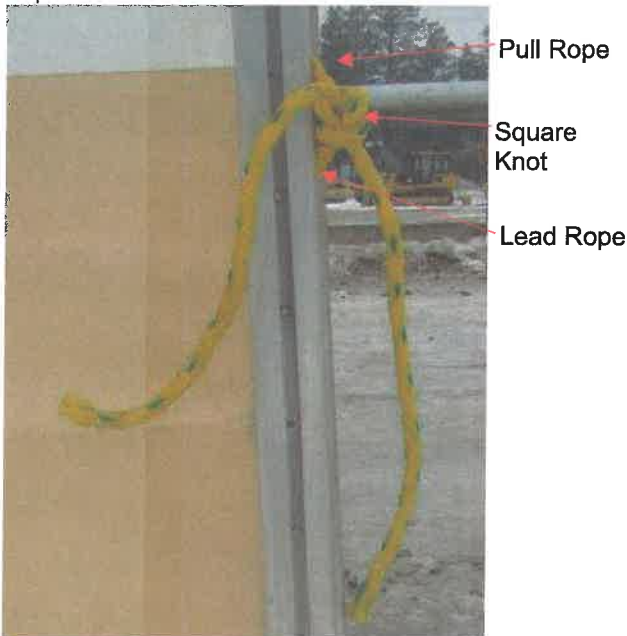
The Moore Method proves useful when truss frames are partially assembled on grade and joined once raised into place.

Rapid Install Method:

1. Before raising the Trusses, install a Pull Rope in both Extrusion channels that is 15' or greater in length than the length of the Extrusion from base to base.
2. Tie the Pull Rope to the Lead Rope with the knot out to the side of the channel. The rope can be pulled out of the channel by flattening out a section of the rope to slip it out of the gap in the side of the Extrusion channel.
3. The Lead Rope is ready to pull. The knot will slide along the outside of the Extrusion channel.



Left Below: Pull Rope tied to Lead Rope using a square knot



Right Below: Flattening the rope to pull ends out to the side of the Extrusion channel

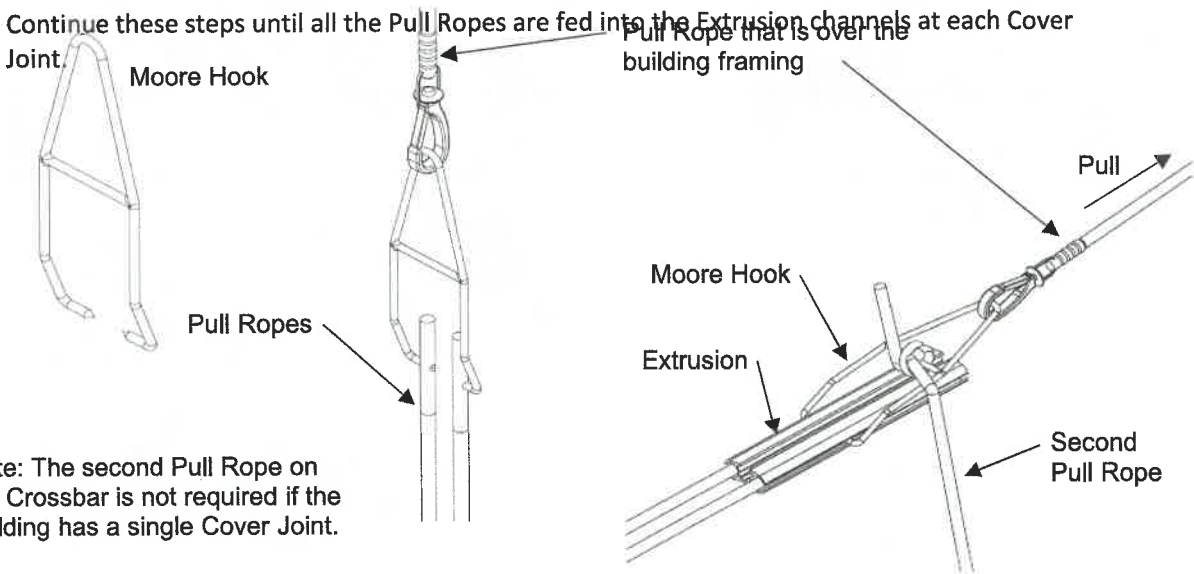


Multiple Cover Joint Continued

Moore Method:

4. Gather the Moore Hook and two lengths of Pull Rope that are 15' or greater in length than the length of the Extrusion from base to base.
5. Throw the first length of Pull Rope up and over the building at the first Extrusion.
6. On the far side of the building from the Cover, tie or clip the Moore Hook to the Pull Rope that is over the building framework. Push the points of the the Moore Hook into the Pull Ropes that are to be pulled into the Extrusion channels. Insert the two Pull Ropes into the Extrusion channels.
7. If there are more than two Covers and therefore two or more Trusses with Extrusion, tie a second Pull Rope to the Moore Hook Crossbar to assist in pulling the Moore Hook back over the building to pull the Pull Ropes into the second Extrusion.
8. Using the Pull Rope that is over the building, pull the Moore Hook with the two Pull Ropes that are in the Extrusion channels over the building to the side where the Cover is located and ready to install.
9. Using the second Pull Rope that is tied to the Moore Hook Crossbar, pull the Moore Hook back over the building and along the length of the building to the next Extrusion if there is one installed. Repeat the process of pulling the Pull Ropes into the next Extrusion and over the building to where the Covers are ready to install.
10. The Pull Ropes that are in the Extrusion can be tied to the Cover Lead Ropes with a square knot in the same manner as previously explained in the Rapid Install Method.

11. Continue these steps until all the Pull Ropes are fed into the Extrusion channels at each Cover Joint.



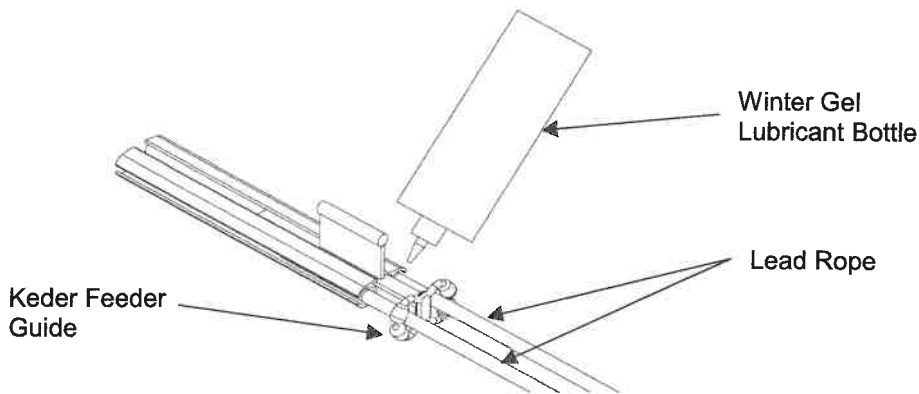
Note: The second Pull Rope on the Crossbar is not required if the building has a single Cover Joint.

Multiple Cover Extrusion Joint

12. Whichever method was used to install the Pull Ropes into the Extrusion channel, tie the Pull Rope in the Extrusion to the Lead Rope on the Cover.
13. Remove the TEK screws from the lower four feet of Extrusion on the install side of the building to help ease the Cover Keder into the Extrusion channel.
14. Insert the Keder Feeder Guide into the Extrusion in the base of the Extrusion on the install side of the building.

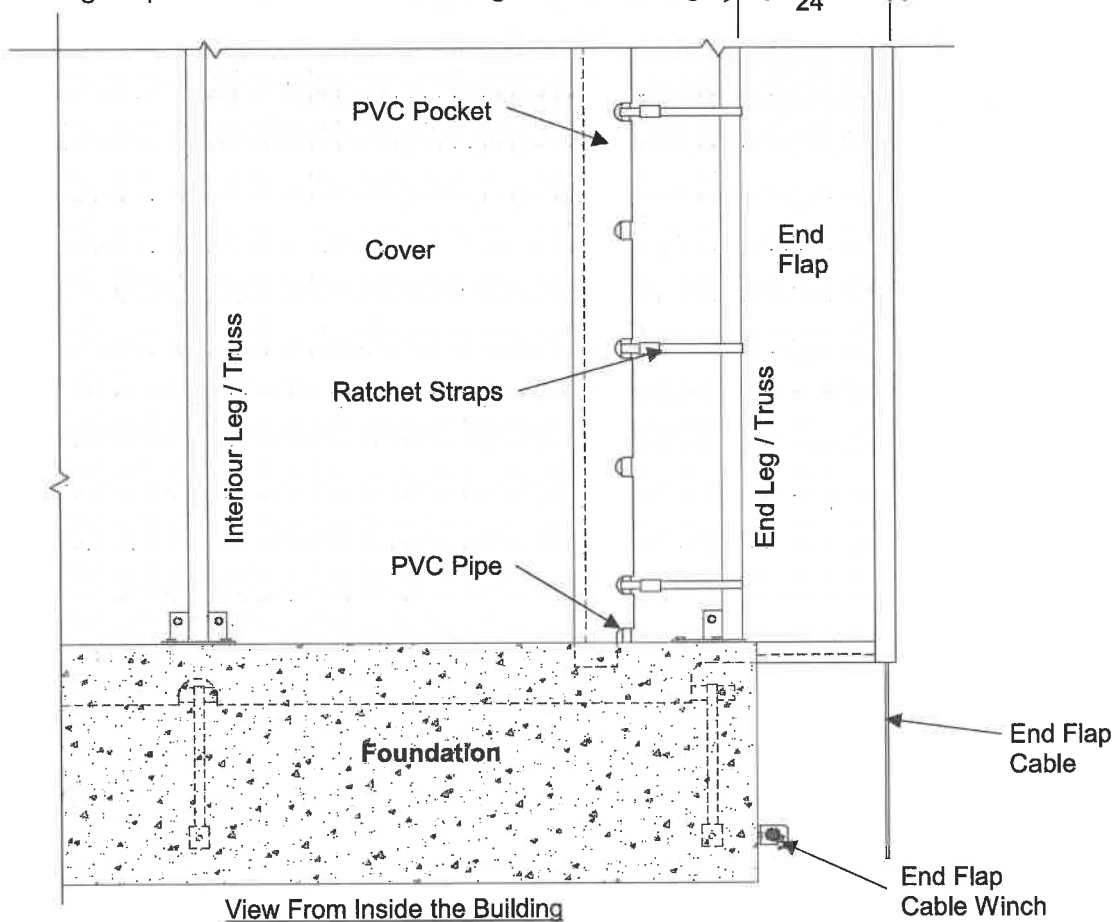


15. Insert the Lead or Pull Rope through a block and tackle mounted to the foundation on the far side of the building to ensure a straight pull through the Extrusion.
16. Apply Winter Gel Lubricant (supplied) or a similar waterbased lubricant to the channel in the Extrusion and the kedered material on the Cover before pulling the Cover.
17. Pull the Cover up and over the building using the Pull Ropes as described in the Single Cover section of this Manual while also simultaneously pulling the Pull Rope in the Extrusion so the Cover Keder Rope pulls evenly with the rest of the Cover.



Cover End Flap Installation

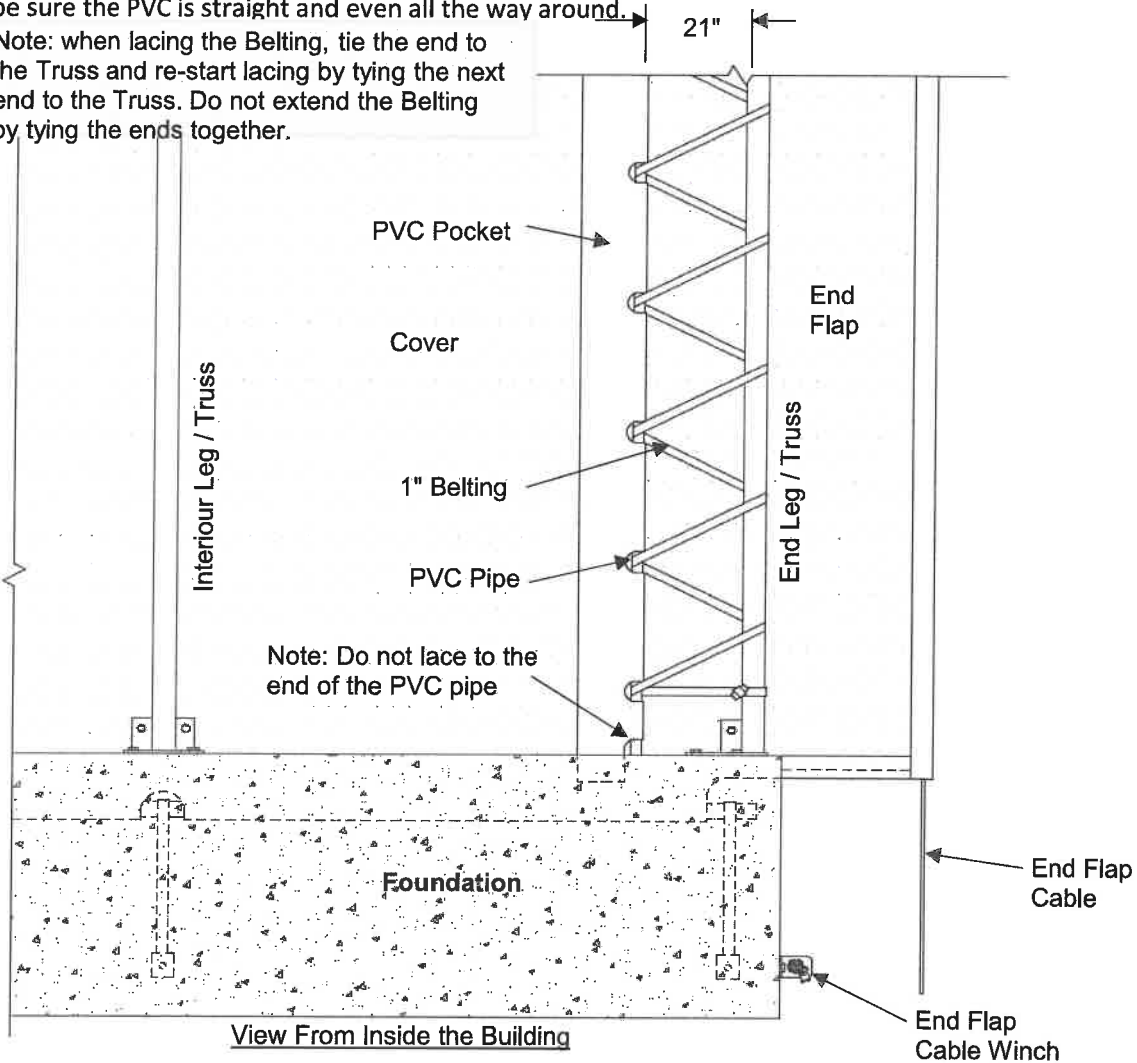
1. When the Cover or Covers in the case of multiple Covers, are fully centred, square and straight, ensure the End Flap extends 24" past the End Truss.
2. Drill a hole in the smooth end of a section of PVC Pipe. Thread the factory installed PVC pull rope through the hole and tie off the rope.
3. Pull the rope from the far side of the building while simultaneously pushing the PVC pipe up into the Pocket. Rotate and twist the pipe if necessary to help feed it through the Pocket.
4. When the first PVC Pipe is almost completely installed, glue the next section of PVC Pipe to the bell end of the first PVC Pipe. Install a screw in each joint and proceed until the PVC Pipe reaches the far side of the building.
5. Attach Ratchet Straps between the End Truss Outer Chord and the PVC on both ends of the Cover to evenly tension the Cover along the length of the building. Take up any slack in the Block Winches and Lashing Straps on both sides of the building as well. Don't tighten, just take up the slack.



Cover End Flap Installation Continued

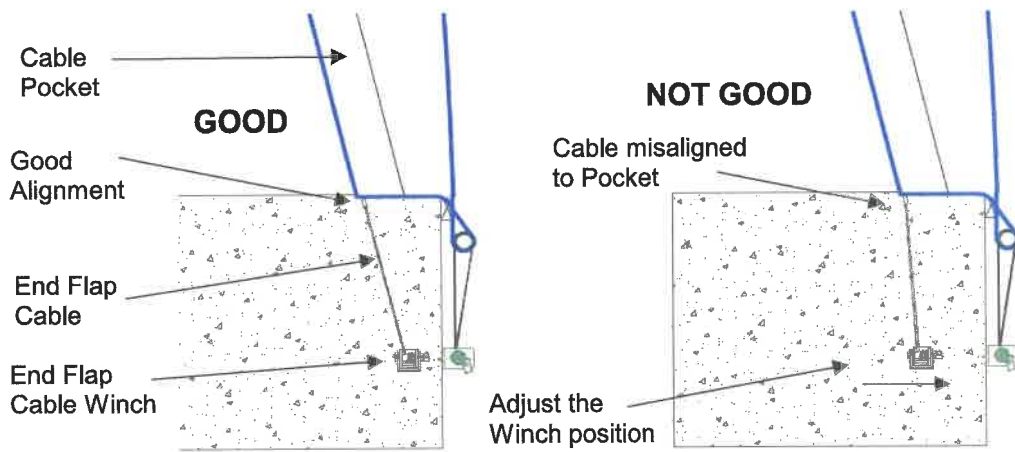
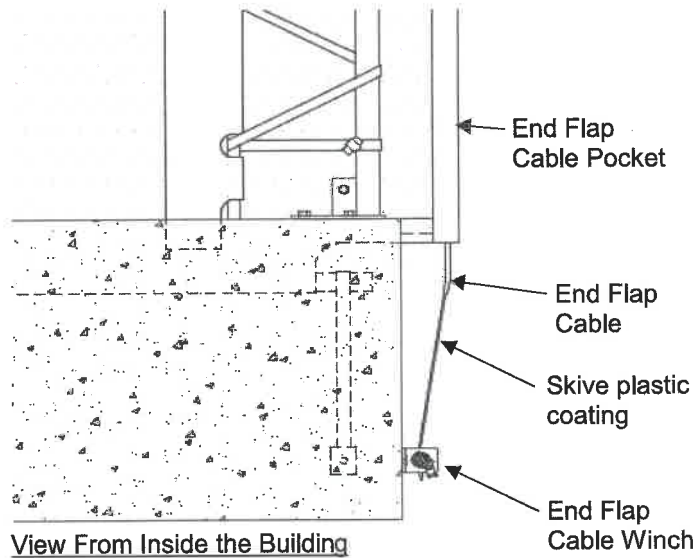
6. Check both ends of the Cover to ensure the Cover is even on the building. The PVC Pipe should be positioned approximately 21" from the End Truss on both ends.
7. Starting at the base of the Leg, tie the 1" Belting to the Outer Chord of the Leg and begin lacing the Belting through the PVC Pipe and around the Leg and Truss Outer Chords as shown in the diagram below.
8. Continue lacing until the peak of the building is reached. Then repeat the process from the other side of the building at the base of the Leg again reaching the peak of the building.
9. Starting at the peak of the building, re-tension and tighten the 1" Belting all the way down to the base of the Leg. Repeat on the other side of the building and the other end of the Cover. Check to be sure the PVC is straight and even all the way around.

Note: when lacing the Belting, tie the end to the Truss and re-start lacing by tying the next end to the Truss. Do not extend the Belting by tying the ends together.



Cover End Flap Installation Continued

10. Check the End Flap Cable to ensure it is even on both ends of the End Flap. The Cable is factory installed in the Cable Pocket.
11. Skive or strip the plastic coating from the End Flap Cable if necessary to ensure there is bare cable to insert into the End Flap Cable Winch.
12. Insert both ends of the Cable into the respective Block Winches and apply light tension to the End Flap Cable.
13. It is very important at this stage to check the End Flap Cable exit from the Pocket to ensure that the angle is correct. Pressure from the Cable at the edge of the Pocket will damage the fabric and cause pre-mature wear. Adjust the position of the Block Winch on the foundation if necessary.

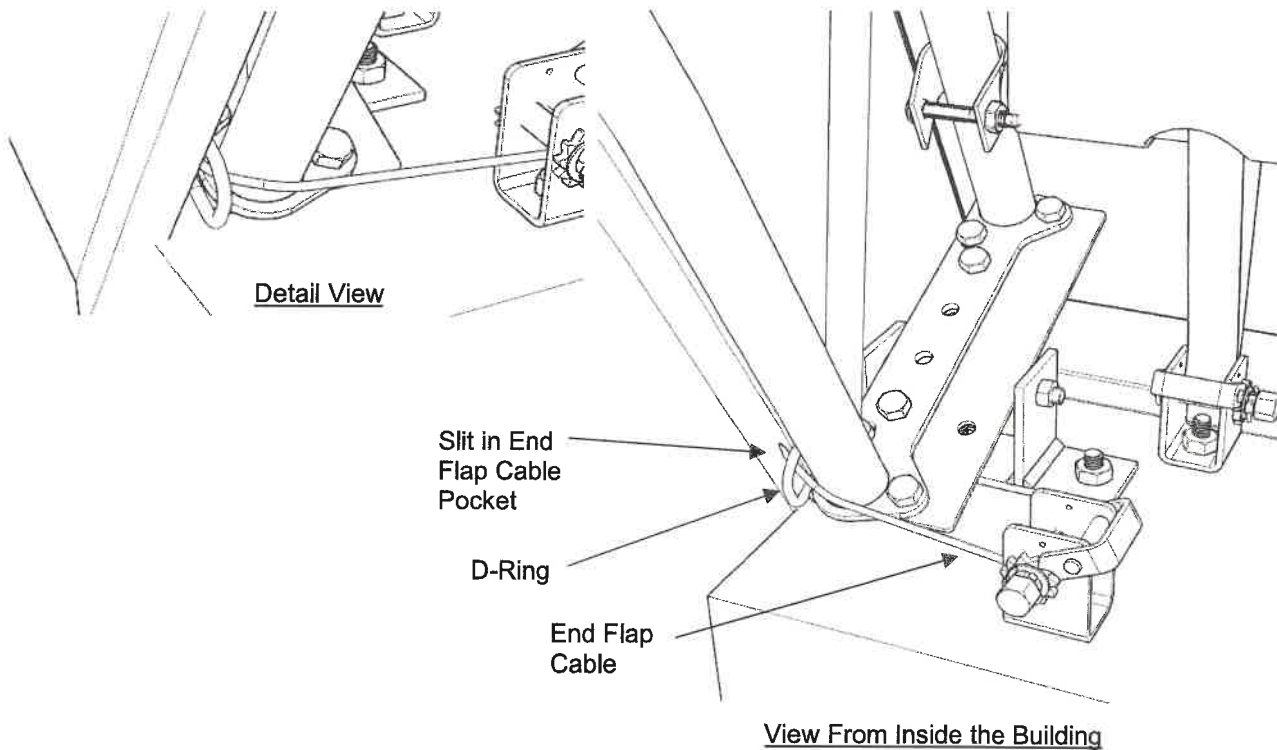


View From the End of the Building

Cover End Flap Installation Continued

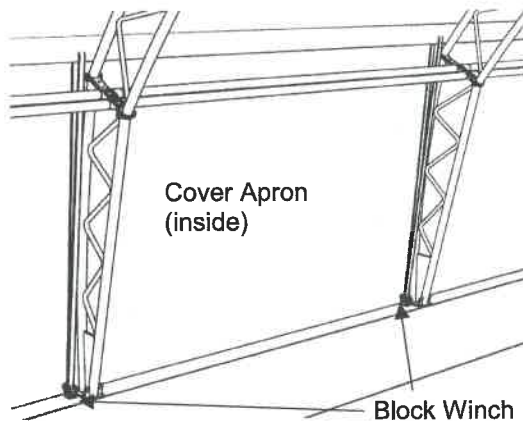
10. The End Flap Cable can also be threaded through the D-Ring on the Swivel Plate with the Cable Winch anchored to the top of the foundation.
11. This arrangement is often suitable when the foundation is not very high - such as a single course concrete block foundation.
12. The End Flap Cable Pocket will need to be slit open to allow the Cable to exit the Pocket just above the D-Ring to allow for a smooth transition.
13. Insert both ends of the End Flap Cable into the Block Winches on both sides of the building and apply light tension to the End Flap Cable.
14. Trim back the End Flap below this point as required for a neat finish. The End Flap is typically fastened to the concrete block foundation with termination Strip and the remaining fabric trimmed off.
15. It is very important at this stage to check the End Flap Cable exit from the Pocket to ensure that the angle is correct. Pressure from the Cable at the edge of the Pocket will damage the fabric and cause pre-mature wear. Adjust the position of the Block Winch on the foundation if necessary.

Note: If the building has an End Wall, an access hole or slit will need to be cut through the End Wall Cover to allow passage of the End Flap Cable to the D Ring and Winch.



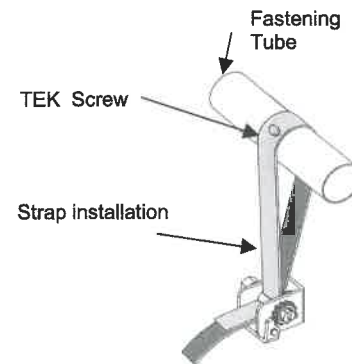
Tensioning the Cover

1. Check the Cover for alignment and ensure that the Cover is centred on the building and even from side to side and end to end.
2. Check all the Fastening Tubes and ensure they are properly seated in their respective Cover Pockets and trim the ends of the Fastening Tubes if required. Also ensure that the Fastening Tubes are free to move in the FT Stabilizer and that the Fastening Tube FT Saddle Brackets are also free to move on the Leg or Truss Chords while the Cover is being tensioned.
3. Tension the Cover at the centre of the building and work toward the ends checking to be sure the Fastening Tube is straight. Tighten the Block Winches to 35 - 45 ft-lbs of torque. The end Block Winches will likely require less torque to ensure the Fastening Tube is not pulled down below straight. Note that there is half the amount of Cover to tension on the end Block Winches.
4. Check the Cover for wrinkles or sags. Adjust the Block Winch tension down and back up as well as tweak the position of the Lashing Straps to minimize wrinkles. Do not exceed 45 ft-lbs of torque on the Block Winches.



5. When the Cover tension looks good, tighten the Cover Apron (Two Pocket 320 Termination) - the section of Cover below the Fastening Tube. Do this manually using a tube or a board temporarily placed into the bottom termination Pocket. Again, start in the middle of the building and work toward the ends.
6. Trim off the fabric below the termination to the foundation as shown in the following pages of this Manual.

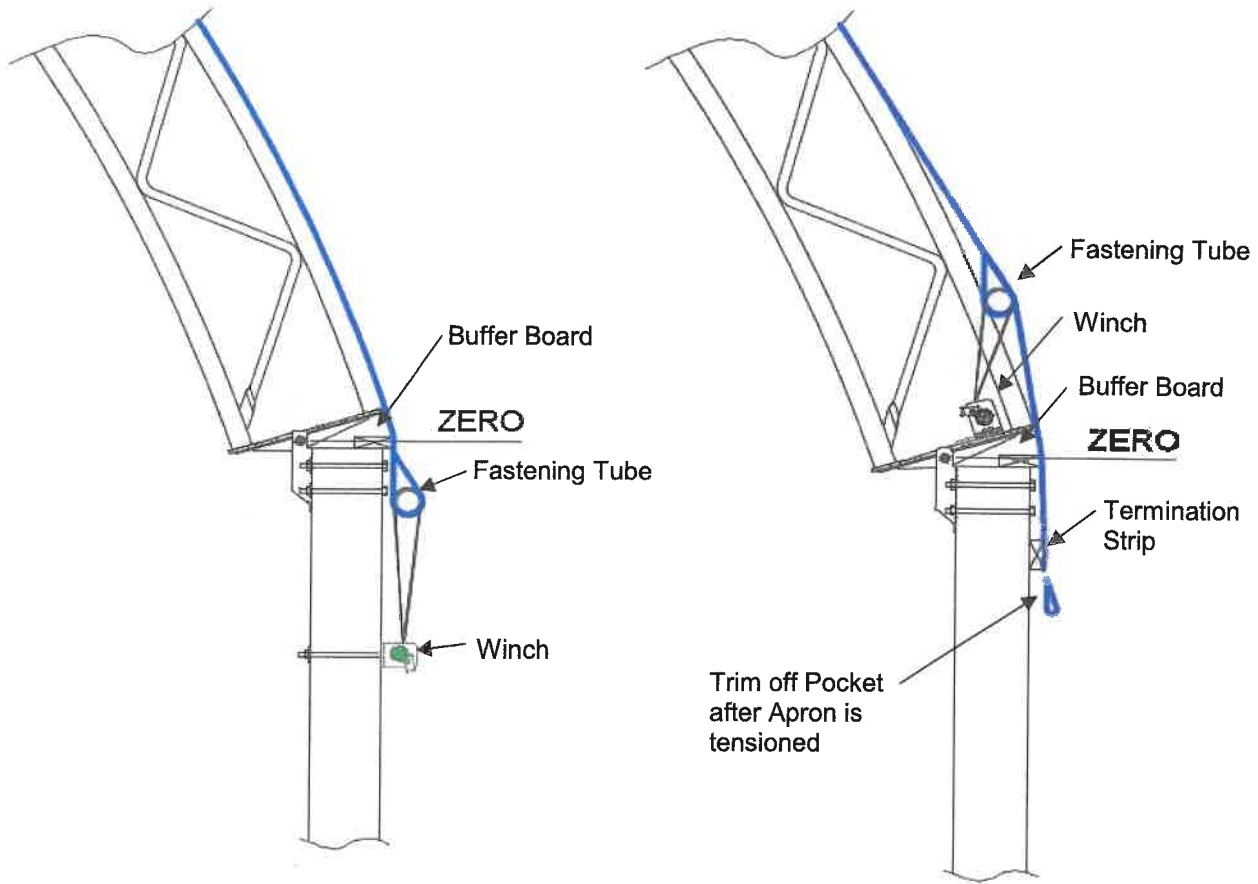
7. At the end of the Fastening Tubes, drive a screw through the Lashing Strap into the Fastening Tube to secure the Lashing Strap from sliding off the end of the Fastening Tube.
8. Tighten the End Flap Cable Winches until there is no slack in the Cables.
9. Re-torque all the Winches to ensure that all remained tight.



CAUTION: Be aware of the weather conditions and do not install covers in high winds. A light breeze will be the ideal condition for installing the cover. Be careful when using a motorized vehicle when pulling the cover. Pre-arrange communication devices and/or hand signals to relay directions to equipment operators. Do not leave the cover unattended under any circumstances until final assembly and tensioning is

Cover Termination

1. **Post Mount Installations** - attach Block Winches to the posts as described in this Manual.
2. Install buffer boards or foam backers to prevent wear (designed and supplied by others) on any wear point that the Cover may contact such as, but not limited to the top of the posts, base of trusses and truss connections.
3. The Apron can be finished to a buffer board on the Posts with PVC Termination Strip available from Britespan. The lowest Apron Pocket that is used to tighten the Apron can be trimmed off after the Termination Strip has been installed.

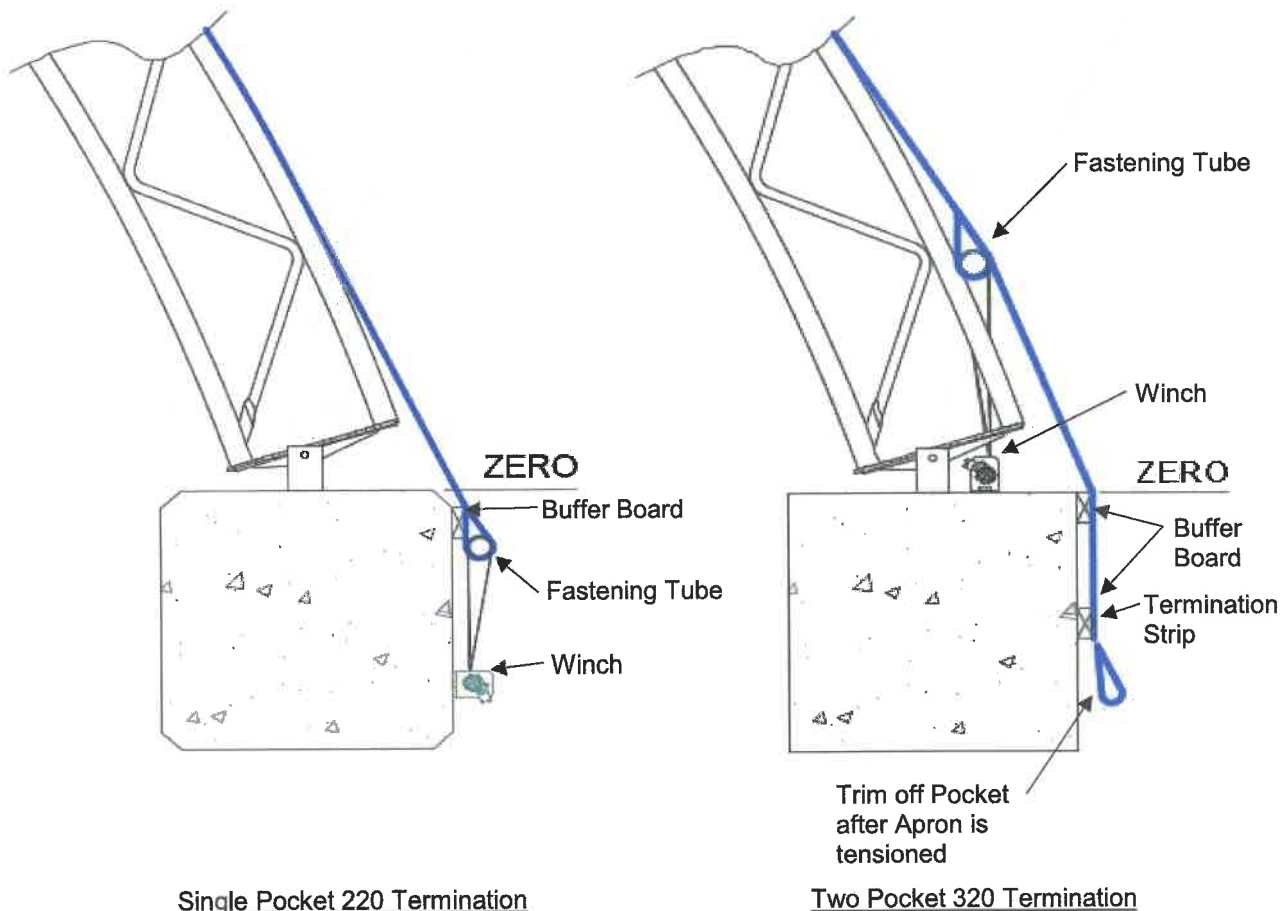


Single Pocket 220 Termination

Two Pocket 320 Termination

Cover Termination Continued

4. **Ground Mount Installations** - attach Block Winches to the foundation as described in this Manual. Refer to the foundation Engineer's instructions for the anchor bolt size and installation specifications.
5. Install buffer boards or foam backers to prevent wear (designed and supplied by others) on any wear point that the Cover may contact such as, but not limited to the edge of the concrete, base of trusses and truss connections.
6. The Apron can be finished to a buffer board on the foundation with PVC Termination Strip available from Britespan. The lowest Apron Pocket that is used to tighten the Apron can be trimmed off after the Termination Strip has been installed.

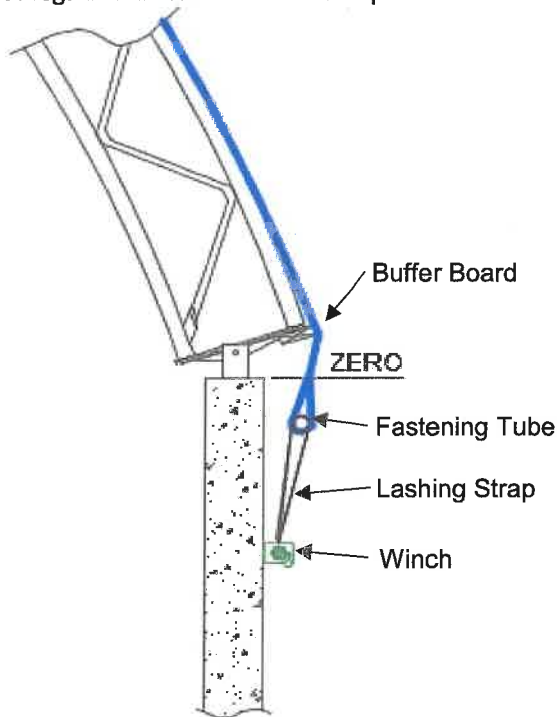


Single Pocket 220 Termination

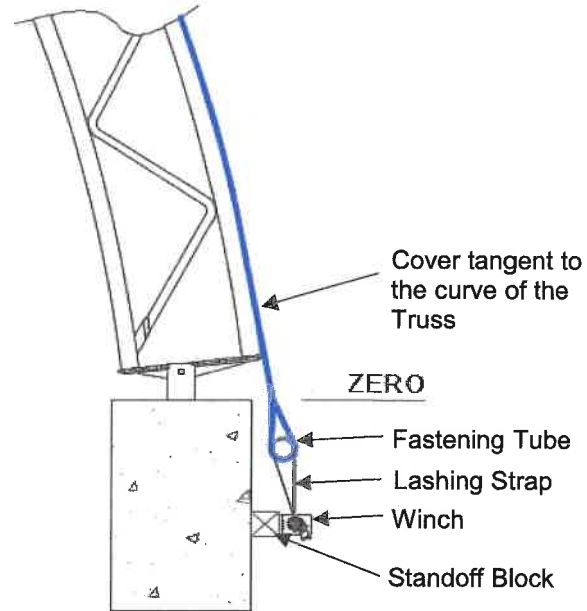
Two Pocket 320 Termination

Cover Termination Continued

7. **220 Single Pocket Wall Installation** - install Winches as shown in the diagrams approximately 18" below the proposed finished fabric elevation. Refer to the foundation Engineer's instructions for the anchor bolt size and installation specifications.
8. Install winches in alignment with each of the trusses and one in the centre of each bay if the Truss Spacing exceeds 16' oc.
9. Install buffer boards or foam backers (designed and supplied by others) on any wear point that the fabric may contact such as, but not limited to the top of the foundation, pilings, base of trusses, tops of legs and truss connections to prevent wear.



Single Pocket (220) Cover Termination



Single Pocket (220) Cover Termination with Standoff Arrangement

10. The Standoff Arrangement is specified by the Structural Engineer in specific situations. The Cover not contacting the foundation creates a gap that allows air pressure to escape the inside of the building. Thus reducing the build-up of air pressure on the inside of a building.
11. Often specified on a building that is open on one end.



Warranty and Maintenance Schedule

To ensure the warranty of the building as provided by Britespan Building Systems Inc. (Britespan) this maintenance schedule must be adhered to completely. Failure to comply with this maintenance schedule will invalidate the warranty. Perform maintenance on all items once a week for first month; once a month for first year; quarterly thereafter or after any unusually extreme weather event.

A/ 1-Piece Covers & Lacing

The cover of your Britespan building may relax after installation. It is important to keep the cover tight in all directions at all times. Tighten the building lengthwise and then tighten over the arc of the building.

- Check all ratchet straps and lacing for premature wearing on hard surfaces like pipes or foundations. Reposition ratchets if visible wearing is occurring.
- Pull out any excess lacing towards ratchets. De-spool the ratchets and pull excess through. Re-tighten ratchets.
- Make sure all ratchet straps, lacing, and winches have moderate tension throughout the whole building.
- Moderate tension in the cover to pull out as many wrinkles in the material as possible.
- Cover tensioning tubes should be as level as possible.
- Check the cover for tears and rips.
- Cover should be tight enough that there is no movement from the wind, and that rain or snow will not accumulate on the cover.
- The cover material should not be in contact or rubbing on any surface that will tear, rub, or cut it. If tightening the cover produces cover contact with foundation, detach finish angle, provide buffer material and reattach finish angle.
- Remove any excess cover material caused by re-tightening the cover.
- Radius all corner cuts in fabric.
- Call Britespan for further details.

B/ Individual Panels (kedered) Covers & Lacing

The covers of your Britespan building may relax after installation. It is important to keep the cover tight over the arch of the building. Kedered covers only need to be tightened over the arch of the building.

- Make sure all lacing and winches have moderate tension throughout the whole building.
- Moderate tension in the cover should pull out as many wrinkles in the material as possible.
- Cover tensioning tubes should be as level as possible.
- Check the cover for tears and rips.
- Cover should be tight enough that there is no whipping movement from the wind, and that rain or snow will not accumulate on the cover.
- The cover material should not be in contact or rubbing on any surface that will tear, rub, or cut it.
- If tightening covers produces excess cover material, detach finish angle and re-stretch cover. Reattach finish angle
- Radius cut all corner cuts in fabric.
- Check keder cover flaps for tightness. If the cable in the flap is loose, re-tension the cable, and reattach.
- Call Britespan for further details.

C/ End Wall Cover

- Hand tighten all cambuckles, ratchet straps, and lacing.
- If excess material accumulates around outside arch, remove fasteners from arch, re-stretch the cover, and re-attach.
- If tightening covers produces excess cover material at the bottom, detach finish angle (if applicable) and re-stretch cover. Re-attach finish angle and trim off excess material.
- Radius cut all corner cuts in fabric.
- Call Britespan for further details.

Warranty and Maintenance Schedule Continued

D/ Cold Weather Cover Installation

Building covers installed during cooler weather tend to relax more than covers installed during warmer weather. If your cover was installed in cooler weather recheck its tightness on the first available warm day in addition to the above maintenance.

E/ Metal Components

Seal all marks or scrapes that are down to the base metal with 3 layers of high zinc content paint. Tighten any loose cabling in the building with the turnbuckles. If there is no more take-up available on the turnbuckle, please contact Britespan for instructions. Check for damage to any truss or end wall framing.

F/ Fasteners

Ensure that all fasteners are tight and free of corrosion. Make sure any foundation anchors are fastened securely into the foundation.

General Maintenance Concerns

Cover Material is Getting Dirty

It is very easy to clean with water and non-abrasive soap. Do not use solvents or chemicals. Do not pressure wash at close range as damage can occur.

Snow on the Cover

Some snow may accumulate on the cover. Heavy snow accumulating on the cover could indicate that the cover needs re-tensioning. Remove heavy snow and check cover tensions immediately or damage may occur. Remove any ground snow that applies lateral force on the fabric or structure. Damage from snow accumulation is not covered by warranty. Refer to the Britespan warranty for further details.

Damage

Structure and Fabric - Report and document with pictures any damage to the cover, steel structure, components, or foundation immediately. Please call Britespan for assistance and a comprehensive evaluation. Report any damage from an insurable event to your insurance company. The Britespan maintenance and warranty agreements are not a replacement for Insurance. Refer to the Britespan warranty for further details. Perform any temporary or emergency repairs as deemed necessary. Replace or repair damaged components as determined necessary.

Fabric Repair

- Sharp objects can puncture the woven polyethylene fabric. Do not attempt to seal or repair with conventional materials.
- The fabric can be repaired by contacting an Authorized Britespan Dealer to arrange for plastic welding or with the self-adhesive cover material available from Britespan.
- When using the self-adhesive cover material, cut out the tear so that all corners of the tear are rounded and patch material will stick to each other in the cut out area.
- Clean both the inside and outside area around the tear with rubbing alcohol.
- Cut a repair patch to cover an area of at least 4" out from all spots of the tear. Round the corners of the patch so that the corners will not want to peel off.
- Self-adhesive cover material should be placed on the inside and outside of the cover around the tear and pressed together so it adheres to the cover and itself.
- Contact Britespan or your dealer for further assistance.

Warranty and Maintenance Schedule Continued

Maintenance in Corrosive Environments

Building Framework, Cover, and Fasteners - Britespan manufactured steel components for corrosive environments are hot-dip galvanized. Hardware components are made of galvanized steel, stainless steel, aluminum alloy, poly, or are zinc plated. It is still required for warranty coverage that the building owner/operator:

- Prevent corrosive material or product from resting against the fabric or metal building components.
- While hot-dipped galvanization delays corrosion, any corrosion should be immediately cleaned off to base metal and covered with high content zinc paint.
- All bolts, fasteners, and cover tensioning hardware that are hot-dipped galvanized shall be coated with a corrosion protective film (fluid film or equivalent) annually.
- Seal or protect from corrosion any non-building components that are connected to, or that come in contact with, the building hardware.
- Spray any moving part with a moisture displacing lubricant (fluid film or equivalent).
- Refer to the Britespan warranty for further details.

Following these maintenance items on your Britespan building will help extend the service life of your structure. Please contact Britespan or your local dealer with any maintenance questions.



Maintenance Record

This maintenance schedule must be adhered to completely. Failure to comply with this maintenance schedule will invalidate the warranty. Perform maintenance on all items once a week for first month; once a month for first year; quarterly thereafter or after any unusually extreme weather event.

Date of Installation: _____

Dealer Information: _____

Installer Information: _____

Maintenance Log:

Inspection Period	Date of Inspection	Noted Issues	Inspection Period	Date of Inspection	Noted Issues
Week 2			Quarter 28		
Week 3			Quarter 29		
Week 4			Quarter 30		
Month 2			Quarter 31		
Month 3			Quarter 32		
Month 4			Quarter 33		
Month 5			Quarter 34		
Month 6			Quarter 35		
Month 7			Quarter 36		
Month 8			Quarter 37		
Month 9			Quarter 38		
Month 10			Quarter 39		
Month 11			Quarter 40		
Month 12			Quarter 41		
			Quarter 42		
Quarter 6			Quarter 43		
Quarter 7			Quarter 44		
Quarter 8			Quarter 45		
Quarter 9			Quarter 46		
Quarter 10			Quarter 47		
Quarter 11			Quarter 48		
Quarter 12			Quarter 49		
Quarter 13			Quarter 50		
Quarter 14			Quarter 51		
Quarter 15			Quarter 52		
Quarter 16			Quarter 53		
Quarter 17			Quarter 54		
Quarter 18			Quarter 55		
Quarter 19			Quarter 56		
Quarter 20			Quarter 57		
Quarter 21			Quarter 58		
Quarter 22			Quarter 59		
Quarter 23			Quarter 60		
Quarter 24			Quarter 61		
Quarter 25			Quarter 62		
Quarter 26			Quarter 63		
Quarter 27			Quarter 64		

Insurance

At all times starting with the date of delivery, Purchaser shall maintain insurance coverage, on the building components, and once constructed such insurance shall provide insurance on the structure, providing coverage against property damage to the building components, the structure and its contents for their full replacement cost; such coverage to be no less than what is ordinary and customary for the location of install. Such insurance shall include coverage for the acts of third parties and for all weather related events. Purchaser's insurance coverage will be the primary source for payment of any damage or costs to the building components and the structure even if a defective building component would otherwise be subject to repair or replacement by Britespan under this limited warranty. Purchasers' insurance coverage will be the sole source for payment of any damage or costs to the building components and the structure in any way related to a weather event (weather wind, hail, snow, ice, tornado, hurricane, lightening or otherwise), even if the defective building components would otherwise be subject to repair or replacement by Britespan under this limited warranty. Purchaser waives all rights of subrogation against Britespan and shall require that its insurer also waives all rights of subrogation against Britespan. In the event Britespan provides any repair or replacement of defective building components to Purchaser, Purchaser hereby assigns its rights to any insurance proceeds for such defective building components to Britespan and Purchaser shall provide all cooperation required by Britespan to allow Britespan to enforce any insurance claim, including without limitation executing an assignment of claim to Britespan and any other documents or instruments which may be requested by Britespan.



Warranty Registration

Warranty Registration must be submitted within 60 days of building installation.

Warranty Registration Forms are available online at www.britespanbuildings.com.

WARNING : FAILURE TO COMPLETE WARRANTY REGISTRATION WILL VOID ABILITY TO MAKE ANY CLAIM IN THE FUTURE.



BRITESPAN Warranty Photo Registration

NUMBERS
Represent Views
and
Preferred Sequence
(see attached photo examples)

**MIN 13 PHOTOS
REQUIRED**

**BUILDINGS WITH
MID-BRACING
14 PHOTOS**

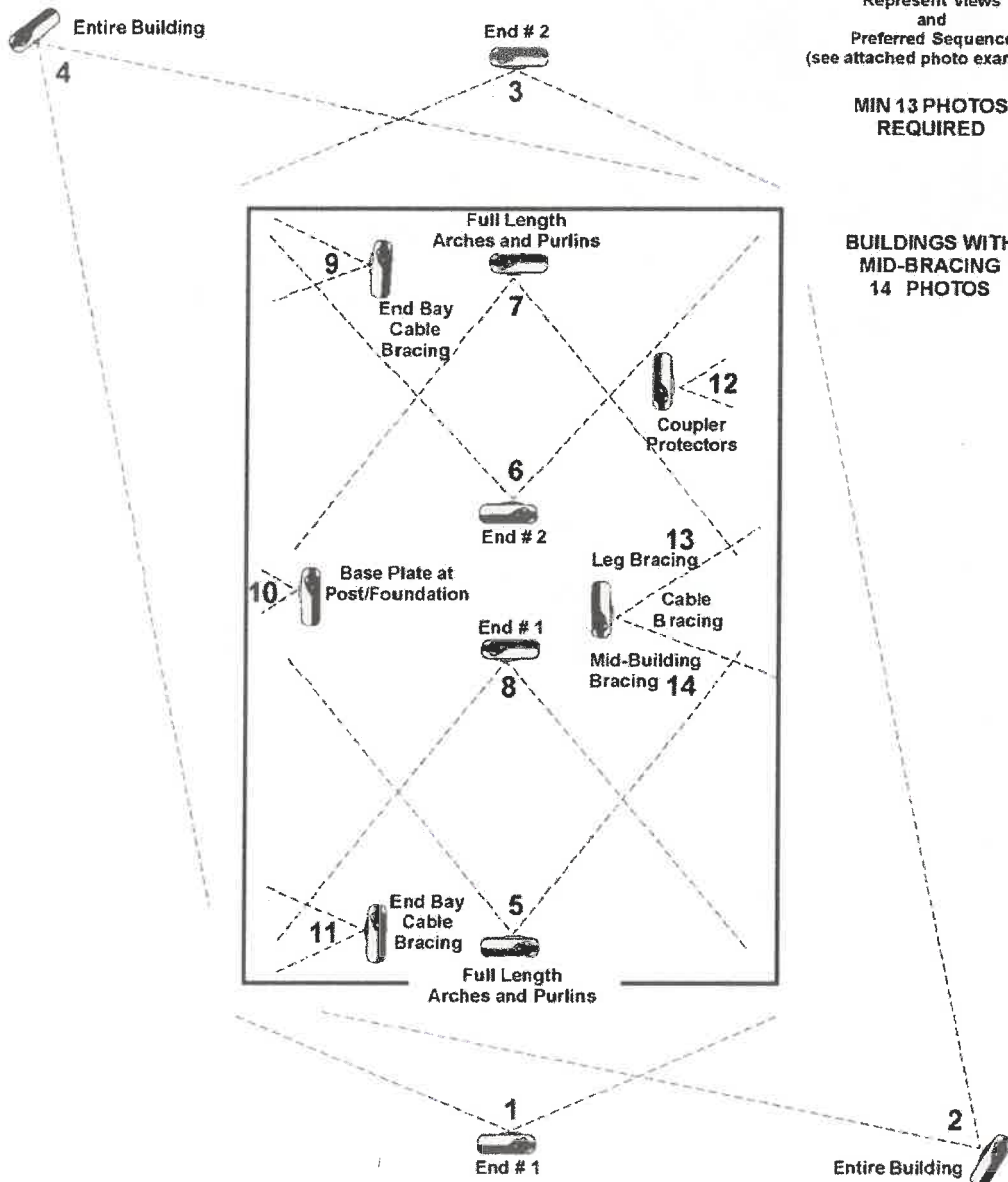


Photo Registration Instructions Required Views

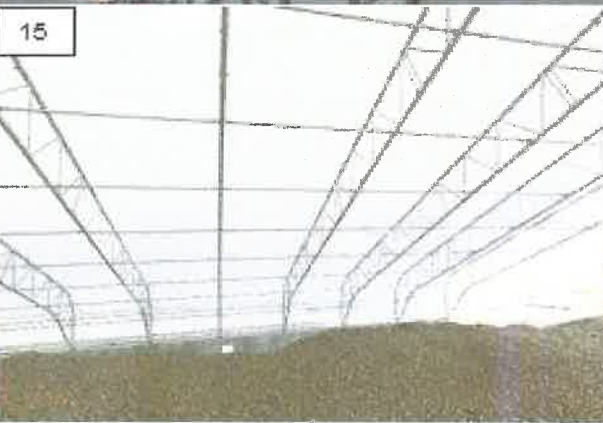


Photo Registration Instructions Required Views Continued

10



11



20 Year Limited Warranty

SCOPE OF LIMITED WARRANTY

Only the building components manufactured by Britespan Building Systems Inc. (Britespan) and described in this agreement are

This warranty is only valid if and when

- i) Warranty has properly been registered by an authorized Britespan dealer as per the instruction in the building kit.
- ii) Building and any components are assembled and maintained in accordance with the Installation/Owner's Manual/Structural Drawings and applicable Technical Bulletins.
- iii) Britespan receives written notice and proof of claim (photos where possible) of any manufacturer's defects during the period of warranty coverage.
- iv) Britespan Building Systems has been paid in full for the building and materials.

Resolve of the structural defect(s) may be through the supply of new, used or rebuilt parts, or on-site repair, at the discretion of Britespan. If Britespan chooses to repair or replace the defective product or component, Britespan shall be allotted reasonable time to do so.

This warranty includes the explicit warranty of Britespan. There are no other warranties expressed or implied. This warranty is made and is not to be replaced by any warranties of marketability or suitability for a particular purpose. Warranty specifications are applicable to units sold and erected in Canada and the United States only. Warranty may vary outside of those areas. Please contact your local authorized Britespan representative for more details.

WARRANTY REGISTRATION

Follow all of the instructions for the online Warranty Registration found in the Owner/Installation Manual shipped with the building kit, or at www.britespanbuildings.com. **All Warranty Registrations must be submitted for registration review within 60 days of building installation.** A Certificate of Warranty will be issued to your local authorized Britespan representative once all the requirements have been met for registration and approved by Britespan.

A Warranty Certificate may be withheld if the building or any components are not assembled in accordance with the installation procedures indicated in the installation manual or structural drawings. A Warranty Certificate will be issued upon correction of identified deficiencies supported with new photographs to complete the verification.

If the building changes ownership, the new owner must apply for a Warranty Transfer to assume remaining years of warranty on the existing structure(s). Contact your local authorized Britespan dealer to obtain a transfer of warranty package. A one-time per transfer fee may apply.

STANDARD LIMITED WARRANTY COVERAGE PERIODS:

TABLE 3-1: STANDARD PRO-RATED WARRANTY COVERAGE PERIOD (YEARS)	
COMPONENT	ATLAS / GENESIS / APEX / EASY ACCESS / EPIC SERIES
MAIN STRUCTURE COVER (NON-FR) (4)	20
MAIN STRUCTURE COVER (FR) (4)	15
END FABRIC (NON-FR) (5)	5
END FABRIC (FR) (5)	5
MAIN STEEL FRAMEWORK (2)	20
END STEEL FRAMEWORK (HSS) (3)	10

* Building needs to be installed by factory trained, approved and qualified personnel.

NOTES ON LIMITED WARRANTY COVERAGE PERIODS

- All repair or replacement costs are pro-rated as per table 3-1 on page one of this document.
- Standard pre-galvanized purlins include a 5 year pro-rated warranty. Main building trusses, hot dip galvanized purlins and manufactured brackets include 20 year pro-rated warranty. (2)
- Consists of vertical columns, horizontal members, and manufactured brackets. Does not include cables or fasteners. (3)
- Consists of main building cover panels only. Does not include any fastening system components (4)

STANDARD TERMS OF LIMITED WARRANTY COVERAGE

Should any components be found to have manufacturer's defects under normal use, the defect(s) will be repaired, or the components replaced, at the discretion of Britespan. The building owner will be responsible for the cost of the repair or replacement parts pro-rated per year following the original purchase date, plus the cost of delivery and installation of replacement parts, if required. All replacement parts are F.O.B. Wingham, Ontario, Canada. Any parts requiring replacement under this warranty are subsequently warranted only for the remaining time period of the unexpired portion of the warranty that is applicable to the original product.

Due to continual product development, over time certain fabric colours or steel components may become unavailable. In those incidents, Britespan reserves the right to substitute replacement components with those that are comparable in function, quality, and price to the original. Britespan is not responsible or liable if the replacement component varies in appearance from the original.

LIMITS AND RELEASE OF LIABILITY

This warranty does not apply to defects or damages resulting from a) improper installation and /or installation that is not in accordance with Britespan installation manuals/procedures/structural drawings, and Technical Memos; b) improper or inadequate maintenance of the structure; c) any modification or alteration of the product reported or not reported; d) misuse, neglect, or abuse of the product; e) accident; f) repair or alteration by an unauthorized Britespan dealer; g) integration of products or accessories not manufactured specifically for use in a Britespan; h) exposure to corrosive elements; i) corrosion resulting from structure applications, environment within the structure, and/or insufficient maintenance or any cause other than a defect in an item's described corrosion protection; j) use of abrasive cleaning methods, chemicals, or solvents; k) exposure to conditions in excess of, or not meeting, as the case may be, wind and snow load specifications for building model; l) design of foundation and/or installation and/or deficiency in the foundation; m) product upgrades; n) product recall; o) normal wear and tear; p) wear caused by multiple installations; q) storage and/or handling of building components; r) an act of God; This warranty does not apply to s) cosmetic defects or deterioration, including discoloration of fabric or steel t) rub marks on the fabric that only rub off of the colour coat, but do not leak.

Britespan will not be liable for any damages incurred during or as a result of installation of a Britespan product, whether or not in accordance with the installation instructions. In no event will Britespan, any distributor, or the selling dealer be liable for any direct, indirect, special, incidental, or consequential damages (including loss of profit, loss of time, inconvenience, or the use or inability to use this product for any purpose whatsoever), whether based on contract, tort, strict liability or any other legal basis; even if Britespan, its distributor, or selling dealer was advised of the possibility of the occurrence of such damages. By registering for and taking benefit of the warranty, the building owner expressly releases and discharges Britespan, all distributors, and all dealers from all claims, causes of action, demands, actions, suits, judgments and executions for any actual, incidental or consequential damages, bodily or otherwise, that the building owner ever had, now has, or may have by reason of the assembly, erection, use and/or operation of any Britespan. All references to building owners, Britespan, all distributors and all dealers, include such parties' spouse, heirs, successors, legal representatives and assigns.

Britespan and its authorized Dealers are independent businesses; authorized Dealers are not agents or legal representatives of Britespan. Authorized dealers have no right or authority to assume or create any legal obligation or responsibility, express or implied, on behalf of Britespan, or to bind Britespan in any manner whatsoever. Britespan Building Systems Inc shall have no liability for any acts, errors, omissions, workmanship, supplies, advice, representations or misrepresentations of any authorized Dealer.



LIMITED WARRANTY REGISTRATION

COMPLETE THIS PAGE IN FULL AND RETURN WITH THE WARRANTY PHOTOS.

IT IS THE RESPONSIBILITY OF THE OWNER/DEALER TO RETURN THIS BUILDING WARRANTY REGISTRATION FORM.

Owner Name		Business / Company Name	
1		COMPLETE	
Mailing Address		Agent / Representative	Title
2		ONLY IF	
City / Town	Prov / State	Phone	Website
3	4	APPLICABLE	
Postal Code / Zip Code		Country	Email Address
5		6	7
Home Phone with area code		Work Phone with area code	
8		9	
10 The Building Address is the same as above <input type="checkbox"/> If not, provide the building address in the comments section below			
SO#		*SO# is located on white shipping label on wooden crate OR bundles of steel components OR dealer invoice	
11			
Date of Purchase		Name of Dealer building purchased from	
12		13	

	Self Installed	Dealer Installed
14 Building Foundation	<input type="checkbox"/>	<input type="checkbox"/>
15 Building Cover	<input type="checkbox"/>	<input type="checkbox"/>
16 Building Steel	<input type="checkbox"/>	<input type="checkbox"/>
17 The End Frame(s)	<input type="checkbox"/>	<input type="checkbox"/>
18 The End(s) Fabric	<input type="checkbox"/>	<input type="checkbox"/>

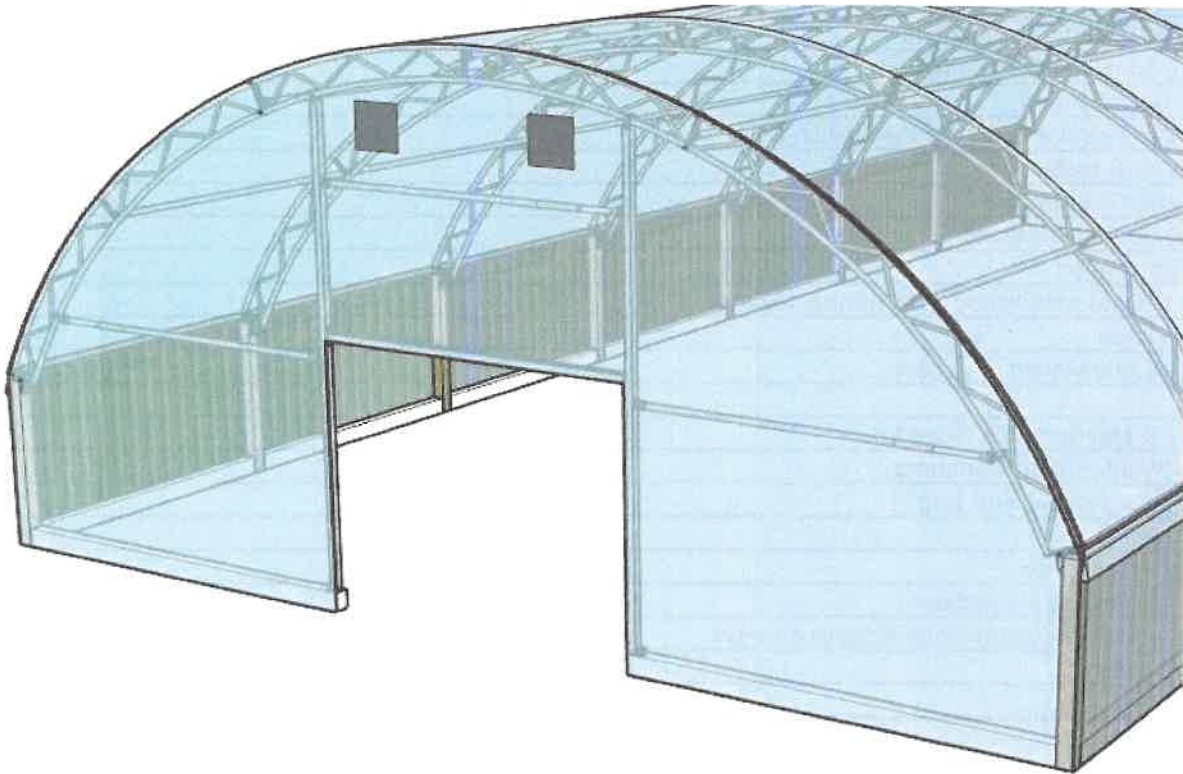
****Self installed includes customer arranging own contractor**

	YES	NO
19 Did you receive the Owners / Installation Manual with building maintenance information included?	<input type="checkbox"/>	<input type="checkbox"/>
20 Did you ask the installer or Dealer for instructions on how to perform Building Maintenance procedures?	<input type="checkbox"/>	<input type="checkbox"/>

Comments

Now 90 days from date of registration submission for processing and evaluation of warranty photos. If you do not receive a Warranty Certificate within this time frame, please contact your authorized Britespan Dealer or contact Britespan Corporate office at 800-407-5846. Use the building's SO# as your trace number. **Note:** Warranty only valid with Warranty Registration Card and required photos. See attached for photo instructions. Submit this form and photos to warranty@britespanbuildings.com

ATLAS END WALL



GENERAL INSTALLATION GUIDE

IMPORTANT: Always refer to the building specific sealed structural drawings for all details. These drawings will be the most current and accurate.

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Important

It is the Owner's responsibility to inspect product regularly for visible damage, cracks, wear, elongation, rust, etc. Protect all products from corrosion. The need for periodic inspections cannot be overemphasized. Periodic inspections help determine when to replace or adjust a product and reduce hazards. It is the Owner's responsibility to keep inspection records to help pin point problems and to ensure periodic inspection intervals are maintained.

Due to the diversity of the products and components involved and the uses to which the structures can be put, Britespan can only provide general recommendations for inspection procedures and frequency. Best results will be achieved when qualified personnel base their decisions on information from construction and engineering manuals and on field experience.

Frequency of inspections will depend on environmental conditions, application, storage of product prior to use, frequency of use, etc. When in doubt, inspect products prior to each use. Carefully check each item for wear, deformation, cracks or elongation - a sign of possible failure. Immediately withdraw such items from service pending investigation.

Rust damage is another potential hazard. When in doubt about the extent of corrosion or other damage, withdraw the items from service pending investigation.

Destroy, rather than discard, items that have been judged defective to avoid them being used by someone not aware of the hazard involved.

Additional information on products and components can be obtained by contacting Britespan Building Systems Inc.

See MAINTENANCE

IMPORTANT: Improper Site Preparation, Assembly and Maintenance may invalidate warranty and cause unnecessary and costly mistakes. If you have any questions, contact your local dealer.

Before Construction Begins













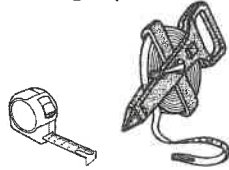



It is the Owner's responsibility to obtain all permits and contract an engineer of record.

All construction activities must comply with local governing authorities and safety regulations and are the responsibility of the Owner.

Britespan Building Systems Inc. will not be held responsible for conduct that is an infraction thereof.

Tools

You will need the following tools to install Britespan Building Systems Buildings Inc. Building or End Wall.

<p>String and string level</p> 		<p>Moveable scaffolding or a platform lift.</p> 	
<p>Temporary bracing—dimensional lumber or rope.</p> 	<p>Square level.</p> 		<p>Torque Wrench</p> 
<p>Hacksaw</p> 	<p>#10 x 3/4" (#10 x 20mm) round head Philips screws and bit.</p> 	<p>13/16" (21mm) - 15/16" (24mm) - 1 1/8" (29mm) Wrenches and Sockets</p> 	
<p>Drill and Impact Driver</p> 	<p>Rubber Mallet</p> 	<p>Hand Held Hot Air Welder</p> 	<p>Reamer or Ream Bit</p> 
<p></p>	<p>Measuring Tapes</p> 	<p>Levels and Laser Level</p> 	<p>Plumb Line and Plumb Bob</p> 
<p></p>	<p>Tek Screw Driver</p> 		

Tools Needed For Installation Available from Britespan

You will need the following tools install Britespan Building Systems Genesis, available for purchase from Britespan Building Systems.

	<div> <p>0.1lbs</p> </div> <div> <p>406</p> </div> <div> </div> <div> <p>MAG CHUCK DRIVER- 3/8"</p> </div>
	<div> <p>0.0lbs</p> </div> <div> <p>416</p> </div> <div> </div> <div> <p>MAG CHUCK DRIVER- 5/16"</p> </div>

Part number noted in upper right corner when available.

End Wall Component Dimensions, Definitions

IMPORTANT: BRITESPAN IS NOT RESPONSIBLE FOR THE END WALL FOUNDATION

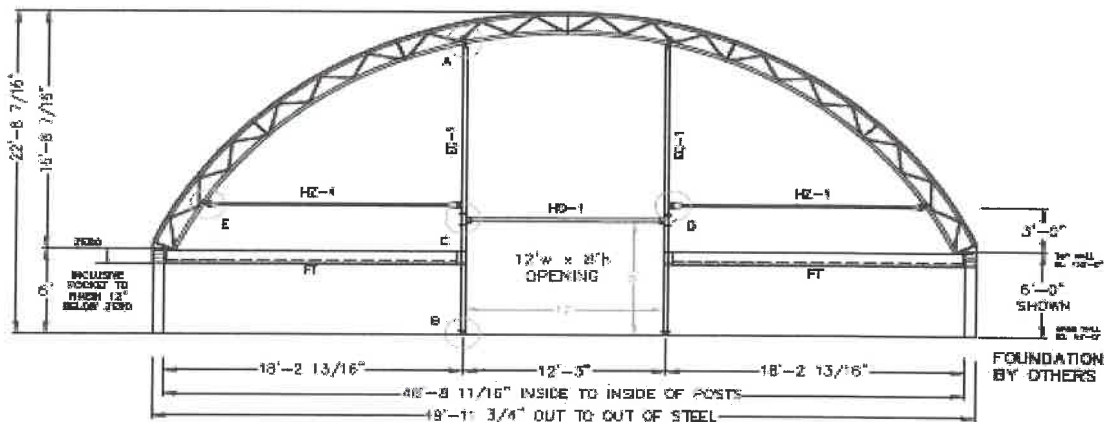
A drawing will be supplied for all End Walls either on an ECT sign-off drawing (End Wall Cover Termination drawing) or a Structural drawing. The dimensions noted on the drawing are very important as the End Wall components are sized to fit the particular width of building, the requested foundation type and height as well as any door configuration that was requested.

End Wall Component Definitions:

- 1 HSS - Hollow Structural Steel.
- 2 HSS Vertical - Vertical structural members that extend from the foundation to the bottom chord of the building Truss.
- 3 HSS Header - horizontal structural member forming the top of a door frame or opening.
- 4 HZ - Horizontal assembly used to support the End Wall fabric. *
- 5 Cee Channel - light gauge Cee cross section steel channel used for framing Personnel Doors and Vent Frames.
- 6 Vent Frame - framing constructed of HZ or Cee Channel to support End Wall Vents.
- 7 Grommet - round metal ring cinched into the End Wall fabric and used to thread a rope through to pull the Cover into position during Cover installation.
- 8 PVC - 1" OD x 10' long PVC plastic pipe installed around the curve of the outer perimeter of the End Wall Cover. Used to tension the fabric for a drum tight finish. Also used to tension the End Wall Cover to the upright, HSS Verticals.
- 9 PVC Pocket - pocket formed in the End Wall Cover that the PVC pipe is installed into and used to apply tension to the End Wall Cover.
- 10 FT - Fastening Tube - steel tubing used along the lower edge of the Cover to tension the fabric.
- 11 FT Pocket - a pocket formed in the End Wall Cover along the bottom edge of the Cover that the FT is installed into and used to apply tension to the End Wall Cover.

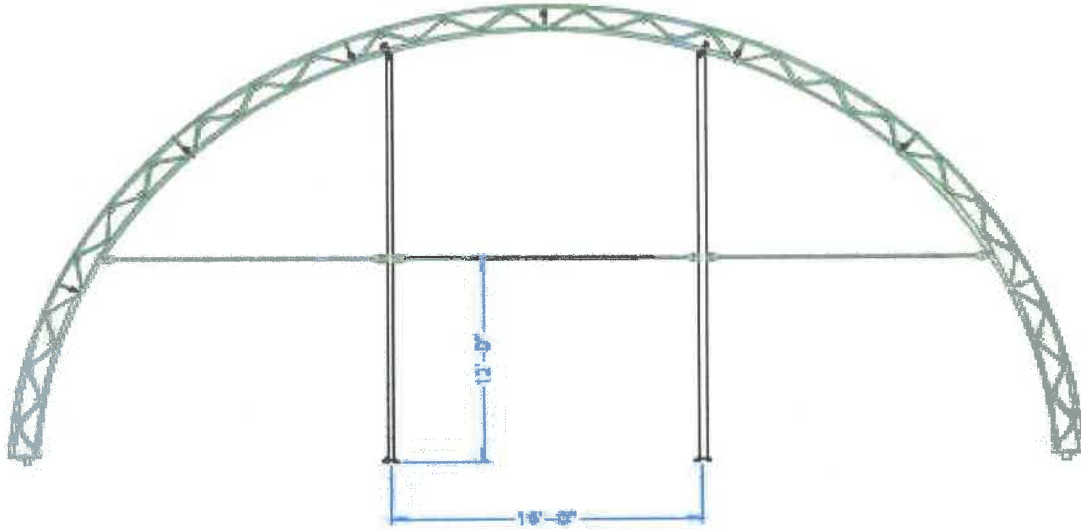
* Note: the HZ consists of two telescoping tube components. The first is a 2 1/2" OD x 39" long tube that slides into a 2 7/8" OD tube that can vary in length from 8' to 20' depending on the End Wall configuration.

Note that the dimensions on the End Wall drawing are generally to the centreline of the HSS Verticals or HZ components. The exception to that is the dimension to the HSS Headers will always be to the underside of the Header.



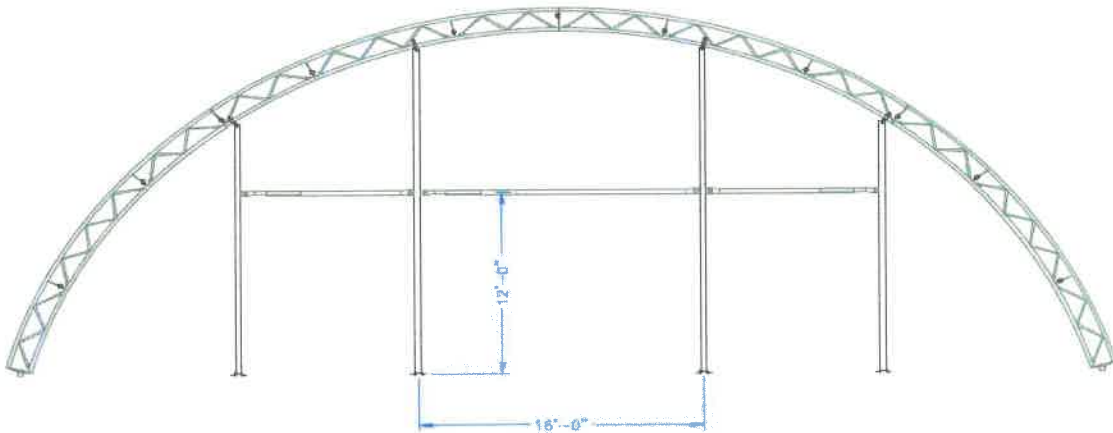
End Wall Component Configuration

A drawing will be supplied for all End Walls either on an ECT sign-off drawing (End Wall Cover Termination drawing) or a Structural drawing. Refer to those drawings for specific End Wall Component configuration.



Atlas 18 24' wide to 55' wide

Standard End Wall HSS Vertical configuration - two Verticals



Atlas 18 62' wide and Atlas 24 65'L10' wide to 80'L8' wide

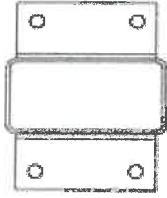
Standard End Wall HSS Vertical configuration - four Verticals

Note: the dimensions between the HSS Verticals on the End Wall can vary from 12' oc to 18' oc for standard End Walls. Custom dimensions are available to suit requirements pending engineering approval.

Baseplate Layout

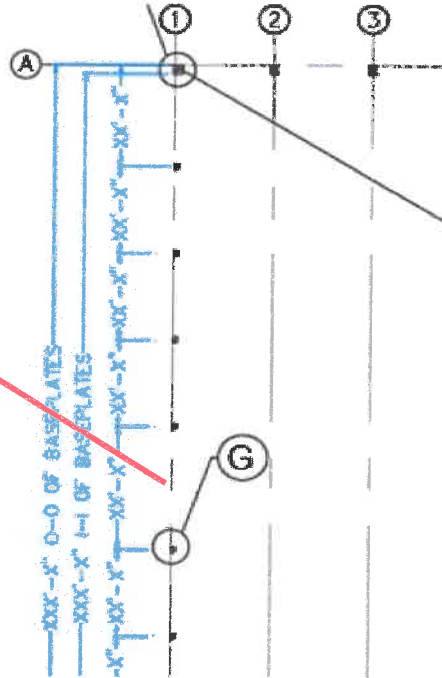
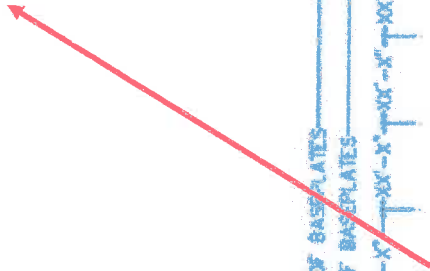
IMPORTANT: Refer to the building specific sealed structural drawing labelled "Baseplate Layout".

Determine the Anchor Bolt (not supplied) placement as per the Baseplate Layout and the Baseplate Details in the sealed structural drawings. Set anchor bolts as per the foundation engineers specifications.



Baseplate - End Wall

G.

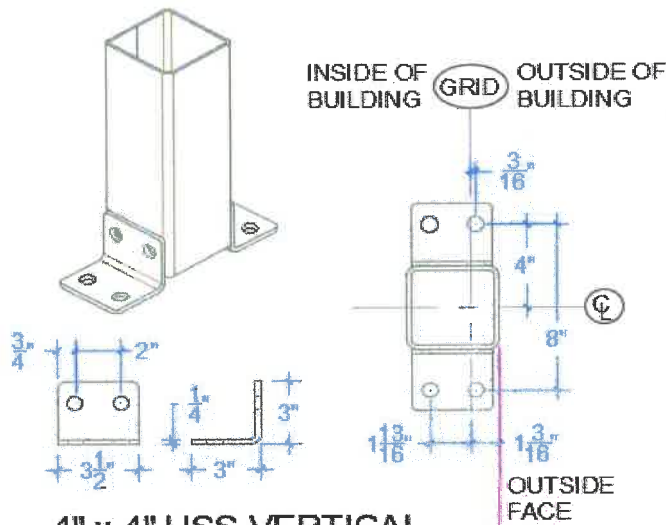


Typical Baseplate Layout on Structural drawing

Baseplate Layouts - End Wall HSS - Atlas 18 Buildings w 2 3/8" OD Truss Chords

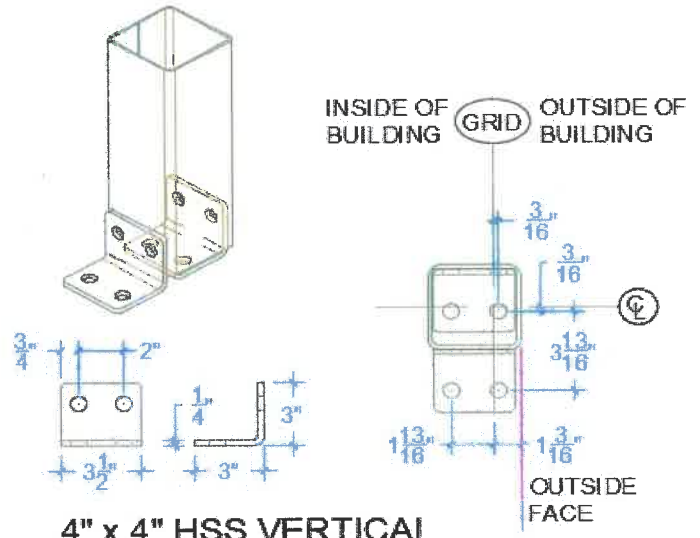
IMPORTANT: If available, refer to the building specific sealed structural drawing labelled "Baseplate Layout".

The Anchor Bolt placement for End Wall HSS Verticals is determined from the dimensions on the diagrams below. Refer to the Structural drawing or the End Wall Sign-off (ECT) drawing to determine the HSS sizes supplied for the building. Set anchor bolts as per the foundation engineers specifications.



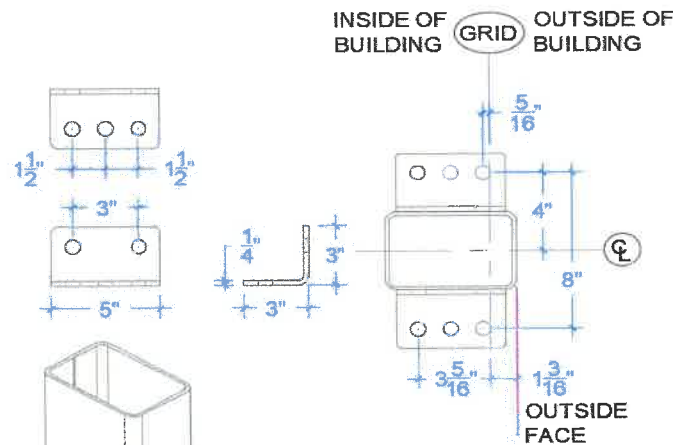
**4" x 4" HSS VERTICAL
BASEPLATE DETAIL**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2805



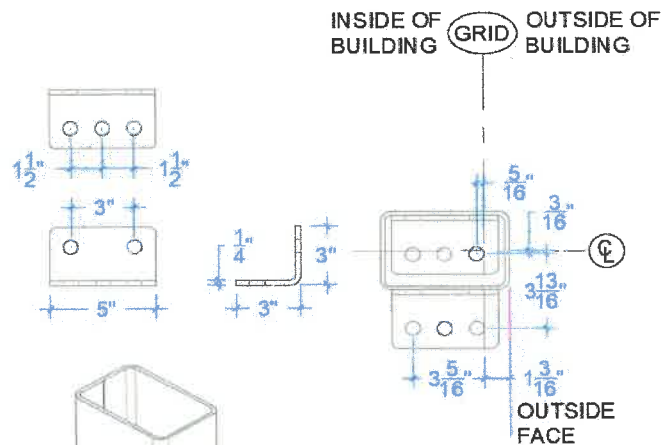
**4" x 4" HSS VERTICAL
DOOR FRAME**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2805



**6" x 4" HSS VERTICAL
BASEPLATE DETAIL**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2407



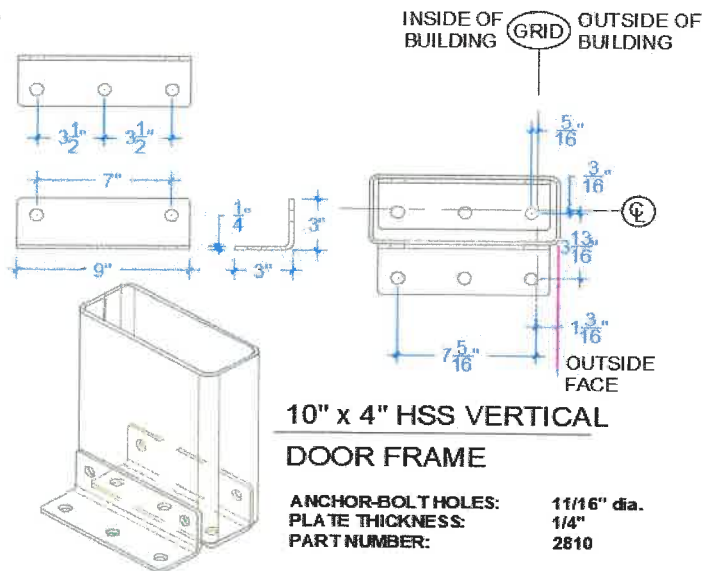
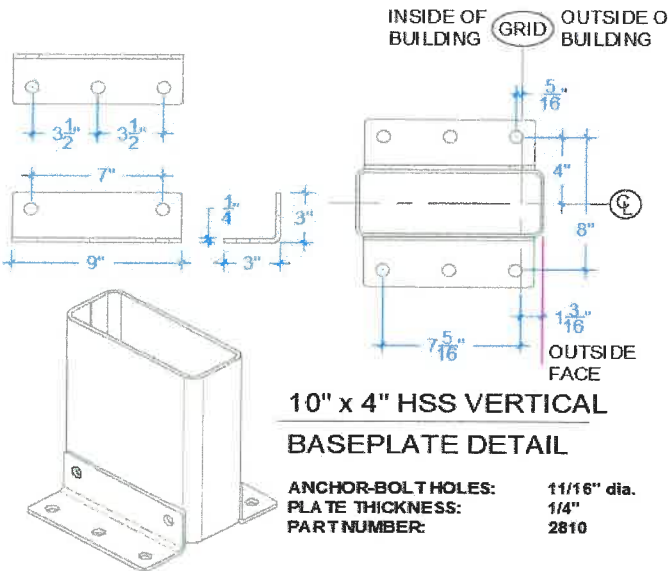
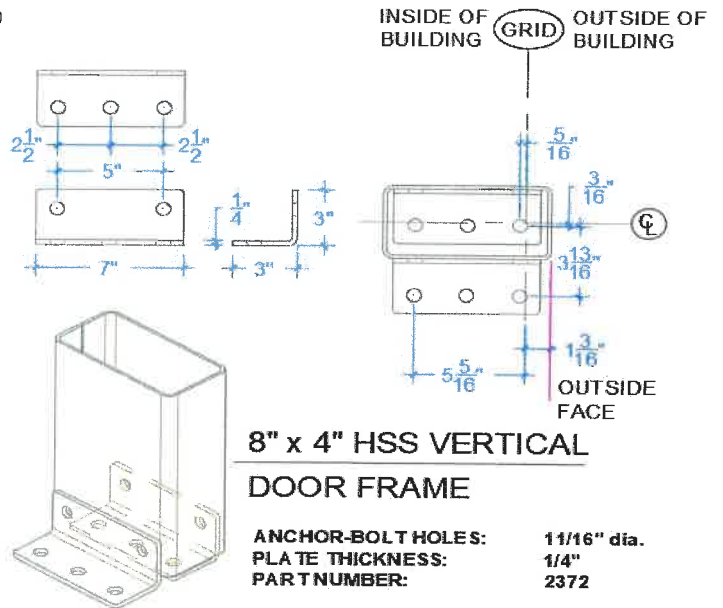
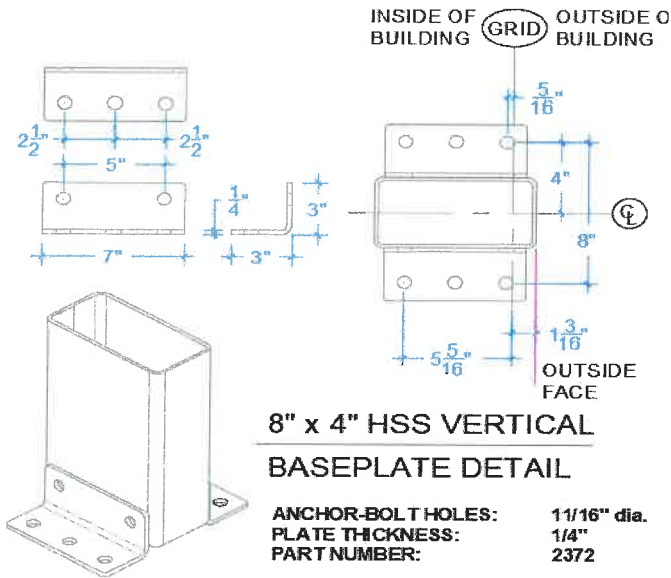
**6" x 4" HSS VERTICAL
DOOR FRAME**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2407

Baseplate Layouts - End Wall HSS - Atlas 18 Buildings w 2 3/8" OD Truss Chords

IMPORTANT: If available, refer to the building specific sealed structural drawing labelled "Baseplate Layout".

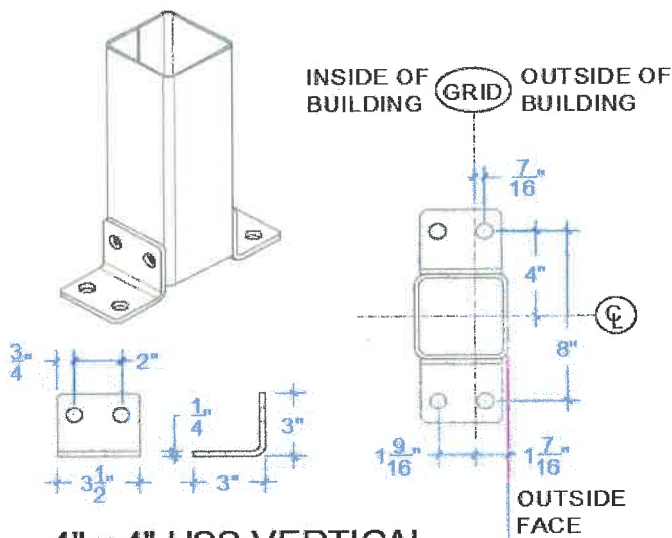
The Anchor Bolt placement for End Wall HSS Verticals is determined from the dimensions on the diagrams below. Refer to the Structural drawing or the End Wall Sign-off (ECT) drawing to determine the HSS sizes supplied for the building. Set anchor bolts as per the foundation engineers specifications.



Baseplate Layouts - End Wall HSS - Atlas 24 Buildings w 2 7/8" OD Truss Chords

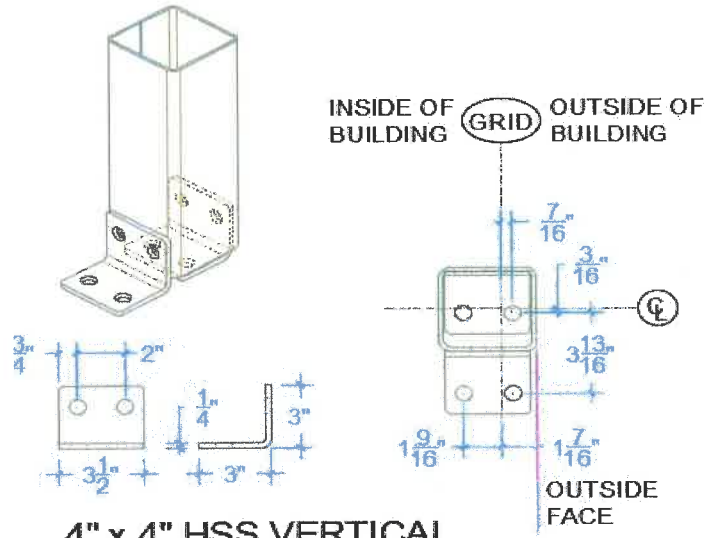
IMPORTANT: If available, refer to the building specific sealed structural drawing labelled "Baseplate Layout".

The Anchor Bolt placement for End Wall HSS Verticals is determined from the dimensions on the diagrams below. Refer to the Structural drawing or the End Wall Sign-off (ECT) drawing to determine the HSS sizes supplied for the building. Set anchor bolts as per the foundation engineers specifications.



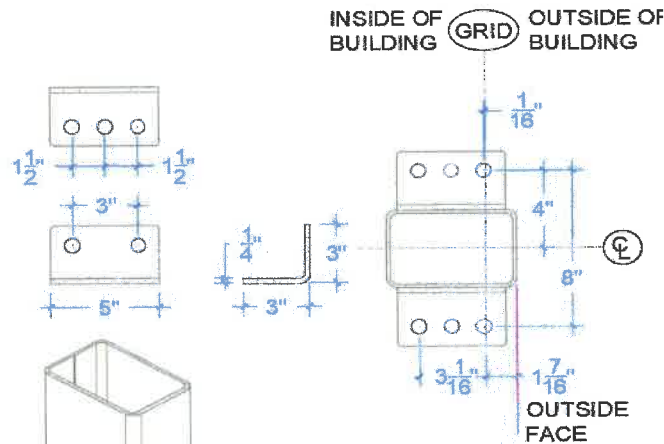
**4" x 4" HSS VERTICAL
BASEPLATE DETAIL**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2805



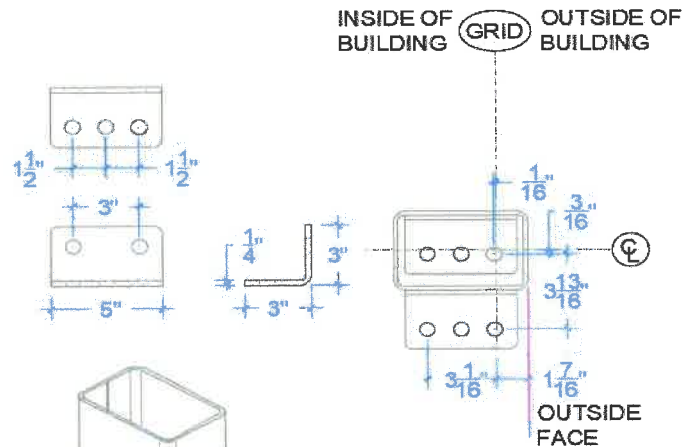
**4" x 4" HSS VERTICAL
DOOR FRAME**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2805



**6" x 4" HSS VERTICAL
BASEPLATE DETAIL**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2407



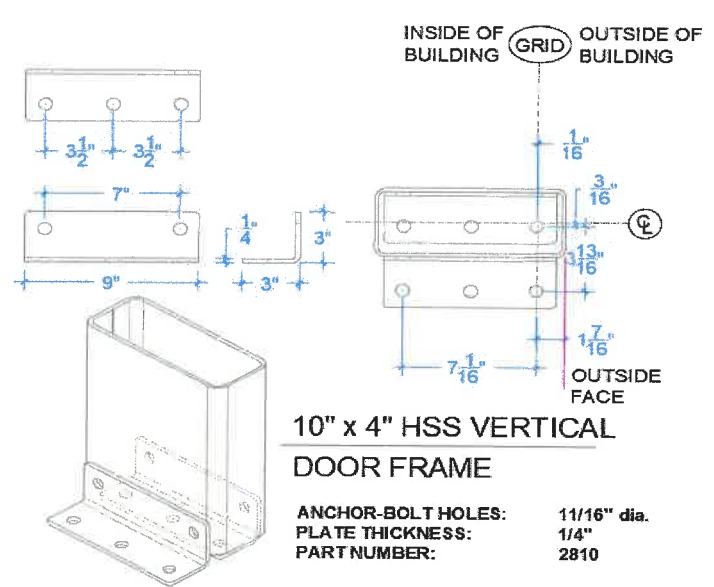
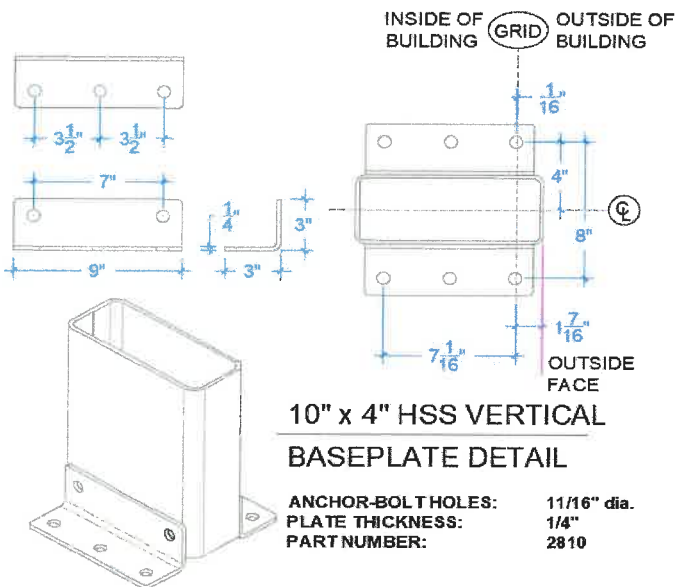
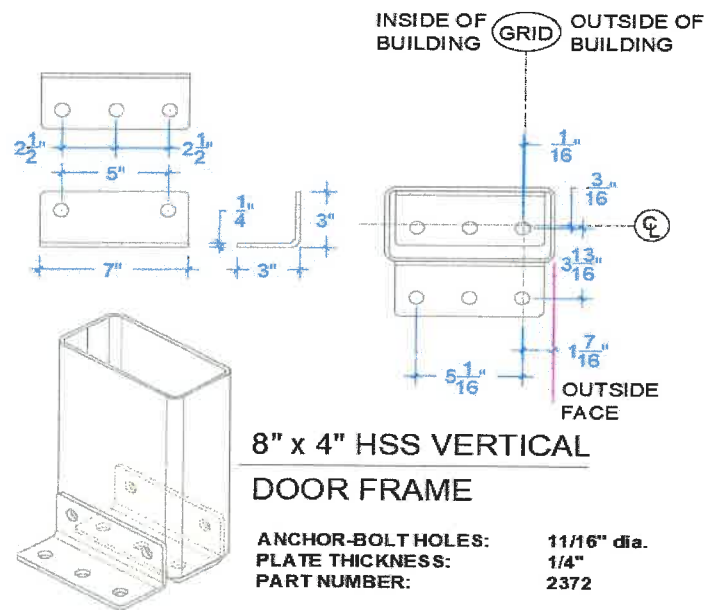
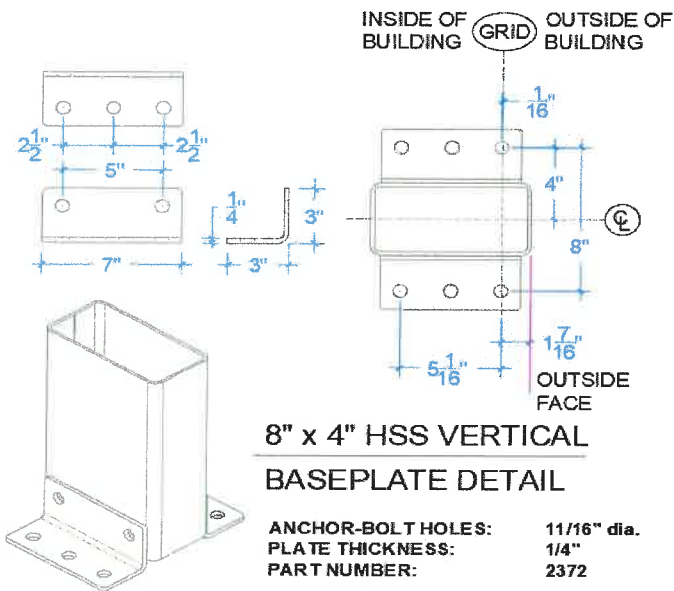
**6" x 4" HSS VERTICAL
DOOR FRAME**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2407

Baseplate Layouts - End Wall HSS - Atlas 24 Buildings w 2 7/8" OD Truss Chords

IMPORTANT: If available, refer to the building specific sealed structural drawing labelled "Baseplate Layout".

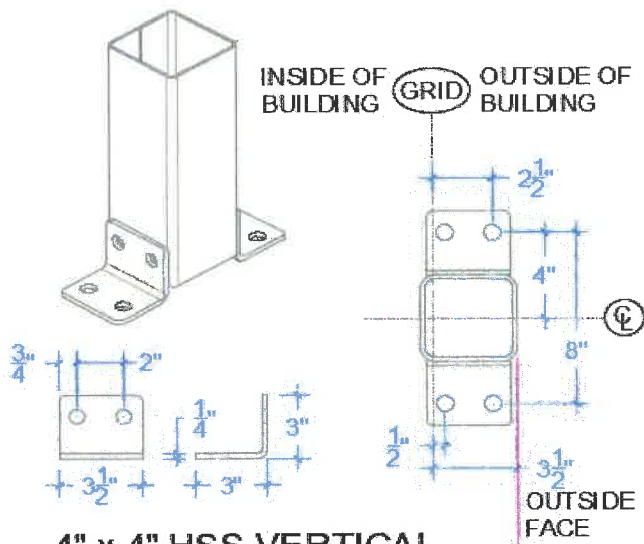
The Anchor Bolt placement for End Wall HSS Verticals is determined from the dimensions on the diagrams below. Refer to the Structural drawing or the End Wall Sign-off (ECT) drawing to determine the HSS sizes supplied for the building. Set anchor bolts as per the foundation engineers specifications.



Baseplate Layouts - End Wall HSS - Super Atlas Buildings w 3 1/2" OD Truss Chords

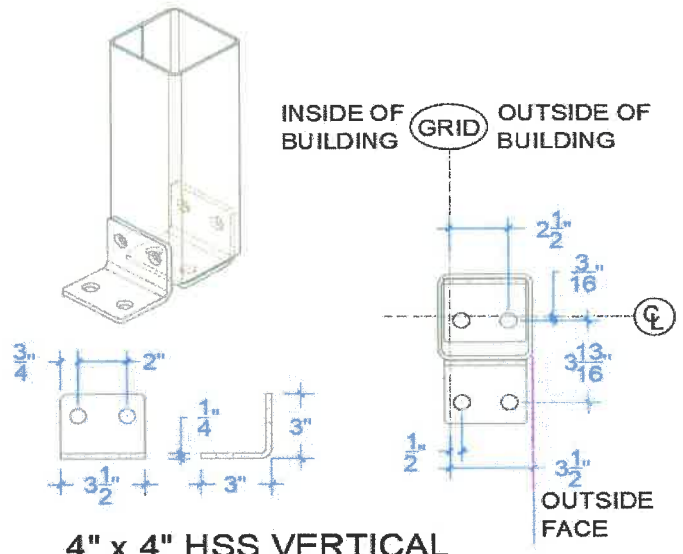
IMPORTANT: If available, refer to the building specific sealed structural drawing labelled "Baseplate Layout".

The Anchor Bolt placement for End Wall HSS Verticals is determined from the dimensions on the diagrams below. Refer to the Structural drawing or the End Wall Sign-off (ECT) drawing to determine the HSS sizes supplied for the building. Set anchor bolts as per the foundation engineers specifications.



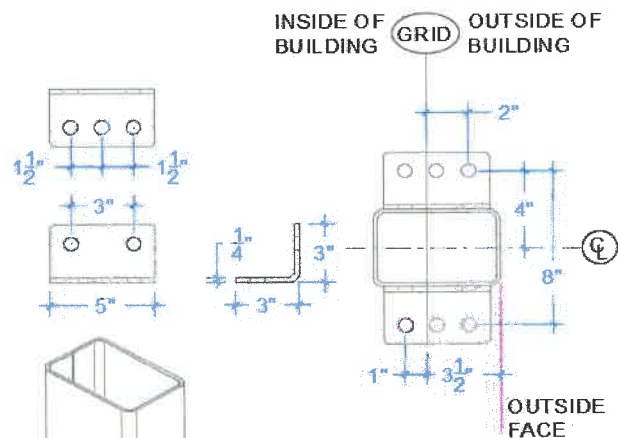
**4" x 4" HSS VERTICAL
BASEPLATE DETAIL**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2805



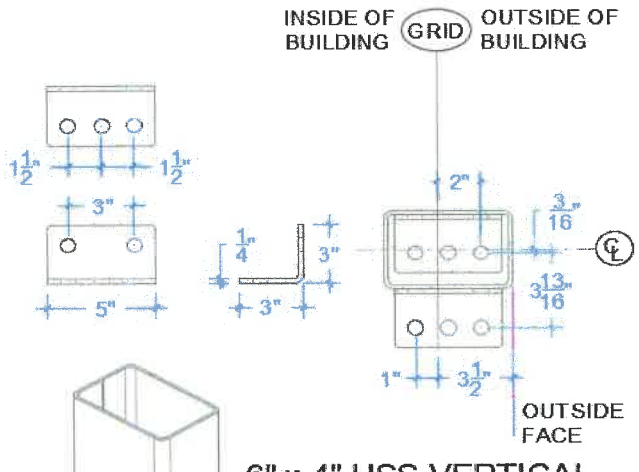
**4" x 4" HSS VERTICAL
DOOR FRAME**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2805



**6" x 4" HSS VERTICAL
BASEPLATE DETAIL**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2407



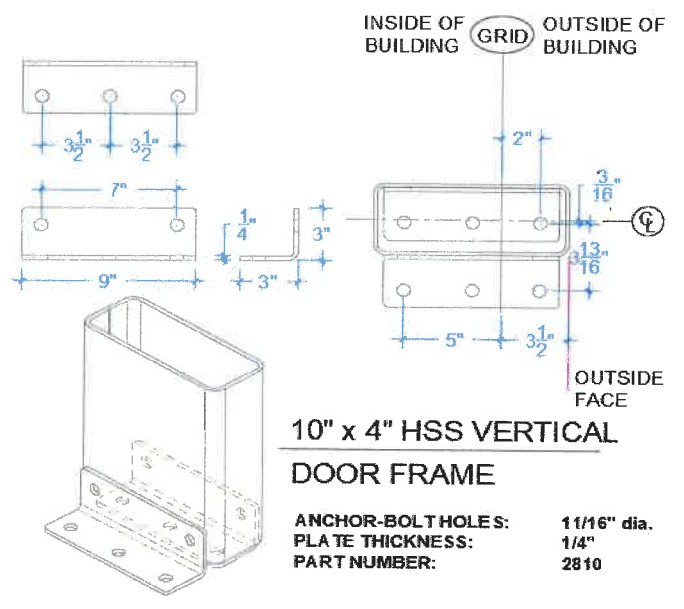
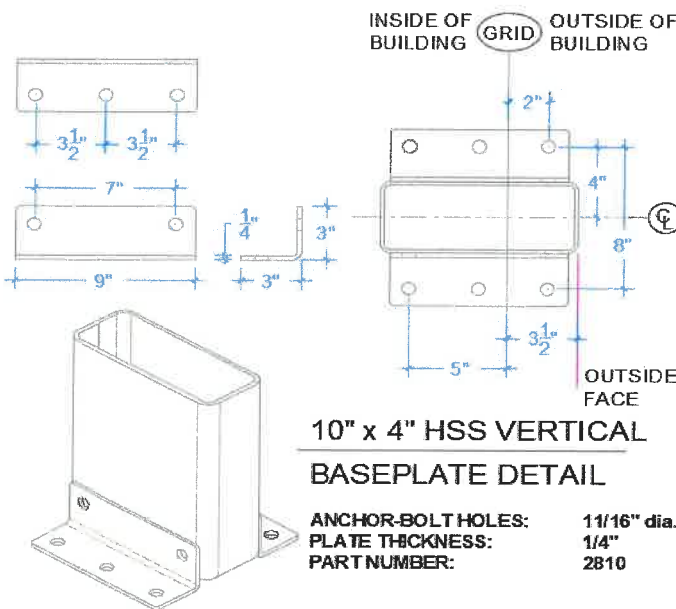
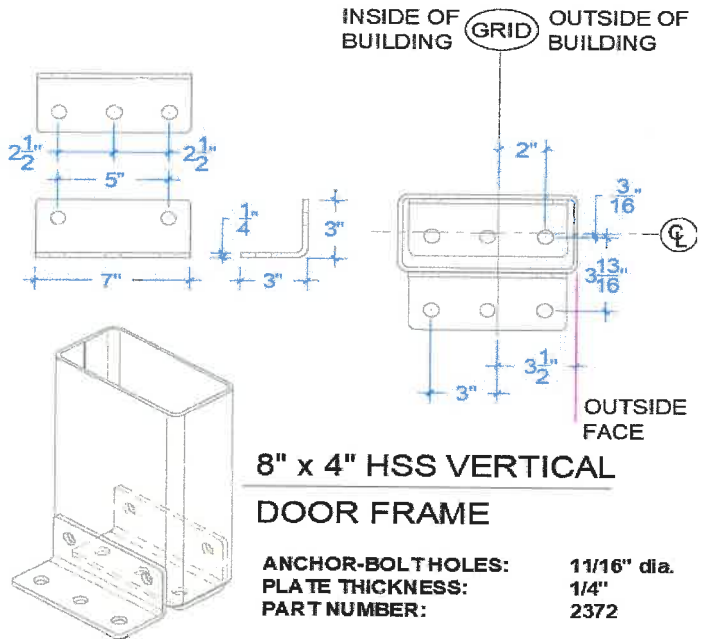
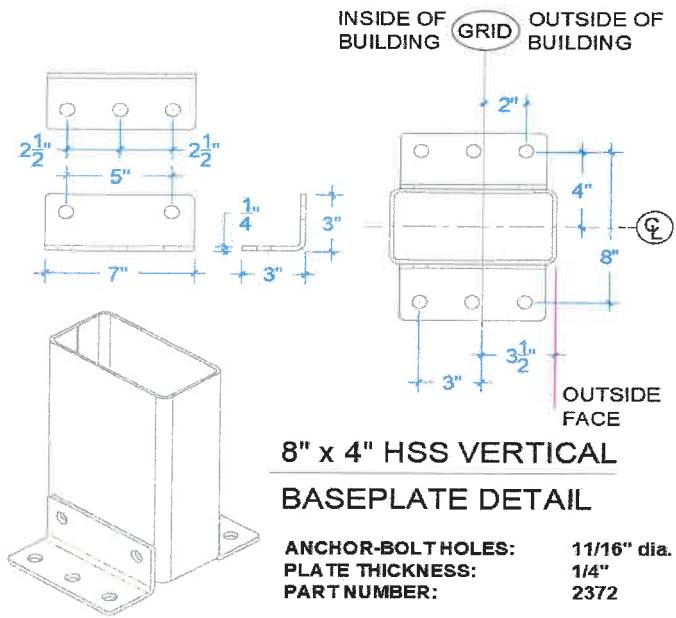
**6" x 4" HSS VERTICAL
DOOR FRAME**

ANCHOR-BOLT HOLES: 11/16" dia.
PLATE THICKNESS: 1/4"
PART NUMBER: 2407

Baseplate Layouts - End Wall HSS - Super Atlas Buildings w 3 1/2" OD Truss Chords

IMPORTANT: If available, refer to the building specific sealed structural drawing labelled "Baseplate Layout".

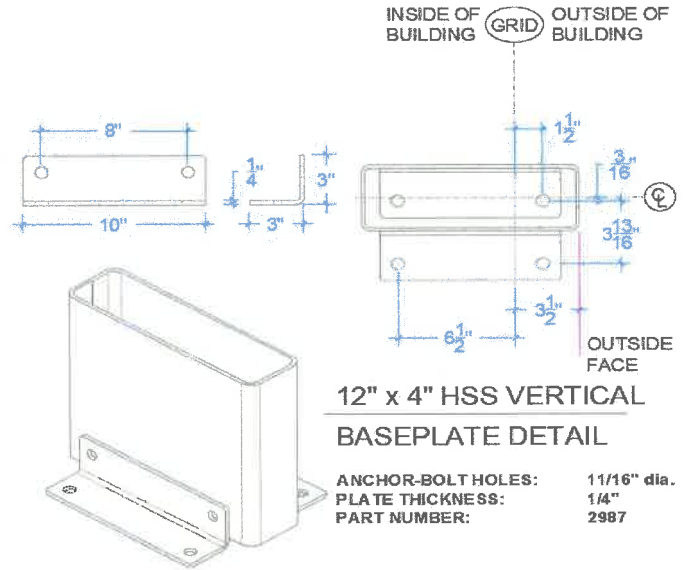
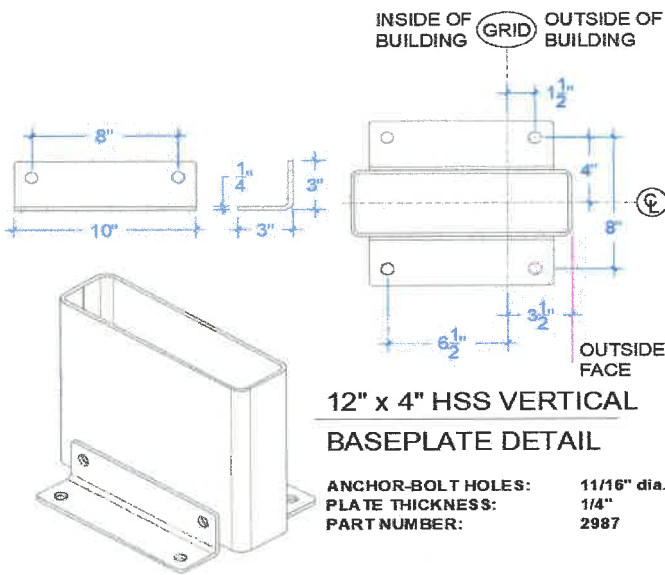
The Anchor Bolt placement for End Wall HSS Verticals is determined from the dimensions on the diagrams below. Refer to the Structural drawing or the End Wall Sign-off (ECT) drawing to determine the HSS sizes supplied for the building. Set anchor bolts as per the foundation engineers specifications.



Baseplate Layouts - End Wall HSS - Super Atlas Buildings w 3 1/2" OD Truss Chords

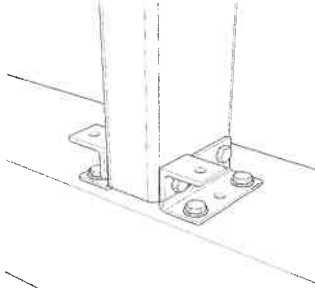
IMPORTANT: If available, refer to the building specific sealed structural drawing labelled "Baseplate Layout".

The Anchor Bolt placement for End Wall HSS Verticals is determined from the dimensions on the diagrams below. Refer to the Structural drawing or the End Wall Sign-off (ECT) drawing to determine the HSS sizes supplied for the building. Set anchor bolts as per the foundation engineers specifications.

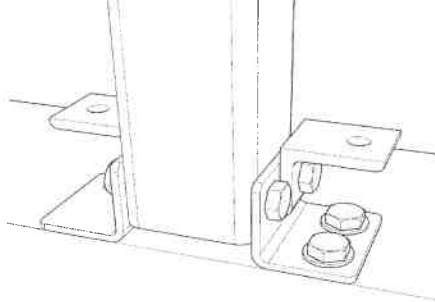


End Wall Component Connections

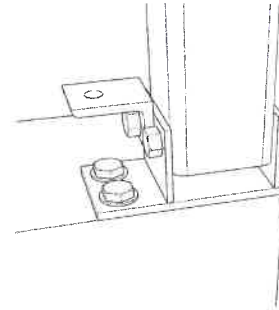
The diagrams below show the general configuration of the various End Wall component connections. The Part Numbers are noted on the drawings supplied with the building End Wall.



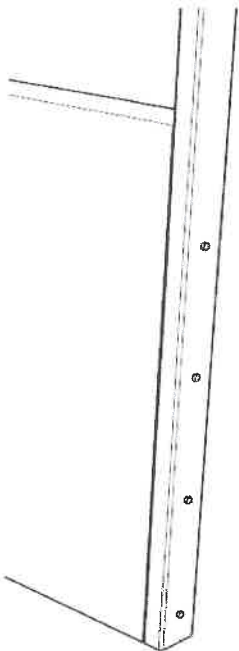
8" x 4" HSS Vertical typical End Wall installation with Block Winch Angle Mounts attached



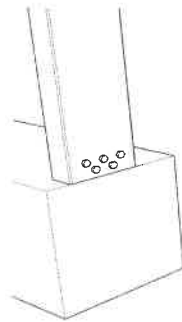
4" x 4" HSS Vertical typical End Wall installation with Block Winch Angle Mounts attached



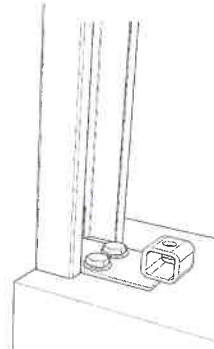
4" x 4" HSS Vertical alternate End Wall installation with Offset Baseplate and Block Winch Angle Mount attached - typically used adjacent to a door or opening



8" x 4" HSS Vertical alternate End Wall installation - typically used adjacent to a door or opening on a high concrete wall



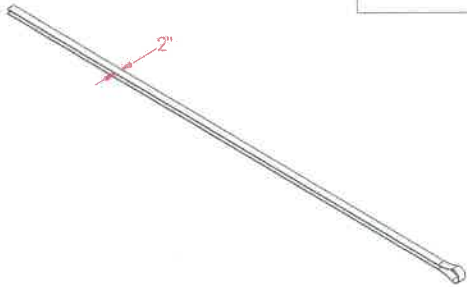
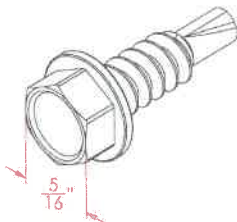
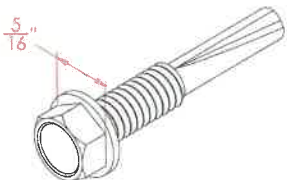
Cee Channel Personnel Door typical End Wall installation with Block Winch Angle Mounts attached



Note the typical orientation of the HSS and Cee Channel in these diagrams.

Building Components

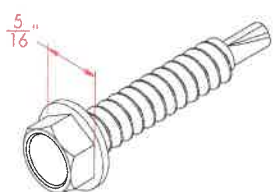
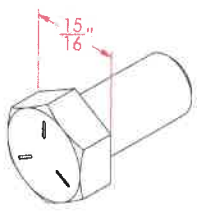
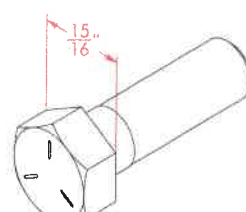
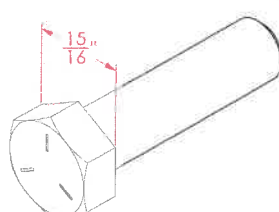
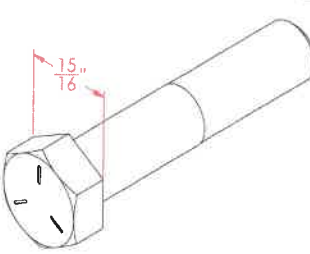
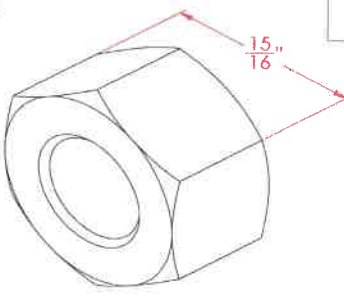
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p>3.0lbs</p> <p>405</p>  <p>TIE DOWN STRAP - 2" x 6'- NOT SEWN</p>	
<p>0.0lbs</p> <p>603</p>  <p>TEK 3-1/4"- #12-14 X 3/4" COARSE THREAD- ITX BUILDEX</p>	<p>0.0lbs</p> <p>454</p>  <p>TEK 5- #12-24 X 1-1/4" FINE THREAD</p>

Part number noted in upper right corner when available.

Building Components (continued)

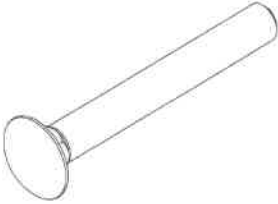
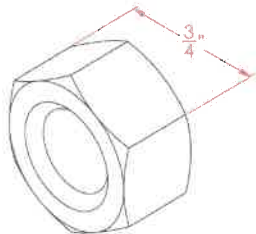
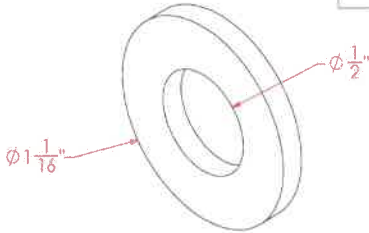
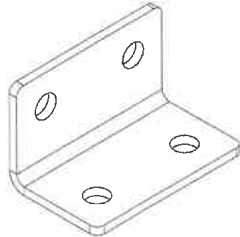
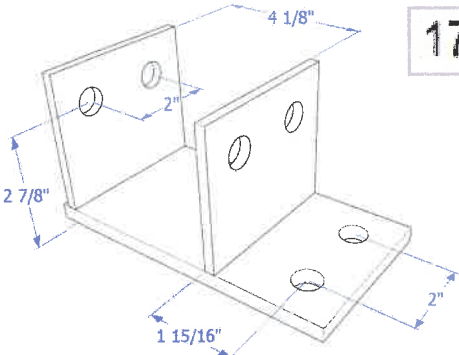
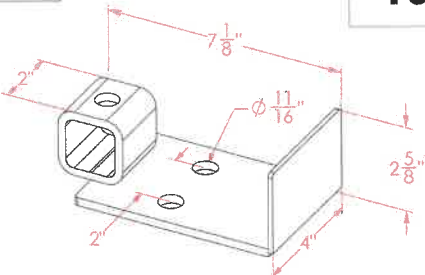
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p>0.0lbs</p> <p>455</p>  <p>TEK 3- #12-14 X 1-1/4" COARSE THREAD</p>	<p>0.2lbs</p> <p>432</p>  <p>HEX BOLT- 5/8\"-11NC X 1-1/4\" LG- GR 5</p>
<p>0.3lbs</p> <p>433</p>  <p>HEX BOLT 5/8\"-11 NC X 2\" LG</p>	<p>0.0lbs</p> <p>435</p>  <p>HEX BOLT 5/8\"-11 X 2-1/2\" LG</p>
<p>0.3lbs</p> <p>434</p>  <p>HEX BOLT- 5/8\"-11NC X 3\" LG- GR 5</p>	<p>0.1lbs</p> <p>451</p>  <p>NUT 5/8\"-11 NC</p>

Part number noted in upper right corner when available.

Building Components (continued)

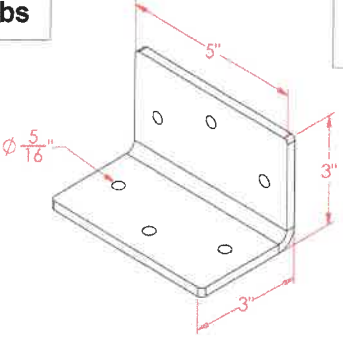
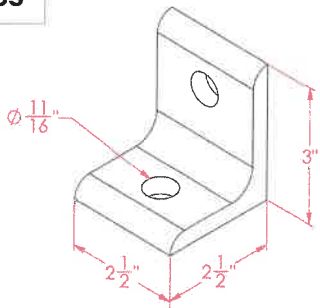
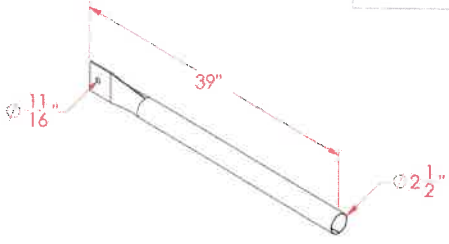
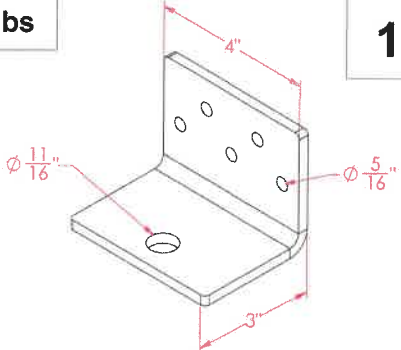
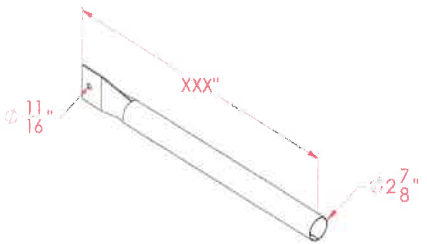
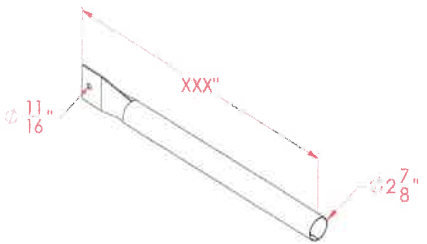
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p>0.3lbs</p> <p>448</p>  <p>CARRIAGE BOLT- 1/2-13 NC X 4" LG</p>	<p>0.0lbs</p> <p>449</p>  <p>NUT- 1/2"-13 NC</p>
<p>0.02lbs</p> <p>450</p>  <p>WASHER- 1/2" FLAT</p>	 <p>HEADER/ BASE ANGLE</p>
 <p>178</p> <p>4"x4"/6" HSS VERTICAL OFFSET BASEPLATE</p>	<p>2.91lbs</p> <p>196</p>  <p>BRKT- C-CHANNEL DOOR JAMB BASE</p>

Part number noted in upper right corner when available.

Building Components (continued)

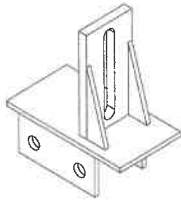
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

<p>2.0lbs</p>  <p>194</p> <p>BRKT - C-CHANNEL ANGLE</p>	<p>1.3lbs</p>  <p>228</p> <p>BRKT-WINCH MOUNT- 3" X 2 1/2" X 2 1/2"</p>
<p>6.9lbs</p>  <p>1529</p> <p>ESS HORIZONTAL- 2-1/2" DIA.- 14GA- PRE-GALV- 39"</p>	<p>1.5lbs</p>  <p>195</p> <p>BRKT - 3 X 3 X 4 HORIZONTAL ANGLE & C-CHANNEL/HEADER</p>
<p>1531</p>  <p>ESS HORIZONTAL- 2-7/8" DIA.- 14GA- PRE-GALV- XXX"</p>	<p>1531</p>  <p>ESS HORIZONTAL- 2-7/8" DIA.- 14GA- PRE-GALV- XXX"</p>

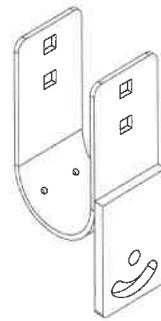
Part number noted in upper right corner when available.

Building Components (continued)

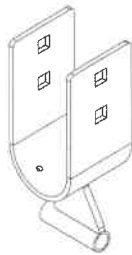
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.



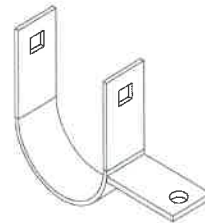
BRKT - TOP PLATE FOR HSS



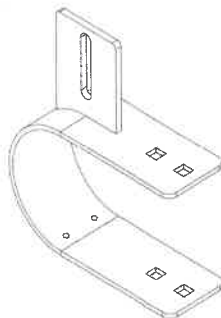
BRKT - HSS TOP SADDLE



BRKT - HSS COMPLETE TOP SADDLE



BRKT - HORIZONTAL SADDLE WITH TAB


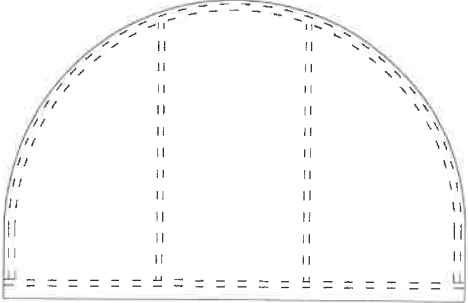
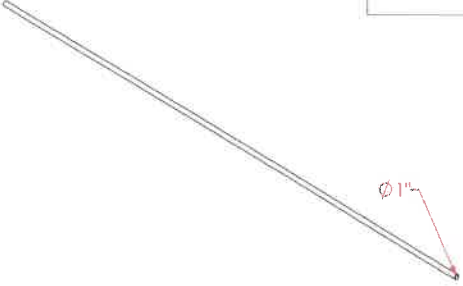

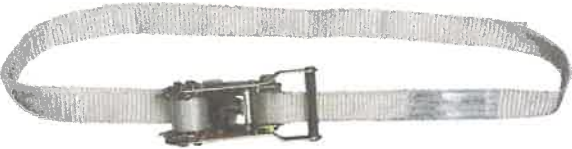



BRKT - HORIZONTAL SADDLE WITH C-CHANNEL TAB

Part number noted in upper right corner when available.

Building Components (continued)


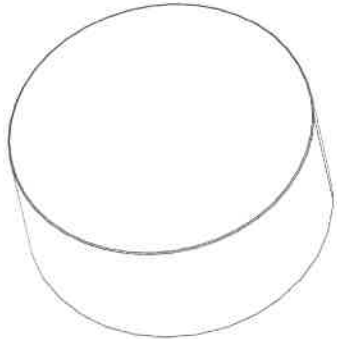
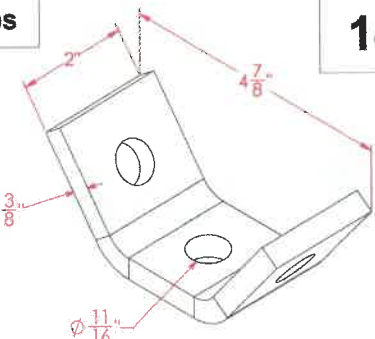
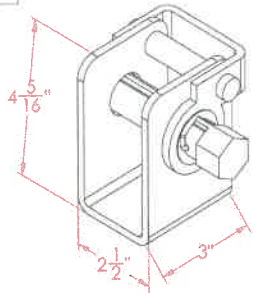
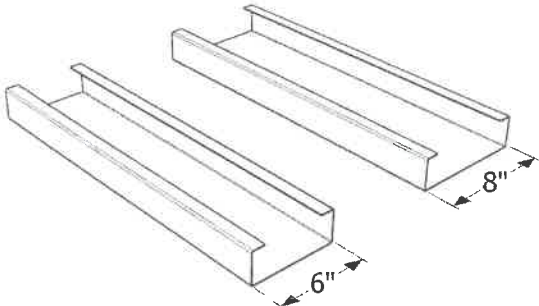
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

 <p>GENESIS- ROOF COVER FABRIC PANEL</p>	 <p>ATLAS END WALL COVER</p>
<p>1.7lbs</p> <p>418</p>  <p>PVC TUBE- 1" WHITE</p>	<p>0.0lbs</p> <p>414</p>  <p>CAMBUCKLE- 1" X 36"</p>
<p>0.0lbs</p> <p>415</p>  <p>RATCHET- 1" RATCHET- WITH 1" X 6' STRAP</p>	<p>0.0lbs</p> <p>413</p>  <p>BELTING - 1"X100' ROLL</p>

Part number noted in upper right corner when available.

Building Components (continued)

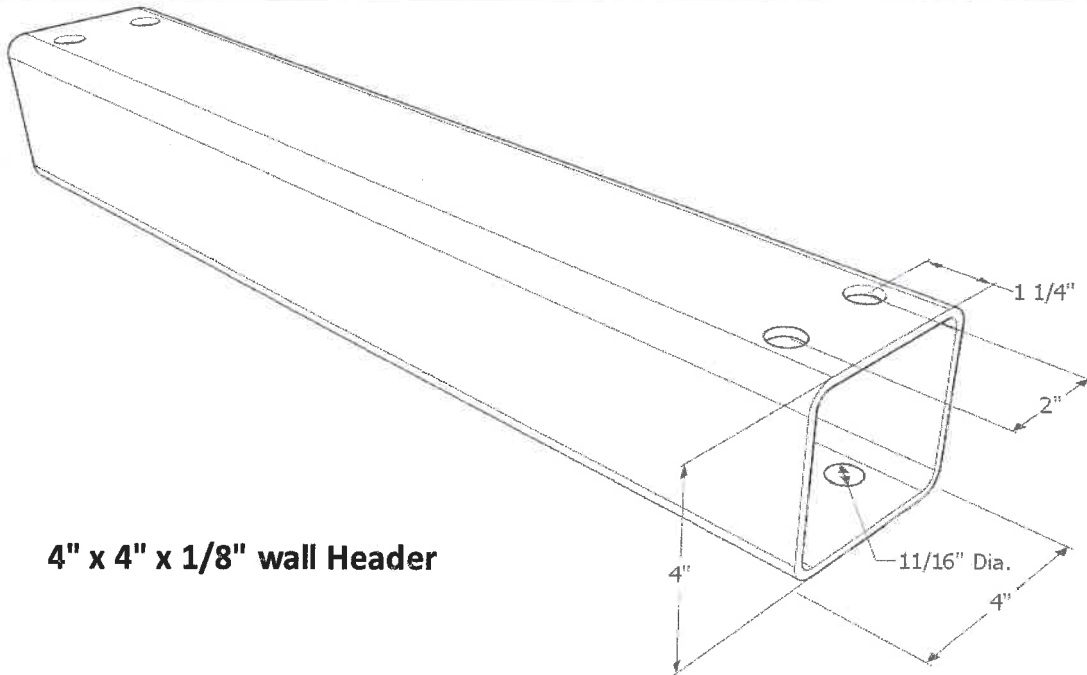
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.

 <p>FASTENING TUBE</p>	 <p>PLASTIC FASTENING TUBE CAP</p>
<p>1.2lbs</p> <p>149</p>  <p>BRKT - CROSS CABLE DOUBLE TAB</p>	<p>3.6lbs</p> <p>318R/ 319L</p>  <p>LASHING WINCH- RIGHT/LEFT HAND- 3" X 2 1/2" X 4 5/16"</p>
	 <p>CEE CHANNEL</p>

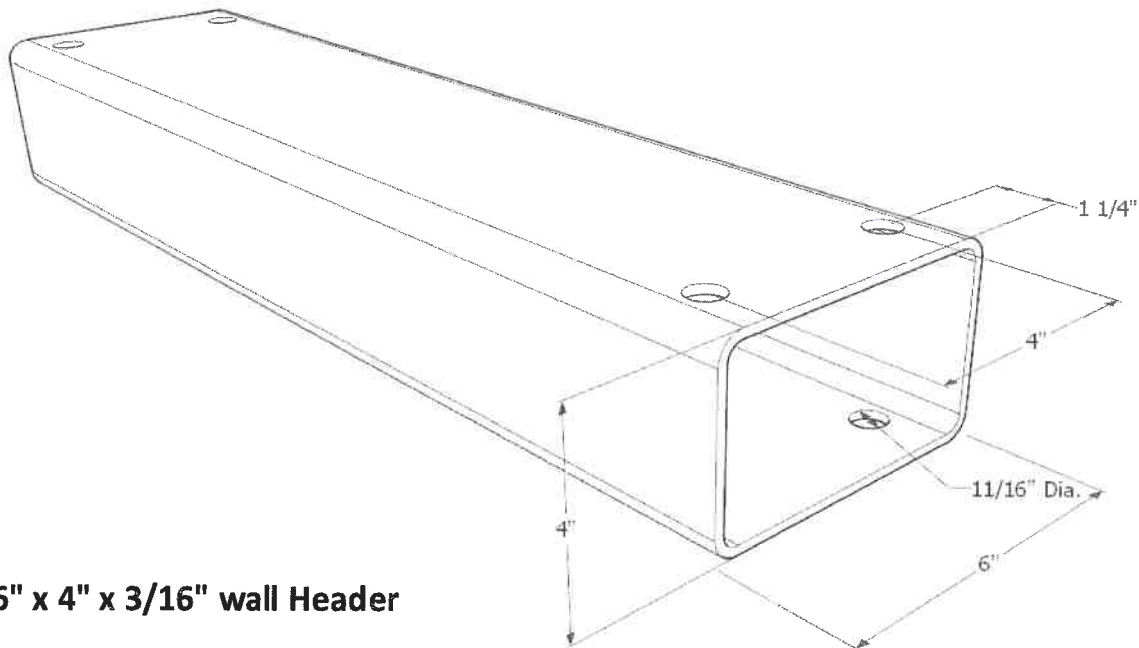
Part number noted in upper right corner when available.

Building Components (continued)

Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.



4" x 4" x 1/8" wall Header

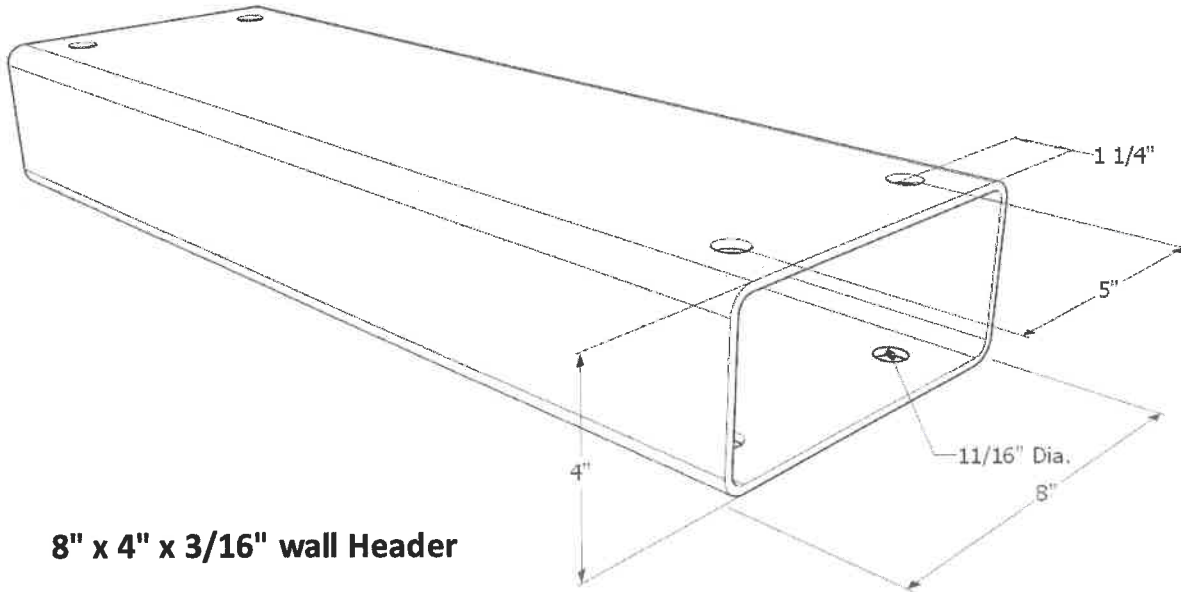


6" x 4" x 3/16" wall Header

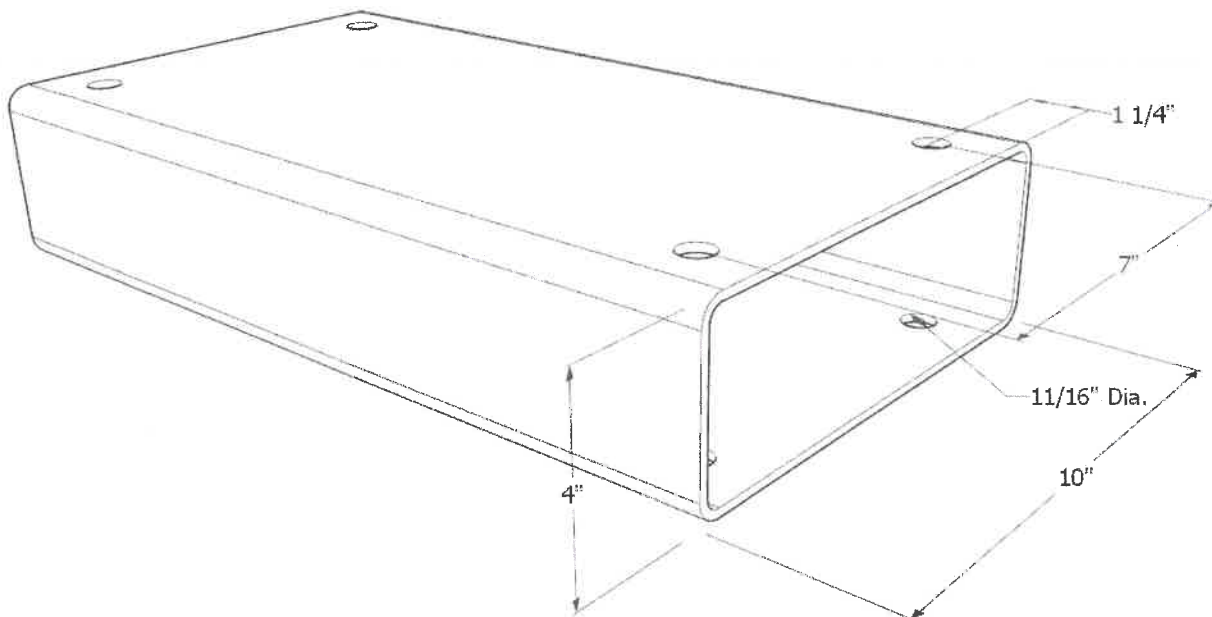
Part number noted in upper right corner when available.

Building Components (continued)

Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.



8" x 4" x 3/16" wall Header

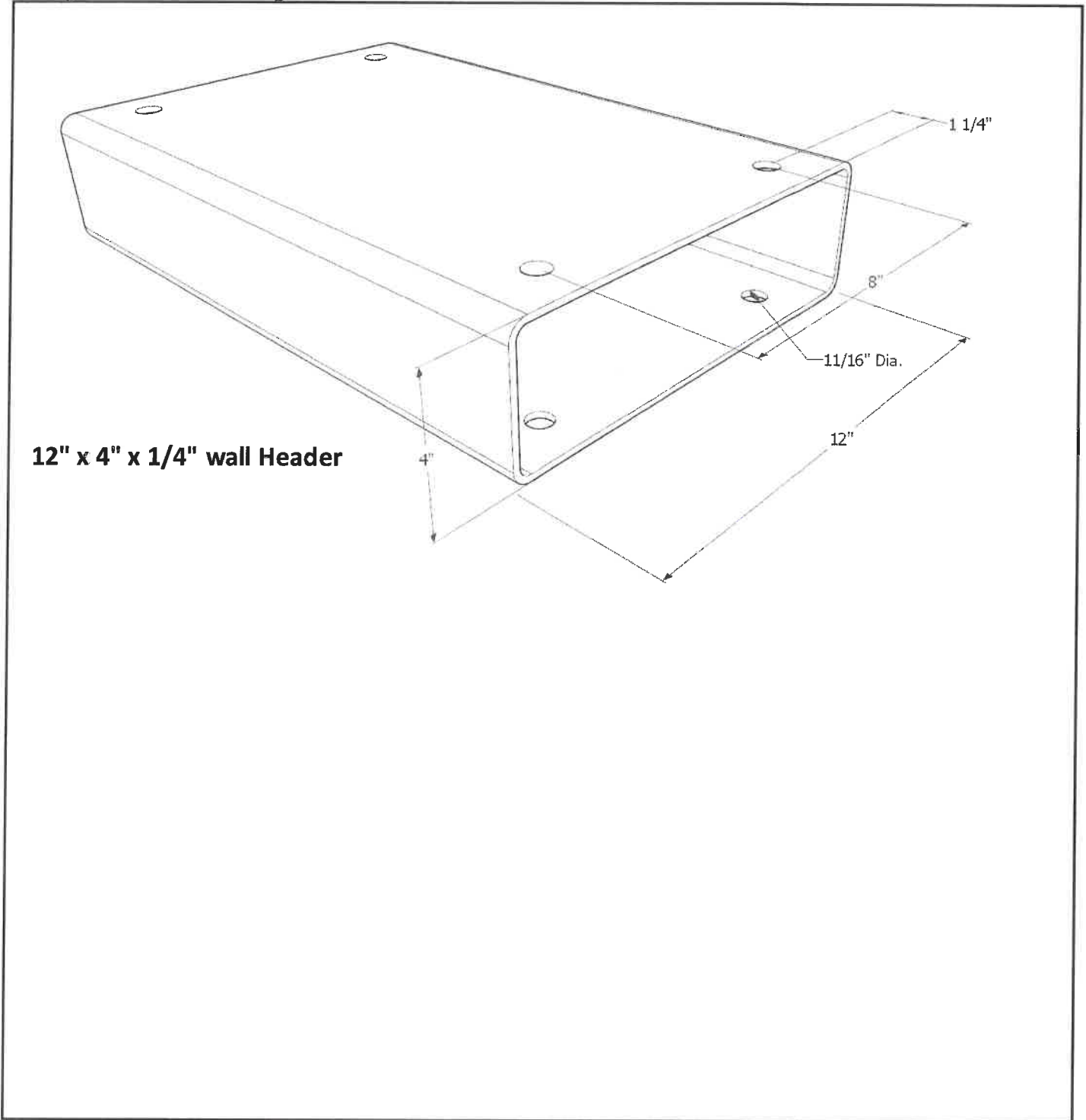


10" x 4" x 1/4" wall Header

Part number noted in upper right corner when available.

Building Components (continued)

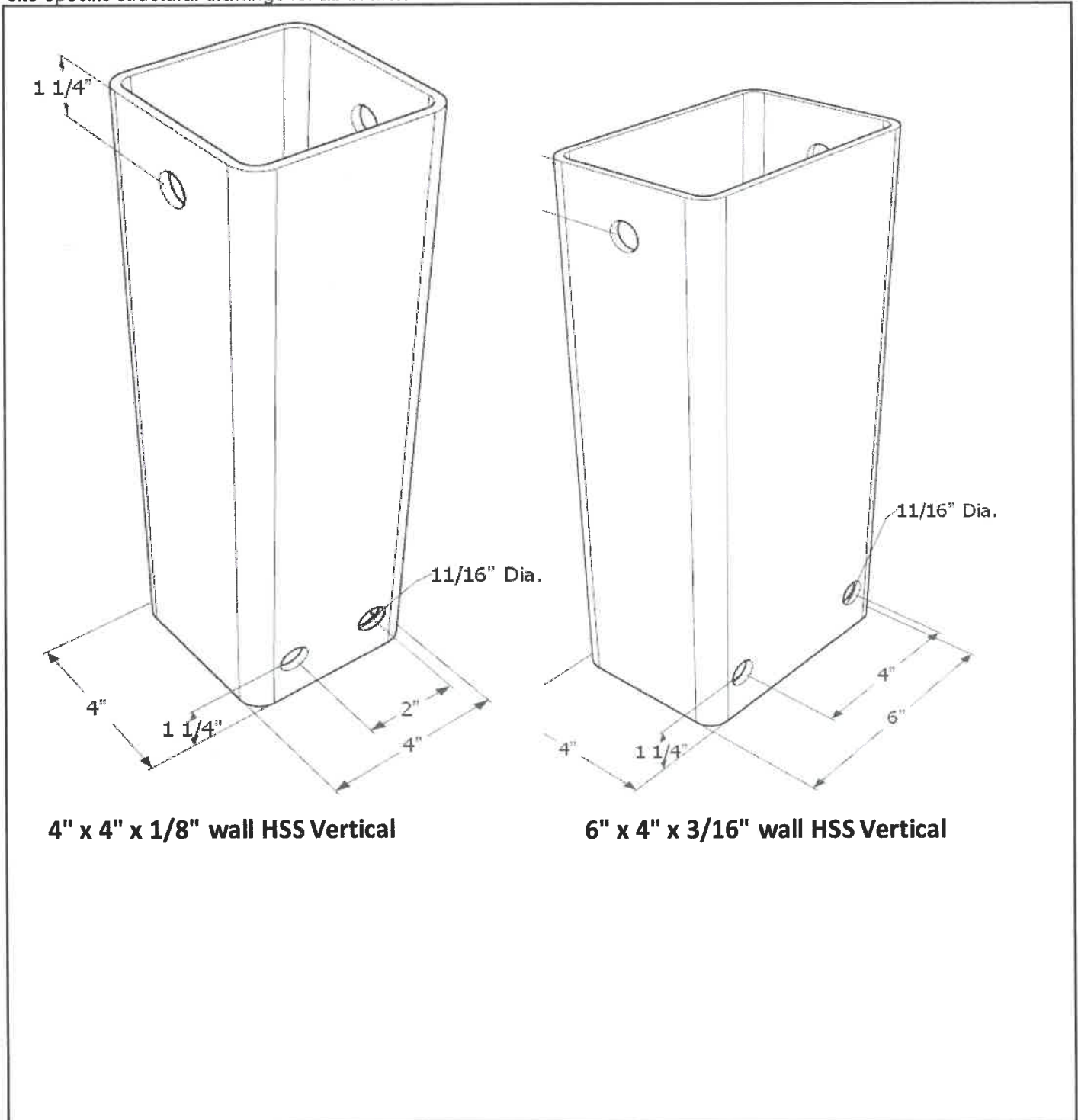
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.



Part number noted in upper right corner when available.

Building Components (continued)

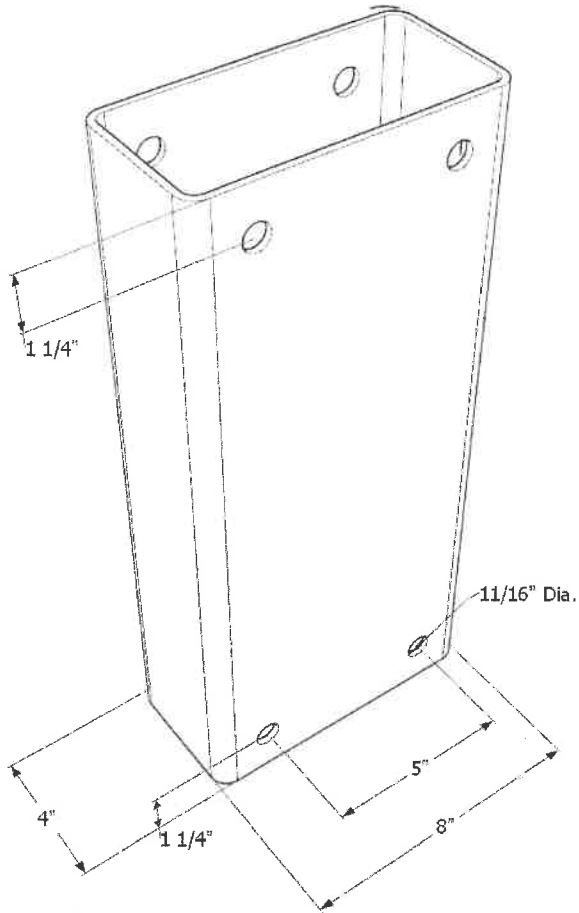
Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.



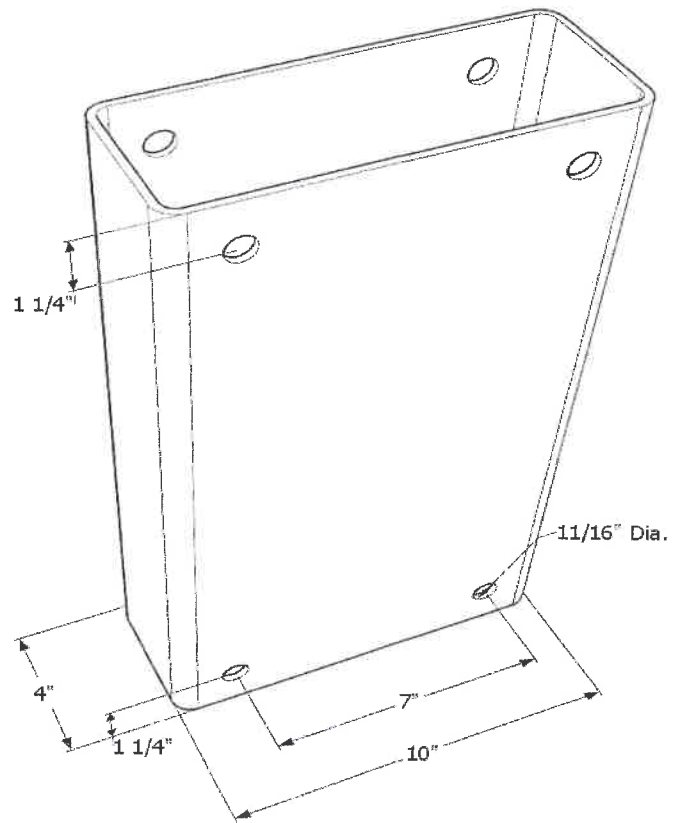
Part number noted in upper right corner when available.

Building Components (continued)

Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.



8" x 4" x 3/16" wall HSS Vertical

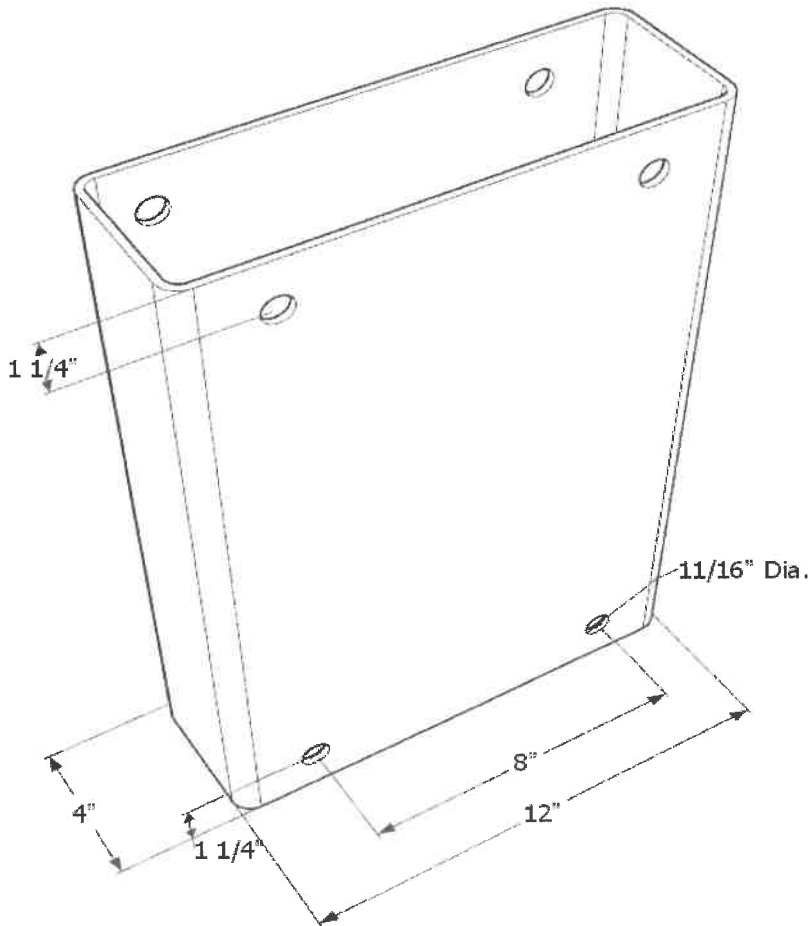


10" x 4" x 1/4" wall HSS Vertical

Part number noted in upper right corner when available.

Building Components (continued)

Upon receipt of the building package, ensure the following components are included. Check all items and quantities to your packing list. Some exceptions will apply due to the customization of the individual building. Always refer to the site specific structural drawings for all details.



12" x 4" x 1/4" wall HSS Vertical

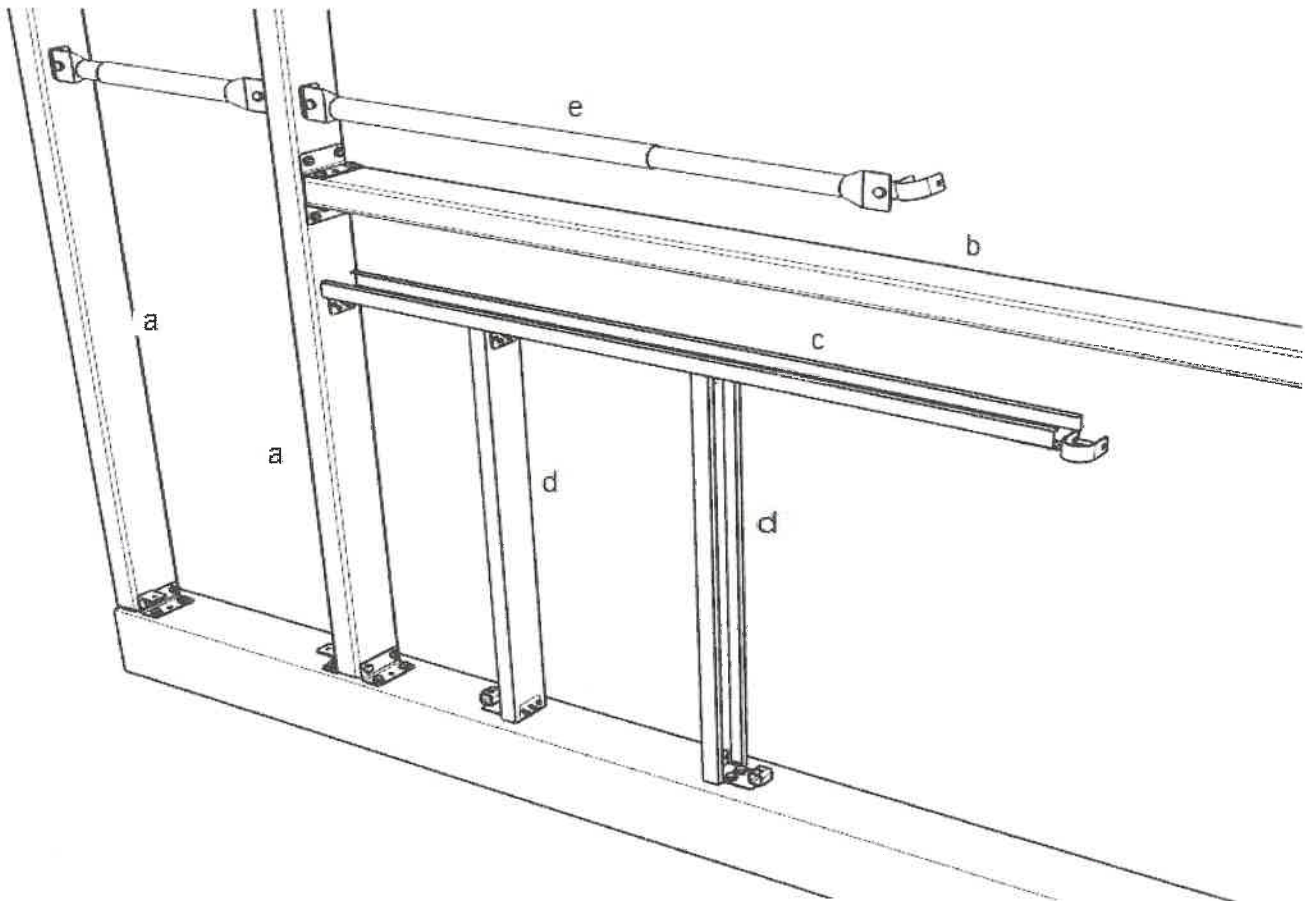
Part number noted in upper right corner when available.

End Wall HSS Installation

IMPORTANT: Refer to the building specific sealed structural drawing labelled "End Wall Layout"

- a. HSS Vertical.
- b. HSS Header.
- c. Cee Channel Door Header.
- d. Cee Channel Door Framing.
- e. HZ.

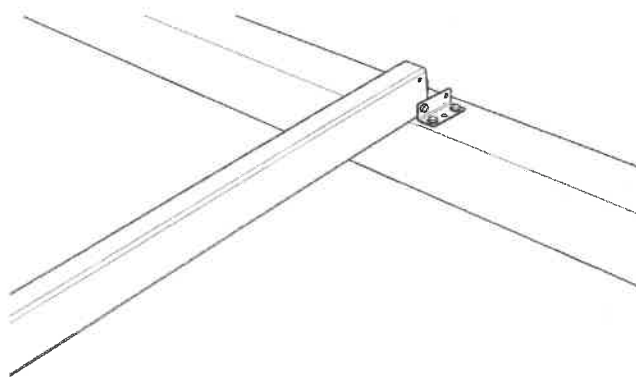
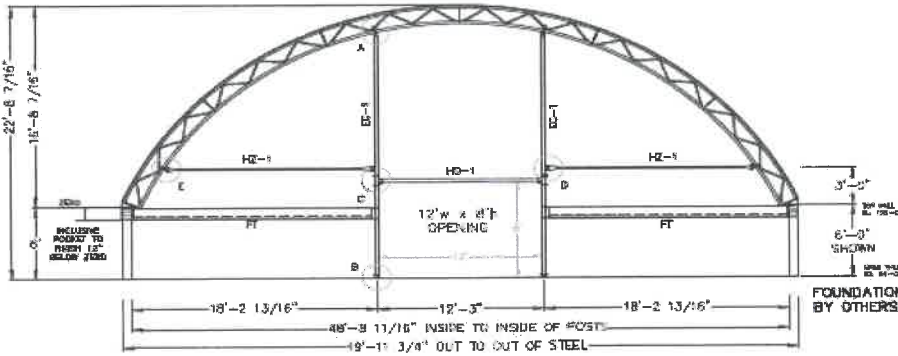
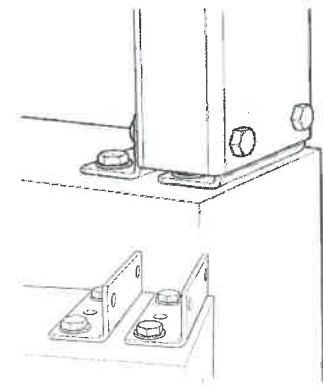
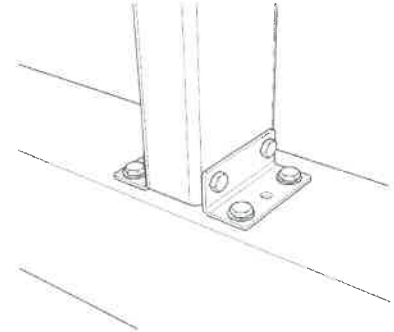
Assembly details shown on the following pages of this Manual.



End Wall HSS Installation

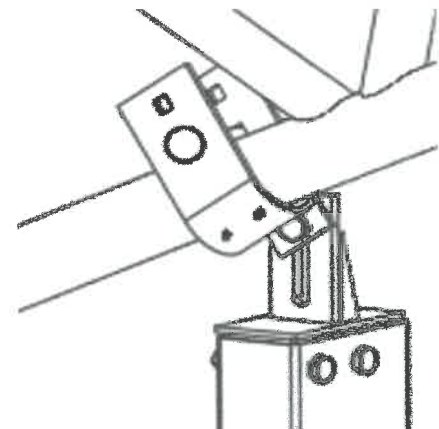
IMPORTANT: Refer to the building specific sealed structural drawing labelled "End Wall Layout"

1. Install the HSS Vertical Base Brackets following the dimensions on the End Wall and Baseplate Layout pages on the above noted Structural drawings.
2. For an HSS Vertical as part of a Door Frame, install the HSS Vertical Base Brackets as shown to allow for door clearance.
3. Sort and lay out the HSS Vertical sections as specified on the End Wall and Baseplate Layout pages on the Structural drawings.



4. Place the HSS Vertical into the Base Brackets. If preferred, the base plates are designed to allow a tip-up installation.

5. Attach the Top Bracket loosely to the HSS Vertical. Attach the Saddle Bracket to the lower Truss Chord. Move the HSS Vertical into position and connect the Top Bracket and the Saddle Bracket to each other with the specified bolts and nuts. See Structural drawing detail pages for bolt and nut callouts.



6. Plumb the HSS Vertical and tighten the Top Bracket bolts to secure the Saddle to the Lower Chord of the Truss and the Top Bracket to the HSS Vertical.

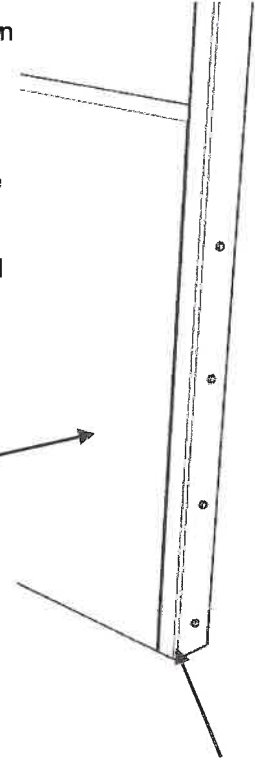
End Wall HSS Installation (continued)

IMPORTANT: Refer to the building specific sealed structural drawing labelled "End Wall Layout"

7. HSS Vertical installed as part of a door frame with the HSS extending down to grade as opposed to finishing at the top of the foundation.
8. Anchor bolts into the foundation as specified by the Foundation Engineer.
9. Note: the holes in the HSS for the anchor bolts will need to be drilled in the field to suit field specific installation requirements.
10. The bottom edge of the HSS may also need to be field trimmed to suit final floor elevation.

End Wall Concrete
Foundation

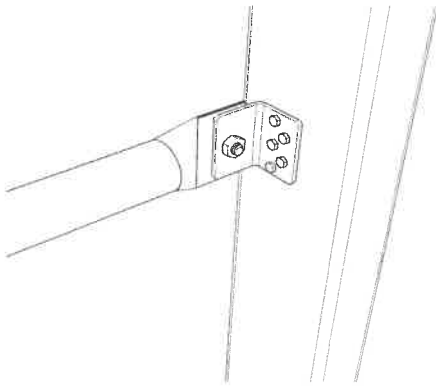
HSS Vertical



End Wall HSS Installation (continued)

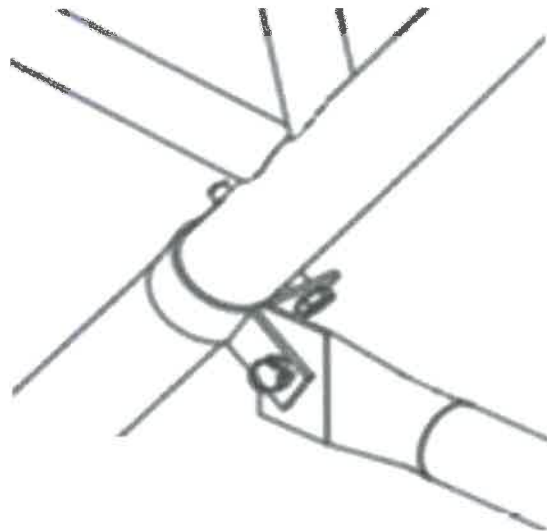
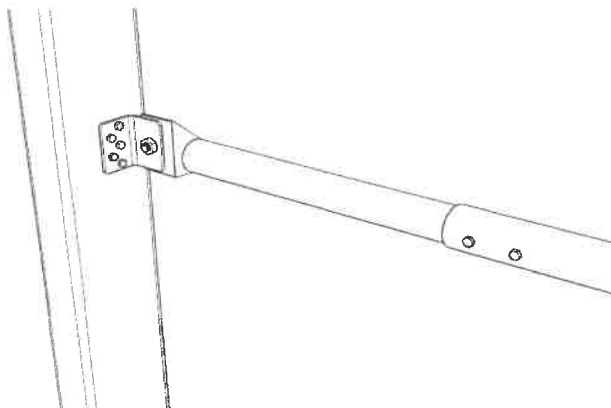
IMPORTANT: Refer to the building specific sealed structural drawing labelled "End Wall Layout"

7. Install the HSS Header Angle Brackets locating the Header at the correct elevation for the door or opening.
Note: Door supplier will specify the correct elevation for the specific door supplied.
8. The 11/16" dia. holes for the Header Angle Bracket bolts will need to be drilled thru the HSS Vertical on site to accommodate any variation in final floor elevation.
9. The bolt holes in the HSS Header are pre-drilled at the factory for ease of installation.



10. Install the HZ Angle with five TEK5 screws in the locations shown on the Structural drawings. Locate the Angle 1 1/2" - 1 5/8" from the outside face of the HSS Vertical. This locates the HZ tube flush or slightly inside the inner surface of the End Wall Cover.

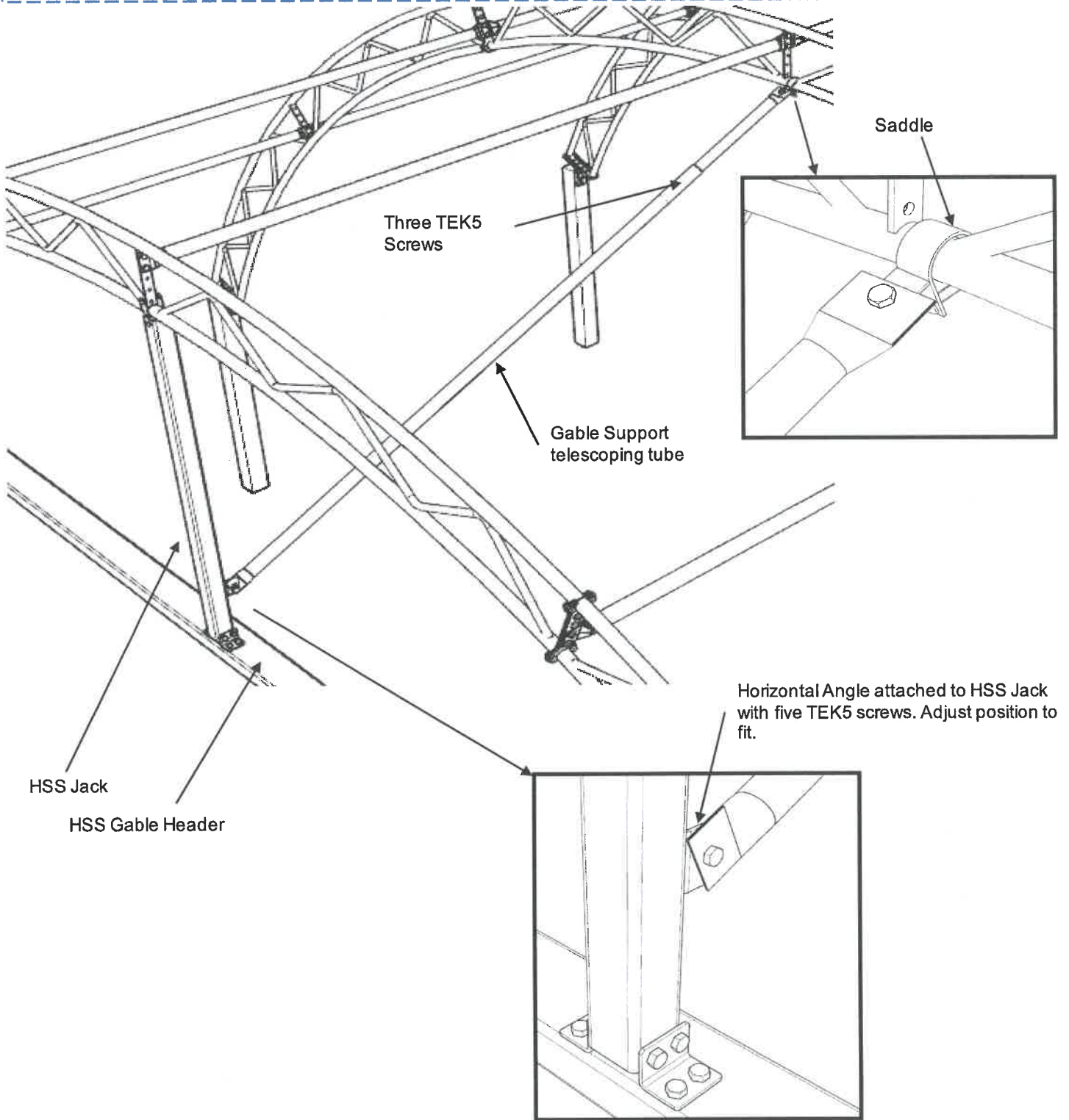
11. Install the HZ Angle at the same elevation on both ends of each HZ. Assemble the HZ parts - one 2 7/8" OD outside tube and one 2 1/2" OD inside tube that is 39" long. Bolt the HZ to both Angle Brackets and secure the telescoping section with two TEK5 Screws as shown.



12. If an HZ is located between an HSS Vertical and a building Truss or Leg as specified by the Structural drawing, attach the end of the HZ to the Truss or Leg inside or lower Chord with the HZ Saddle with Tab bracket as shown.

End Wall HSS Installation (continued)

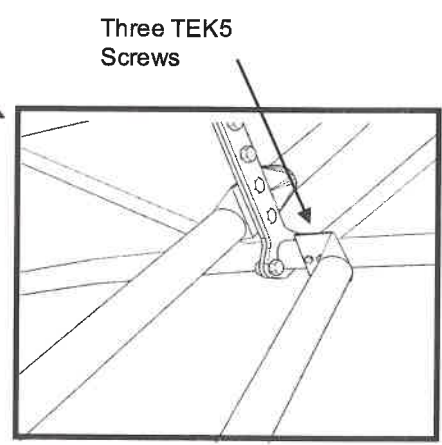
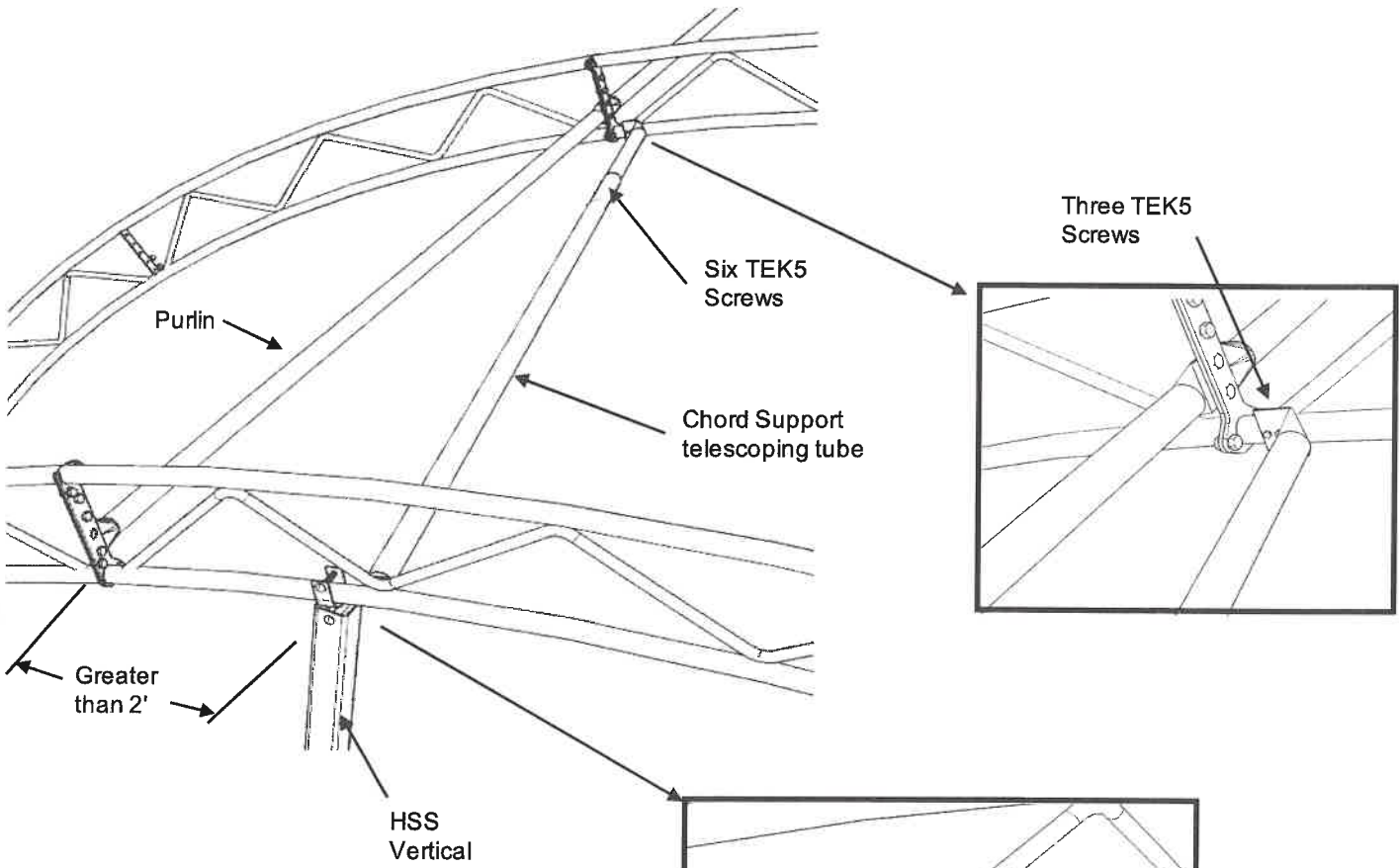
IMPORTANT: Refer to the building specific sealed structural drawing labelled "End Wall Layout"



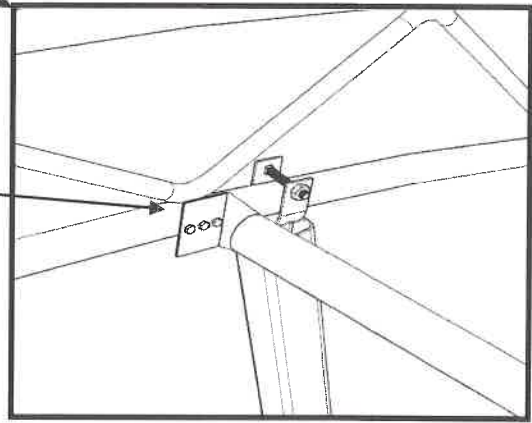
End Wall HSS Installation (continued)

IMPORTANT: Refer to the building specific sealed structural drawing labelled "End Wall Layout"

When the HSS Verticals on an Atlas End Wall are located more than 2' away from a Purlin attached to either a Kingpin or a Truss Coupler (Dogbone), a Chord Support is required to carry the wind load back to the Purlin line on the second Truss.



Chord Support attached to Truss Lower Chord with three TEK5 screws.



Adjust the length of the Chord Support and rotate the Inner and Outer Tubes for best fit. Then TEK screw the Chord Support to the Trusses and TEK screw the telescoping tubes to each other.

Six TEK5 Screws - three on each side

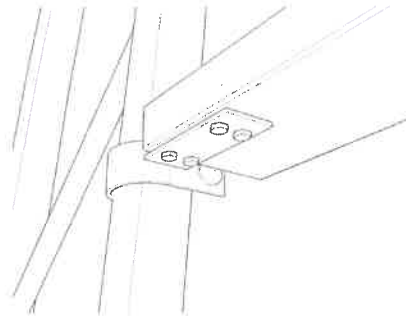
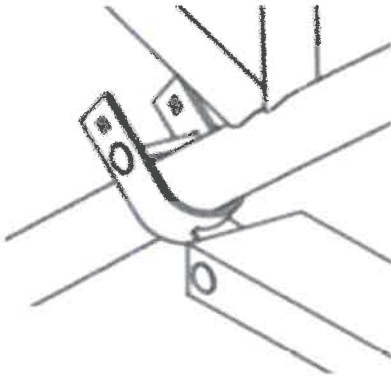
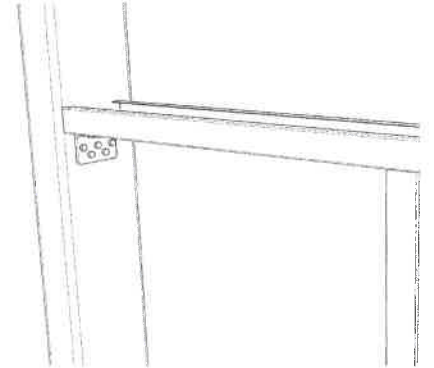
Bend Chord Support ends to correct angle to fit



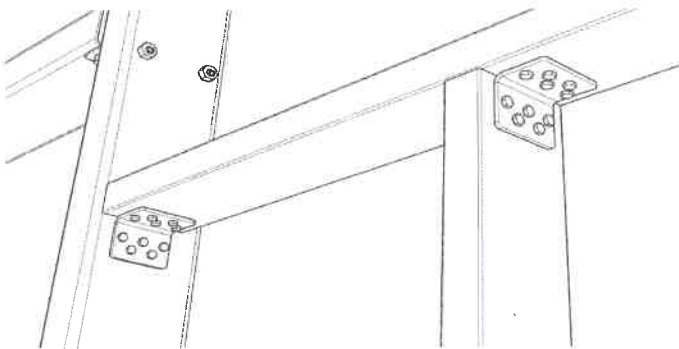
End Wall HSS Installation (continued)

IMPORTANT: Refer to the building specific sealed structural drawing labelled "End Wall Layout"

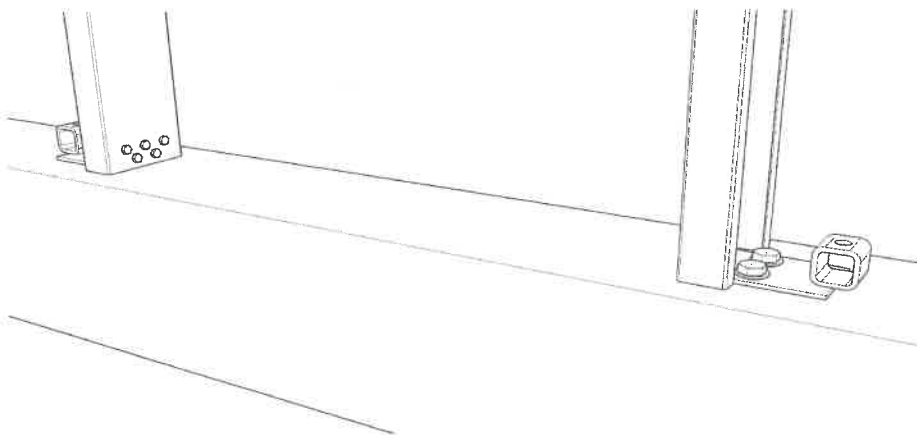
19. Install the Cee Channel Angle Brackets locating the Cee Channel Header at the correct elevation for the door or opening. Note: Door supplier will specify the correct elevation for the specific door supplied. Use the TEK5 Screws and orient the Angle Brackets as shown.
20. Bolt the Cee Channel Saddle Brackets to the lower Chord of the Truss as per component layout on the Structural drawings.



21. Alternately, bolt the Cee Channel Saddle Tab Bracket to the lower Chord of the Truss or Leg. TEK screw the Cee Channel to the Tab. Refer to Structural drawings for specific building details as this can change depending on the building.



22. Cut the supplied Cee Channel to the correct length to frame the required opening size. TEK screw the Cee Channel to the Header using the Angle Brackets.
23. Orient the Angle Brackets so that the TEK Screw points are covered or pointed away from an area where people or fabric Covers can come in contact with the sharp points.



24. Attach the Door Jamb Base to the foundation with anchor bolts as specified by the foundation drawing TEK screw the Cee Channel door jamb to the vertical tab on the Jam Bases.



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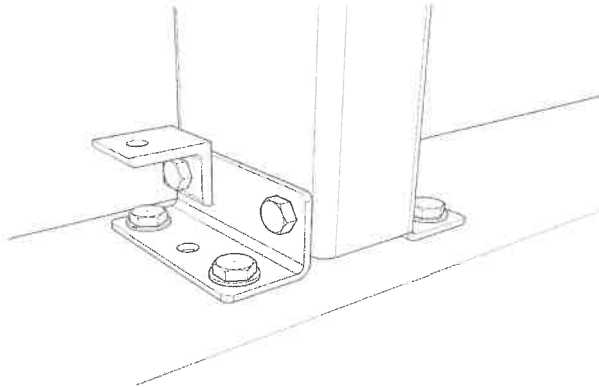
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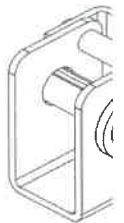
End Wall HSS Installation (continued)

IMPORTANT: Refer to the building specific sealed structural drawing labelled "End Wall Layout"

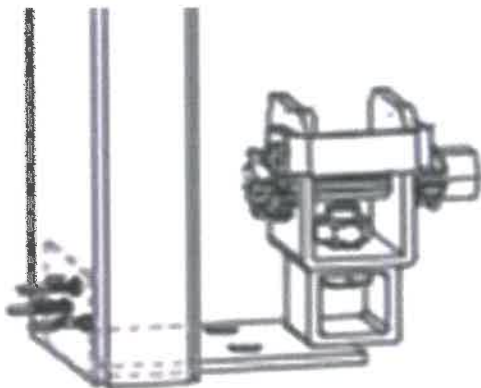
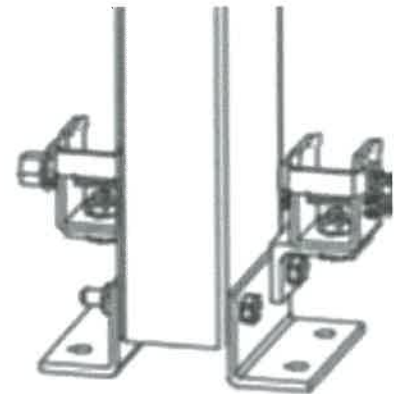
25. Install the Winch Mount Angle Bracket on the HSS Vertical Baseplate. Install on the bolt closest to the outside of the building - adjacent to the End Wall Cover so the Fastening Tube pull is as straight down as possible.



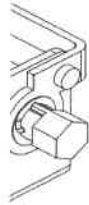
26. Block Winch.



27. For HSS Verticals, install the Block Winch onto the Winch Mount Angle Bracket as shown. Note: there will be a Block Winch on both sides of the HSS Vertical unless the HSS Vertical is part of a Door Frame. If a door is to be installed, a Block Winch and Winch Mount Angle Bracket is not required in the door opening.



28. For a walk door and a Cee Channel Door Frame, install the Block Winch onto the Jamb Base as shown.

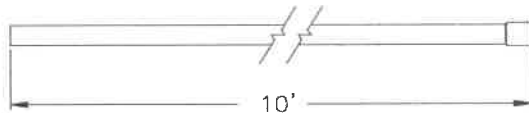


B

End Wall Fabric Installation - Preparation

Note: It is important to install the building Cover before the End Wall Covers are installed.

1. Disconnect the End Flap Cable ends on the building Cover and flip the building Cover End Flap up and over the end of the building for access to the End Truss for End Wall Cover installation.
2. Inspect all of the End Wall steel components for sharp edges or projections that could damage or wear the End Wall Cover. Adjust the components to ensure the Cover cannot contact the sharp edge or suitably cover the sharp edge.
3. Note that the wind will push the End Wall Cover into the End Wall steel components so be sure to inspect the steel components for sharp edges that are in an area where the "pushed in" Cover could make contact in windy conditions.
4. Assemble the PVC pipe required for the outer perimeter of the End Wall Cover as shown in the diagrams below.



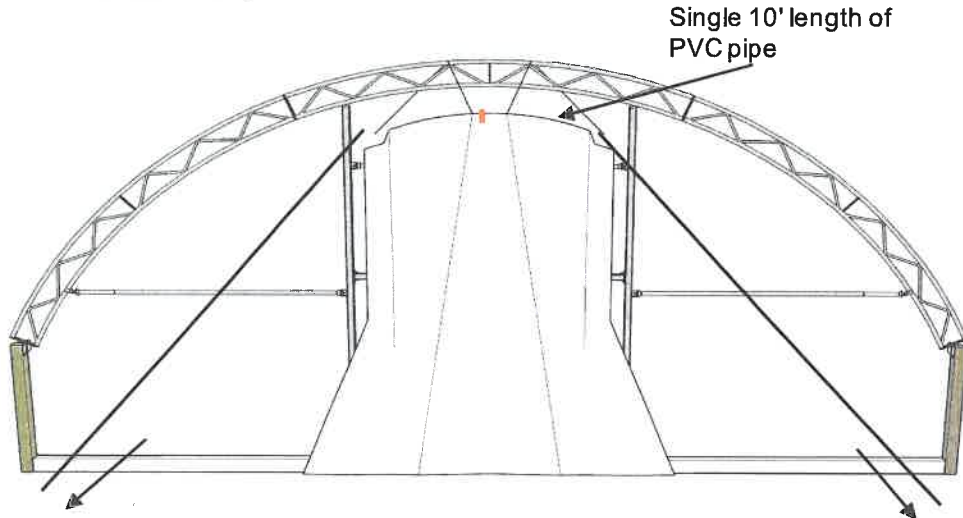
Pre-assemble the PVC pipe into two sections that are one half the total length required for the End Wall Cover.

Connect the PVC pipe lengths (10' long sections) with PVC glue and one pan head screw at each joint.

Building Width (ft)	Zero-Zero Length (ft)	Number of PVC pipe lengths required	End Wall Area (s.f.)
24	49	5	348
30	43	5	285
32	58	6	505
32L8	58	6	527
36	57	6	509
36L8	73	8	793
40	54	6	447
40L6	65	7	673
40L8	69	7	753
41L6	65	7	674
41L8	69	7	757
42	64	7	639
42L8	69	7	970
42L10	73	8	1054
46	64	7	638
48L8	79	8	993
50	65	7	616
52L6	75	8	888
52L8	79	8	993
52L10	83	9	1098
55	85	9	1128
62	85	9	1104
65L10	97	10	1482
70	87	9	1045
72L10	104	11	1688
80L8	121	13	2329
90L12	127	13	2454
100L8	140	14	3009
108L8	161	17	4076

End Wall Cover Installation

1. Insert a single 10' length of PVC pipe in the PVC Pocket at the top of the End Wall Cover.

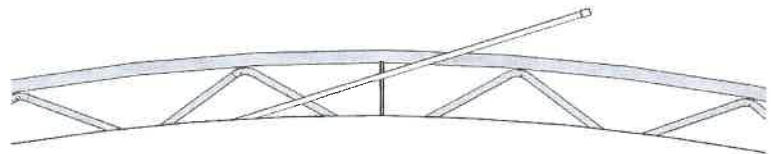


2. Insert a knotted rope into each of the two metal Grommets in the top edge of the Cover and loop the ropes over the top of the Truss.
3. The knot in the rope should be on the back or inside of the Cover with the rope extending up to the Truss Chord on the front or outside of the Cover.

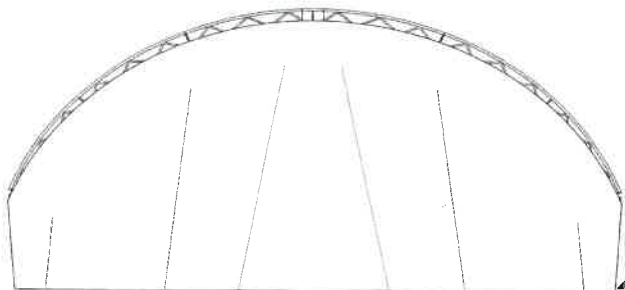
4. Pull the ropes down to lift the Cover into place. Position the Cover carefully to ensure the centre mark on the Cover is aligned with the centre of the Truss.
5. Lift the Cover to a position where the top of the PVC pocket is 3" - 6" below the bottom edge of the Top Chord of the Truss.
6. Double check the alignment of the centre mark on the Cover with the centre of the Truss.



7. Tie off the ropes on the top Chord of the Truss.
8. Be sure not to tie off or otherwise restrict the PVC Pocket as the Pocket must be free for the installation of the PVC pipe.



9. Remove the single length of PVC pipe that was used in the initial Cover lift.
10. Insert the pre-prepared, glued up sections of PVC pipe into the PVC pocket from the top centre of the Cover and push the sections down to the bottom of the edge of the Cover. Install one side, then the other. If necessary, pull the PVC pipe thru the pocket with the installed 1/4" rope .
11. Join and glue the two sections of PVC pipe together at the top.
12. Trim the bottom of the PVC pipe if necessary so they are flush with the bottom edge of the Cover.

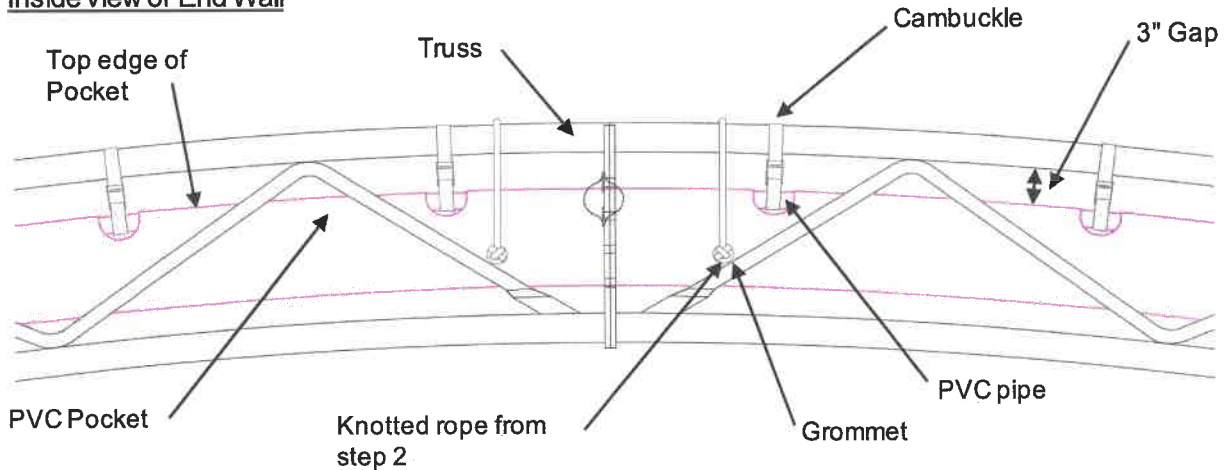


Note: the location of the PVC Pocket can vary depending on the type of Cover ordered as well as the type and size of Atlas building. Examine the Cover carefully before cutting or trimming the PVC pipe or Pockets.

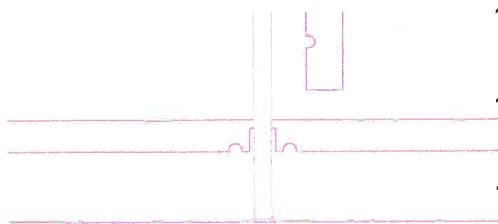
Trim PVC pipe here

End Wall Cover Installation (continued)

Inside view of End Wall



13. Wrap the 1" wide Cambuckles around the PVC pipe in each Pocket cut-out and around the top Chord of the Truss as shown in the diagram above.
14. Adjust the Cambuckles to pull the Cover up and out to the outside perimeter of the Truss to achieve a 3" gap between the top of the PVC pipe and the bottom of the top Chord of the Truss.
15. Do not cut the tails off the Cambuckle belts. The Cambuckles may need to be adjusted later to remove wrinkles in the Cover. For a neat appearance, insert the tails into the PVC Pocket.
16. Untie and remove the ropes used to initially suspend the End Wall Cover.



17. Cut out the Fastening Tube Pocket around the HSS Verticals. The edge of the cut out should be 1" or less from the HSS Vertical.
17. Notch the Fastening Tube Pocket for the Fastening Tube lashing strap.
18. Note: It is important to fully support the Fastening Tube by notching the Pocket as shown in the diagram to minimize wrinkles in the Cover.

19. Install the Fastening Tubes into the Fastening Tube Pocket near the lower edge of the Cover.
20. Join the tubes together as they are installed. Install a TEK screw at each joint.

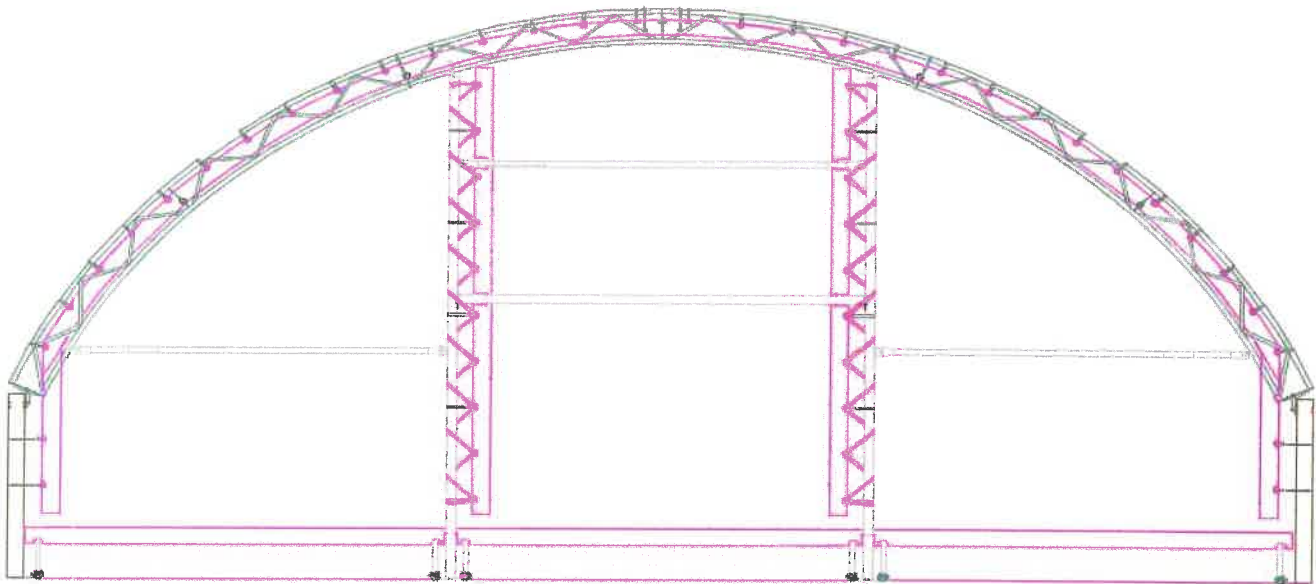


22. The Fastening Tube should be installed so the end of the tube has no more than 1" clearance to the HSS.
23. Cut off the other end of the Fastening Tube to maintain that same 1" clearance to the HSS or other structural steel.

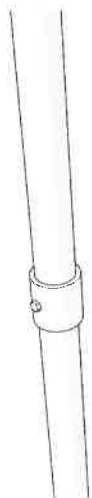
End Wall Cover Installation (continued)

Inside view of End Wall

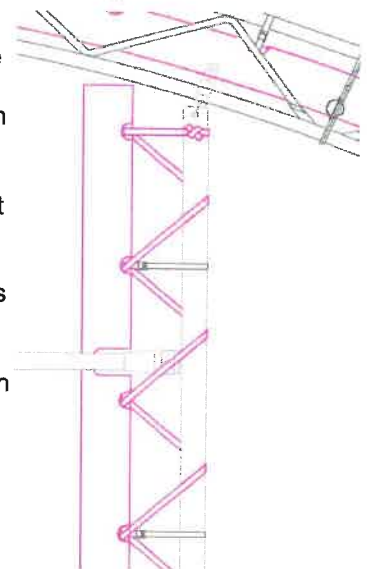
24. Install Lashing Straps (2" wide) around the Fastening Tube in the Pocket, insert thru the centre of the barrel in the Block Winches and apply light tension.
25. Re-check all the PVC pipe and Cambuckles around the perimeter to ensure all are pulling evenly and be sure to double check the alignment of the centre mark on the Cover at the peak is in alignment with the centre of the building. Re-position belts and Cover if necessary.



26. Notch the PVC Pockets to provide clearance for the Header and HZ if installed.
27. Insert PVC pipe into the vertical PVC Pockets adjacent to the HSS Verticals. Join the sections of pipe together as they are inserted with PVC glue and a single screw per joint.
28. Cut the PVC pipe to length as required to fit the PVC Pockets. Note that the PVC pipe should be positioned and cut about 1" away from the Header and HZ.



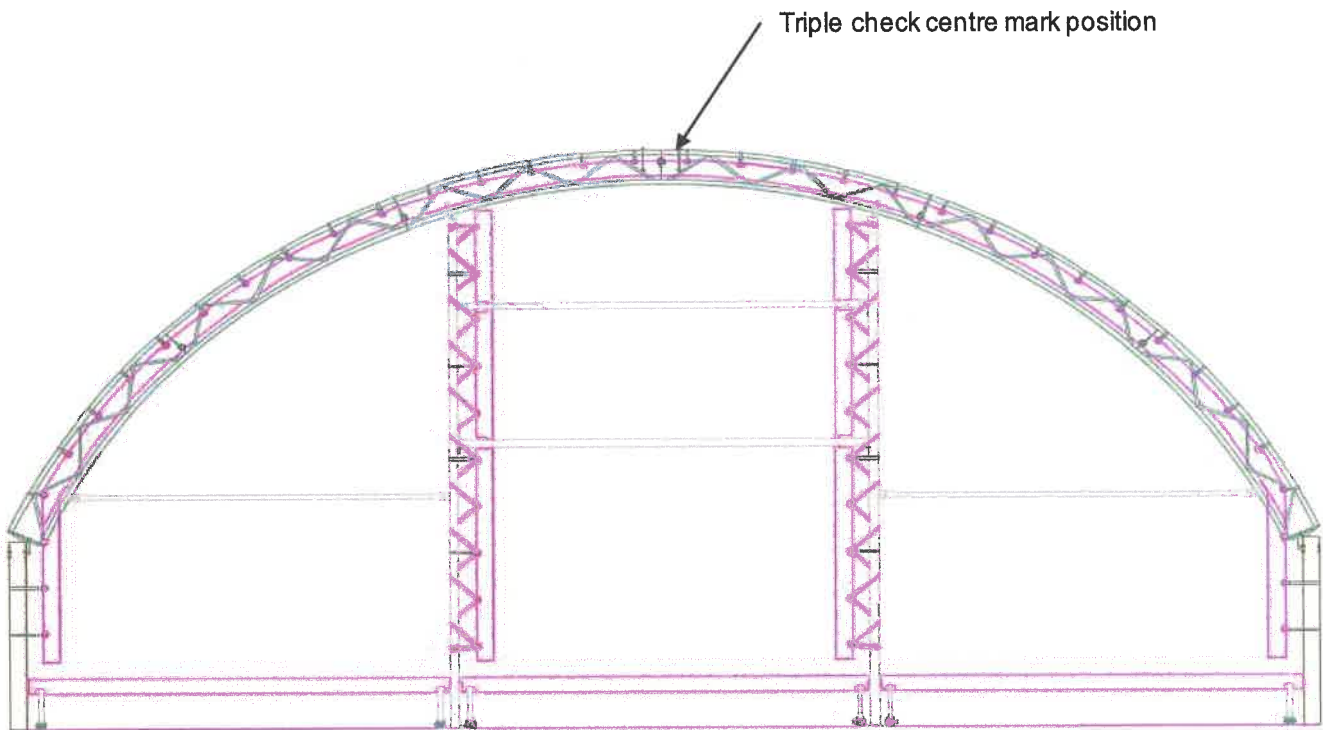
29. Install a 3/4" long TEK3 screw through the fabric into the PVC pipe in each section of PVC Pocket. This will prevent the PVC pipe from falling out if the Cover tension relaxes during the Cover tensioning process.
30. Tension the PVC pipe to the HSS Verticals with a ratchet strap at every other Pocket cut-out.
31. Lace the 1" Belting around the PVC pipe and the HSS as shown in the diagrams.
32. Note: Remove the ratchet straps when belting installation is complete.



End Wall Cover Installation (continued)

Inside view of End Wall

33. Re-check the alignment and tension on the Cambuckles on the perimeter PVC pipe as the tensioning on the centre of the Cover with the 1" Belting on the HSS may have changed the previous settings.
34. While doing this, take the opportunity to triple check the centre mark on the top of the Cover to ensure the Cover is still aligned with the centre of the building.

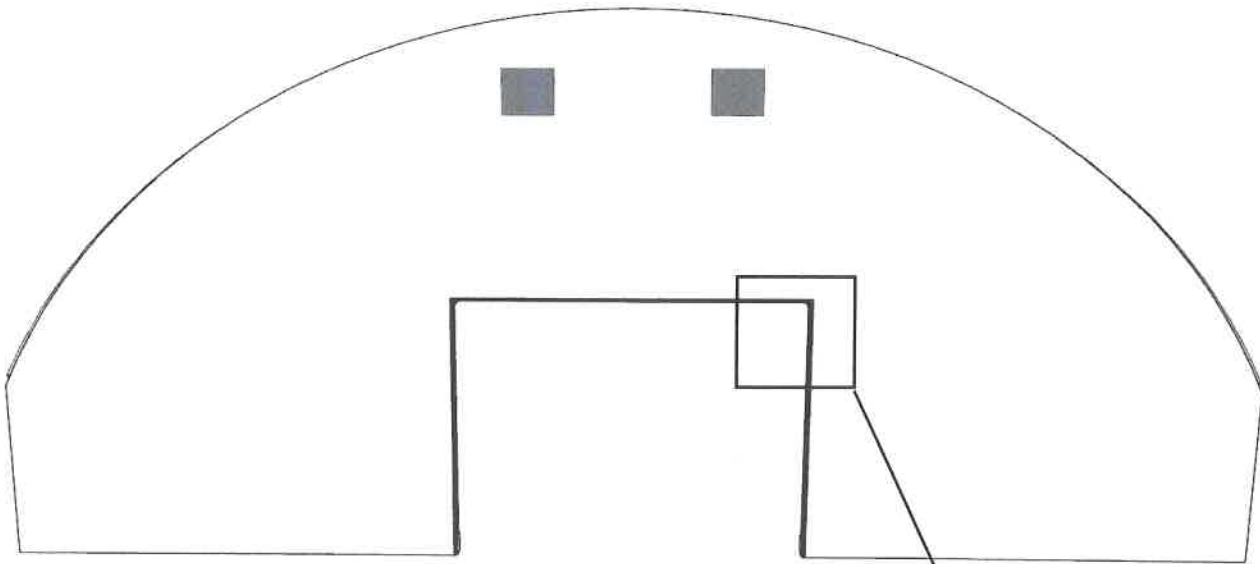


26. Re-tension the Cambuckles if necessary. Remove as many wrinkles in the Cover as possible.
27. Increase the tension on the Fastening Tube by tightening the Block Winches. Adjust to remove as many wrinkles in the Cover as possible. Not as much tension is generally required as on a building Cover.
28. Note: on an end that has a door, tension the complete End Wall Cover as if there was no door. That way the Cover will be fully tensioned and be as smooth and wrinkle free as possible. The fabric in the doorway will be removed later when the Cover is properly prepared for that cut-out.

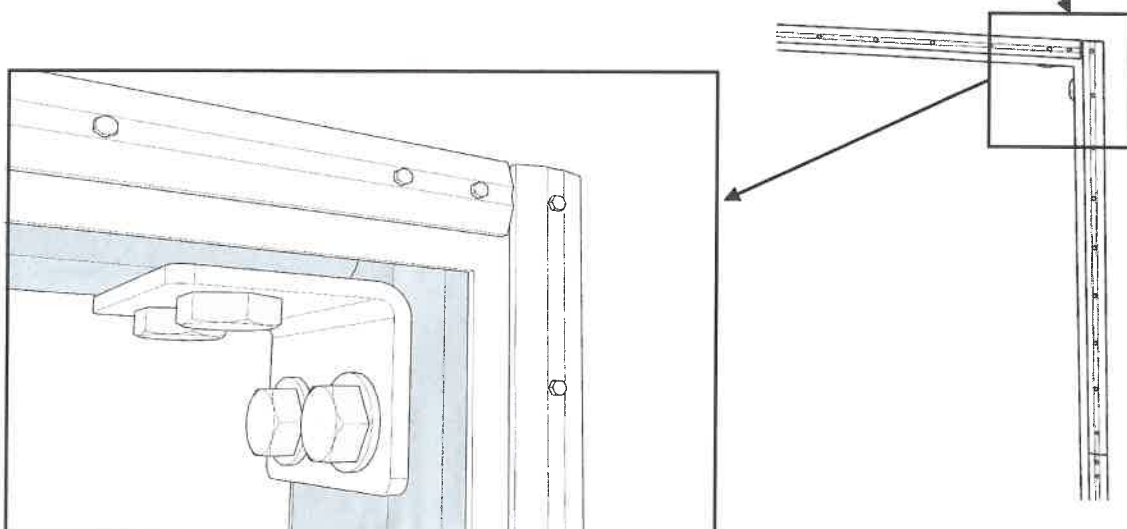
End Wall Cover Installation (continued)

Outside view of End Wall

29. To finish the door openings on fabric End Walls, completely frame the door with white plastic Termination Strip available from Britespan. Install the Termination Strip with TEK screws directly into the HSS or Cee Channel door framing.
30. Install a screw in all holes (6" apart) plus an additional screw 1/2" from each end of the Termination Strip.



31. When the door opening is completely framed with the Termination Strip, cut the fabric with a sharp knife or scissors flush with the edge of the HSS or Cee Channel.
32. If preferred, the fabric can be cut further from the Termination Strip and the fabric wrapped around the HSS and finished with Termination Strip or Screws.



Fabric Termination

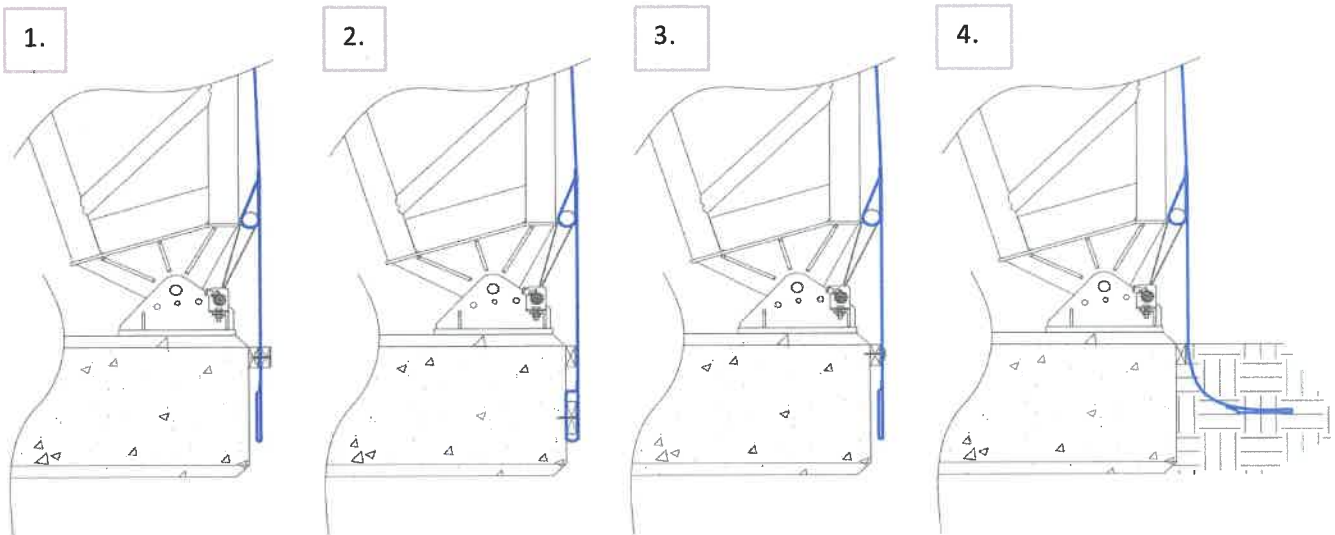
IMPORTANT: Refer to the building specific sealed structural drawing labelled "Standard Details".

Inclusive Pocket Used for Tensioning (220 Termination)

1. The cover is fully terminated if the inclusive pockets on side A and B of the panel are used to tension the cover.

Interior Pocket Tensioned Termination (320 Termination) Options

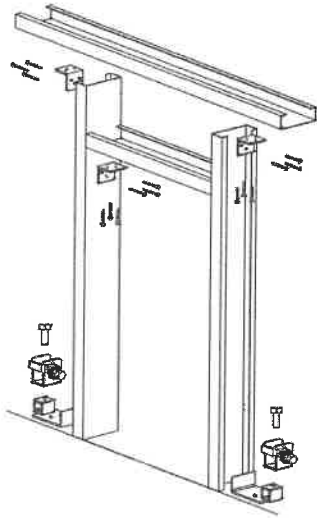
1. Terminate apron with an exposed piece of dimensional lumber and anchors to foundation buffer board, cutting off and discarding remaining apron. (Designed and supplied by others.)
2. Terminate apron with a piece of dimensional lumber inserted into the inclusive apron of the fabric and anchor to the foundation, ensuring that the apron is taut and without wrinkles. (Designed and supplied by others.)
3. Terminate apron by fastening Termination Strip over the apron fabric and anchor to the foundation buffer board, cutting off and discarding remaining apron. (Designed and supplied by others.) PVC Termination Strip can be purchased from Britespan Building Systems Inc. with the appropriate fasteners for your application.
4. Bury fabric apron below grade in a french drain.



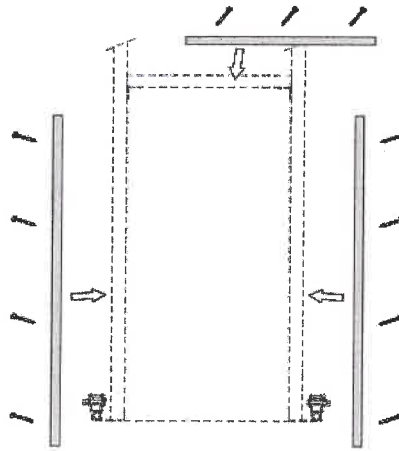
Personnel Door Installation - C-Channel Header

IMPORTANT: Install the fabric end panel and tension completely before cutting out the doorway.

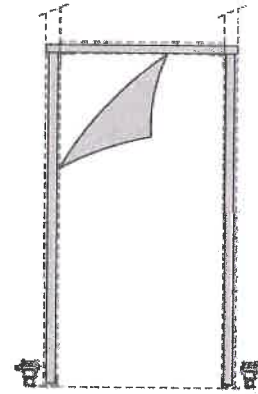
1. Install the door frame header and jambs.
2. Using the specified bolts and nuts install the lashing winches.
3. Cut the end wall Fastening Tubes to length.
4. Install the door assembly and secure it using standard hardware and/or TEK screws and/or brackets as required.
5. Secure the fabric to the door frame with Termination Strip. Install trim cap if required.
6. Cut out the fabric in the door opening.



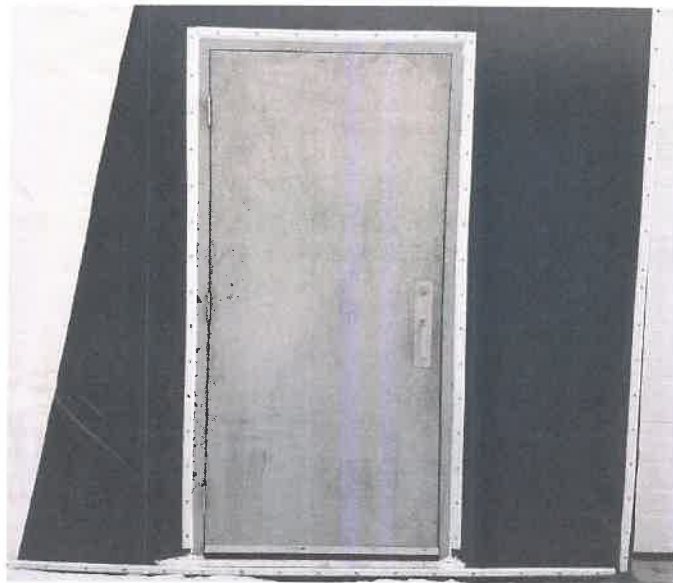
Steps 1-2



Steps 4-5



Steps 6





Auxiliary Notes

Building End Walls

An Important Message for Installers and Owners

Fabric End Walls must be supported by a framework that is constructed to meet wind load ratings and building safety standards.

If you are constructing a framework for Britespan supplied fabric end panels the framework must be designed to match the fastening system of the fabric end panel and must be constructed to meet wind load ratings and building safety standards.

Failure to comply with the above can result in damage to the building and will void fabric end panel warranty.

Contact a structural engineer or your Britespan representative for details.

Suspending Objects and Services in Building

An Important Message for Installers and Owners

Rule #1

Always suspend weighted objects and services from the trusses. Use dedicated brackets and hardware and attach to the lower truss chord only – do not use building brackets or hardware and never use the truss webbing as an attachment point. Whenever possible, use clamps to avoid drilling or piercing the lower truss cord. **Any suspended objects must be approved by a licensed engineer.** If this is not done it may void the building warranty.

Rule #2

Do not suspend weighted objects, services or building operation components from the purlins. The purlins act under compression when wind and snow loads affect the building. Added weight to a purlin can cause it to react unevenly and fail when wind and snow load forces are applied.

If suspensions mid-truss are necessary, use a separate purlin dedicated to the suspension. In some cases a tensioned cable in conjunction with the standard purlin can be used to offset the weight of the suspended object. Four inch (100mm) diameter purlins are capable of supporting weighted objects and services and in some cases can be substituted for standard purlins.

Exceptions for suspension from purlins can include:

- Lightweight aluminum and plastic roof vents
- Simple lighting services without ballasts or transformers
- Electrical conduit and wiring
- Control cables

Contact a structural engineer or your Britespan representative for assistance.

For Technical assistance call your local dealer or sales representative.

Or 1-800-407-5846

IMPORTANT: Always use clamps or ties – Do not drill or pierce purlins or trusses without specific instructions or authorization.



Completed Installation Checklist

- Foundation is level and square.
- Base plates are secured level and square at the correct location.
- Trusses are assembled securely and are plumb and level.
- Extrusion is fastened correctly to the trusses without any defect or misalignment that might damage the fabric.
- All required horizontal purlins are installed in the correct location
- All cross cables are installed in the correct location, properly tensioned and are even and square.
- All required diagonal purlins are installed in the correct location.
- All sway cables are installed in the correct location and properly tensioned.
- All vertical HSS are secure, plumb and level.
- All headers and horizontal ESS are secure and installed as specified.
- Lashing winches are securely fastened and in the correct location.
- All bolts complete with nuts and washers are installed in the correct locations and quantities, and tightened to specifications.
- Covers are securely tensioned with fastening tube and lashing straps, taut and free of wrinkles.

If any of these items are not deemed complete and to the engineer of records satisfaction, do not continue until that item is rectified and approved.

Warranty and Maintenance Schedule

To ensure the warranty of the building as provided by Britespan Building Systems Inc. (Britespan) this maintenance schedule must be adhered to completely. Failure to comply with this maintenance schedule will invalidate the warranty. Perform maintenance on all items once a week for first month; once a month for first year; quarterly thereafter or after any unusually extreme weather event.

1) One Piece Covers & Lacing

The Cover of your Britespan building may relax after installation. It is important to keep the Cover tight in all directions at all times. Tighten the building lengthwise and then tighten over the arc of the building.

- a) Check all ratchet straps and lacing for premature wearing on hard surfaces like pipes or foundations. Reposition ratchets if visible wearing is occurring.
- b) Pull out any excess lacing towards ratchets. De-spool the ratchets and pull excess through. Retighten ratchets.
- c) Make sure all ratchet straps, lacing, and winches have moderate tension throughout the whole building.
- d) Moderate tension in the cover to pull out as many wrinkles in the material as possible.
- e) Cover tensioning tubes should be as level as possible.
- f) Check the cover for tears and rips.
- g) Cover should be tight enough that there is no movement from the wind, and that rain or snow will not accumulate on the cover.
- h) The cover material should not be in contact or rubbing on any surface that will tear, rub, or cut it.
- i) If tightening covers produces excess cover material, detach finish angle and re-stretch cover. Reattach finish angle (if applicable) and trim off excess material.
- j) Radius cut all corner cuts in fabric.
- k) Check keder cover flaps for tightness. If the cable in the flap is loose, re-tension the cable, and reattach.
- l) Call Britespan for further details.

2) Individual Panels (kedered) Covers & Lacing

The Covers of your Britespan building may relax after installation. It is important to keep the Cover tight over the arch of the building. Kedered Covers only need to be tightened over the arch of the building.

- a) Ensure all lacing and winches have moderate tension throughout the whole building.
- b) Moderate tension in the cover should pull out as many wrinkles in the material as possible.
- c) Cover tensioning tubes should be as level as possible.
- d) Check the cover for tears and rips.
- e) Cover should be tight enough that there is no whipping movement from the wind, and that rain or snow will not accumulate on the cover.
- f) The cover material should not be in contact or rubbing on any surface that will tear, rub, or cut it.
- g) If tightening covers produces excess cover material, detach finish angle and re-stretch cover. Re-attach finish angle (if applicable) and trim off excess material.
- h) Radius cut all corner cuts in fabric.
- i) Check keder cover flaps for tightness. If the cable in the flap is loose, re-tension the cable, and reattach.
- j) Call Britespan for further details.

3) End Wall Cover

- a) Hand tighten all cambuckles, ratchet straps, and lacing.
- b) If excess material accumulates around outside arch, remove fasteners from arch, re-stretch the cover, and re-attach.
- c) If tightening covers produces excess cover material at the bottom, detach finish angle (if applicable) and re-stretch cover. Re-attach finish angle and trim off excess material.
- d) Radius cut all corner cuts in fabric.
- e) Call Britespan for further details.



Warranty and Maintenance Schedule Continued

4) Cold Weather Cover Installation

Building covers installed during cooler weather tend to relax more than covers installed during warmer weather. If your cover was installed in cooler weather recheck its tightness on the first available warm day in addition to the above maintenance.

5) Metal Components

Seal all marks or scrapes that are down to the base metal with 3 layers of high zinc content paint. Tighten any loose cabling in the building with the tumbuckles. If there is no more take-up available on the tumbuckle, please contact Britespan for instructions. Check for damage to any truss or end wall framing.

6) Fasteners

Ensure that all fasteners are tight and free of corrosion. Make sure any foundation anchors are fastened securely into the foundation.

General Maintenance Concerns

1) Cover Material is Getting Dirty

It is very easy to clean with water and non-abrasive soap. Do not use solvents or chemicals. Do not pressure wash at close range as damage can occur.

2) Snow on the Cover

Some snow may accumulate on the cover. Heavy snow accumulating on the cover could indicate that the cover needs re-tensioning. Remove heavy snow and check cover tensions immediately or damage may occur. Remove any ground snow that applies lateral force on the fabric or structure. Damage from snow accumulation is not covered by warranty. Refer to the Britespan warranty for further details.

3) Damage

Structure and Fabric - Report and document with pictures any damage to the cover, steel structure, components, or foundation immediately. Please call Britespan for assistance and a comprehensive evaluation. Report any damage from an insurable event to your insurance company. The Britespan maintenance and warranty agreements are not a replacement for Insurance. Refer to the Britespan warranty for further details. Perform any temporary or emergency repairs as deemed necessary. Replace or repair damaged components as determined necessary.

4) Fabric Repair

- a) Sharp objects can puncture the woven polyethylene fabric. Do not attempt to seal or repair with conventional materials.
- b) The fabric can be repaired by contacting an Authorized Britespan Dealer to arrange for plastic welding or with the self-adhesive cover material available from Britespan.
- c) When using the self-adhesive cover material, cut out the tear so that all corners of the tear are rounded and patch material will stick to each other in the cut out area.
- d) Clean both the inside and outside area around the tear with rubbing alcohol.
- e) Cut a repair patch to cover an area of at least 4" out from all spots of the tear. Round the corners of the patch so that the corners will not want to peel off.
- f) Self-adhesive cover material should be placed on the inside and outside of the cover around the tear and pressed together so it adheres to the cover and itself.
- g) Contact Britespan or your dealer for further assistance.



Warranty and Maintenance Schedule Continued

Maintenance in Corrosive Environments

Building Framework, Cover, and Fasteners - Britespan manufactured steel components for corrosive environments are hot-dip galvanized. Hardware components are made of galvanized steel, stainless steel, aluminum alloy, poly, or are zinc plated. It is still required for warranty coverage that the building owner/operator:

- a) Prevent corrosive material or product from resting against the fabric or metal building components.
- b) While hot-dipped galvanization delays corrosion, any corrosion should be immediately cleaned off to base metal and covered with high content zinc paint.
- c) All bolts, fasteners, and cover tensioning hardware that are hot-dipped galvanized shall be coated with a corrosion protective film (fluid film or equivalent) annually.
- d) Seal or protect from corrosion any non-building components that are connected to, or that come in contact with, the building hardware.
- e) Spray any moving part with a moisture displacing lubricant (fluid film or equivalent).
- f) Refer to the Britespan warranty for further details.

Following these maintenance items on your Britespan building will help extend the service life of your structure. Please contact Britespan or your local dealer with any maintenance questions.



Maintenance Record

This maintenance schedule must be adhered to completely. Failure to comply with this maintenance schedule will void the warranty. Perform maintenance on all items once a week for first month; once a month for first year; quarterly or after any unusually extreme weather event.

Date of Installation: _____

Dealer Information: _____

Installer Information: _____

Maintenance Log:

Inspection Period	Date of Inspection	Noted Issues	Inspection Period	Date of Inspection	Noted Issues
Week 2			Quarter 28		
Week 3			Quarter 29		
Week 4			Quarter 30		
Month 2			Quarter 31		
Month 3			Quarter 32		
Month 4			Quarter 33		
Month 5			Quarter 34		
Month 6			Quarter 35		
Month 7			Quarter 36		
Month 8			Quarter 37		
Month 9			Quarter 38		
Month 10			Quarter 39		
Month 11			Quarter 40		
Month 12			Quarter 41		
			Quarter 42		
Quarter 6			Quarter 43		
Quarter 7			Quarter 44		
Quarter 8			Quarter 45		
Quarter 9			Quarter 46		
Quarter 10			Quarter 47		
Quarter 11			Quarter 48		
Quarter 12			Quarter 49		
Quarter 13			Quarter 50		
Quarter 14			Quarter 51		
Quarter 15			Quarter 52		
Quarter 16			Quarter 53		
Quarter 17			Quarter 54		
Quarter 18			Quarter 55		
Quarter 19			Quarter 56		
Quarter 20			Quarter 57		
Quarter 21			Quarter 58		
Quarter 22			Quarter 59		
Quarter 23			Quarter 60		
Quarter 24			Quarter 61		
Quarter 25			Quarter 62		
Quarter 26			Quarter 63		

Quarter 27					Quarter 64		



Maintenance in Corrosive Enviroments

At all times starting with the date of delivery, Purchaser shall maintain insurance coverage, on the building components, and once constructed such insurance shall provide insurance on the structure, providing coverage against property damage to the building components, the structure and its contents for their full replacement cost; such coverage to be no less than what is ordinary and customary for the location of install. Such insurance shall include coverage for the acts of third parties and for all weather related events. Purchaser's insurance coverage will be the primary source for payment of any damage or costs to the building components and the structure even if a defective building component would otherwise be subject to repair or replacement by Britespan under this limited warranty. Purchasers' insurance coverage will be the sole source for payment of any damage or costs to the building components and the structure in any way related to a weather event (weather wind, hail, snow, ice, tomado, hurricane, lightening or otherwise), even if the defective building components would otherwise be subject to repair or replacement by Britespan under this limited warranty. Purchaser waives all rights of subrogation against Britespan and shall require that its insurer also waives all rights of subrogation against Britespan. In the event Britespan provides any repair or replacement of defective building components to Purchaser, Purchaser hereby assigns its rights to any insurance proceeds for such defective building components to Britespan and Purchaser shall provide all cooperation required by Britespan to allow Britespan to enforce any insurance claim, including without limitation executing an assignment of claim to Britespan and any other documents or instruments which may be requested by Britespan.



Warranty Registration

Warranty Registration must be submitted within 60 days of building installation.

Warranty Registration Forms are available online at www.britespanbuildings.com.

WARNING : FAILURE TO COMPLETE WARRANTY REGISTRATION WILL VOID ABILITY TO MAKE ANY CLAIM IN THE FUTURE.



BRITESPAN Warranty Photo Registration

NUMBERS
Represent Views
and
Preferred Sequence
(see attached photo examples)

**MIN 13 PHOTOS
REQUIRED**

**BUILDINGS WITH
MID-BRACING
14 PHOTOS**

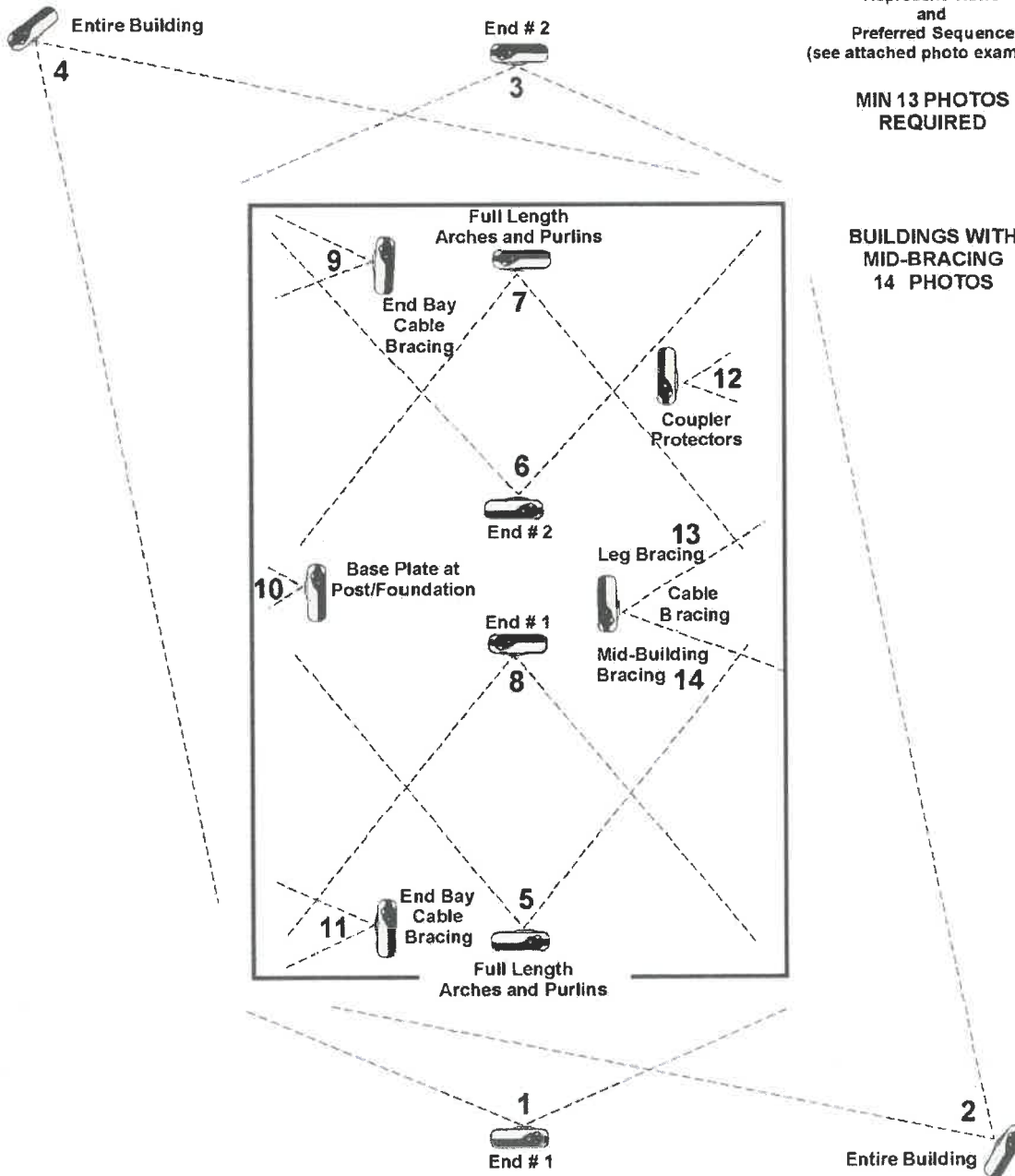
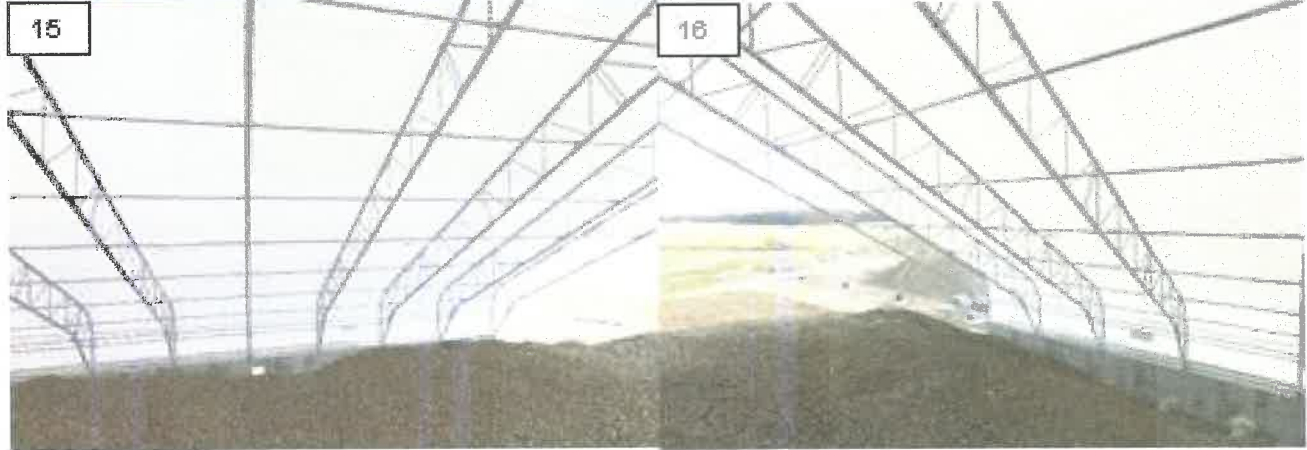
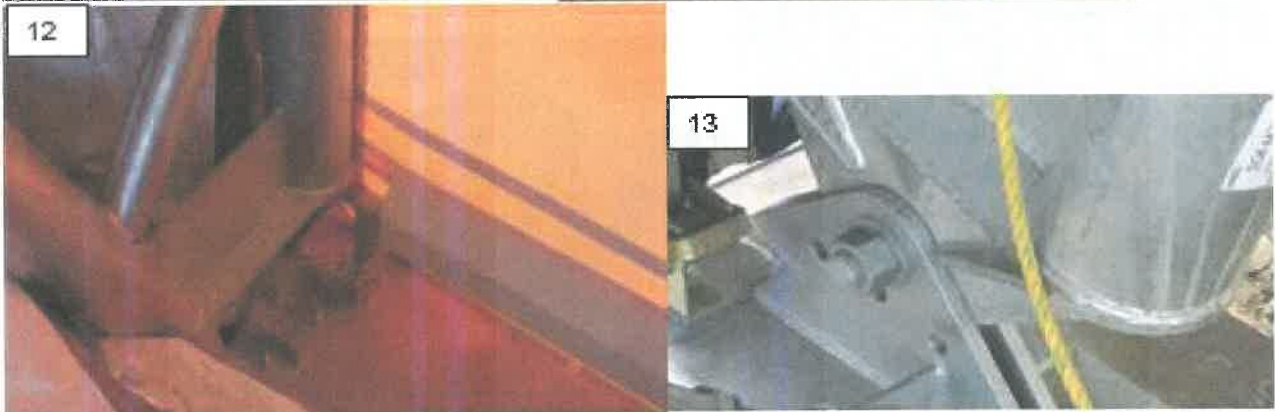
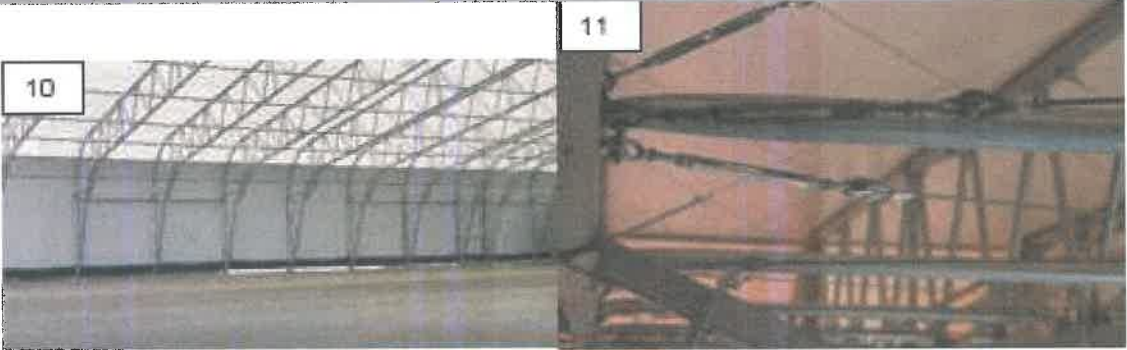


Photo Registration Instructions Required Views



Photo Registration Instructions Required Views Continued





20 Year Limited Warranty

SCOPE OF LIMITED WARRANTY

Only the building components manufactured by Britespan Building Systems Inc. (Britespan) and described in this agreement are warranted for manufacturer defects to the building owner.

This warranty is only valid if and when:

- i) Warranty has properly been registered by an authorized Britespan dealer as per the instruction in the building kit.
- ii) Building and any components are assembled and maintained in accordance with the Installation/Owner's Manual/Structural Drawings and applicable Technical Bulletins.
- iii) Britespan receives written notice and proof of claim (photos where possible) of any manufacturer's defects during the period of warranty coverage.
- iv) Britespan Building Systems has been paid in full for the building and materials.

Resolve of the structural defect(s) may be through the supply of new, used or rebuilt parts, or on-site repair, at the discretion of Britespan. If Britespan chooses to repair or replace the defective product or component, Britespan shall be allotted reasonable time to do so.

This warranty includes the explicit warranty of Britespan. There are no other warranties expressed or implied. This warranty is made and is not to be replaced by any warranties of marketability or suitability for a particular purpose. Warranty specifications are applicable to units sold and erected in Canada and the United States only. Warranty may vary outside of those areas. Please contact your local authorized Britespan representative for more details.

WARRANTY REGISTRATION

Follow all of the instructions for the online Warranty Registration found in the Owner/Installation Manual shipped with the building kit, or at www.britespanbuildings.com.

All Warranty Registrations must be submitted for registration review within 60 days of building installation.

A Certificate of Warranty will be issued to your local authorized Britespan representative once all the requirements have been met for registration and approved by Britespan.

A Warranty Certificate may be withheld if the building or any components are not assembled in accordance with the installation procedures indicated in the installation manual or structural drawings. A Warranty Certificate will be issued upon correction of identified deficiencies supported with new photographs to complete the verification.

If the building changes ownership, the new owner must apply for a Warranty Transfer to assume remaining years of warranty on the existing structure(s). Contact your local authorized Britespan dealer to obtain a transfer of warranty package. A one-time per transfer fee may apply.

STANDARD LIMITED WARRANTY COVERAGE PERIODS:

TABLE 3-1: STANDARD PRO-RATED WARRANTY COVERAGE PERIOD (YEARS)

COMPONENT	ATLAS / GENESIS / APEX / EASY ACCESS / EPIC SERIES
MAIN STRUCTURE COVER (NON-FR) (4)	20
MAIN STRUCTURE COVER (FR) (4)	15
END FABRIC (NON-FR) (5)	5
END FABRIC (FR) (5)	5
MAIN STEEL FRAMEWORK (2)	20
END STEEL FRAMEWORK (HSS) (3)	10

Building needs to be installed by factory trained, approved and qualified personnel.



20 Year Limited Warranty Continued

NOTES ON LIMITED WARRANTY COVERAGE PERIODS

- All repair or replacement costs are pro-rated as per table 3-1 on page one of this document.
- Standard pre-galvanized purlins include a 5 year pro-rated warranty. Main building trusses, hot dip galvanized purlins and manufactured brackets include 20 year warranty. (2)
- Consists of vertical columns, horizontal members, and manufactured brackets. Does not include cables or fasteners. (3)
- Consists of main building cover panels only. Does not include any fastening system components (4)
- Consists of end enclosure panels only (standard FR & non-FR fabrics only). Does not include any fastening system components. End enclosure panels are supported by a Britespan end support system or an alternative system designed and engineered to match the end panel fastening system. The alternative system shall meet site wind load and building safety requirements as per engineer requirements. (5)

STANDARD TERMS OF LIMITED WARRANTY COVERAGE

Should any components be found to have manufacturer's defects under normal use, the defect(s) will be repaired, or the components replaced, at the discretion of Britespan. The building owner will be responsible for the cost of the repair or replacement parts pro-rated per year following the original purchase date, plus the cost of delivery and replacement parts, if required. All replacement parts are F.O.B. Wingham, Ontario, Canada. Any parts requiring replacement under this warranty are subsequently replaced for the remaining time period of the unexpired portion of the warranty that is applicable to the original product.

Due to continual product development, over time certain fabric colours or steel components may become unavailable. In those incidents, Britespan reserves the right to replace replacement components with those that are comparable in function, quality, and price to the original. Britespan is not responsible or liable if the replacement components do not appear the same as the original.

LIMITS AND RELEASE OF LIABILITY

This warranty does not apply to defects or damages resulting from a) improper installation and /or installation that is not in accordance with Britespan manuals/procedures/structural drawings, and Technical Memos; b) improper or inadequate maintenance of the structure; c) any modification or alteration of the product not reported; d) misuse, neglect, or abuse of the product; e) accident; f) repair or alteration by an unauthorized Britespan dealer; g) integration of products or components not manufactured specifically for use in a Britespan; h) exposure to corrosive elements; i) corrosion resulting from structure applications, environment within the structure; j) insufficient maintenance or any cause other than a defect in an item's described corrosion protection; k) use of abrasive cleaning methods, chemicals, or solvents; l) conditions in excess of, or not meeting, as the case may be, wind and snow load specifications for building model; m) design of foundation and/or installation and/or construction; n) product upgrades; o) product recall; p) normal wear and tear; q) wear caused by multiple installations; r) storage and/or handling of building components; s) This warranty does not apply to s) cosmetic defects or deterioration, including discoloration of fabric or steel t) rub marks on the fabric that only rub off of the fabric; u) leaks that do not leak.

Britespan will not be liable for any damages incurred during or as a result of installation of a Britespan product, whether or not in accordance with the installation instructions. In the event of an event will Britespan, any distributor, or the selling dealer be liable for any direct, indirect, special, incidental, or consequential damages (including loss of profit, loss of business, inconvenience, or the use or inability to use this product for any purpose whatsoever), whether based on contract, tort, strict liability or any other legal basis; even if the distributor, or selling dealer was advised of the possibility of the occurrence of such damages. By registering for and taking benefit of the warranty, the building owner expressly releases and discharges Britespan, all distributors, and all dealers from all claims, causes of action, demands, actions, suits, judgments and executions, incidental or consequential damages, bodily or otherwise, that the building owner ever had, now has, or may have by reason of the assembly, erection, use and/or operation of the product by Britespan. All references to building owners, Britespan, all distributors and all dealers, include such parties' spouse, heirs, successors, legal representatives and assigns.

Britespan and its authorized Dealers are independent businesses; authorized Dealers are not agents or legal representatives of Britespan. Authorized dealers have no authority to assume or create any legal obligation or responsibility, express or implied, on behalf of Britespan, or to bind Britespan in any manner whatsoever. Britespan Building Systems Inc shall have no liability for any acts, errors, omissions, workmanship, supplies, advice, representations or misrepresentations of any authorized Dealer.



or pro-rated

must be properly
must also meet

Britespan. The
and installation of
warranted only

right to substitute
component varies in

span installation
duct reported or
accessories not
structure, and/or
; k) exposure to
deficiency in the
parts; r) an act of
colour coat, but

instructions. In no
it, loss of time,
if Britespan, it's
building owner
; for any actual,
operation of any
assigns.

have no right or
ever. Britespan
Dealer.

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 Wingham, ON
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(T) 800-407-5846
 (F) 519-912-1003
 (E) warranty@britespanbuildings.com

LIMITED WARRANTY REGISTRATION

COMPLETE THIS PAGE IN FULL AND RETURN WITH THE WARRANTY PHOTOS.

IT IS THE RESPONSIBILITY OF THE OWNER/DEALER TO RETURN THIS BUILDING WARRANTY REGISTRATION FORM.

Owner Name 1		Business / Company Name	
Mailing Address 2		Agent / Representative Title	
City / Town 3	Prov / State 4	Phone	Website
Postal Code / Zip Code 5		Country 6	Email Address 7
Home Phone with area code 8		Work Phone with area code 9	

10 The Building Address is the same as above If not, provide the building address in the comments section below

11 SO# ***SO# is located on white shipping label on wooden crate OR bundles of steel components OR dealer invoice**

12 Date of Purchase
13 Name of Dealer building purchased from

	Self Installed	Dealer Installed
14 Building Foundation	<input type="checkbox"/>	<input type="checkbox"/>
15 Building Cover	<input type="checkbox"/>	<input type="checkbox"/>
16 Building Steel	<input type="checkbox"/>	<input type="checkbox"/>
17 The End Frame(s)	<input type="checkbox"/>	<input type="checkbox"/>
18 The End(s) Fabric	<input type="checkbox"/>	<input type="checkbox"/>

****Self installed includes customer arranging own contractor**

19 Did you receive the Owners / Installation Manual with building maintenance information included?
 20 Did you ask the installer or Dealer for instructions on how to perform Building Maintenance procedures?

YES	NO
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Comments

Allow 90 days from date of registration submission for processing and evaluation of warranty photos. If you do not receive a Warranty Certificate within this time frame, please contact your authorized Britespan Dealer or contact Britespan Corporate office at 800-407-5846. Use the building's SO# as your trace number. **Note:** Warranty only valid with Warranty Registration Card and required photos. See attached for photo instructions. Submit this form and photos to warranty@britespanbuildings.com