



NOTICE TO PROCEED

Date: May 23, 2017
Contractor: A & B Construction, LTD
Project: Salt Storage Shed for City Streets Division IFB-4314-17-DH

In accordance with the contract dated May 3, 2017 the Contractor is hereby notified to begin work on the Project on or before May 24, 2017.

The date of final completion as determined is August 31, 2017.

CITY OF GRAND JUNCTION, COLORADO

DocuSigned by:
Duane Hoff
0F780E7D60F149C...
Duane Hoff Jr., Senior Buyer

Receipt of this Notice to Proceed is hereby acknowledged:

Contractor: A & B Construction LTD

By: Ben Striegel - Vice President, A&B Construction LTD
13E3BFDD2CB64BA...

Print Name: Ben Striegel - Vice President, A&B Construction LTD

Title: VP

Date: 5/25/2017 | 22:10 MDT



CITY OF GRAND JUNCTION, COLORADO

CONTRACT

This CONTRACT made and entered into this 3rd day of May, 2017 by and between the **City of Grand Junction, Colorado**, a government entity in the County of Mesa, State of Colorado, hereinafter in the Contract Documents referred to as the "Owner" and **A&B Construction, LTD** hereinafter in the Contract Documents referred to as the "Contractor."

WITNESSETH:

WHEREAS, the Owner advertised that sealed Bids would be received for furnishing all labor, tools, supplies, equipment, materials, and everything necessary and required for the Project described by the Contract Documents and known as **Salt Storage Shed for City Streets Division IFB-4314-17-DH**.

WHEREAS, the Contract has been awarded to the above named Contractor by the Owner, and said Contractor is now ready, willing and able to perform the Work specified in the Notice of Award, in accordance with the Contract Documents;

NOW, THEREFORE, in consideration of the compensation to be paid the Contractor, the mutual covenants hereinafter set forth and subject to the terms hereinafter stated, it is mutually covenanted and agreed as follows:

ARTICLE 1

Contract Documents: It is agreed by the parties hereto that the following list of instruments, drawings, and documents which are attached hereto, bound herewith, or incorporated herein by reference constitute and shall be referred to either as the "Contract Documents" or the "Contract", and all of said instruments, drawings, and documents taken together as a whole constitute the Contract between the parties hereto, and they are fully a part of this agreement as if they were set out verbatim and in full herein:

The order of contract document governance shall be as follows:

- a. The body of this contract agreement
- b. Solicitation Documents for the Project; **Salt Storage Shed for City Streets Division**;
- c. Notice of Award
- d. Contractors Response to the Solicitation
- e. Work Change Requests (directing that changed work be performed);
- f. Field Orders
- g. Change Orders.

ARTICLE 2

Definitions: The clauses provided in the Solicitation apply to the terms used in the Contract and all the Contract Documents.

ARTICLE 3

Contract Work: The Contractor agrees to furnish all labor, tools, supplies, equipment, materials, and all that is necessary and required to complete the tasks associated with the Work described, set forth, shown, and included in the Contract Documents as indicated in the Solicitation Document.

ARTICLE 4

Contract Time and Liquidated Damages: Time is of the essence with respect to this Contract. The Contractor hereby agrees to commence Work under the Contract on or before the date specified in the Solicitation from the Owner, and to achieve Substantial Completion and Final Completion of the Work within the time or times specified in the Solicitation. In the event the Work is not completed in the times set forth and as agreed upon, the Contractor further agrees to pay Liquidated Damages to the Owner as set forth in the Solicitation. The Contractor acknowledges and recognizes the delays, expenses and difficulties involved in proving in a legal proceeding the actual losses suffered by the Owner if the work is not completed on time. Accordingly, instead of requiring any such proof, the Owner and the Contractor agree that as Liquidated Damages for delay, but not as a penalty, the Contractor shall pay to the Owner the amounts specified in the Solicitation.

ARTICLE 5

Contract Price and Payment Procedures: The Contractor shall accept as full and complete compensation for the performance and completion of all of the Work specified in the Contract Documents, the sum of **Seventy Seven Thousand Eight Hundred Sixty One and 00/100 Dollars (\$77,861.00)**. If this Contract contains unit price pay items, the Contract Price shall be adjusted in accordance with the actual quantities of items completed and accepted by the Owner at the unit prices quoted in the Solicitation Response. The amount of the Contract Price is and has heretofore been appropriated by the Grand Junction City Council for the use and benefit of this Project. The Contract Price shall not be modified except by Change Order or other written directive of the Owner. The Owner shall not issue a Change Order or other written directive which requires additional work to be performed, which work causes the aggregate amount payable under this Contract to exceed the amount appropriated for this Project, unless and until the Owner provides Contractor written assurance that lawful appropriations to cover the costs of the additional work have been made.

Unless otherwise provided in the Solicitation, monthly partial payments shall be made as the Work progresses. Applications for partial and Final Payment shall be prepared by the Contractor and approved by the Owner in accordance with the Solicitation.

Upon Final Completion of the Work under the Contract and before the Contractor shall receive final payment, the Owner shall publish at least twice in a newspaper of general circulation published in the County a notice that: 1. the Owner has accepted such Work as completed according to the Contract Documents; 2. the Contractor is entitled to final payment therefore; 3. thirty days after the first publication, specifying the exact date, the Owner shall pay the full balance due under the Contract; and 4. persons having claims for labor, materials, team hire, sustenance, provisions, provender, or other supplies used or

consumed by the Contractor or a subcontractor shall file a verified statement of the amount due and unpaid on account of such claim prior to the date specified for such payment. Nothing herein shall be construed as relieving the Contractor and the Sureties on the Contractor's Bonds from any claim or claims for work or labor done or materials or supplies furnished in the execution of the Contract.

ARTICLE 6

Bonds: The Contractor shall furnish currently herewith the Bonds required by the Contract Documents, such Bonds being attached hereto. The Performance Bond shall be in an amount not less than one hundred percent (100%) of the Contract Price set forth in Article 5. The Payment Bond shall be in an amount not less than one hundred (100%) of the Contract Price set forth in Article 5.

ARTICLE 7

Contract Binding: The Owner and the Contractor each binds itself, its partners, successors, assigns and legal representatives to the other party hereto in respect to all covenants, agreements and obligations contained in the Contract Documents. The Contract Documents constitute the entire agreement between the Owner and Contractor and may only be altered, amended or repealed by a duly executed written instrument. Neither the Owner nor the Contractor shall, without the prior written consent of the other, assign or sublet in whole or in part its interest under any of the Contract Documents and specifically, the Contractor shall not assign any moneys due or to become due without the prior written consent of the Owner.

ARTICLE 8

Severability: If any part, portion or provision of the Contract shall be found or declared null, void or unenforceable for any reason whatsoever by any court of competent jurisdiction or any governmental agency having the authority thereover, only such part, portion or provision shall be effected thereby and all other parts, portions and provisions of the Contract shall remain in full force and effect.

IN WITNESS WHEREOF, City of Grand Junction, Colorado, has caused this Contract to be subscribed and sealed and attested in its behalf; and the Contractor has signed this Contract the day and the year first mentioned herein.

The Contract is executed in two counterparts.

CITY OF GRAND JUNCTION, COLORADO

DocuSigned by:
Duane Hoff
By: _____
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Duane Hoff Jr., Senior Buyer

5/8/2017 | 09:02 MDT

Date

A&B Construction LTD

DocuSigned by:
Ben Striegel - Vice President, A&B Construction LTD
By: _____
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Ben Striegel - Vice President, A&B Construction LTD

5/7/2017 | 19:42 MDT

Date



Purchasing Division

Invitation for Bid

**IFB-4314-17-DH
Salt Storage Shed for City Streets Division**

Responses Due:

April 6, 2017 prior to 3:30pm

Accepting Electronic Responses Only

Responses Only Submitted Through the Rocky Mountain E-Purchasing System (RMEPS)

<https://www.rockymountainbidsystem.com/default.asp>

(Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor MUST contact RMEPS to resolve issue prior to the response deadline. 800-835-4603)

Purchasing Representative:

Duane Hoff Jr., Senior Buyer

duaneh@gjcity.org

970-244-1545

This document has been developed specifically to solicit competitive responses for this solicitation, and may not be the same as previous City of Grand Junction solicitations. All vendors are urged to thoroughly review this solicitation prior to responding. Submittal by **FAX, EMAIL or HARD COPY IS NOT ACCEPTABLE** for this solicitation.

Invitation for Bids

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Section 1	Instruction to Bidders
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1. Instructions to Bidders

- 1.1. **Purpose:** The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required provide, deliver, and construct/erect/install a new salt storage shed for the City Streets Division. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

IFB Questions:

Duane Hoff Jr., Senior Buyer
duaneh@gjcity.org

- 1.2. **Mandatory Site Visit/Briefing:** **Prospective bidders are required to attend a site visit/briefing on March 29, 2017 at 10:00am.** Meeting location shall be at 333 West Avenue, Building B, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).
- 1.3. **The Owner:** The Owner is the City of Grand Junction and/or Mesa County, Colorado and is referred to throughout this Solicitation. The term Owner means the Owner or his authorized representative.
- 1.4. **Submission:** **Each bid shall be submitted in electronic format only, and only through the Rocky Mountain E-Purchasing website (<https://www.rockymountainbidsystem.com/default.asp>).** **This site offers both “free” and “paying” registration options that allow for full access of the Owner’s documents and for electronic submission of proposals.** (Note: “free” registration may take up to 24 hours to process. Please Plan accordingly.) Please view our “**Electronic Vendor Registration Guide**” at <http://www.gjcity.org/BidOpenings.aspx> for details. (Purchasing Representative does not have access or control of the vendor side of RMEPS. If website or other problems arise during response submission, vendor **MUST** contact RMEPS to resolve issue prior to the response deadline. **800-835-4603**)
- 1.5. **Printed Form for Price Bid:** All Price Bids must be made upon the Contractor’s Bid Form attached, and should give the amounts both in words and in figures, and must be signed and acknowledged by the bidder.
- 1.6. **Exclusions:** No oral, telephonic, emailed, or facsimile bid will be considered
- 1.7. **Contract Documents:** The complete IFB and bidder’s response compose the Contract Documents. Copies of these documents can be obtained from the City Purchasing website, <http://www.gjcity.org/BidOpenings.aspx>.
- 1.8. **Examination of Specifications:** Bidders shall thoroughly examine and be familiar with the project Statement of Work. The failure or omission of any Offeror to receive or examine any form, addendum, or other document shall in no way relieve any

Offeror from any obligation with respect to his bid. The submission of a bid shall be taken as evidence of compliance with this section.

- 1.9. **Questions Regarding Statement of Work:** Any information relative to interpretation of Scope of Work or specifications shall be requested of the Purchasing Representative, in writing, in ample time prior to the response time.
- 1.10. **Addenda & Interpretations:** If it becomes necessary to revise any part of this solicitation, a written addendum will be posted electronically on the City's website at <http://www.gjcity.org/BidOpenings.aspx>. The Owner is not bound by any oral representations, clarifications, or changes made in the written specifications by Owner, unless such clarification or change is provided in written addendum form from the City Purchasing Representative.
- 1.11. **Taxes:** The Owner is exempt from State retail and Federal tax. The bid price must be net, exclusive of taxes.
- 1.12. **Offers Binding 60 Days:** Unless otherwise specified, all formal offers submitted shall be binding for sixty (60) calendar days following opening date, unless the Bidder, upon request of the Purchasing Representative, agrees to an extension.
- 1.13. **Collusion Clause:** Each bidder by submitting a bid certifies that it is not party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any and all bids shall be rejected if there is evidence or reason for believing that collusion exists among bidders. The Owner may, or may not, accept future bids for the same services or commodities from participants in such collusion.
- 1.14. **Public Disclosure Record:** If the bidder has knowledge of their employee(s) or sub-contractors having an immediate family relationship with a City/County employee or elected official, the bidder must provide the Purchasing Representative with the name(s) of these individuals. These individuals are required to file an acceptable "Public Disclosure Record", a statement of financial interest, before conducting business with the City/County.

2. General Contract Conditions for Construction Projects

- 2.1. **The Contract:** This Invitation for Bid, submitted documents, and any negotiations, when properly accepted by the City/County, shall constitute a contract equally binding between the City/County and Contractor. The contract represents the entire and integrated agreement between the parties hereto and supersedes all prior negotiations, representations, or agreements, either written or oral. The contract may be amended or modified with Change Orders, Field Orders, or Addendums.
- 2.2. **The Work:** The term Work includes all labor necessary to produce the construction required by the Contract Documents, and all materials and equipment incorporated or to be incorporated in such construction.

- 2.3. Execution, Correlation, Intent, and Interpretations:** The Contract Documents shall be signed in not less than triplicate by the Owner (City/County) and Contractor. City/County will provide the contract. By executing the contract, the Contractor represents that he/she has visited the site, familiarized himself with the local conditions under which the Work is to be performed, and correlated his observations with the requirements of the Contract Documents. The Contract Documents are complementary, and what is required by any one, shall be as binding as if required by all. The intention of the documents is to include all labor, materials, equipment and other items necessary for the proper execution and completion of the scope of work as defined in the technical specifications and drawings contained herein. All drawings, specifications and copies furnished by the City/County are, and shall remain, City/County property. They are not to be used on any other project, and with the exception of one contract set for each party to the contract, are to be returned to the owner on request at the completion of the work.
- 2.4. The Owner:** The Owner is the City of Grand Junction and/or Mesa County, Colorado and is referred to throughout the Contract Documents. The term Owner means the Owner or his authorized representative. The Owner shall, at all times, have access to the work wherever it is in preparation and progress. The Contractor shall provide facilities for such access. The Owner will make periodic visits to the site to familiarize himself generally with the progress and quality of work and to determine, in general, if the work is proceeding in accordance with the contract documents. Based on such observations and the Contractor's Application for Payment, the Owner will determine the amounts owing to the Contractor and will issue Certificates for Payment in such amounts, as provided in the contract. The Owner will have authority to reject work which does not conform to the Contract documents. Whenever, in his reasonable opinion, he considers it necessary or advisable to insure the proper implementation of the intent of the Contract Documents, he will have authority to require the Contractor to stop the work or any portion, or to require special inspection or testing of the work, whether or not such work can be then be fabricated, installed, or completed. The Owner will not be responsible for the acts or omissions of the Contractor, and sub-Contractor, or any of their agents or employees, or any other persons performing any of the work.
- 2.5. Contractor:** The Contractor is the person or organization identified as such in the Agreement and is referred to throughout the Contract Documents. The term Contractor means the Contractor or his authorized representative. The Contractor shall carefully study and compare the General Contract Conditions of the Contract, Specification and Drawings, Scope of Work, Addenda and Modifications and shall at once report to the Owner any error, inconsistency or omission he may discover. Contractor shall not be liable to the Owner for any damage resulting from such errors, inconsistencies or omissions. The Contractor shall not commence work without clarifying Drawings, Specifications, or Interpretations.
- 2.6. Sub-Contractors:** A sub-contractor is a person or organization who has a direct contract with the Contractor to perform any of the work at the site. The term sub-contractor is referred to throughout the contract documents and means a sub-contractor or his authorized representative.

- 2.7. Award of Sub-Contractors & Other Contracts for Portions of the Work:** As soon as practicable after bids are received and prior to the award of the contract, the successful Contractor shall furnish to the Owner, in writing for acceptance, a list of the names of the sub-contractors or other persons or organizations proposed for such portions of the work as may be designated in the proposal requirements, or, if none is so designated, the names of the sub-contractors proposed for the principal portions of the work. Prior to the award of the contract, the Owner shall notify the successful Contractor in writing if, after due investigation, has reasonable objection to any person or organization on such list. If, prior to the award of the contract, the Owner has a reasonable and substantial objection to any person or organization on such list, and refuses in writing to accept such person or organization, the successful Contractor may, prior to the award, withdraw their proposal without forfeiture of proposal security. If the successful Contractor submits an acceptable substitute with an increase in the proposed price to cover the difference in cost occasioned by the substitution, the Owner may, at their discretion, accept the increased proposal or may disqualify the Contractor. If, after the award, the Owner refuses to accept any person or organization on such list, the Contractor shall submit an acceptable substitute and the contract sum shall be increased or decreased by the difference in cost occasioned by such substitution and an appropriate Change Order shall be issued. However, no increase in the contract sum shall be allowed for any such substitution unless the Contractor has acted promptly and responsively in submitting a name with respect thereto prior to the award.
- 2.8. Supervision and Construction Procedures:** The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
- 2.9. Warranty:** The Contractor warrants to the Owner that all materials and equipment furnished under this contract will be new unless otherwise specified, and that all work will be of good quality, free from faults and defects and in conformance with the Contract Documents. All work not so conforming to these standards may be considered defective. If required by Owner, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment. If within ten (10) days after written notice to the Contractor requesting such repairs or replacement, the Contractor should neglect to make or undertake with due diligence to the same, the City may make such repairs or replacements. All indirect and direct costs of such correction or removal or replacement shall be at the Contractor's expense. The Contractor will also bear the expenses of making good all work of others destroyed or damaged by the correction, removal or replacement of his defective work.
- 2.10. Permits, Fees, & Notices:** The Contractor shall work with the City's General Contractor to secure all permits, governmental fees and licenses necessary for the proper execution and completion of the work. The Contractor shall give all notices and comply with all laws, ordinances, rules, regulations and orders of any public authority bearing on the performance of the work. If the Contractor observes that any of the Contract Documents are at variance in any respect, he shall promptly notify the

Owner in writing, and any necessary changes shall be adjusted by approximate modification. If the Contractor performs any work knowing it to be contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner, he shall assume full responsibility and shall bear all costs attributable.

2.11. Responsibility for Those Performing the Work: The Contractor shall be responsible to the Owner for the acts and omissions of all his employees and all sub-contractors, their agents and employees, and all other persons performing any of the work under a contract with the Contractor.

2.12. Use of the Site: The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Contract Documents, and shall not unreasonably encumber the site with any materials or equipment.

2.13. Cleanup: The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of work he shall remove all his waste materials and rubbish from and about the project, as well as all his tools, construction equipment, machinery and surplus materials.

2.14. Insurance Requirements: The selected Bidder agrees to procure and maintain, at its own cost, policy(s) of insurance sufficient to insure against all liability, claims, demands, and other obligations assumed by the Bidder pursuant to this Section. Such insurance shall be in addition to any other insurance requirements imposed by this Contract or by law. The Bidder shall not be relieved of any liability, claims, demands, or other obligations assumed pursuant to this Section by reason of its failure to procure or maintain insurance in sufficient amounts, durations, or types. Bidder shall procure and maintain and, if applicable, shall cause any Subcontractor of the Bidder to procure and maintain insurance coverage listed below. Such coverage shall be procured and maintained with forms and insurers acceptable to the Owner. All coverage shall be continuously maintained to cover all liability, claims, demands, and other obligations assumed by the Bidder pursuant to this Section. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage. Minimum coverage limits shall be as indicated below unless specified otherwise in the Special Conditions:

(a) **Worker Compensation:** Contractor shall comply with all State of Colorado Regulations concerning Workers' Compensation insurance coverage.

(b) **General Liability insurance** with minimum combined single limits of:

One Million Dollars (\$1,000,000) each occurrence and
One Million Dollars (\$1,000,000) per job aggregate.

The policy shall be applicable to all premises and operations. The policy shall include coverage for bodily injury, broad form property damage (including completed operations), personal injury (including coverage for contractual and employee acts),

blanket contractual, products, and completed operations. The policy shall include coverage for explosion, collapse, and underground hazards. The policy shall contain a severability of interests provision.

(c) Comprehensive Automobile Liability insurance with minimum combined single limits for bodily injury and property damage of not less than:

One Million Dollars (\$1,000,000) each occurrence and
One Million Dollars (\$1,000,000) aggregate

This policy shall provide coverage to protect the contractor against liability incurred as a result of the professional services performed as a result of responding to this Solicitation.

With respect to each of Bidder's owned, hired, or non-owned vehicles assigned to be used in performance of the Work. The policy shall contain a severability of interests provision. The policies required by paragraphs (b), and (c) above shall be endorsed to include the City and/or County, and the City's and/or County's officers and employees as additional insureds. Every policy required above shall be primary insurance, and any insurance carried by the Owner, its officers, or its employees, or carried by or provided through any insurance pool of the Owner, shall be excess and not contributory insurance to that provided by Bidder. No additional insured endorsement to any required policy shall contain any exclusion for bodily injury or property damage arising from completed operations. The Bidder shall be solely responsible for any deductible losses under any policy required above.

2.15. Indemnification: The Contractor shall defend, indemnify and save harmless the Owner, and all its officers, employees, insurers, and self-insurance pool, from and against all liability, suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the Contractor, or of any Contractor's agent, employee, sub-contractor or supplier in the execution of, or performance under, any contract which may result from proposal award. Contractor shall pay any judgment with cost which may be obtained against the Owner growing out of such injury or damages.

2.16. Miscellaneous Conditions: Material Availability: Contractors must accept responsibility for verification of material availability, production schedules, and other pertinent data prior to submission of bid. It is the responsibility of the bidder to notify the Owner immediately if materials specified are discontinued, replaced, or not available for an extended period of time. OSHA Standards: All bidders agree and warrant that services performed in response to this invitation shall conform to the standards declared by the US Department of Labor under the Occupational Safety and Health Act of 1970 (OSHA). In the event the services do not conform to OSHA standards, the Owner may require the services to be redone at no additional expense to the Owner.

- 2.17. Time:** The Contract Time is the period of time allotted in the Contract Documents for completion of the work. The date of commencement of the work is the date established in a Notice to Proceed. If there is no Notice to Proceed, it shall be the date of the Contract or such other date as may be established therein, or as established as entered on the Bid Form. The Date of Substantial Completion of the work or designated portions thereof is the date certified by the Owner when construction is sufficiently complete, in accordance with the Contract Documents.
- 2.18. Progress & Completion:** The Contractor shall begin work on the date of commencement as defined in the Contract, and shall carry the work forward expeditiously with adequate forces and shall complete it within the contract time.
- 2.19. Payment & Completion:** The Contract Sum is stated in the Contract and is the total amount payable by the Owner to the Contractor for the performance of the work under the Contract Documents. Upon receipt of written notice that the work is ready for final inspection and acceptance and upon receipt of application for payment, the Owner's Project Manager will promptly make such inspection and, when he finds the work acceptable under the Contract Documents and the Contract fully performed, the Owner shall make payment in the manner provided in the Contract Documents.
- 2.20. Quantities of Work and Unit Price:** Materials or quantities stated as unit price items in the Bid are supplied only to give an indication of the general scope of the Work. The City does not expressly or by implication agree that the actual amount of Work or material will correspond therewith, and reserves the right after award to increase or decrease the quantity of any unit item of the Work without a change in the unit price. The City also reserves the right to make changes in the Work including the right to delete any bid item in its entirety or add additional bid items.
- 2.21. Bid Bond:** Each Bid shall as a guaranty of good faith on the part of the Bidder be accompanied by a Bid Guaranty consisting of: a certified or cashier's check drawn on an approved national bank or trust company in the state of Colorado, and made payable without condition to the City; or a **Bid Bond** written by an approved corporate surety in favor of the City. The amount of the Bid Guaranty shall not be less than 5% of the total Bid amount. Once a Bid is accepted and a Contract is awarded, the apparent successful bidder has ten calendar days to enter into a contract in the form prescribed and to furnish the bonds with a legally responsible and approved surety. Failure to do so will result in forfeiture of the Bid Guaranty to the City as Liquidated Damages.
- 2.22. Performance & Payment Bonds:** Contractor shall furnish a Performance and a Payment Bond, each in an amount at least equal to that specified for the contract amount as security for the faithful performance and payment of all Contractor's obligations under the Contract Documents. These bonds shall remain in effect for the duration of the Warranty Period (as specified in the Special Conditions). Contractor shall also furnish other bonds that may be required by the Special Conditions. All bonds shall be in the forms prescribed by the Contract Documents and be executed by such sureties as (1) are licensed to conduct business in the State of Colorado and (2) are named in the current list of "Companies Holding Certificates

of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies” as published in Circular 570 (amended) by the Audit Staff, Bureau of Accounts, U.S. Treasury Department. All bonds signed by an agent must be accompanied by a certified copy of the Authority Act. If the surety on any bond furnished by the Contractor is declared bankrupt, or becomes insolvent, or its rights to do business in Colorado are terminated, or it ceases to meet the requirements of clauses (1) and (2) of this section, Contractor shall within five (5) days thereafter substitute another bond and surety, both of which shall be acceptable to the City.

- 2.23. Retention:** The Owner will deduct money from the partial payments in amounts considered necessary to protect the interest of the Owner and will retain this money until after completion of the entire contract. The amount to be retained from partial payments will be five (5) percent of the value of the completed work, and not greater than five (5) percent of the amount of the Contract. When the retainage has reached five (5) percent of the amount of the Contract no further retainage will be made and this amount will be retained until such time as final payment is made.
- 2.24. Liquidated Damages for Failure to Enter Into Contract: CITY ONLY** Should the Successful Bidder fail or refuse to enter into the Contract within ten Calendar Days from the issuance of the Notice of Award, the City shall be entitled to collect the amount of such Bidder's Bid Guaranty as Liquidated Damages, not as a penalty but in consideration of the mutual release by the City and the Successful Bidder of all claims arising from the City's issuance of the Notice of Award and the Successful Bidder's failure to enter into the Contract and the costs to award the Contract to any other Bidder, to readvertise, or otherwise dispose of the Work as the City may determine best serves its interest.
- 2.25. Liquidated Damages for Failure to Meet Project Completion Schedule: CITY ONLY** If the Contractor does not achieve Final Completion by the required date, whether by neglect, refusal or any other reason, the parties agree and stipulate that the Contractor shall pay liquidated damages to the City for each such day that final completion is late. As provided elsewhere, this provision does not apply for delays caused by the City. The date for Final Completion may be extended in writing by the Owner.

The Contractor agrees that as a part of the consideration for the City's awarding of this Contract liquidated damages in the daily amount of **\$350.00** is reasonable and necessary to pay for the actual damages resulting from such delay. The parties agree that the real costs and injury to the City for such delay include hard to quantify items such as: additional engineering, inspection and oversight by the City and its agents; additional contract administration; inability to apply the efforts of those employees to the other work of the City; perceived inefficiency of the City; citizens having to deal with the construction and the Work, rather than having the benefit of a completed Work, on time; inconvenience to the public; loss of reputation and community standing for the City during times when such things are very important and very difficult to maintain.

The Contractor must complete the Work and achieve final completion included under the Bid Schedule in the number of consecutive calendar days after the City gives is written Notice to Proceed. When the Contractor considers the entire Work ready for its intended use, Contractor shall certify in writing that the Work is substantially complete. In addition to the Work being substantially complete, Final Completion date is the date by which the Contractor shall have fully completed all clean-up, and all items that were identified by the City in the inspection for final completion. Unless otherwise stated in the Special Conditions, for purposes of this liquidated damages clause, the Work shall not be finished and the Contract time shall continue to accrue until the City gives its written Final Acceptance.

If the Contractor shall fail to pay said liquidated damages promptly upon demand thereof after having failed to achieve Final Completion on time, the City shall first look to any retainage or other funds from which to pay said liquidated damages; if retainage or other liquid funds are not available to pay said liquidated damages amounts, the Surety on the Contractor's Performance Bond and Payment Bond shall pay such liquidated damages. In addition, the City may withhold all, or any part of, such liquidated damages from any payment otherwise due the Contractor.

Liquidated damages as provided do not include any sums to reimburse the City for extra costs which the City may become obligated to pay on other contracts which were delayed or extended because of the Contractor's failure to complete the Work within the Contract Time. Should the City incur additional costs because of delays or extensions to other contracts resulting from the Contractor's failure of timely performance, the Contractor agrees to pay these costs that the City incurs because of the Contractor's delay, and these payments are separate from and in addition to any liquidated damages.

The Contractor agrees that the City may use its own forces or hire other parties to obtain Substantial or Final Completion of the work if the time of completion has elapsed and the Contractor is not diligently pursuing completion. In addition to the Liquidated Damages provided for, the Contractor agrees to reimburse the City for all expenses thus incurred.

- 2.26. Contingency/Force Account:** Contingency/Force Account work will be authorized by the Owner's Project Manager and is defined as minor expenses to cover miscellaneous or unforeseen expenses related to the project. The expenses are not included in the Drawings, Specifications, or Scope of Work and are necessary to accomplish the scope of this contract. Contingency/Force Account Authorization will be directed by the Owner through an approved form. Contingency/Force Account funds are the property of the Owner and any Contingency/Force Account funds, not required for project completion, shall remain the property of the Owner. Contractor is not entitled to any Contingency/Force Account funds, that are not authorized by Owner or Owner's Project Manager.
- 2.27. Protection of Persons & Property:** The Contractor shall comply with all applicable laws, ordinances, rules, regulations and orders of any public authority having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss. Contractor shall erect and maintain, as required by existing safeguards

for safety and protection, and all reasonable precautions, including posting danger signs or other warnings against hazards promulgating safety regulations and notifying owners and users of adjacent utilities. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct by the Contractor in the execution of the work, or in consequence of the non-execution thereof by the Contractor, he shall restore, at his own expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, or otherwise restoring as may be directed, or it shall make good such damage or injury in an acceptable manner.

- 2.28. Changes in the Work:** The Owner, without invalidating the contract, may order changes in the work within the general scope of the contract consisting of additions, deletions or other revisions, the contract sum and the contract time being adjusted accordingly. All such changes in the work shall be authorized by Change Order and shall be executed under the applicable conditions of the contract documents. A Change Order is a written order to the Contractor signed by the Owner issued after the execution of the contract, authorizing a change in the work or an adjustment in the contract sum or the contract time. The contract sum and the contract time may be changed only by Change Order.
- 2.29. Claims for Additional Cost or Time:** If the Contractor wishes to make a claim for an increase in the contract sum or an extension in the contract time, he shall give the Owner written notice thereof within a reasonable time after the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the work, except in an emergency endangering life or property in which case the Contractor shall precede in accordance with the regulations on safety. No such claim shall be valid unless so made. Any change in the contract sum or contract time resulting from such claim shall be authorized by Change Order.
- 2.30. Minor Changes in the Work:** The Owner shall have authority to order minor changes in the work not involving an adjustment in the contract sum or an extension of the contract time and not inconsistent with the intent of the contract documents.
- 2.31. Field Orders:** The Owner may issue written Field Orders which interpret the Contract Documents in accordance with the specifications, or which order minor changes in the work in accordance with the agreement, without change in the contract sum or time. The Contractor shall carry out such Field Orders promptly.
- 2.32. Uncovering & Correction of Work:** The Contractor shall promptly correct all work rejected by the Owner as defective or as failing to conform to the contract documents whether observed before or after substantial completion and whether or not fabricated installed or completed. The Contractor shall bear all costs of correcting such rejected work, including the cost of the Owner's additional services thereby made necessary. If within one (1) year after the date of completion or within such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the contract documents, any of the work found to be defective or not in accordance with the contract documents, the Contractor shall

correct it promptly after receipt of a written notice from the Owner to do so unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discover of condition. All such defective or non-conforming work under the above paragraphs shall be removed from the site where necessary and the work shall be corrected to comply with the contract documents without cost to the Owner. The Contractor shall bear the cost of making good all work of separate Contractors destroyed or damaged by such removal or correction. If the Owner prefers to accept defective or non-conforming work, he may do so instead of requiring its removal and correction, in which case a Change Order will be issued to reflect an appropriate reduction in the payment or contract sum, or, if the amount is determined after final payment, it shall be paid by the Contractor.

- 2.30. Amendment:** No oral statement of any person shall modify or otherwise change, or affect the terms, conditions or specifications stated in the resulting contract. All amendments to the contract shall be made in writing by the Owner.
- 2.31. Assignment:** The Contractor shall not sell, assign, transfer or convey any contract resulting from this IFB, in whole or in part, without the prior written approval from the Owner.
- 2.32. Compliance with Laws:** Bids must comply with all Federal, State, County and local laws governing or covering this type of service and the fulfillment of all ADA (Americans with Disabilities Act) requirements.
- 2.33. Confidentiality:** All information disclosed by the Owner to the Contractor for the purpose of the work to be done or information that comes to the attention of the Contractor during the course of performing such work is to be kept strictly confidential.
- 2.34. Conflict of Interest:** No public official and/or City/County employee shall have interest in any contract resulting from this IFB.
- 2.35. Contract Termination:** This contract shall remain in effect until any of the following occurs: (1) contract expires; (2) completion of services; (3) acceptance of services or, (4) for convenience terminated by either party with a written *Notice of Cancellation* stating therein the reasons for such cancellation and the effective date of cancellation.
- 2.36. Employment Discrimination:** During the performance of any services per agreement with the Owner, the Contractor, by submitting a Bid, agrees to the following conditions:
 - 2.36.1.** The Contractor shall not discriminate against any employee or applicant for employment because of race, religion, color, sex, age, handicap, or national origin except when such condition is a legitimate occupational qualification reasonably necessary for the normal operations of the Contractor. The Contractor agrees to post in conspicuous places, visible to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

- 2.36.2.** The Contractor, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, shall state that such Contractor is an Equal Opportunity Employer.
- 2.36.3.** Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
- 2.37. Immigration Reform and Control Act of 1986 and Immigration Compliance:** The Offeror certifies that it does not and will not during the performance of the contract employ illegal alien workers or otherwise violate the provisions of the Federal Immigration Reform and Control Act of 1986 and/or the immigration compliance requirements of State of Colorado C.R.S. § 8-17.5-101, *et.seq.* (House Bill 06-1343).
- 2.38. Ethics:** The Contractor shall not accept or offer gifts or anything of value nor enter into any business arrangement with any employee, official, or agent of the Owner.
- 2.39. Failure to Deliver:** In the event of failure of the Contractor to deliver services in accordance with the contract terms and conditions, the Owner, after due oral or written notice, may procure the services from other sources and hold the Contractor responsible for any costs resulting in additional purchase and administrative services. This remedy shall be in addition to any other remedies that the Owner may have.
- 2.40. Failure to Enforce:** Failure by the Owner at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of the Owner to enforce any provision at any time in accordance with its terms.
- 2.41. Force Majeure:** The Contractor shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions, and acts of God beyond the control of the Contractor, unless otherwise specified in the contract.
- 2.42. Independent Contractor:** The Contractor shall be legally considered an Independent Contractor and neither the Contractor nor its employees shall, under any circumstances, be considered servants or agents of the Owner. The Owner shall be at no time legally responsible for any negligence or other wrongdoing by the Contractor, its servants, or agents. The Owner shall not withhold from the contract payments to the Contractor any federal or state unemployment taxes, federal or state income taxes, Social Security Tax or any other amounts for benefits to the Contractor. Further, the Owner shall not provide to the Contractor any insurance coverage or other benefits, including Workers' Compensation, normally provided by the Owner for its employees.
- 2.43. Nonconforming Terms and Conditions:** A bid that includes terms and conditions that do not conform to the terms and conditions of this Invitation for Bid is subject to rejection as non-responsive. The Owner reserves the right to permit the Contractor to withdraw nonconforming terms and conditions from its bid prior to a determination

by the Owner of non-responsiveness based on the submission of nonconforming terms and conditions.

- 2.44. Ownership:** All plans, prints, designs, concepts, etc., shall become the property of the Owner.
- 2.45. Oral Statements:** No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this document and/or resulting agreement. All modifications to this request and any agreement must be made in writing by the Owner.
- 2.46. Patents/Copyrights:** The Contractor agrees to protect the Owner from any claims involving infringements of patents and/or copyrights. In no event shall the Owner be liable to the Contractor for any/all suits arising on the grounds of patent(s)/copyright(s) infringement. Patent/copyright infringement shall null and void any agreement resulting from response to this IFB.
- 2.47. Remedies:** The Contractor and Owner agree that both parties have all rights, duties, and remedies available as stated in the Uniform Commercial Code.
- 2.48. Venue:** Any agreement as a result of responding to this IFB shall be deemed to have been made in, and shall be construed and interpreted in accordance with, the laws of the City of Grand Junction, Mesa County, Colorado.
- 2.49. Expenses:** Expenses incurred in preparation, submission and presentation of this IFB are the responsibility of the company and cannot be charged to the Owner.
- 2.50. Sovereign Immunity:** The Owner specifically reserves its right to sovereign immunity pursuant to Colorado State Law as a defense to any action arising in conjunction to this agreement.
- 2.51. Non-Appropriation of Funds:** The contractual obligation of the Owner under this contract is contingent upon the availability of appropriated funds from this fiscal year budget as approved by the City Council or Board of County Commissioners from this fiscal year only. State of Colorado Statutes prohibit obligation of public funds beyond the fiscal year for which the budget was approved. Anticipated expenditures/obligations beyond the end of the current Owner's fiscal year budget shall be subject to budget approval. Any contract will be subject to and must contain a governmental non-appropriation of funds clause.
- 2.52. Cooperative Purchasing:** Purchases as a result of this solicitation are primarily for the City/County. Other governmental entities may be extended the opportunity to utilize the resultant contract award with the agreement of the successful provider and the participating agencies. All participating entities will be required to abide by the specifications, terms, conditions and pricings established in this Bid. The quantities furnished in this bid document are for only the City/County. It does not include quantities for any other jurisdiction. The City or County will be responsible only for the award for its jurisdiction. Other participating entities will place their own awards

on their respective Purchase Orders through their purchasing office or use their purchasing card for purchase/payment as authorized or agreed upon between the provider and the individual entity. The City/County accepts no liability for payment of orders placed by other participating jurisdictions that choose to piggy-back on our solicitation. Orders placed by participating jurisdictions under the terms of this solicitation will indicate their specific delivery and invoicing instructions.

- 2.53. Keep Jobs in Colorado Act:** Contractor shall be responsible for ensuring compliance with Article 17 of Title 8, Colorado Revised Statutes requiring 80% Colorado labor to be employed on public works. Contractor shall, upon reasonable notice provided by the Owner, permit the Owner to inspect documentation of identification and residency required by C.R.S. §8-17-101(2)(a). If Contractor claims it is entitled to a waiver pursuant to C.R.S. §8-17-101(1), Contractor shall state that there is insufficient Colorado labor to perform the work such that compliance with Article 17 would create an undue burden that would substantially prevent a project from proceeding to completion, and shall include evidence demonstrating the insufficiency and undue burden in its response.

Unless expressly granted a waiver by the Owner pursuant to C.R.S. §8-17-101(1), Contractor shall be responsible for ensuring compliance with Article 17 of Title 8, Colorado Revised Statutes requiring 80% Colorado labor to be employed on public works. Contractor shall, upon reasonable notice provided by the Owner, permit the Owner to inspect documentation of identification and residency required by C.R.S. §8-17-101(2)(a).

2.53.1. "Public project" is defined as:

- (a) any construction, alteration, repair, demolition, or improvement of any land, building, structure, facility, road, highway, bridge, or other public improvement suitable for and intended for use in the promotion of the public health, welfare, or safety and any maintenance programs for the upkeep of such projects
- (b) for which appropriate or expenditure of moneys may be reasonably expected to be \$500,000.00 or more in the aggregate for any fiscal year
- (c) except any project that receives federal moneys.

3. Statement of Work

3.1. General: The City of Grand Junction is soliciting competitive bids from qualified and interested companies for all labor, equipment, and materials required provide, deliver, and construct/erect/install a new salt storage shed for the City Streets Division. All dimensions and scope of work should be verified by Contractors prior to submission of bids.

3.2. Special Conditions & Provisions:

3.2.1 Mandatory Site Visit/Briefing: Prospective bidders are required to attend a site visit/briefing on March 29, 2017 at 10:00am. Meeting location shall be at

333 West Avenue, Building B, Grand Junction, CO. The purpose of this visit will be to inspect and to clarify the contents of this Invitation for Bids (IFB).

3.2.2 Pricing: Pricing shall be all inclusive to include but not be limited to: all labor, equipment, supplies, materials, freight (F.O.B. Destination – Freight Pre-paid and Allowed to project site), travel, mobilization costs, fuel, set-up and take down costs, and full-time inspection costs, and all other costs related to the successful completion of the project.

The Owner shall not pay nor be liable for any other additional costs including but not limited to: taxes, shipping charges, insurance, interest, penalties, termination payments, attorney fees, liquidated damages, etc.

3.2.3 Contractor must meet all federal, state, and local rules, regulations, and requirements for providing such services.

3.2.4 Licenses and Permits: Contractor is responsible for obtaining all necessary licenses and permits required for Construction, at Contractors expense. See Section 2.10. Contractor shall supply to Owner all copies of finalized permits.

3.2.5 Contractor Staging Area: Awarded Contractor shall coordinate with Owner for proposed project staging area (if required).

3.2.6 Freight/Shipping: All freight/shipping shall be F.O.B. Destination – Freight Pre-Paid and Allowed to Municipal Services Campus, 333 West Avenue, Building B, Grand Junction, CO.

3.2.7 Equipment/Product/Materials Quantities: Contractor shall be responsible for determining all measurements for correctness, and all quantities of equipment/products/materials required for successful project completion.

3.2.8 Working Schedule: Monday-Friday 7:00am-5:30pm. Any additional work schedule changes shall be coordinated with the City's Project Manager.

3.2.9 Project Schedule: 60 calendar days from receipt of Notice to Proceed. Note: Equipment lead time for order and delivery shall not count toward the 60 calendar days.

3.2.10 Project Location: City of Grand Junction, Municipal Services Campus, 333 West Avenue, Building B, Grand Junction, CO.

3.2.11 Contract: A binding contract shall consist of: (1) the RFP and any amendments thereto, (2) the bidder's response (bid) to the RFP, (3) clarification of the bid, if any, and (4) the City's Purchasing Department's acceptance of the bid by "Notice of Award". All Exhibits and Attachments included in the RFP shall be incorporated into the contract by reference.

A. The contract expresses the complete agreement of the parties and, performance shall be governed solely by the specifications and requirements contained therein.

B. Any change to the contract, whether by modification and/or supplementation, must be accomplished by a formal contract amendment signed and approved by and between the duly authorized representative of the bidder and the City Purchasing Division or by a modified Purchase Order prior to the effective date of such modification. The bidder expressly and explicitly understands and agrees that no other method and/or no other document, including acts and oral communications by or from any person, shall be used or construed as an amendment or modification to the contract.

3.3. Scope of Work:

Contractor shall purchase, deliver, and install, on site, a covered storage shed to be used for storage of salt/snow and ice melting media for the City's Streets Division, of approximately a minimum 60'Wx100'Lx30'H, to be built on site mounted on 6'H block wall. Owner is not looking for custom dimensions for this building, but is instead looking for as close to "manufacturer stock" dimensions as possible, while meeting the approximate minimum dimensions stated herein.

Contractor shall provide exact building specifications and drawings with their bid submissions in order for Owner to construct the foundation and walls to the buildings specifications.

Storage Shed Minimum Specifications:

- Dimensions, approximately a minimum 60'Wx100'Lx30'H
- Fabric Covered, UV resistant, and allowing natural light through
- Galvanized steel frame and components
- Storage shed shall be engineered to our location using International Building Code standards and meet Mesa County Building Codes, and for use as a salt/snow and ice melting media storage facility.
- Warranty: Fabric 20 years, Frame and components 25 years
- Appropriate vents for building use.
- Man Door: Qty 1, 3'x7' front opening
- Roll Up type or equivalent Garage Door: Qty 1, 20'x20', front opening
- Rear building enclosed, no doors

- **Add/Alternate:** Additional Roll Up type or equivalent Garage Door: Qty 1, 20'x20' rear opening

All site work, paving, electrical, concrete block wall, and foundation shall be the responsibility of, and performed by, the Owner.

3.4. IFB Tentative Time Schedule:

Invitation For Bids available	March 17, 2017
Mandatory Site Visit/Briefing	March 29, 2017
Inquiry deadline, no questions after this date	March 31, 2017

Addendum Posted	April 3, 2017
Submittal deadline for proposals	April 6, 2017
Contract execution (unless Council approval required)	April 11, 2017
Bonding & Insurance Cert due	April 17, 2017
Work begins no later than	April 19, 2017
Final Completion	August 31, 2017

3.5. Questions Regarding Scope of Services:

Duane Hoff Jr., Senior Buyer
City of Grand Junction
duaneh@gjcity.org

4. Contractor's Bid Form

Bid Date: _____

Project: IFB-4314-16-DH "Salt Storage Shed for City Streets Division"

Bidding Company: _____

Name of Authorized Agent: _____

Email _____

Telephone _____ **Address** _____

City _____ **State** _____ **Zip** _____

The undersigned Bidder, in compliance with the Invitation for Bids, having examined the Instruction to Bidders, General Contract Conditions, Statement of Work, Specifications, and any and all Addenda thereto, having investigated the location of, and conditions affecting the proposed work, hereby proposes to furnish all labor, materials and supplies, and to perform all work for the Project in accordance with Contract Documents, within the time set forth and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Contractor's Bid Form is a part.

The undersigned Contractor does hereby declare and stipulate that this offer is made in good faith without collusion or connection to any person(s) providing an offer for the same work, and that it is made in pursuance of, and subject to, all terms and conditions of the Instructions to Bidders, the Specifications, and all other Solicitation Documents, all of which have been examined by the undersigned.

The Contractor also agrees that if awarded the Contract, to provide insurance certificates within ten (10) working days of the date of Notification of Award. Submittal of this offer will be taken by the Owner as a binding covenant that the Contractor will be prepared to complete the project in its entirety.

The Owner reserves the right to make the award on the basis of the offer deemed most favorable, to waive any formalities or technicalities and to reject any or all offers. It is further agreed that this offer may not be withdrawn for a period of sixty (60) calendar days after closing time. Submission of clarifications and revised offers automatically establish a new thirty day (30) period.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents.

State number of Addenda received: _____.

It is the responsibility of the Bidder to ensure all Addenda have been received and acknowledged.

Company Name – (Typed or Printed)

Authorized Agent – (Typed or Printed)

Authorized Agent Signature

Phone Number

Address of Offeror

E-mail Address of Agent

City, State, and Zip Code

Date

PRICE BID SCHEDULE: IFB-4314-16-DH Salt Storage Shed for City Streets Division

Item No.	Description	Total Bid Price
1	Provide, deliver, and construct/erect/install a new salt storage shed for the City Streets Division, as per the solicitation documents.	

Total Bid Price Written:

Add/Alternate

Item No.	Description	Total Add/Alternate Price
1	Additional Roll Up type or equivalent Garage Door: Qty 1, 20'x20' rear opening, as per solicitation documents.	

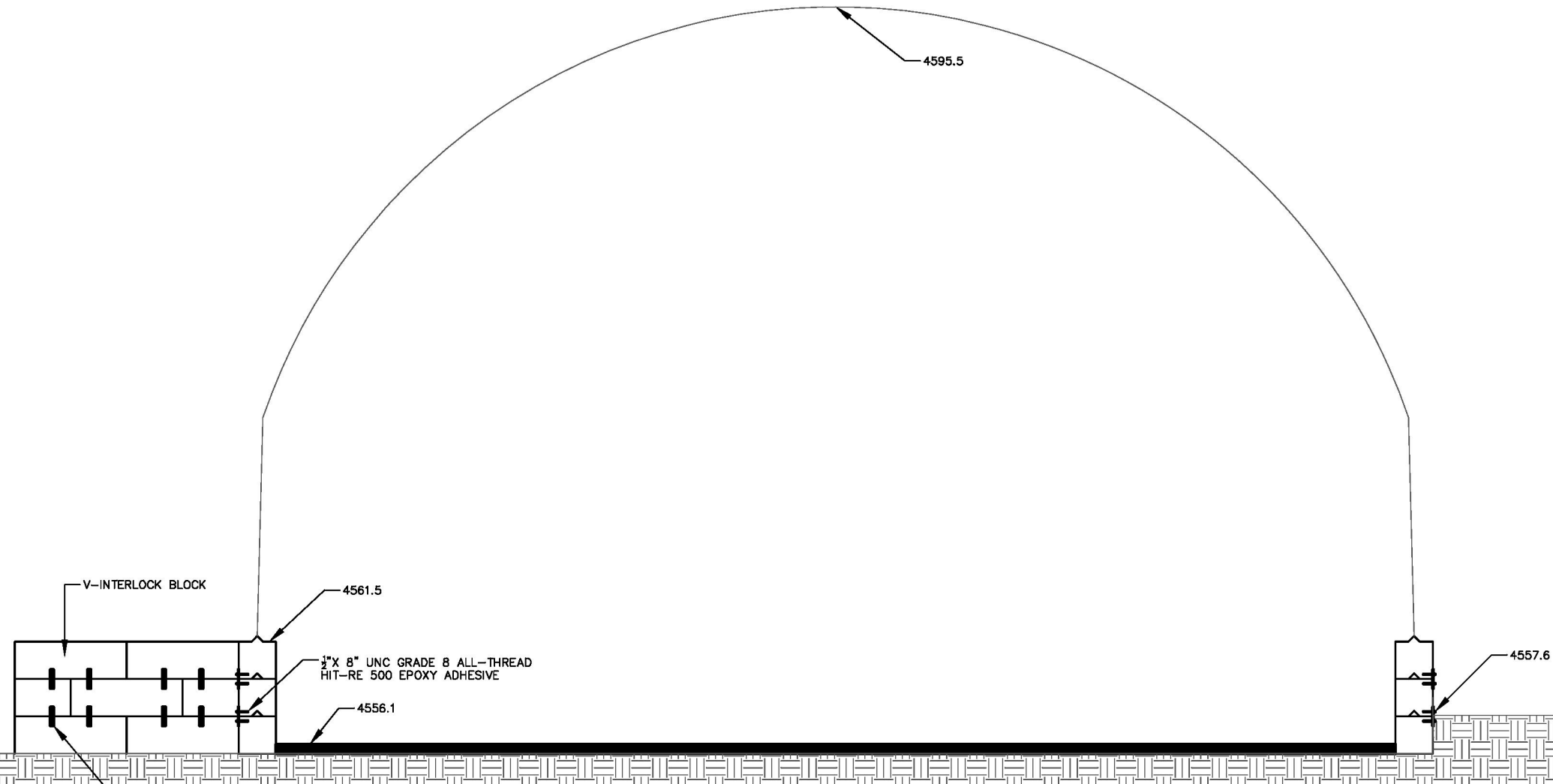
Total Add/Alternate Price Written:

By signing below, the Undersigned agree to comply with all terms and conditions contained herein.

Company: _____

Authorized Signature: _____

Title: _____



4595.5

V-INTERLOCK BLOCK

4561.5

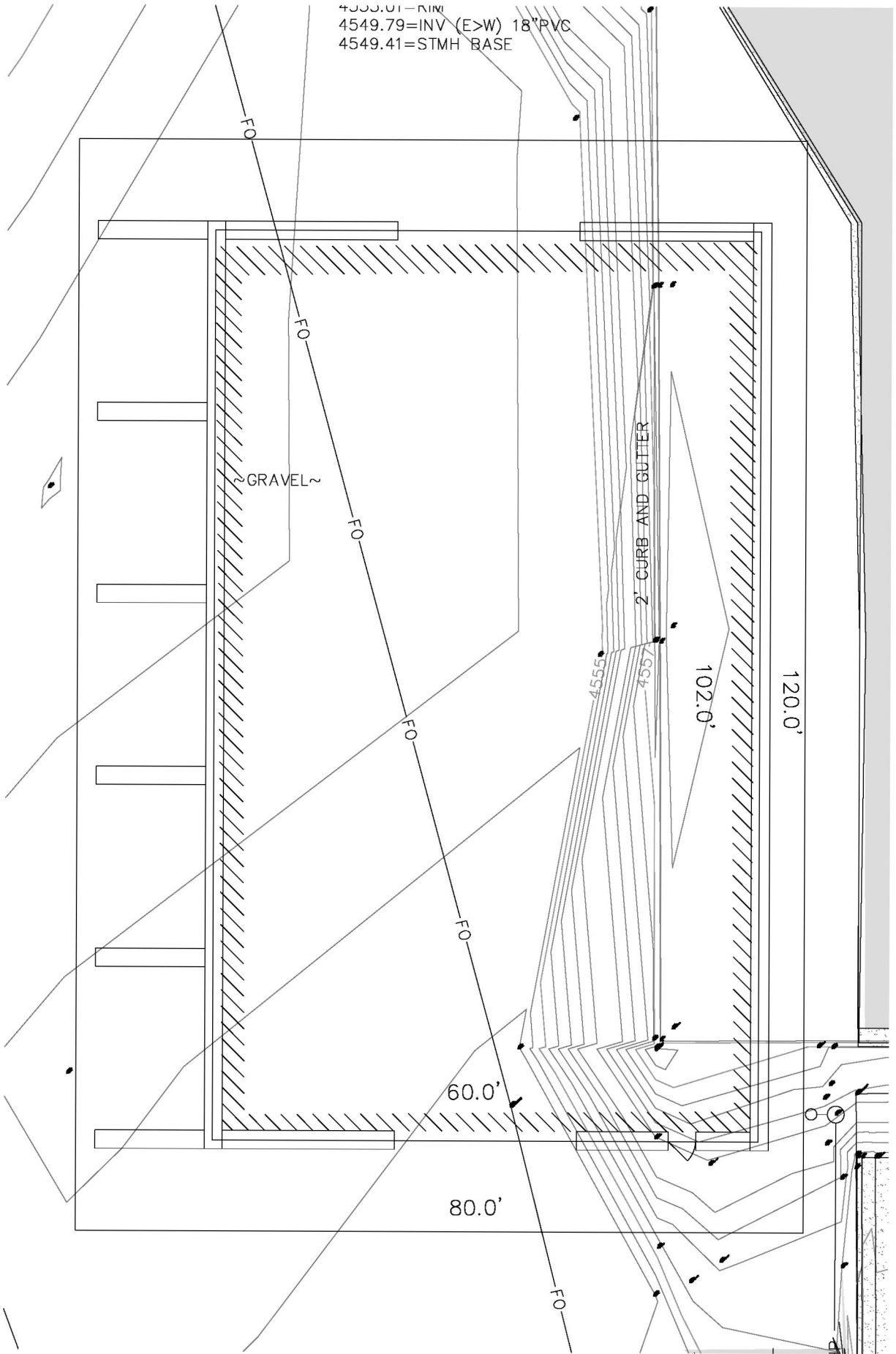
1/2" X 8" UNC GRADE 8 ALL-THREAD
HIT-RE 500 EPOXY ADHESIVE

4556.1

4557.6

12" X 2" X 3/4" STRAP
1/2" DIA HOLES (2)

4553.01=NIM
4549.79=INV (E>W) 18" PVC
4549.41=STMH BASE





Purchasing Division

ADDENDUM NO. 1

DATE: March 22, 2017
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Salt Storage Shed for City Streets Division IFB-4314-17-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Section 2.53 explains the requirement for Colorado labor to be used on public works projects. The sub-section 2.53.1 looks as though it would exclude this project because the expected expenditure will be much lower than \$500,000. Please confirm that the awarded contractor will not be required to hire local labor on this project.
 - A. Section 2.53 Keep Jobs in Colorado Act pertains to only to projects that are \$500,000 or more. If the awarded contract is less than this amount, then this section would not apply to this project.
2. Q. Section 2.10 states that the awarded contractor will work with the City's General Contractor to secure the permits and licenses needed to perform the work. Section 3.2.4 states that the contractor is responsible for obtaining the permits and licenses at the contractor's expense. Please clarify if the awarded contractor will be viewed as the GC on this project or if there will be a GC running the project whom we will need to work through.
 - A. The contractor will be required to work under the City's GC for the project. However, building plans will be required to be submitted within two weeks of Notice of award for the City's GC to obtain the Building permit.
3. Q. Section 3.3 requires the structure to meet the IBC standards and the Mesa County Building Code. Do you have a specific contact at the building department in the county we can reach out to in order to confirm the requirements?
 - A. The City has been working with John Anderson 244-1630 and Darrell Bay 244-1651 regarding this structure.

4. Q. Section 3.3 requires a 20x20 roll up type door. Should this door be a manual chain hoist or does it need to be provided with an electric opener? Is there a preferred door vendor the City has had success with locally?
- A. There shall be two Add Alternates for this item. One for a manual chain hoist and the other to include an electric opener. Contractor shall utilize the attached Revised Price Bid Schedule with their bid submittal.
5. Q. Section 3.3 requires a 3'x7' man door. Does this door need to meet any ADA requirements or include a closer? Otherwise most salt sheds are provided with simple man doors with a standard turn knob design.
- A. Not and ADA requirement for the Man Door.
6. Q. Regarding the fabric to be used on the structure. The IBC requires that all membrane covers meet the NFPA 701 flame retardant rating. Many municipalities allow themselves a variance to use a standard material instead that has a longer life expectancy. Please confirm if the NFPA 701 material will be required.
- A. After discussions with both Mesa County Building Department and the Fire Department they will not be waiving the requirement for membrane covers. All Membrane covers must meet the NFPA 701 flame retardant rating.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,



Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado

REVISED – ADDENDUM 1 - PRICE BID SCHEDULE: IFB-4314-16-DH Salt Storage Shed for City Streets Division

Item No.	Description	Total Bid Price
1	Provide, deliver, and construct/erect/install a new salt storage shed for the City Streets Division, as per the solicitation documents.	

Total Bid Price Written:

Add/Alternate 1

Item No.	Description	Total Add/Alternate Price
1	Additional Roll Up type or equivalent Garage Door: Qty 1, 20'x20' rear opening, with manual chain hoist, as per solicitation documents.	

Total Add/Alternate 1 Price Written:

Add/Alternate 2

Item No.	Description	Total Add/Alternate Price
1	Additional Roll Up type or equivalent Garage Door: Qty 1, 20'x20' rear opening, electric opener, as per solicitation documents.	

Total Add/Alternate 2 Price Written:

By signing below, the Undersigned agree to comply with all terms and conditions contained herein.

Company: _____

Authorized Signature: _____

Title: _____



Purchasing Division

ADDENDUM NO. 2

DATE: March 24, 2017
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Salt Storage Shed for City Streets Division IFB-4314-17-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Would you consider a Sprung fabric building which has aluminum beams that will last longer than galvanized steel for the Salt Storage Shed project?
 - A. The Owner will consider alternative products that meet IBC, Mesa County Building Code, and NFPA 701 standards, as well as the desired intent of the project.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written over a white rectangular area.

Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado



Purchasing Division

ADDENDUM NO. 3

DATE: March 27, 2017
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Salt Storage Shed for City Streets Division IFB-4314-17-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. On the overhead door, is it to have an electric opener?
A. See Item 4 of Addendum 1.
2. Q. Is the 30'H dimension just the shed structure itself or does that dimension also include the foundation and walls?
A. The 30'H dimension is for the shed structure and does not include the foundation and wall dimensions.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", written over a white background.

Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado



Purchasing Division

ADDENDUM NO. 4

DATE: April 3, 2017
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Salt Storage Shed for City Streets Division IFB-4314-17-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. Q. Are building dimensions of 60 ft wide x 96 ft long acceptable as long as building is 30 ft tall?
 - A. Contractor shall provide a building as close to the 60'Wx100'Lx30'H as possible for what they have considered to be a "manufacturer stock" item.
2. Q. I do not see a color preference. Do you have a specific color in mind? For Cover? Ends?
 - A. The Owner shall determine product colors, once an award is issued.
3. Q. What do you want for a ventilation system? Static? Mesh?
 - A. Ventilation system can be either static or mesh.
4. Q. Will a galvanized steel frame be sufficient or is powder coating required in addition to galvanizing?
 - A. Powder coating is not required.
5. Q. Regarding the vents, could you provide the size of Louver and /or Exhaust Vent required, along with the quantity per side of the structure?
 - A. Static or Mesh vents are acceptable. The quantity and placement shall be as required by the Mesa County Building Code.
6. Q. What is the ground snow load requirement (PSF)?

- A. It is the bidder's responsibility to research and verify this requirement through the appropriate authority, in this case the Mesa County Building Department (Mesa County Building Code).
7. Q. What are your design wind load requirements (MPH 3-Second Gust)?
- A. It is the bidder's responsibility to research and verify this requirement through the appropriate authority, in this case the Mesa County Building Department (Mesa County Building Code).
8. Q. Do you require stamped engineering drawings for permitting? If so, please list which drawings or reports will be needed.
- A. Yes. All applicable to Mesa County Building Code requirements.
9. Q. Should the cover material be certified as no growth mildew resistance to ASTM G21?
- A. It is the bidder's responsibility to research and verify this requirement through the appropriate authority, in this case the Mesa County Building Department (Mesa County Building Code).
10. Q. In addition to NFPA 701, should the cover material meet CPAI-84 and ULC 109?
- A. It is the bidder's responsibility to research and verify this requirement through the appropriate authority, in this case the Mesa County Building Department (Mesa County Building Code).
11. Q. Should US steel be required, not allowing foreign steel or aluminum in the frame?
- A. "Made in America/Made in USA" standards do not apply to this project.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,



Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado

4. Contractor's Bid Form

Bid Date: 4/6/17

Project: IFB-4314-16-DH "Salt Storage Shed for City Streets Division"

Bidding Company: A+B Construction LTD

Name of Authorized Agent: Ben Striegel

Email: striegel b1@yahoo.com

Telephone: 319 330 0566 Address: 30810 200th St

City: Harper State: IA Zip: 52231

The undersigned Bidder, in compliance with the Invitation for Bids, having examined the Instruction to Bidders, General Contract Conditions, Statement of Work, Specifications, and any and all Addenda thereto, having investigated the location of, and conditions affecting the proposed work, hereby proposes to furnish all labor, materials and supplies, and to perform all work for the Project in accordance with Contract Documents, within the time set forth and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this Contractor's Bid Form is a part.

The undersigned Contractor does hereby declare and stipulate that this offer is made in good faith without collusion or connection to any person(s) providing an offer for the same work, and that it is made in pursuance of, and subject to, all terms and conditions of the Instructions to Bidders, the Specifications, and all other Solicitation Documents, all of which have been examined by the undersigned.

The Contractor also agrees that if awarded the Contract, to provide insurance certificates within ten (10) working days of the date of Notification of Award. Submittal of this offer will be taken by the Owner as a binding covenant that the Contractor will be prepared to complete the project in its entirety.

The Owner reserves the right to make the award on the basis of the offer deemed most favorable, to waive any formalities or technicalities and to reject any or all offers. It is further agreed that this offer may not be withdrawn for a period of sixty (60) calendar days after closing time. Submission of clarifications and revised offers automatically establish a new thirty day (30) period.

RECEIPT OF ADDENDA: the undersigned Contractor acknowledges receipt of Addenda to the Solicitation, Specifications, and other Contract Documents.

State number of Addenda received: 4.

It is the responsibility of the Bidder to ensure all Addenda have been received and acknowledged.

A+B Construction LTD
Company Name - (Typed or Printed)

Ben Striegel
Authorized Agent Signature

30810 200th St
Address of Offeror

Harper, IA 52231
City, State, and Zip Code

Authorized Agent - (Typed or Printed)

319 330 0566
Phone Number

striegel b1@yahoo.com
E-mail Address of Agent

4/6/17
Date

REVISED – ADDENDUM 1 - PRICE BID SCHEDULE: IFB-4314-16-DH Salt Storage Shed for City Streets Division

Item No.	Description	Total Bid Price
1	Provide, deliver, and construct/erect/install a new salt storage shed for the City Streets Division, as per the solicitation documents.	70,401.00

Total Bid Price Written:

seventy thousand four hundred one $\frac{xv}{100}$

Add/Alternate 1

Item No.	Description	Total Add/Alternate Price
1	Additional Roll Up type or equivalent Garage Door: Qty 1, 20'x20' rear opening, with manual chain hoist, as per solicitation documents.	6,192.00

Total Add/Alternate 1 Price Written:

six thousand one hundred ninety-two $\frac{xv}{100}$

Add/Alternate 2

Item No.	Description	Total Add/Alternate Price
1	Additional Roll Up type or equivalent Garage Door: Qty 1, 20'x20' rear opening, electric opener, as per solicitation documents.	7,460.00

Total Add/Alternate 2 Price Written:

seven thousand four hundred sixty $\frac{xv}{100}$

By signing below, the Undersigned agree to comply with all terms and conditions contained herein.

Company: A&B Construction LTD

Authorized Signature: Ben Striegel

Title: VP

Bid Bond

 **AIA Document A310™ – 2010**

CONTRACTOR:

Name, legal status and address)

A & B CONSTRUCTION LTD
30810 200th Street
Harper, IA 52231

Bid Bond No. GR10318

SURETY:

(Name, legal status and principal place of business)

Granite Re, Inc.
14001 Quailbrook Dr
Oklahoma City, OK 73134

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:

(Name, legal status and address)

City of Grand Junction
333 West Ave. Building B
Grand Junction, CO 81501

BOND AMOUNT: Five Percent of the Bid Amount (5.00% of Bid Amount)

PROJECT:

(Name, location or address, and Project number, if any)

City of Grand Junction Colorado Salt Shed

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 3rd day of April, 2017

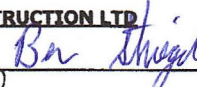
(Witness)



(Witness) Karla K. Heffron

A & B CONSTRUCTION LTD

(Principal)



(Seal)

(Title)

Granite Re, Inc.

(Surety)



(Seal)

(Title) Connie Smith, Attorney-in-Fact

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GRANITE RE, INC.
GENERAL POWER OF ATTORNEY

Know all Men by these Presents:

That GRANITE RE, INC., a corporation organized and existing under the laws of the State of OKLAHOMA and having its principal office at the City of OKLAHOMA CITY in the State of OKLAHOMA does hereby constitute and appoint:

MICHAEL J. DOUGLAS; CHRIS STEINAGEL; CHRISTOPHER M. KEMP; KARLA HEFFRON; ROBERT DOWNEY; CONNIE SMITH its true and lawful Attorney-in-Fact(s) for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said GRANITE RE, INC. a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said GRANITE RE, INC. through us, its Board of Directors, hereby ratifies and confirms all and whatsoever the said:

MICHAEL J. DOUGLAS; CHRIS STEINAGEL; CHRISTOPHER M. KEMP; KARLA HEFFRON; ROBERT DOWNEY; CONNIE SMITH may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said GRANITE RE, INC. has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its President and Secretary/Treasurer, this 3rd day of July, 2013.

STATE OF OKLAHOMA)
) SS:
COUNTY OF OKLAHOMA)



Kenneth D. Whittington
Kenneth D. Whittington, President
Kyle P. McDonald
Kyle P. McDonald, Treasurer

On this 3rd day of July, 2013, before me personally came Kenneth D. Whittington, President of the GRANITE RE, INC. Company and Kyle P. McDonald, Secretary/Treasurer of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said, that they, the said Kenneth D. Whittington and Kyle P. McDonald were respectively the President and the Secretary/Treasurer of GRANITE RE, INC., the corporation described in and which executed the foregoing Power of Attorney; that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal, that it was so fixed by order of the Board of Directors of said corporation, and that they signed their name thereto by like order as President and Secretary/Treasurer, respectively, of the Company.

My Commission Expires:
August 8, 2017
Commission #: 01013257



Kathleen E. Carlson
Notary Public

GRANITE RE, INC.
Certificate

THE UNDERSIGNED, being the duly elected and acting Secretary/Treasurer of Granite Re, Inc., an Oklahoma Corporation, HEREBY CERTIFIES that the following resolution is a true and correct excerpt from the July 15, 1987, minutes of the meeting of the Board of Directors of Granite Re, Inc. and that said Power of Attorney has not been revoked and is now in full force and effect.

"RESOLVED, that the President, any Vice President, the Secretary, and any Assistant Vice President shall each have authority to appoint individuals as attorneys-in-fact or under other appropriate titles with authority to execute on behalf of the company fidelity and surety bonds and other documents of similar character issued by the Company in the course of its business. On any instrument making or evidencing such appointment, the signatures may be affixed by facsimile. On any instrument conferring such authority or on any bond or undertaking of the Company, the seal, or a facsimile thereof, may be impressed or affixed or in any other manner reproduced; provided, however, that the seal shall not be necessary to the validity of any such instrument or undertaking."

IN WITNESS WHEREOF, the undersigned has subscribed this Certificate and affixed the corporate seal of the Corporation this
3rd day of April, 2017.



Kyle P. McDonald
Kyle P. McDonald, Secretary/Treasurer



LP SERIES BUILDINGS

DURABILITY YOU WANT WITH THE INNOVATION YOU NEED

WE WORK HARD AT DELIVERING....
SUPERIOR DESIGN WITH THE BEST VALUE

CHORD DEPTH

Optimum chord depth maximizes efficiency and provides a wide range of uses (conveyors, lighting, sprinklers, etc.)

BRIDGING

A very critical design element. For deep chord depths (greater than 18"), X-Brace bridging is superior. All bridging is tubing.

RUB RAIL

Cold formed 6" C-channel and 1/4" thick mounting brackets make up the rub rail. Designed to handle the highest winds and prevent damage to cover at the leg transition.

CABLING

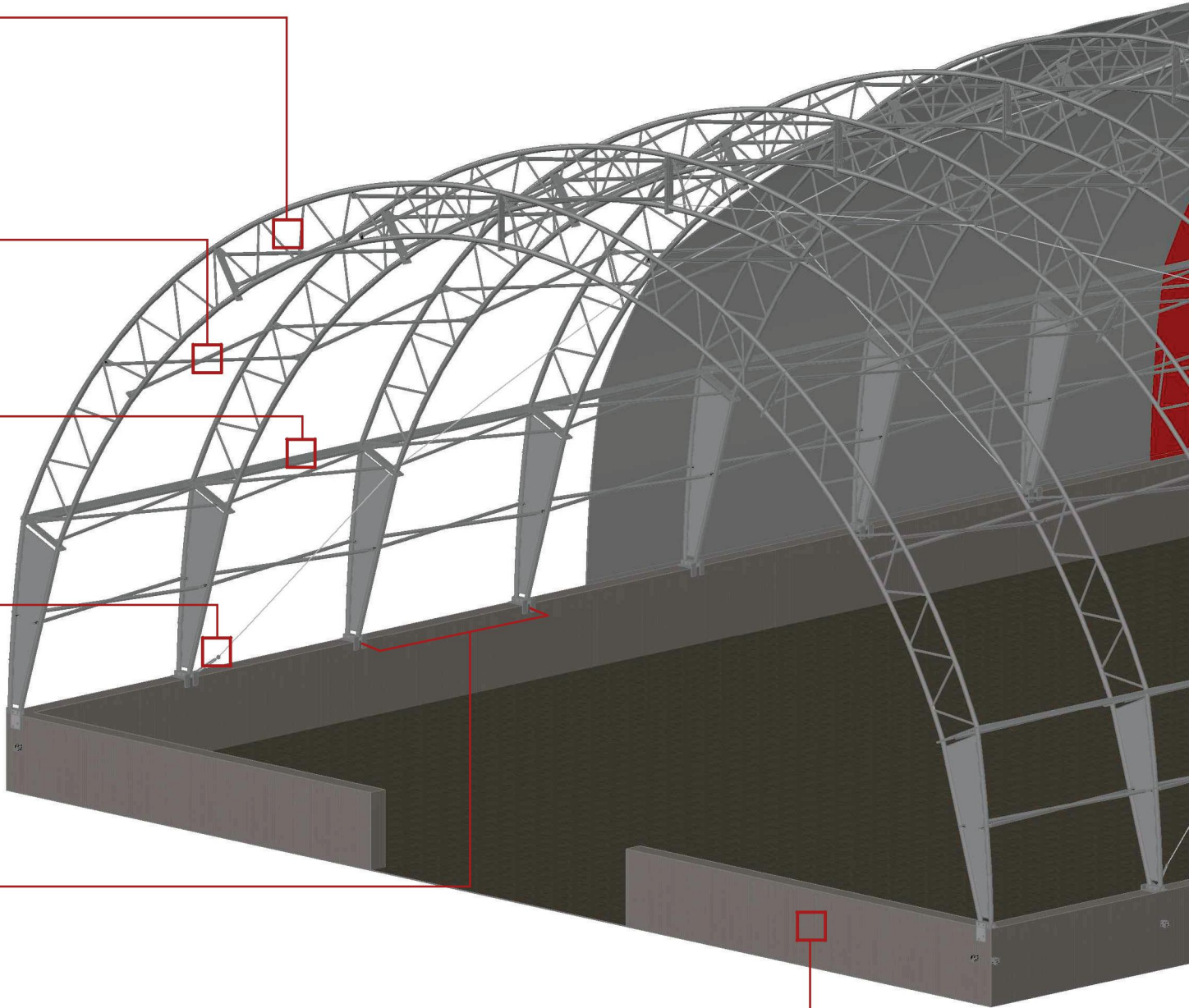
All Span-Tech buildings are initially designed without cabling. Cabling is then added in to provide extra bracing in high winds. With the exception of the end bay, the entire building is cabled -- as opposed to individual bays. All turnbuckles are at ground level which allows for tightening cables without the need for lift equipment.

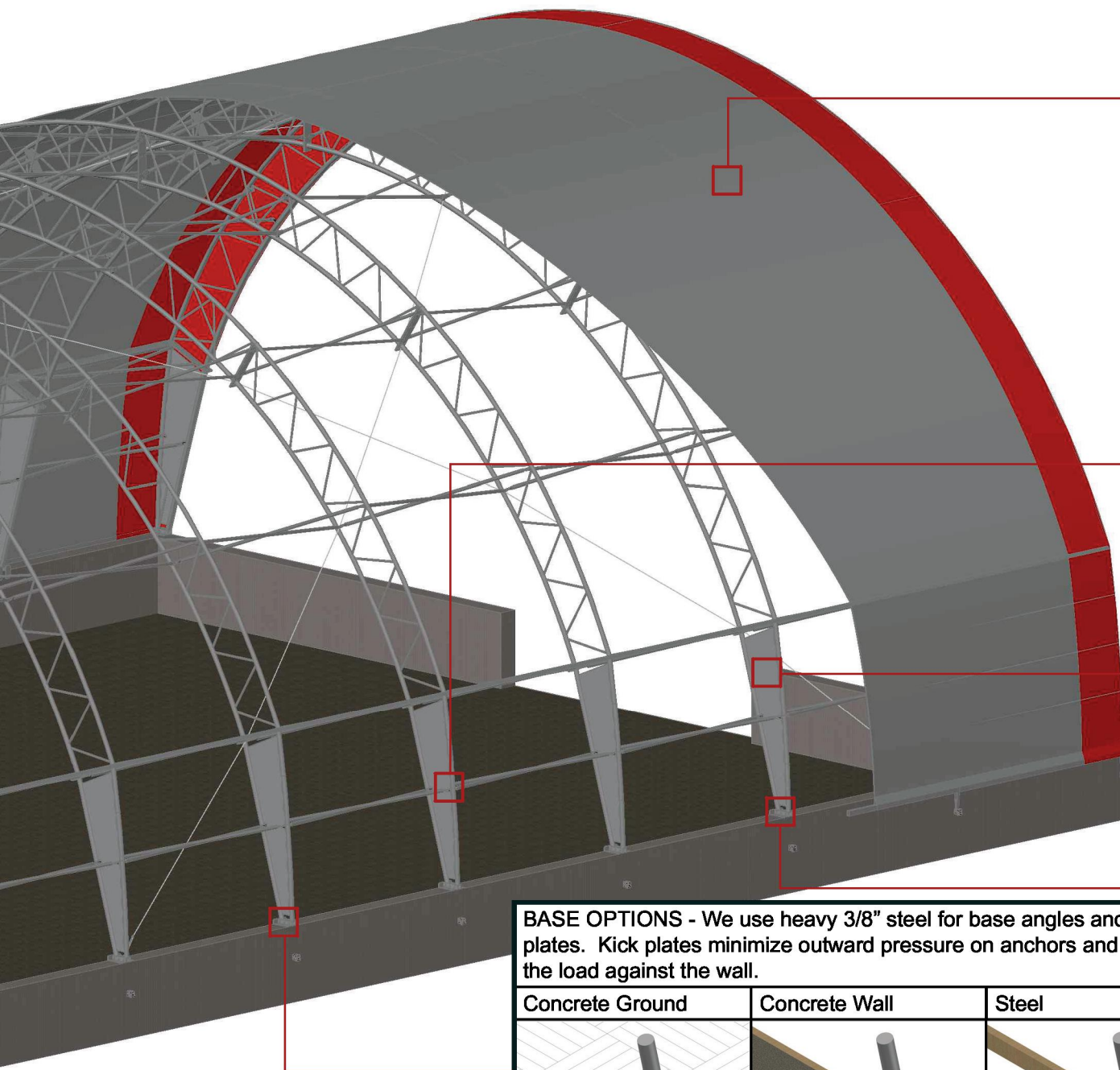
ON-CENTER DISTANCE

Closer on-center distance means less movement, reduced foundation requirements and more support for the fabric.

FOUNDATION

A proper foundation is important. It will provide less movement in the trusses and increase the longevity of the building and fabric.





FABRIC

Options include polyvinyl chloride and polyethylene reinforced coated fabrics. Top coats (Amor-Kote, PVDF) increase the longevity of fabric and prevent mold and mildew. Color options on certain fabrics types include:



LEG DESIGN

Leg has a radius on the outside chord, critical in reducing movement in the cover and ensuring the cover stays tensioned. Legs angled outward and full plate web gives superior stability compared to other leg designs.

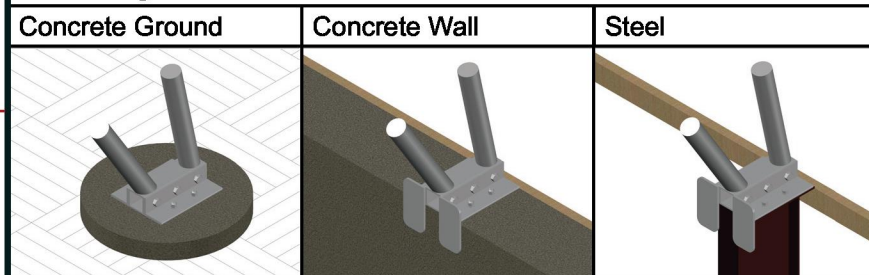
STEEL FINISH

All hot dip galvanization is not the same. For corrosive environments, Span-Tech is one of the few manufacturers that galvanizes all welded assemblies AFTER fabrication. Please review "The Corrosive Environment" brochure for more information.

INSIDE CHORD KICK

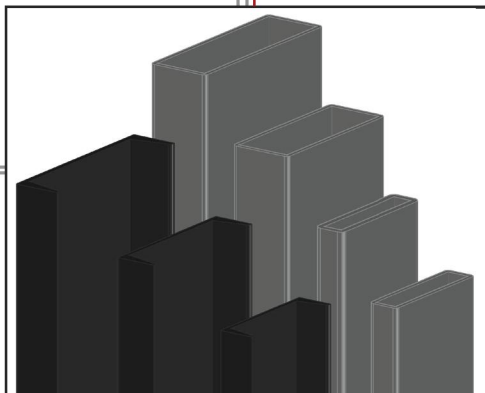
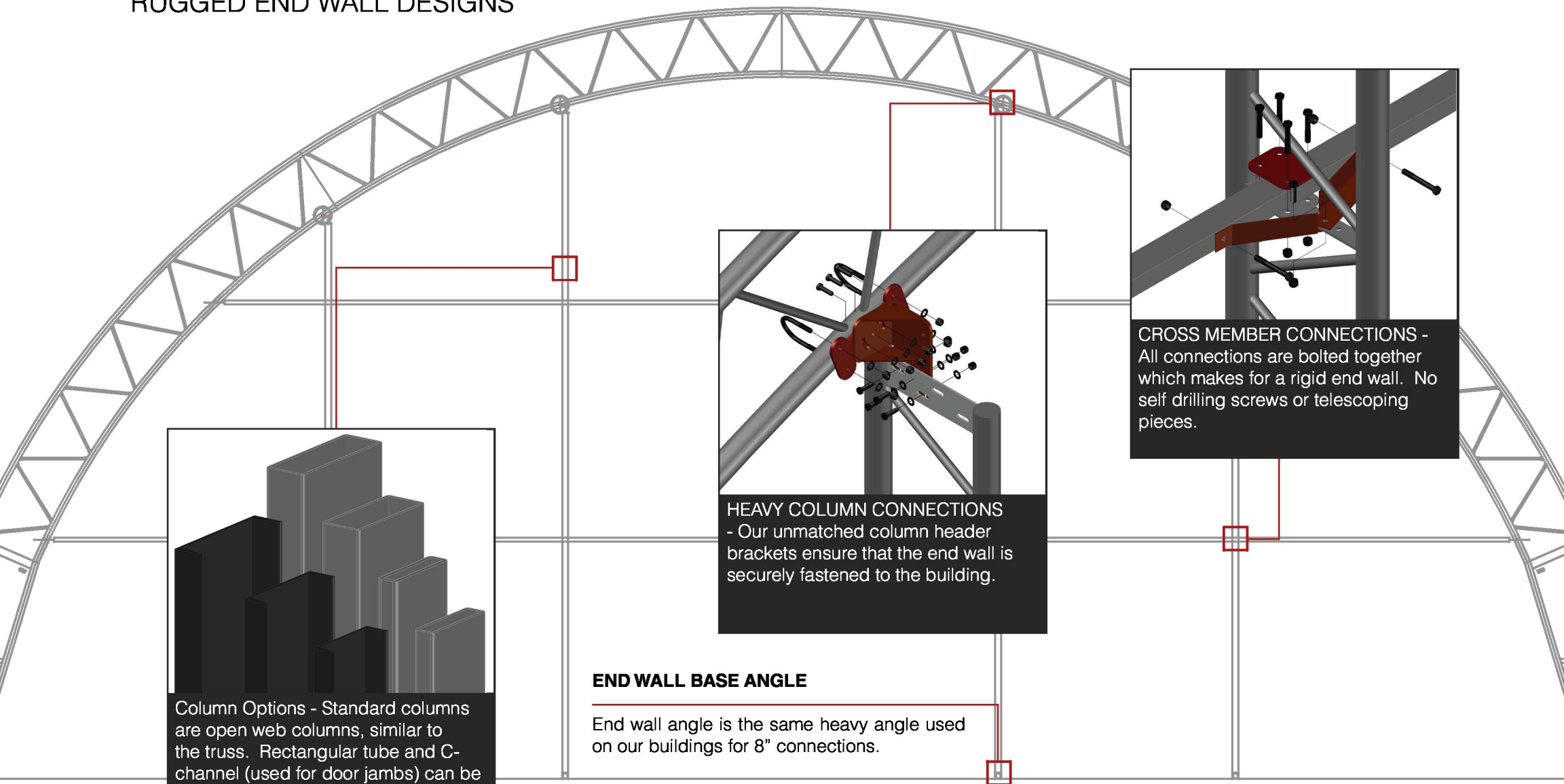
The inside chord is kicked inward to give more usable space and to give our buildings a finished look.

BASE OPTIONS - We use heavy 3/8" steel for base angles and kick plates. Kick plates minimize outward pressure on anchors and spread the load against the wall.

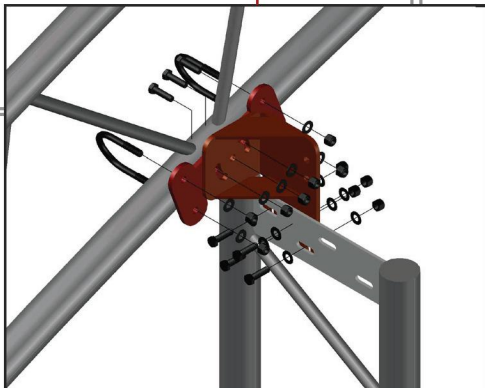


Note: 12" wide base angle shown. 8" used on certain buildings. Not all base options are available on all buildings.

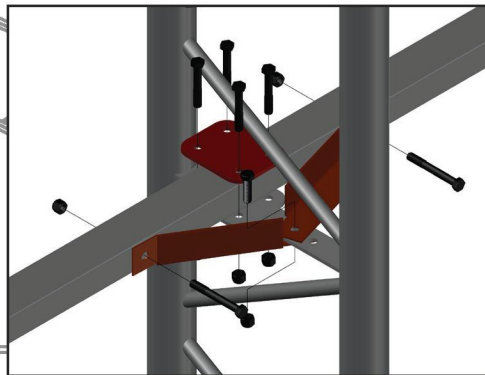
RUGGED END WALL DESIGNS



Column Options - Standard columns are open web columns, similar to the truss. Rectangular tube and C-channel (used for door jambs) can be provided for situations where a heavy column is needed.



HEAVY COLUMN CONNECTIONS
- Our unmatched column header brackets ensure that the end wall is securely fastened to the building.



CROSS MEMBER CONNECTIONS - All connections are bolted together which makes for a rigid end wall. No self drilling screws or telescoping pieces.

END WALL BASE ANGLE

End wall angle is the same heavy angle used on our buildings for 8" connections.

- LP = LEG PROFILE BUILDING (available on certain widths).
- Design may change depending on building size.



PO BOX 2000 • Houghton, IA 52631 • USA
 Phone: 800-553-1791 Fax: 319-469-4402
 Web: www.spantechbuildings.com
 Email: sales@hawkeyesteel.com

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Made in the U.S.A.

PROJECT NUMBER:

DEALER:
A&B CONSTRUCTION
30810 200TH ST.

BUILDING LOCATION:

BUILDING USE:

DESIGN CRITERIA

DESIGN LOADS IN ACCORDANCE TO INTERNATIONAL BUILDING CODE 2012 (IBC 2012)

ROOF SNOW LOAD: 30 PSF
GROUND SNOW LOAD: 50 PSF
DEAD LOAD: 2 PSF
WIND LOAD: 90 MPH
CONVEYOR LOAD: N/A
OCCUPANCY CATEGORY: 1
EXPOSURE CATEGORY: C
ENCLOSURE CATEGORY: OPEN
SPAN-TECH BUILDING SERIES: 3090

S-2 LOW HAZARD STORAGE
CONSTRUCTION TYPE V
PER IBC TABLE 503

↑ VERTICAL LOAD (KIPS) ----- 5.6
↓ VERTICAL LOAD (KIPS) ----- 8.8
← HORIZONTAL LOAD (KIPS) --- 6.0
→ HORIZONTAL LOAD (KIPS) --- 4.1



ENCLOSED BUILDING - A BUILDING IN WHICH ALL SIDES AND ENDWALLS ARE COVERED WITH A MAXIMUM OF ONE DOOR OPENING (16' X 18') IN ANY GIVEN WALL.

PARTIALLY ENCLOSED BUILDING - A BUILDING IN WHICH ANY WALL IS PARTIALLY OR FULLY UNCOVERED OR FULL OF LARGE OPENINGS.

FRAMES ARE DESIGNED FOR BOTH CASES. THE REACTIONS TO THE FOUNDATIONS VARY.

COMMENT ON BUILDING LOADS

ALL BUILDINGS UNLESS OTHERWISE EXPLICITLY STATED ARE DESIGNED IN ACCORDANCE TO INTERNATIONAL BUILDING CODE 2012 (IBC 2012) SET TO THE DESIGN CRITERIA LISTED ABOVE OR ON THE SALES ORDER IF SUBMITTALS ARE NOT REQUIRED. SPAN-TECH HAS NO KNOWLEDGE OF WHAT THE ACTUAL ENVIRONMENTAL AND COLLATERAL LOADS MAY BE FOR ANY PARTICULAR AREA. IT IS THE RESPONSIBILITY OF THE DEALER AND/OR END CUSTOMER TO CHECK WITH THE LOCAL PLANNING/PERMITTING OFFICE FOR THE ACTUAL ENVIRONMENTAL AND COLLATERAL LOADS.

STEEL TUBE MEMBER

ALL CARBON STEEL TUBE HAS TRACE ELEMENTS CONTROLLED TO ASTM A385 SPECIFICATION TO MITIGATE FORMATION OF REACTIVE STEEL DURING THE HOT DIP GALVANIZATION PROCESS. ALL TUBE UNLESS OTHERWISE NOTED MEETS ASTM A513 SPECIFICATION WITH THE FOLLOWING YIELDS:

1.000" O.D. ROUND TUBE FY = 50 KSI
1.500" O.D. ROUND TUBE FY = 50 KSI
1.900" O.D. ROUND TUBE FY = 50 KSI
2.375" O.D. ROUND TUBE FY = 50 KSI
3.000" O.D. ROUND TUBE FY = 50 KSI
3.500" O.D. ROUND TUBE FY = 50 KSI
2"X3" O.D. RECT. TUBE (GALV.) FY = 50 KSI
ALL OTHER SQUARE AND RECTANGULAR TUBE FY = 36 KSI

OTHER STRUCTURAL STEEL

STRUCTURAL STEEL FY = 50 KSI

STEEL TUBE WALL GAUGE (NOMINAL)

MINIMUM GAUGE THICKNESS IS 14 GA. (.084)

14 GA. = .084"
13 GA. = .095"
12 GA. = .109"
11 GA. = .120"
10 GA. = .134"
09 GA. = .148"
08 GA. = .165"

WELDED ASSEMBLIES - STEEL FINISH

HOT DIPPED GALVANIZED - IF APPLICABLE
ALL WELDED ASSEMBLIES ARE HOT DIPPED GALVANIZED AFTER FABRICATION TO ASTM A123 STANDARDS.

GATORSHIELD OR EQUIVALENT - IF APPLICABLE

ALL WELDED ASSEMBLIES USING GATORSHIELD OR EQUIVALENT FINISH, ARE ZINC COATED AFTER FABRICATION.

NON-WELDED ASSEMBLIES - STEEL FINISH

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

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.



P.O. Box 2000
Houghton, IA 52631 USA
Phone: 319-469-4141
Fax: 319-469-4402
Web: www.spantechbuildings.com



SERVINSKY ENGINEERING PLLC
Consulting Structural Engineers
mjk@servinskyeng.com

280 Douglas Ave
Holted, MI 45424-6515
(516) 738-1281
Fax (516) 733-6291

DEALER:
A&B CONSTRUCTION, LLC
CUSTOMER:

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DRAWN BY: J.R.B.W.	CHECKED BY:	DATE: 3/20/2012	1
PROJECT NUMBER:	SHEET NUMBER: B1.1 SPECIFICATIONS		2
			3

ANCHORING TO FOUNDATION

FOUNDATION ENGINEER TO DETERMINE ANCHORING TYPE, GRADE OF ANCHOR AND EMBEDMENT DEPTH. ANCHORS NEED TO BE DETERMINED FOR BASE TO WALL CONNECTION AND WINCH TO WALL CONNECTION SEPARATELY. ANCHORS ARE PROVIDED BY OTHERS.

COMMENTS ON SITE SUITABILITY, SITE PREPARATION, SIDE WALL DESIGN AND MATERIAL SUITABILITY PLEASE NOTE THAT SITE SUITABILITY, SITE PREPARATION, SIDEWALL DESIGN AND SIDEWALL MATERIAL SUITABILITY ARE THE SOLE RESPONSIBILITY OF THE OWNER. SPAN-TECH IS A MANUFACTURER OF PRE-ENGINEERED FABRIC BUILDINGS AND IS NOT A CIVIL, SOIL, AND/OR STRUCTURAL ENGINEERING FIRM OR THE LIKE. ANY FOUNDATION RECOMMENDATION THAT SPAN-TECH GIVES THE OWNER/DEALER/CONTRACTOR/ERECTOR IS ONLY A REPRESENTATION OF WHAT MIGHT WORK AS THE FOUNDATION. THE FINAL DESIGN OF THE FOUNDATION NEEDS TO BE BASED ON A SITE SPECIFIC SOIL CAPACITY AND ENVIRONMENTAL CONDITIONS STUDY, AS WELL AS OTHER COLLATERAL LOAD REQUIREMENTS THAT INCREASE THE REACTIONS OF THE BUILDING AND/OR FOUNDATION. THESE LOAD REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO CONVEYORS, BULK STORAGE OF MATERIALS, SPRINKLER SYSTEMS AND THE LIKE. IF THE OWNER DOES NOT HAVE KNOWLEDGE OF THESE REQUIREMENTS, A PROFESSIONAL ENGINEER NEEDS TO BE CONSULTED. FAILURE TO DO SO CAN RESULT IN MORE MOVEMENT OF THE BUILDING, POSSIBLE FAILURE OF THE BUILDING AND/OR WILL REDUCE OR VOID THE WARRANTY COVERAGE OF THE BUILDING.

COMMENT ON PRE-CAST CONCRETE BLOCKS (JERSEY BARRIERS, K-RAILS, TRAFFIC DIVIDERS, LOCK BLOCKS, SILAGE PANELS AND THE LIKE)

MOST PRE-CAST CONCRETE BLOCKS WERE DESIGNED FOR ROAD CONSTRUCTION, BULK STORAGE CONTAINMENT AND OTHER USES. MOST WERE NEVER DESIGNED FOR USE AS A STRUCTURAL FOUNDATION. OFTEN LITTLE IS KNOWN ABOUT THE COMPRESSIVE STRENGTH OF THE CONCRETE AND/OR THE AMOUNT AND TYPE OF REBAR EMBEDDED IN THEM. EXTRA PRECAUTION SHOULD BE USED BY THE FOUNDATION ENGINEER AND OWNER TO ENSURE THAT:

1. THE CONCRETE BLOCKS ARE PROPERLY SECURED TO HANDLE BOTH THE BUILDING AND COLLATERAL LOADS.
2. THE CONCRETE BLOCKS WILL BE INSTALLED IN A WAY TO PREVENT BLOW OUT OF THE BUILDING'S ANCHOR BOLTS THROUGH THE CONCRETE WHEN THE BUILDING IS UNDER A LOAD.

PROCEDURE FOR CHECKING TIGHTNESS OF MAIN FABRIC CANVAS

THE TIGHTNESS OF THE MAIN FABRIC CANVAS SHOULD BE CHECKED TWICE THE FIRST YEAR AND AT LEAST ONCE A YEAR THEREAFTER. PICK A MODERATELY WARM DAY WITH A GOOD STIFF BREEZE (15 TO 30 M.P.H.). THE RANGE OF TEMPERATURE FOR CHECKING THE CANVAS SHOULD BE APPROXIMATELY 60 TO 70 DEGREES F. ON A VERY WARM DAY (IN EXCESS OF 90 DEGREES F), YOU MAY SEE THE CANVAS LOOSE BUT IT WILL TIGHTEN UPON COOLING.

WITH ALL DOORS AND OTHER ENCLOSURES OPEN, WALK THROUGH THE BUILDING TO SEE IF THE CANVAS IS LIFTING OFF THE TRUSSES. IF THE CANVAS IS LIFTING OFF THE TRUSSES, TIGHTEN EACH WINCH NO MORE THAN 3 CLICKS. WAIT ABOUT A WEEK AND CHECK YOUR CANVAS AGAIN. FOLLOW THE SAME PROCEDURE UNTIL THE CANVAS NO LONGER LIFTS OFF THE TRUSSES IN THE CONDITIONS NOTED ABOVE.

PROCEDURE FOR CHECKING CABLING

CABLES SHOULD BE TAUT AT ALL TIMES. TIGHTEN CABLES AT TURNBUCKLES. IF THE TURNBUCKLES HAVE NO MORE THREADS FOR TIGHTENING, THEN THE CABLE NEEDS TO BE ADJUSTED. THIS IS DONE BY LOOSENING THE TURNBUCKLE AS FAR AS IT WILL EXTEND, LOOSENING CABLE CLAMPS, AND THEN TAKING UP CABLE SLACK. RE-TIGHTEN CABLE CLAMPS AND TIGHTEN TURNBUCKLE BACK TO TAUT.

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.

ALL DRAWINGS ARE NOT TO SCALE, UNLESS OTHERWISE NOTED.

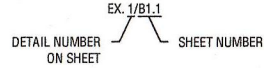
SPAN-TECH FABRIC BUILDINGS DO NOT COMPLY WITH LIFE SAFETY REQUIREMENTS AND ARE NOT TO BE USED FOR PUBLIC ASSEMBLY.

SPAN-TECH FABRIC BUILDINGS ARE CLASSIFIED AS A MEMBRANE-COVERED FRAME STRUCTURE IN THE SPECIAL CONSTRUCTION SECTION OF IBC 2012.

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.

BEFORE ERECTION BEGINS VERIFY THAT ALL COMPONENTS HAVE BEEN DELIVERED BY CHECKING PICK LIST SHIPPED WITH HARDWARE WITH THE COMPONENTS ON THE GROUND.

ANNOTATION IS AS FOLLOWS:



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.

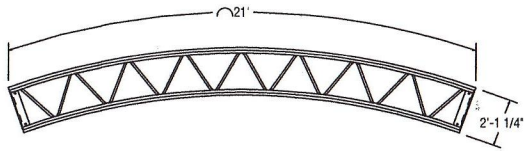


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Web: www.spantechbuildings.com

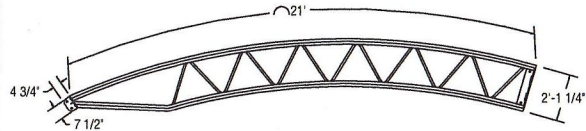
ISSGI-ANSIB
REV. 1.0

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CUSTOMER:	DRAWN BY: C.L.S.	CHECKED BY: J.R.B.W.	DATE: 4/1/2016	2.
	PROJECT NUMBER:	SHEET NUMBER: B1.2 GENERAL INFORMATION		3.

N.T.S.



1 TR60-C SERIES 60' CENTER TRUSS SECT. - HDG
REVIEW B1.5 FOR O.D. AND GAUGES

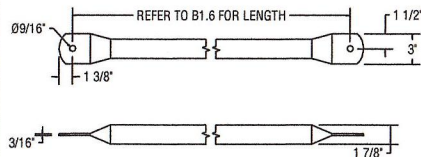


2 TR60-S SERIES 60' SIDE TRUSS SECT. - HDG
REVIEW B1.5 FOR O.D. AND GAUGES

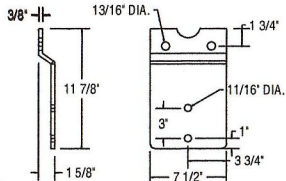
3 SUB0400 SERIES MAIN COVER
REVIEW SPECS ON B1.1 FOR PERFORMANCE

GENERAL HARDWARE	
10	FST-500-2500 1/2-13 X 2-1/2" HX BLT, YZN-GR8
11	OF551 1/2-13 X 1-3/4" HX BLT, YZN-GR8 SAE J429
12	OF550 1/2-13 NY NUT, YZN-GR8 SAE J429
13	FST-750-2500 3/4-10 X 2-1/2" HX BLT, YZN-GR8 SAE J429
14	OF575 3/4-10 NY NUT, YZN-GR8 SAE J429
15	AR1610 3/8" GALV. CABLE (7X19)
16	OF546 1/2-13 X 9" JAW/EYE TNBKLE, HDG
17	OF547 3/8" CROSBY FORGED CABLE CLAMP
18	SUB0840 CABLE TIE PLATE MATERIAL: 1/4" HDG
19	OF616 SHACKLE W/SCREW PIN, 3/8" DIA 4000# WORK LIMIT
20	OF617 3/8" DIA. THIMBLE
21	OF548 1/2-13 RH HX NUT, ZN
22	OF549 1/2-13 LH HX NUT, ZN

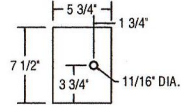
COVER HARDWARE	
23	152600-9351 5 TON LASHING WINCH
24	SUB0801 2' POLYESTER WEBBING, UVP
25	SUB0802 1' POLYESTER WEBBING, UVP
26	DTSTS DUCT TAPE
27	OF499 #14-3/4 SELF TAPPING SCREW
28	SUB0345 2.375" GALV. TUBE, 12 GA., 288" PFG - GATORSHIELD OR EQUIVALENT
29	SUB0811 2.375" SWAGE CONNECTOR PFG - GATORSHIELD OR EQUIVALENT
30	49-75-B .750 GALV. TUBE, 18 GA., 300" PFG - GATORSHIELD OR EQUIVALENT
31	--
32	FST-VC-725-16 3/4" VINYL CAPLUG



4 SUB1720 SERIES 1.900" SH PURLIN, 14 GA.
PFG - GATORSHIELD OR EQUIV.

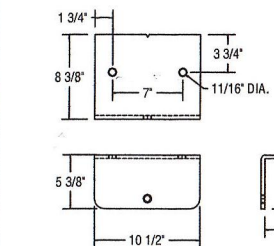


5 SUB0948.2 7.5" END PLATE, 3.000" CHORD
MATERIAL: 3/8" HDG

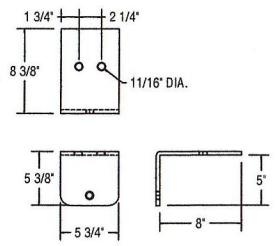


6 SUB0937.7 7.5" RISER PLATE - WRAP
MATERIAL: 3/8" HDG

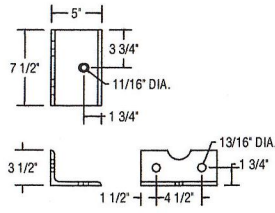
KEDER HARDWARE	
33	SUB0460 TENSIONING BRACKET
34	SUB0463 3.000" KEDER/TENSION CHANNEL
35	SUB0473 3.000" KEDER CHANNEL
36	OF615 #12 X 1-1/4" SELF DRILLING SCREW
37	FST-375-4500 3/8-16 X 4 1/2" HX BOLT, ZN-GR8
38	OF458 3/8-16 NY NUT, ZN-GR8
39	SUB0459 1" GALV. TUBE, 14 GA., PUNCHED
40	FST-VC-985-16 1" VINYL CAPLUG
41	SUB0479 WINCH ASSIST CABLE PLATE



7 SUB0936 8" CENTER KICK PLATE
MATERIAL: 3/8" HDG



8 SUB0937 8" OFFSET KICK PLATE
MATERIAL: 3/8" HDG



9 SUB0931 7-1/2" X 5" STANDARD BASE ANGLE
MATERIAL: 3/8" HDG

HIGH TENSION POCKET MOUNT HARDWARE (OPTIONAL)	
42	OF597 1/2-13 U-BOLT (3 X 4-1/2)
43	SUB0485 H/T BRACKET FOR SUB0931
44	SUB0492 2.375"-3.000" H/T TUBE BRACKET
45	SUB0494 END/JOIN TUBE BRACKET
46	SUB0496 3.000" END/JOIN TUBE L-BRACKET
47	SUB0488 GROUND MOUNT CHUCK BRACKET

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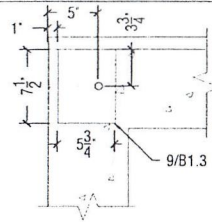
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DRAWN BY: C.L.S.
PROJECT NUMBER:
CHECKED BY: J.R.B.W.
SHEET NUMBER: B1.3 TRUSS COMPONENTS
DATE: 3/23/2016

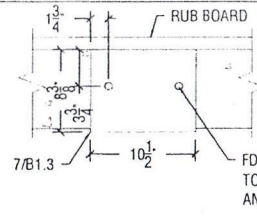
1.
2.
3.

TRUSS BEARING NOTES

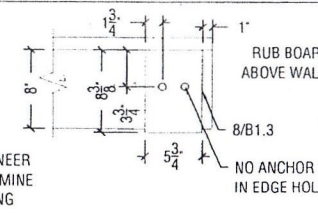
- A. FOLLOW ALL INSTRUCTIONS SET BY THE FOUNDATION ENGINEER.
- B. FOUNDATION DESIGN AND BUILDING TO FOUNDATION CONNECTION TO BE DONE BY FOUNDATION ENGINEER.
- C. SPAN-TECH HAS NO KNOWLEDGE OF THE FOUNDATION DESIGN. IF ANCHORS ARE SUPPLIED BY SPAN-TECH, THE FOUNDATION ENGINEER NEEDS TO DETERMINE IF THEY MEET THE FOUNDATION AND USAGE REQUIREMENTS.
- D. TOLERANCES GREATER THAN 1" ON THE DIAGONAL MEASUREMENT OF THE FOUNDATION WILL CAUSE ERECTION ISSUES AND POTENTIALLY CAUSE DAMAGE TO TRUSSES.
- E. OUTSIDE OF OFFSET TRUSS TO CENTER OF CENTER TRUSS (O-C TRUSS) = O/C DISTANCE + 1-1/2"
- F. CENTER OF CENTER TRUSS TO CENTER OF CENTER TRUSS (C-C TRUSS) = O/C DISTANCE
- G. MOUNTING PLATES AND HARDWARE DESIGNED FOR 8' WIDE WALL.
- H. 2' X 6' DECKING BOARD (RUB BOARD) TO BE ATTACHED TO PERIMETER OF BUILDING WHERE COVER IS WRAPPING AROUND TO FOUNDATION (PROVIDED BY OTHERS). INSTALL RUB BOARD 1-1/2' ABOVE WALL LEVEL.



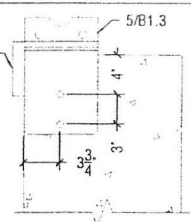
A1	OFFSET ANCHORING - WRAP	PLN VIEW
	DETAIL	1" = 1'-0"



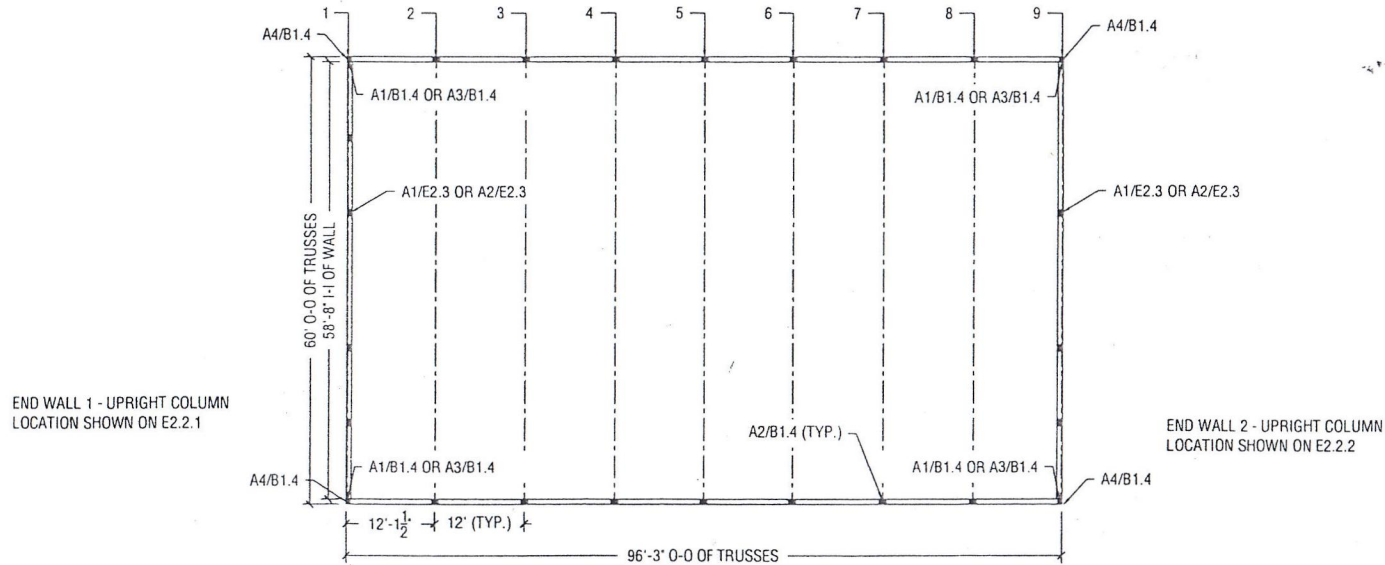
A2	CENTER ANCHORING	PLN VIEW
	DETAIL	1" = 1'-0"



A3	OFFSET ANCHORING - NO WRAP	PLN VIEW
	DETAIL	1" = 1'-0"



A4	END PLATE ANCHOR	ELEV VIEW
	DETAIL	1" = 1'-0"



PLN VIEW
1/8" = 1'-0"

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DEALER:
A&B CONSTRUCTION
CUSTOMER

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DRAWN BY: J.R.S.W.	CHECKED BY:	DATE:
SHEET NUMBER B1.4 TRUSS BEARING - ASSY & PLAN		

1	
2	
3	

STRUCTURAL DESIGN			
	BUILDING SERIES		
	PURLINS/BAY (CONNECTIONS)		
SECTION	CHORD	O.D.	GAUGE
A	OUTSIDE	0'-3.0000"	10
	INSIDE	0'-3.0000"	12
B	OUTSIDE	0'-3.0000"	11
	INSIDE	0'-3.0000"	11
	WEBS	0'-1.0000"	14

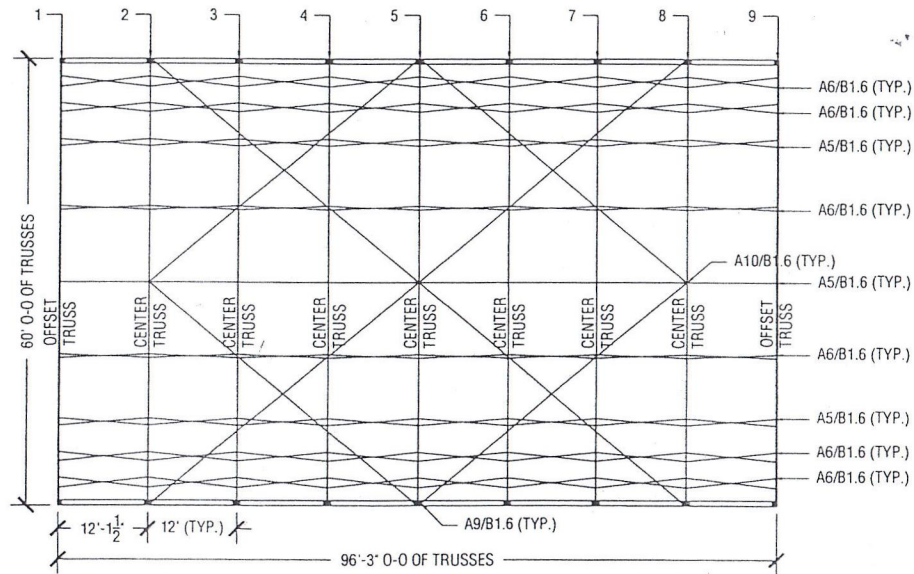
PLEASE REFER TO SHEET B1.1 FOR TUBE GRADE AND NOMINAL GAUGE EQUIVALENT. THE STRUCTURAL DESIGN IS SOLELY BASE OFF THE DESIGN CRITERIA MADE ON SHEET B1.1. PLEASE REVIEW ALL DESIGN CRITERIA TO ENSURE THAT THE BUILDING USED MEETS THE REQUIREMENTS OF THE END USER.

ASSEMBLY AND ERECTION NOTES

- REVIEW ALL CONNECTIONS ON SHEET B1.6 BEFORE ERECTION.
- DUE TO THE HOT DIP GALVANIZATION PROCESS ROUGH SPOTS CAN APPEAR ON THE TOP CHORD OF THE TRUSS. RUN A HAND ALONG THE TOP PART OF THE TRUSS TO LOCATE THESE SPOTS. GRIND ANY THAT ARE FOUND. GRIND TILL SMOOTH OR UNTIL THE AREA SPARKS.
- WHEN ERECTING TRUSSES, EACH CONNECTOR PLATE CONNECTION SHOULD BE SUPPORTED BY A MIN. 4"x4"x6' BOARD, SECURED TO THE TOP CHORD OF THE JOINING TRUSSES. USE 1" RATCHET STRAPS (PROVIDED BY OTHERS) TO SECURE BOARD.
- TRUSS MAY BE LIFTED IN ONE SECTION.
- COMPLETE ALL CONNECTIONS BEFORE MOVING TO NEXT TRUSS.
- AT CONNECTIONS A1/B1.6 AND A2/B1.6, USE 12/13/B1.2 DTSTS - DUCT TAPE AT THE TOP OF EACH CONNECTION. MINIMUM OF 3 PLY'S.
- ALL CONNECTIONS SHOULD BE BELOW THE TOP OF THE RAFTER TO ENSURE SMOOTH INSTALLATION OF CANVAS.
- THE END BAYS ARE THE ONLY BAYS THAT ARE NOT CABLED. CABLE UP TO 60' ALONG THE LENGTH OF THE BUILDING. CABLE IS RAN BETWEEN TRUSS CHORDS.
- UNLESS STRUCTURAL DESIGN TABLE IS FILLED OUT COMPLETELY WITH BUILDING SERIES & GAUGES LISTED, BRIDGING DETAIL BELOW IS FOR 1290 & 2190 LOADING (9 CONNECTIONS). 3090 & 3890 LOADS WILL HAVE 2 ADDITIONAL A6/B1.6 CONNECTIONS. ALL PURLINS SHOULD BE USED, NO ADDITIONAL PURLINS ARE PROVIDED.

ELEV VIEW
5/64" = 1'-0"

PLN VIEW
5/64" = 1'-0"



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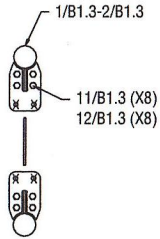
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(515) 738-1281
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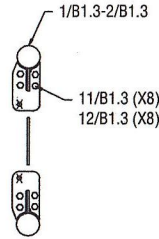
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DRAWN BY: J.R.B.W.	CHECKED BY:	DATE:	1
PROJECT NUMBER	SHEET NUMBER		2
	B1.5 TRUSS BRIDGING		3



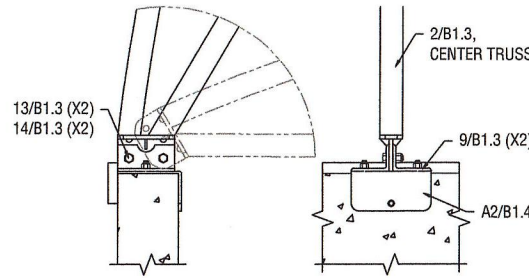
X = LEAVE OPEN

A1	CENTER SPLICE CONNECTION DETAIL	ELEV VIEW 1" = 1'-0"
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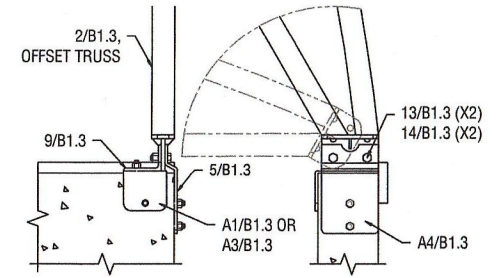


X = LEAVE OPEN

A2	OFFSET SPLICE CONNECTION DETAIL	ELEV VIEW 3/4" = 1'-0"
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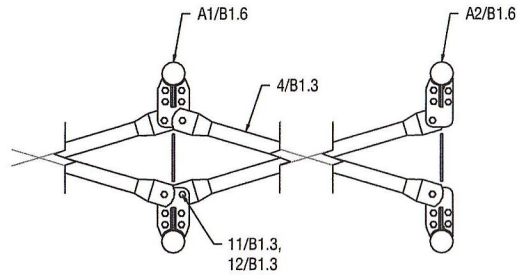


A3	CENTER BASE CONNECTION DETAIL	ELEV VIEW 3/4" = 1'-0"
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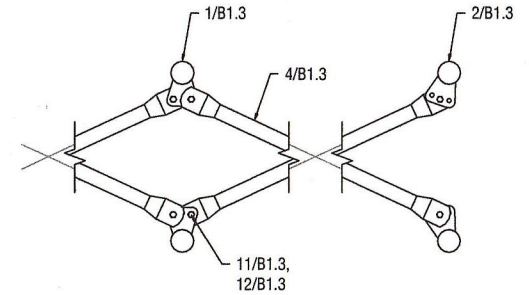
A4	OFFSET BASE CONNECTION DETAIL	ELEV VIEW 3/4" = 1'-0"
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TRUSS O/C	PART NUMBER	CENTER TO CENTER (L)
6'-0"	SUB1810	70 5/16"
7'-0"	SUB1816	82 3/16"
8'-0"	SUB1822	94 1/8"
9'-0"	SUB1828	106 1/16"
10'-0"	SUB1834	118"
11'-0"	SUB1840	130"
12'-0"	SUB1846	142 15/16"
13'-0"	SUB1852	153 15/16"
14'-0"	SUB1858	165 15/16"

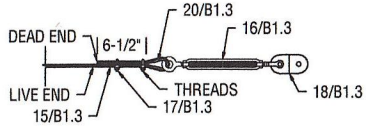


A5	PURLIN CONNECTION DETAIL	ELEV VIEW 3/4" = 1'-0"
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TRUSS O/C	PART NUMBER	CENTER TO CENTER (L)
6'-0"	SUB1811	71 1/4"
7'-0"	SUB1817	83 1/16"
8'-0"	SUB1823	94 7/8"
9'-0"	SUB1829	106 3/4"
10'-0"	SUB1835	118 5/8"
11'-0"	SUB1841	130 1/2"
12'-0"	SUB1847	142 7/16"
13'-0"	SUB1853	154 3/8"
14'-0"	SUB1859	166 5/16"

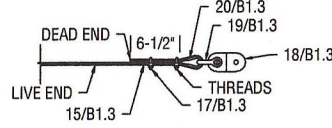


A6	STRINGER CONNECTION DETAIL	ELEV VIEW 3/4" = 1'-0"
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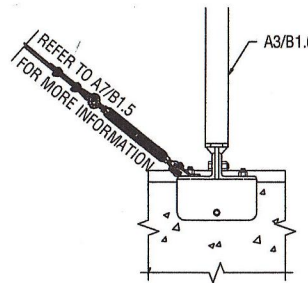
TIGHTEN CLAMPS TO 45 FT-LBS

A7	BASE CABLE ASSEMBLY DETAIL	PLN VIEW 3/4" = 1'-0"
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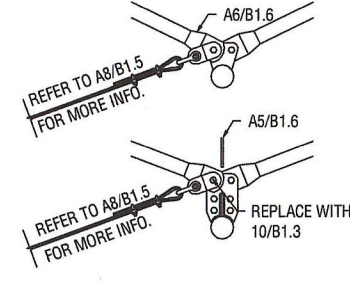


TIGHTEN CLAMPS TO 45 FT-LBS

A8	TRUSS CABLE ASSEMBLY DETAIL	PLN VIEW 3/4" = 1'-0"
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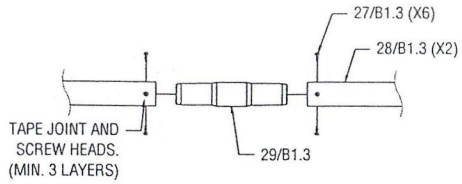


A9	BASE CABLE CONNECTION DETAIL	ELEV VIEW 3/4" = 1'-0"
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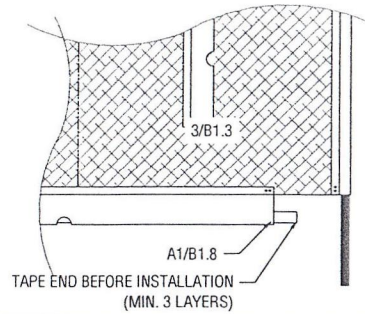


A10	TRUSS CABLE ASSEMBLY DETAIL	ELEV VIEW 3/4" = 1'-0"
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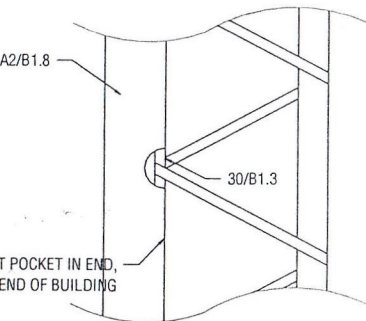
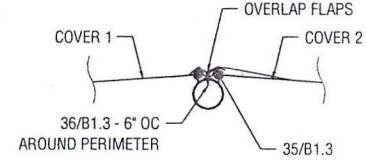
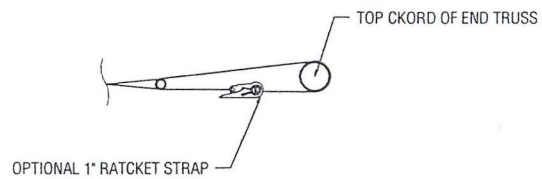
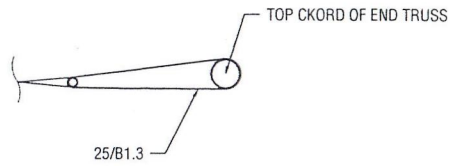
NOTE: TRUSS CABLE CONNECTION SHOULD BE MADE TO THE CLOSEST CONNECTION TO THE TOP DEAD CENTER OF TRUSS ARCH. EITHER TO A PURLIN TAB OR CONNECTOR PLATE.



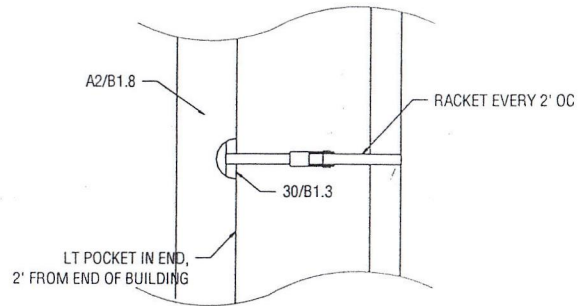
A1	MAIN TIE DOWN TUBE CONNECTION DETAIL	PLN VIEW N.T.S.
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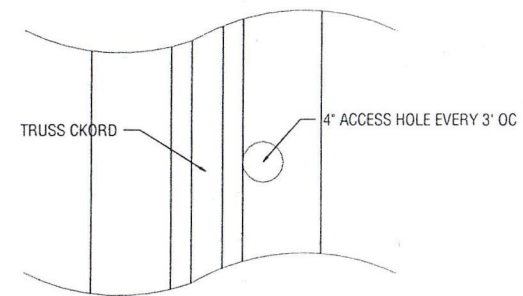
A2	MAIN TIE DOWN TO COVER CONNECTION DETAIL	PLN VIEW N.T.S.
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A3	WEBBING LATERAL TIGHTENING DETAIL	PLN/ELEV VIEW N.T.S.
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A4	RACKET LATERAL TIGHTENING DETAIL (OPTIONAL)	PLN/ELEV VIEW N.T.S.
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A5	KEDER (KK) TRUSS CONNECTION DETAIL	PLN/ELEV VIEW N.T.S.
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PROJECT NUMBER:	SHEET NUMBER:	

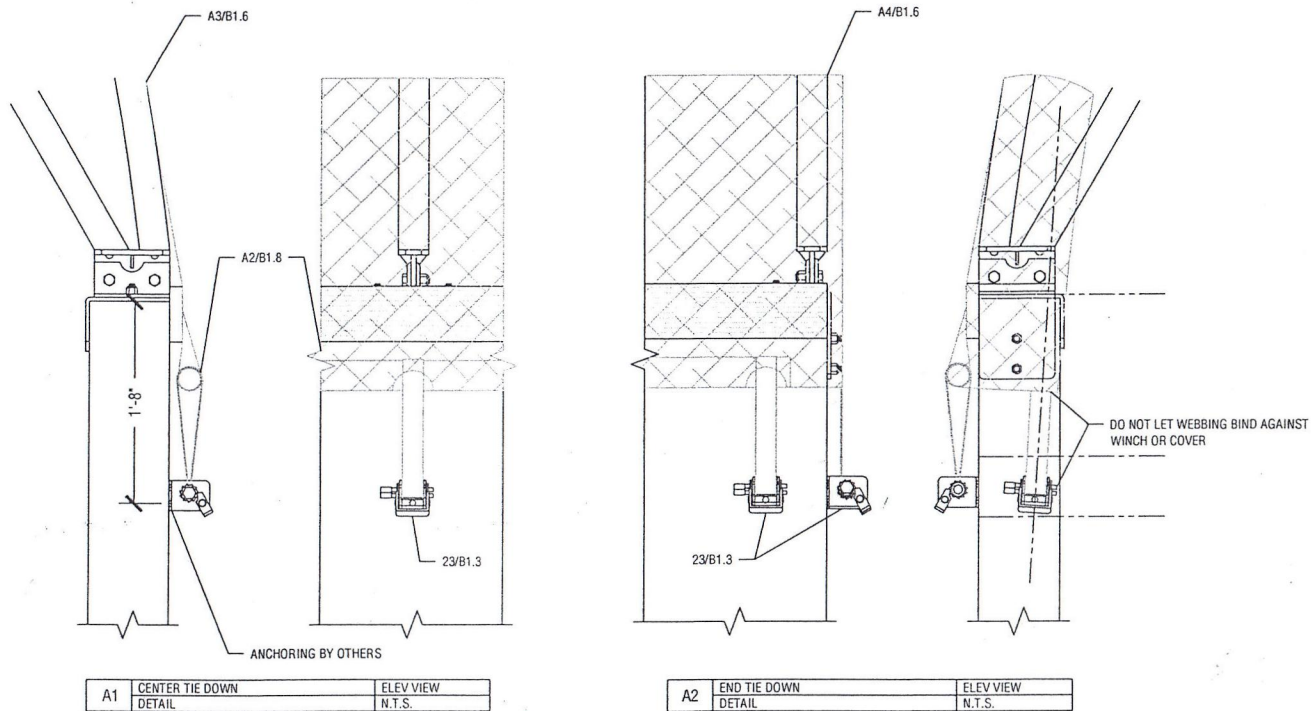
1.

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COVER INSTALLATION NOTES:

- A. 3/B1.3 - COVER TIE DOWN POCKET IS NOTCHED TO MATCH WINCH LOCATIONS.
- B. WHEN PULLING COVER, ROPE SHOULD BE AT EVERY 16'-28' OF THE LENGTH OF THE TUBE ASSEMBLY IN THE COVER. THROW OVER BUILDING AND USE TO PULL COVER OVER BUILDING.
- C. COVER SHOULD BE ROLLED OUT THE LENGTH OF THE BUILDING. BEFORE ROLLING OUT THE COVER ENTIRELY, ENSURE THAT THE LATERAL TIGHTENING POCKETS WILL BE FACING DOWN WHEN PULLING OVER THE BUILDING.
- D. DO NOT INSTALL COVER DURING A DAY IN WHICH GUST ARE ABOVE 10 MPH.
- E. INSTALLING THE COVER INTO THE WIND WILL HELP PULLING THE COVER.
- F. COVER IS VULNERABLE TO WIND UNTIL ALL CONNECTIONS HAVE BEEN TIGHTENED.
- G. DO NOT INSTALL COVER IF ICE HAS FORMED ON THE TOP OF THE TRUSSES.
- H. COVER SHOULD BE INSTALLED BY HAND IF AT ALL POSSIBLE.
- I. AT CONNECTIONS A1/B1.9 AND A2/B1.9 STANDARD TIGHTEN SHOULD BE DONE TO 50-60 FT./LBS.
- J. AT CONNECTION A2/B1.9 WINCHES SHOULD BE INSTALLED AT THE TIME OF COVER INSTALLATION. USE HARDWARE FROM CONNECTION A3/B1.3.
- K. WHEN PULLING COVER, IT IS BEST TO HAVE PEOPLE EVERY 40' IN THE TOP CENTER OF THE BUILDING PUSHING UP ON THE COVER TO HELP FACILITATE PULLING THE COVER.



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DRAWN BY: J.R.B.W.	CHECKED BY: C.L.S.	DATE: 10/8/2015
PROJECT NUMBER:	SHEET NUMBER:	

1

2

3

NovaShield® II with ArmorKote™ FRU88X-6 4 mil

INTERTAPE POLYMER GROUP TECHNICAL DATA SHEET

DESCRIPTION

Nova-Shield® II FRU88X-6 4 mil is a heavyweight fabric for applications requiring flame retardants and UV stability, such as membrane structures and alternate daily landfill covers. The scrim is produced in a special weaving pattern to enhance thickness, flatness, abrasion resistance, and tear properties. The proprietary coating is used to enhance abrasion resistance, flex resistance, seam strength, UV resistance and longevity.

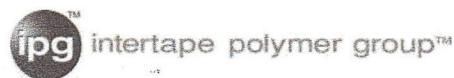
FABRIC SPECIFICATIONS

Weave: Woven HDPE scrim using natural FR/UV tapes
Coating: 4 mil average each side (95 g/m²/side)
Color: Off-white, green, blue, grey sandstone and other colors available upon request
Weight: 12.4 oz/yd² (420g/m²) +/- 5 %
Thickness: 23 mil (0.59 mm) ASTM D1777

ROLL SPECIFICATIONS

Cores: 4 inch I.D. or 5 inch I.D. available
Width: Up to 150 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.



3647 Cortez Road West | Bradenton, FL 34210 | USA
Customer Service: 800.IPG.8273 | 800.474.8273
Tape Technical Service: 877.447.4832
www.intertapepolymer.com | info@itape.com

PERFORMANCE PROPERTIES

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

Grab Tensile ASTM D-5034-95	Warp 355 lb, 1576 N / Weft 350 lb, 1555 N
Strip Tensile (N/5cm) ASTM D-5035-95	Warp 270 lb/in (2400)/Weft 250 lb/in (2222)
Tongue Tear ASTM D-2261-96	Warp 115 lb, 510 N / Weft 110 lb, 488 N
Trapezoidal Tear ASTM D-4533-04	Warp 95 lb, 422 N / Weft 90 lb, 401 N
Mullen Burst ASTM D-3786-01	675 psi 4657 kPa
Accelerated UV Weathering¹ ASTM G151-00 ASTM G154-04	>90 % 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 G90-98	>80 % strength retention after 5 Florida Standard Years ²
Low Temperature Bend ASTM D2136-94	-60°C

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

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EFFECTIVE: 07/11

FR PERFORMANCE

This product meets the requirements of NFPA 701 - 2004 (Method 1 and Method 2), 1989 (large and small scale) and 1996 (tests 1 and 2), CAN/ULC S109-M87 (small and large scale), CAN/ULC S102-03, CAN/ULC S102.2-03, ASTM E84-00a (Class 1), UBC31-1, California Fire Marshal (F-51405).



CERTIFICATE OF LIABILITY INSURANCE

A&BCO-1

OP ID: DF

DATE (MM/DD/YYYY)

05/18/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Hochstedler Ins. Agency, Inc. 110 5th Street, Box 656 Kalona, IA 52247 Kevin G. Johnson	CONTACT NAME: Kevin G. Johnson PHONE (A/C, No, Ext): 319-656-5145 E-MAIL ADDRESS: kgj@kctc.net	FAX (A/C, No): 319-656-5147
	INSURER(S) AFFORDING COVERAGE	
INSURED A&B Construction LTD Ben & Andrew 30810 200th St Harper, IA 52231	INSURER A : Grinnell Mutual Reinsurance Co	14117
	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			0000821639	03/18/2017	03/18/2018	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
							MED EXP (Any one person)	\$ 5,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			0000821641	03/18/2017	03/18/2018	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE	\$
							AGGREGATE	\$
								\$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY <input type="checkbox"/> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	0000821643	03/18/2017	03/18/2018	<input type="checkbox"/> PER STATUTE <input checked="" type="checkbox"/> OTH-ER	
							E.L. EACH ACCIDENT	\$ 500,000
							E.L. DISEASE - EA EMPLOYEE	\$ 500,000
							E.L. DISEASE - POLICY LIMIT	\$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Additionally insured City of Grand Junction and employees

CERTIFICATE HOLDER

GRJCT-1

City of Grand Junction
 and employees
 333 West Ave Bldg B
 Grand Junction, CO 81505

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Kevin G. Johnson

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