

Form Pur. 1
 REQUEST FOR QUOTATION
 BIDS TO BE SUBMITTED TO:
 DEPARTMENT OF PURCHASES
 27 WEST MAIN STREET, ROOM 401
 NEW BRITAIN, CT 06051

Bid No. 3891

Issued: August 01, 2016

Page 1 of 18 Pages

Bid No. 3891

Date Submitted _____

Delivery: _____ days after receipt of order

Terms: Cash Discount _____% 30 Days

Net Cash _____ Days

Bidder _____

Street _____

City _____ ST _____ Zip _____

Signature and Title

(Printed name of signer)

Bidder's Telephone Number _____

Bidder's Email Address _____

Prices Quoted Must be F.O.B. New Britain Public Works Department,

Utilities Division, Caretaker Road, New Britain, CT

Date of Bid Opening August 29, 2016 Time 11:00 AM

Delivery Required _____ Jack Pieper
 Purchasing Agent

Amount of Bid Bond 10%

ITEM NO.	DESCRIPTION OF COMMODITIES AND/OR SERVICES	UNIT PRICE
1	<p>26'Wide x 30' Long and 15' High Tension Fabric Structure (Quonset Hut)</p> <p>Duration of the Bid Price (How long will bid price be held for) Number of Days? _____</p> <p>THE FOLLOWING MUST BE EXECUTED/COMPLETED AND RETURNED: 1. Form Pur. 1 (Request for Quotation). 2. Notices to Prospective Bidders, Pages 5-7. 3. A Bid Bond is required for all goods or services that are \$25,000.00 or greater.</p> <p>***PLEASE SUBMIT BIDS IN DUPLICATE***</p> <p><u>BIDS WILL NOT BE ACCEPTED AFTER THE STATED BID OPENING DATE AND TIME.</u></p> <p>PLEASE NOTE THAT BIDS SUBMITTED CANNOT BE FAXED OR E-MAILED.</p>	<p>\$ _____</p>

**IMPORTANT - READ CAREFULLY BEFORE MAKING BID: CONDITIONS, BID TERMS AND INSTRUCTIONS
CITY OF NEW BRITAIN CONNECTICUT -DEPARTMENT OF PURCHASES**

1. All bids must be submitted on and in accordance with this form. If more space is required to furnish a description of the commodities and/or services offered or delivery terms, the Bidder may attach a letter hereto which will be made a part of the bid. All bids must be submitted in duplicate in sealed envelopes clearly identified with the appropriate bid number.
2. Bids and amendments thereto, or withdrawal of bids submitted, if received by the City after the date and time specified for bid opening, will not be considered. If any person contemplating the submission of a bid on this invitation is in doubt as to the true meaning of any part of the specifications, plans or other documents, he should submit a written request for an interpretation thereof to the City Purchasing Agent at least 10 days prior to scheduled bid opening. An interpretation of the bid invitation documents will be made only by addendum duly issued to each person receiving a bid invitation and/or holding plans. The City of New Britain will not be responsible for explanations or interpretations of bid invitation documents except as issued in accordance herewith. Note regarding addenda: Addenda shall be mailed via certified mail to all vendors listed on the City's list of plan holders. Addenda will be made available to those vendors downloading specifications from a website at that same website.
3. Prices should be stated in units of quantity specified, with packing and delivery to destination and all other incidental charges included.
4. The time of proposed delivery must be stated in definite terms. If time of delivery for different commodities varies, the Bidder shall so state.
5. Samples, when requested, must be furnished free of expense to the City, and if not destroyed, will, upon request, be returned at the Bidder's risk and expense.
6. Price Quotations must be stated in units of quantity specified, show unit pricing, include packing and delivery to destination and all other incidental charges included in the grand total price or bid may be rejected. In case of error in the extension of prices, the unit price shall govern.

7. Unless qualified by the provision "NO SUBSTITUTE", the use of the name of a manufacturer, brand, make or catalog designation in specifying an item does not restrict Bidders to the manufacturer, brand, make or catalog designation identification. This is used simply to indicate the character, quality and/or performance equivalence of the commodity desired, but the commodity on which bids are submitted must be of such character, quality and/or performance equivalence that it will serve the purpose for which it is to be used equally as well as that specified. In submitting bids on a commodity other than as specified, Bidder shall furnish complete data and identification with respect to the alternate commodity he proposes to furnish. The City reserves the right to make final determination of equivalency.

Consideration will be given to bids submitted on alternate commodities to the extent that such action is deemed to serve best the interests of the City. If the Bidder does not indicate that the commodity he proposed to furnish is other than specified, it will be construed to mean that the Bidder proposes to furnish the exact commodity described.

8. Bidder declares that the bid is not made in connection with any other Bidder submitting a bid for the same commodity or commodities, and that the bid is bona fide and is in all respects fair and without collusion or fraud. Abstracts of bids received are prepared for distribution by the Department of Purchases.
9. Award will be made to the lowest responsible qualified Bidder, who shall be determined in accordance with and pursuant to Section 2-578, inclusive of the Purchasing Ordinances City of New Britain. The quality of the articles to be supplied, their conformity with the specifications, their suitability to the requirements of the City, and the delivery terms will be taken into consideration in making the award.

10. Section 2-578, item 10, allows up to a ten (10) percent differential in favor of resident Bidders for all purchases and contracts except construction and/or capital improvements. Any city-based bidder, which has submitted a bid, shall be awarded the bid provided that such city-based bidder agrees to accept the award of the bid at the amount of the low bid. In a situation where no city-based bidder submits a bid or where a city-based bidder does not come within the ten (10) percent or chooses not to meet the lowest bid however, there are bids submitted by companies based in Connecticut and other companies based outside Connecticut, in that event the Purchasing Agent shall allow a five (5) per cent differential in favor of the Connecticut based bidder. If more than one Connecticut based bidder submits a bid of not more than five (5) percent higher than the low bid and has agreed to accept the award of the bid at the amount of the low bid, the bidder who has submitted the lower/lowest bid shall be awarded the bid. A "Connecticut based bidder" shall mean a business with a legal principle place of business located within in the State of Connecticut. A business shall not be considered a Connecticut based bidder unless evidence satisfactory to the purchasing agent has been submitted with the bid documents has a bona fide principle place of business within the State of Connecticut. For construction projects or capital improvements the lowest bidder shall be determined in the following order unless otherwise prohibited by applicable state and federal legislation. (1) For construction projects or capital improvements involving a total contract price of one million dollars (\$1,000,000.) or less any city-based bidder that submitted a low bid not more than eight (8) percent higher than the lowest bid, provided such city-based bidder agrees to accept the award of the bid at the lowest bid amount. (2) For construction projects and capital improvements of involving a total contract price of more than one million dollars (\$1,000,000.) but less than five million dollars (\$5,000,000.) any city-based bidder that submitted a low bid not more than four (4) percent higher than the lowest bidder, provided such city-based bidder agrees to accept the award of the bid at the lowest bid amount. For construction projects and capital improvements involving a total contract price of over five million dollars (\$5,000,000.) any city-based bidder that submitted a low bid not more than two (2) percent higher than the lowest bid, provided such city-based bidder agrees to accept the award of the bid at the lowest bid amount.

11. The City reserves the right to award by item, groups of items or total bid; to divide the award; to reject any and all bids, in whole or in part, and to waive any informality or technical defects if, in its judgment, the best interests of the City will be served.
12. Section 2-592, All formal bids shall, whenever possible, be based on at least three (3) competitive bids and shall be awarded to the lowest responsible bidder. If three (3) competitive bids are not received, the City reserves the right to reject any and all bids received and not to award the bid and to go back out to bid to obtain three (3) competitive bids.
13. Cash discounts may be offered by bidder for prompt payment of bills, but such discount will not be taken into consideration in determining the low Bidder but will be taken into consideration in awarding tie bids. The discount period will be computed from the date delivery is accepted at destination or from date correct invoice is received by the consignee, whichever is the later date.

14. Acceptance of a bid by the City is not an order to ship or a commitment to purchase the goods or services from the bidder.
15. Each bid is received with the understanding that the acceptance in writing by the City of the offer to furnish any or all of the commodities and/or services described therein shall constitute a contract between the Bidder and the City, which shall bind the Bidder on his part to furnish and deliver the articles quoted at the prices stated and in accordance with the conditions of said accepted bid.
16. Any equipment delivered must be standard new equipment, latest model, except as otherwise specifically stated in bid. Where part or nominal appurtenances of equipment are not described, it shall be understood that all the equipment and appurtenances which are usually provided in the manufacturer's stock model shall be furnished.
17. In event of default by the Bidder, the City reserves the right to procure the commodities and/or services from other sources and hold the Bidder liable for any excess cost occasioned thereby. If, however, public necessity requires use of materials or supplies not conforming to the specifications, they may be accepted and payment therefor shall be made at a proper reduction in price.
18. Where a bid bond is required, such bond must accompany the bid; it must be executed by a surety company licensed to do business in the State of Connecticut; or it may be in the form of a cashier's or certified check made out to the "Treasurer, City of New Britain". Said bond or check in the amount of Ten Percent (10%) of the total bid amount shall be given as security that, if the bid is accepted, a contract will be entered into and the performance guarantee properly secured.
19. The bid bond, cashier's or certified check shall be forfeited and the principal amount of said bid bond shall be paid to the City or said check shall be surrendered to the City as the agreed amount of liquidated damages in case of failure of Bidder to enter into contract as above described. The bid bond or check will be released or returned to the Bidder in case his bid is rejected. Bid bonds or checks from the three lowest bidders will be held for a period of 60 days after the bids are opened.
20. All contracts for goods or services where the contract price is more than \$50,000.00 will require a performance bond that must be executed by a surety company licensed to do business in the State of Connecticut in accordance with and pursuant to Section 2-702 inclusive of the Purchasing Ordinances of the City.
21. The Bidder guarantees to save the City, its agents or employees, harmless from liability of any nature or kind, for use of any copyrighted or uncopyrighted compositions, secret process, patented or unpatented invention, articles or appliances furnished or used in the performance of the contract, or which the Bidder is not the patentee, assignee or licensee.
22. The Bidder, where applicable, agrees to pay its labor force Prevailing Wage Rates and to comply to all Laws, Regulations and Ordinances regarding these wage rates and the recording of them set forth by the Connecticut Department of Labor and the City of New Britain Connecticut.
23. A performance guarantee shall be required per City Ordinance, Sec. 2-702, for all contracts for goods and services entered into by the City of New Britain where the contract price is fifty thousand dollars (\$50,000.00) or more. A performance guarantee shall be required for contracts of less than fifty thousand dollars (\$50,000.00) where deemed necessary in order to protect the interests of the City or as required by State or Federal statute, ordinance or regulation.

The City of New Britain, through its Purchasing Agent, is seeking competitive bids for the following commodity:

26'Wide x 30'Long x15'High Tension Fabric Structure (Quonset Hut)

Specifications for the product required follow. The Purchasing Agent reserves the right to divide the award and the right to reject any and all bids, in whole or in part, as best serves the interests of the City of New Britain. *SEALED BIDS ARE TO BE SUBMITTED BY THE DATE AND TIME SPECIFIED ON THE COVER SHEET TO: CITY OF NEW BRITAIN PURCHASING DEPT., ROOM 401, 27 WEST MAIN ST., NEW BRITAIN, CT 06051. BID ENVELOPE IS TO BE CLEARLY MARKED ON THE OUTSIDE WITH BID NUMBER AND NAME.*

NOTICE TO BIDDERS:

1. All delivery and any incidental charges must be included in the pricing. Delivery point is: New Britain, CT. Stated quantities are estimates only; no guarantee is given, express or implied, as to actual quantities to be ordered.
2. The City of New Britain is exempt from the payment of taxes imposed by the federal government and/or the State of Connecticut; such taxes shall not be included in the bid prices.
3. Exceptions to specifications must be clearly stated on a separate piece of paper.
4. Manufacturer must be clearly stated.
5. Questions regarding the Purchasing process may be directed to Jack Pieper, Purchasing Agent, (860) 826-3402. Questions regarding technical specifications may be directed to Ken Marzi, New Britain, Public Works Department, Utilities Division at (860) 826-3538.
6. Vendor insurance requirements are as follows:
Vendor shall agree to maintain in force at all times during which services are to be performed the following coverages placed with company(ies) licensed by the State of Connecticut which have at least an "A-" VIII policyholders rating according to Best Publication's latest edition Key Rating Guide.

		(Minimum Limits)
General Liability*	Each Occurrence	\$1,000,000
	General Aggregate	\$2,000,000
	Products/Completed Operations	\$2,000,000
Auto Liability*	Aggregate	
	Combined Single Limit	
Umbrella*	Each Accident	\$1,000,000
	Each Occurrence	\$1,000,000
(Excess Liability)	Aggregate	\$1,000,000
Professional Liability	Each Occurrence	\$1,000,000
	Aggregate	\$ 1,000,000

* "The City of New Britain and Consolidated School District" shall be named as "Additional Insured". Coverage is to be provided on a primary, noncontributory basis.

If any policy is written on a "Claims Made" basis, the policy must be continually renewed for a minimum of two (2) years from the completion date of this contract. If the policy is replaced and/or the retroactive date is changed, then the expiring policy must be endorsed to extend the reporting period for claims for the policy in effect during the contract for two (2) years from the completion date.

Workers' Compensation and WC Statutory Limits

Employers' Liability	EL Each Accident	\$500,000
	EL Disease Each Employee	\$500,000
	EL Disease Policy Limit	\$500,000

Original, completed Certificates of Insurance must be presented to the Acting Purchasing Agent prior to purchase order/contract issuance. Vendor agrees to provide replacement/renewal certificates at least 60 days prior to the expiration of the policy. Should any of the above described policies be cancelled before the expiration date, written notice must be made to the City 30 days prior to cancellation.

Purchaser shall agree to submit proof of the following coverages placed with company(ies) licensed by the State of Connecticut which have at least an "A-" VIII policyholders' rating according to Best Publication's latest edition Key Rating Guide.

7. **HOLD HARMLESS AGREEMENT:** The Contractor, its agents and assigns shall indemnify and hold harmless the City of New Britain, including but not limited to, its elected officials, its officers, and agents, ("the City") from any and all claims made against the City, including but not limited to, damages, awards, costs and reasonable attorneys fees, to the extent any such claim directly and proximately results from the wrongful willful or negligent performance of services by the Contractor during the Contractor's performance of this Agreement or any other Agreements of the Contractor entered into by reason thereof. The City agrees to give the Consultant prompt notice of any such claim and absent a conflict of interest, an opportunity to control the defense thereof.

8. The City may consider as irregular any bid on which there is an alteration of or departure from the Bid Forms hereto attached and at its option may reject the same. The City reserves the right to reject any Bid submitted that is not in full compliance with these Instructions to Bidders as being not responsive. The City also reserves the right to reject the Bid of any Bidder it considers not responsible.

9. The City may make such investigations as it deems necessary to determine the ability of the bidder to perform the work, and the Bidder shall furnish to the City all such information and data for this purpose as the City may request. The City reserves the right to reject any and all bids if evidence submitted by or investigation of such Bidder fails to satisfy the City that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the work or delivery the items contemplated therein.

10. The City shall not be held responsible for any misspellings, typographical errors, omission or conflicting information within the bid documents. If the Bidder finds any within the bid documents, the Bidder should contact the Purchasing Agent requesting clarification.

11. The City reserves the right to accept or reject any or all bids and to withdraw this invitation to bid at any time before or after the bids are opened.
12. If City Hall is closed on the day of the bid opening due to inclement weather or any other conditions, the bid opening date shall be postponed until the same hour on the next day that City Hall is officially open for business.
13. Please note that it is the Bidder's responsibility to check on-line a minimum of twenty-four (24) hours in advance of the bid opening to determine if an addenda have been issued.
- 14. All Bidders must complete the W9, Non Collusive Affidavit of Bidders and the Notice To Prospective Bidders Certification Required forms, with are attached, and submit them with their bid documents in order for their bids to be considered. Bidders shall certify that neither they nor any business or corporation fully or partially owned by the bidders are not delinquent on the payment of City property taxes or fees. The Non Collusive Affidavit must be also be signed and notarized by an official State Notary and the Notary's seal placed on it. If the required forms are not completed the City reserves the right to reject the submitted bid.**
15. **SUBCONTRACTING:** The successful bidder may utilize the services of specialty subcontractors on those portions of the work that, under normal contracting practices, are performed by specialty subcontractors. The successful bidder shall not award any portion of the work to a subcontractor without prior written approval of the City. The acceptance of any and all subcontractors shall reside with the City, and the City's decision shall be final. The successful bidder shall be fully responsible to the City for the performance, finished products, acts, and omissions of his subcontractors and persons directly or indirectly employed thereby.
- 16. BONDING: Bid Bond – 10% Performance and Materials Bond and Certificate of Insurance will be required from the company awarded the bid.**
- 17. PERMITS: The Bidder awarded the contract to perform the work will be required to obtain and pay for all the necessary state and local permits.**
- 18. Installation of the Quonset Hut at the Public Works Department, Utilities Division's Caretaker Road Facility must be installed by November 30, 2016.**

SPECIFICATIONS:

MATERIAL SPECIFICATION

1.0.0. GENERAL

- 1.1.0. The purpose of this bid is for the purchase and installation on site for the City of New Britain, Public Works Department, Utilities Division's Quonset Hut of a Clearspan, or equal, 26'W x 30'L x 15'H dome style tension fabric structure for the purpose of a "Equipment Storage Building", following the design specifications listed below.

All items to be bid FOB, City of New Britain, CT.

All bid submittals shall be submitted with a complete list of performance, design, dimensions, size, weights, warranties and capacities on each item as listed below in the specifications.

1.2.0. CONNECTICUT ENGINEER STAMPED DRAWINGS ARE REQUIRED

- 1.3.0. The workmanship of all materials and components of the structure shall commensurate with the functional requirements of the item.
- 1.4.0. Building prefabrication shall be performed under factory conditions in a plant specifically arranged for this type of work. Contractor shall provide adequate space, equipment, personnel and technical ability to coordinate the assembly and factory prefabrication of all major components of the work and all necessary operation in the packing, shipping and installation procedures. No fabrication shall be done unless the materials have been tested and approved.
- 1.5.0. Welding: Welding shall be employed only when specified in the original design. Welding shall be in accordance with CAN/CSA A660-10 and CWB 47.1. Successful bidder must supply CAN/CSA A660-10 certificate of approval.

2.0.0. GENERAL DESIGN REQUIREMENTS:

- 2.1.0. Warranty: 15-year on Fabric
- 2.1.1 Site preparation to be performed by New Britain Public Works Department. Utilities Division Building supplier to provide structure, and installation of the building only.
- 2.1.2. The membrane shall be tensioned over the framework.
- 2.1.3. The structure shall be rectangular in shape with 2 vertical gable end walls. 1 end wall shall have a 12' wide X 12' high roll-up, canister style, manually operated door and 1ea 3' passage door.
- 2.1.4. The interior of the structure below the main trusses shall be clear span free of any structural support members and shall provide unobstructed floor space.
- 2.1.5. No exterior purlins, guy ropes or cables shall be used for anchoring the structure.

2.2.0. Design Requirements-Structural Frame:

CITY OF NEW BRITAIN
PUBLIC BID NO. 3891

- 2.2.1. Roof and Wall Surfaces: To provide for maximum compatibility with standard door, window, ventilation and other accessory and cladding systems, and the structure shall be designed such that roof and gable side wall surfaces for flat planes.
- 2.2.2. Purlin Spacing: To provide for structural stability and to provide for installation of accessory items, the main structural trusses shall be laterally braced by tubular purlins at intervals required by the truss design.
- 2.2.3. Wind and Frame Bracing: The structure shall be appropriately stabilized with wind bracing cable as well as any required secondary node restraint assemblies so as to efficiently transfer wind, snow and seismic induced stresses to the foundation/anchoring system. Cable diameter for main wind bracing shall be a minimum of 3/8" diameter and larger if so required. The end bays of the structure shall be designed to be X – braced early during installation to allow for permanent stability of the frame during installation.
- 2.2.4. Connecting Joints: Connections between structural elements shall be designed so as to transfer the compressive and tensile forces present in a given joint. A minimum of Grade 5 bolts shall be used at each truss chord joint. Primary axial steel, secondary purlins and end wall frame connections shall be made with a minimum of Grad 5 hex bolts, carriage bolts and self drilling screws.
- 2.2.5. Mechanical Equipment Interface: The main structural roof trusses shall allow for installation of electrical and mechanical equipment based on collateral loads. Likewise, the structure shall accept penetrations through the membrane for access doors and mechanical services with minimal modification.
- 2.2.6. Ancillary Systems: The structure shall be designed such that it can be readily retrofitted with insulation systems and other ancillary systems such as lighting, sprinklers, HVAC, provided collateral load factors are taken into account.
- 2.2.7. Alternative Cladding materials: The structure shall be designed such that alternative covering materials such as metal wall cladding can be added with minimal modification, if required.
- 2.2.8. All hardware needed to assemble building to be supplied by vendor / contractor.
- 2.2.10. Truss Depth – No less than 24".
- 2.2.11. Minimum interior clearance for building not including foundation wall 15'2 3/8".
- 2.2.12. 26' Wide X 30' Long.
- 2.2.13. 1 end enclosed with 1 (ea) 36"x36" vent frame.
- 2.2.14. (1ea) 36"x36" fixed louver vent.
- 2.2.15. Front end wall shall have a 12' wide X 12' high roll-up, canister style, manually operated door and 1 ea 3' passage door.
- 2.2.16. Building to be engineered to 40# psf ground snow load and 100mph, 3 sec gust: See Section 2.4.2. and 2.4.3. for details.
- 2.2.17 Engineered Helical style anchors. Geotechnical site report to be provided by owner.
- 2.2.18. Installation/assembly by manufacturer approved contractor only.

2.3.0. Design Requirements – Membrane Cladding System:

- 2.3.1 Membrane: The flame retardant roof membrane shall form a weather tight shell over the structural frame. In order to provide for a good finished appearance and to insure weather tightness, the membrane shall be assembled and tensioned, in a manner to minimize wrinkles in hot and cold temperatures.
- 2.3.2. The gable wall membrane cladding shall be manufactured and connected to form one piece to the adjacent end wall and roof cladding.
- 2.3.3. Roof membrane horizontal stretch shall be maintained with horizontal purlins requiring no ongoing maintenance.
- 2.3.4. Base Tensioning System: The membrane cladding will be provided with a mechanical tensioning system that allows the membrane to be fully tensioned around the structure perimeter. The system will be designed such that the membrane can be tightly and neatly secured over the structural frame and such that the system has remaining range of adjustment.
- 2.3.5. Membrane Seal at Openings and Base: The Dealer supplying the structure will provide all materials and methods necessary to fully tension and seal the membrane material around all doors, ventilation and other opening as well as around the structure perimeter below the main tensioning system. This seal shall provide a neat and finished appearance and eliminate any loose membrane cladding that would otherwise be damaged by flapping or abrasion. When a membrane base skirt is required, this shall be supplied and attached at the base perimeter to allow a reasonable seal against air and water intrusion.
- 2.3.6. The membrane shall not be designed to function as a structural member such that, should any damage to or penetrations of the membrane occur, the integrity of the structural framework shall not be affected.
- 2.3.7. The Contractor shall provide drawings and calculations acceptable to the architect/Engineer of the Record, meeting the provisions of the applicable State Building Code. The Contractor shall bear all costs for production of drawings and associated structural calculations. Contractor shall make all revisions and corrections to those documents required for approval and shall resubmit as required to obtain approvals.

2.4.0. ENGINEERED DESIGN CRITERIA:

- 2.4.1. The structure shall be designed using methodology as per ASCE 7 standard referenced from the applicable building code. Primary and secondary framing shall comply with current issues of ISC, AISI, NEMA and ASTM specification, as applicable. Structural members shall be designed using Allowable Stress Design (ASD) or Load Resistance Factored Design (LRFD) for the design loads given below. Wind load factors and coefficients used in design of structural members must be in accordance with the applicable ASCE 7 guidelines.
- 2.4.2 Snow Loads: The structure shall be designed based upon a minimum ground snow load of 40 pounds per square foot (Psf).
- 2.4.3. Wind Loads: The structure shall be capable of withstanding a basic wind speed (3-second gust) from any direction of 100 miles per hour. The design wind pressure shall be based on an exposure category of “C” and appropriate wind load factors and coefficients in accordance with the applicable referenced ASCE 7 guidelines. In no event shall the wind load used in the design of the main wind force resisting system be

less than 10 pounds per square foot multiplied by the area of the building or structure projected on a vertical plane that is normal to the wind direction.

2.4.4. Rainfall: The structure shall be capable of withstanding the effects of rainfall up to 4 inches per hour for at least 2 hours.

2.4.5. Design Loads: The design shall be based as a minimum on the following design loads. Each member shall be designed to withstand stresses resulting from combinations of design loads that produce maximum percentage of actual to allowable stress in that member as per referenced ASCE 7 standard from applicable building code.

D = Dead Load + Collateral Load

S = Symmetrical Snow or Live Load (Balanced or Unbalanced)

Ws = Wind with internal suction

Wp = Wind with internal pressure

E = Earthquake

2.5.0. OPERATION AND USE:

2.5.1. The main structure frame shall be designed to provide a minimum of 15-year operational use period with appropriate inspection and maintenance.

2.5.2. The structure shall be capable of being assembled, operated and dismantled in all ambient temperatures between -20 °F and 120 °F.

2.5.3. The structure shall be capable of being erected on concrete and of accepting differential settlement of up to 1 ½% between truss positions.

2.6.0. MATERIALS:

2.6.1. All materials used in the structure shall be new, without defects and free of repairs. The quality of the materials used shall be such that the structure is in conformance with the performance requirements specified herein.

2.6.2. Cladding Membrane: The structure shall be clad with a polyolefin fabric manufactured by an approved and reputable supplier with demonstrated long-term performance. The polyolefin membrane fabric shall be waterproof and free from defects. All roofs, walls, end walls and connecting sections shall be weather tight. The material shall be selected from the manufacturer's standard colors for the sidewalls and roof panels. The material scrim and coating must be UV stabilized and must carry a minimum 15-year manufacturer's warranty. The minimum fabric specification is as follows:

Total Fabric Weight	12.0 oz/yd ² (407 g/m ²) +/- 5%
Coating Thickness	4 mils average, each side
Finished Thickness	23 mils (ASTM D5199)
Grab Tensile Strength	350 lbs (ASTM D5034)
Strip Tensile Strength	240 lbs/in (ASTM D5035)
Tongue Tear Strength	110 lbs (ASTM D2261)
Trapezoidal Tear	90 lbs (ASTM D-4533)
Mullen Burst	675 psi (ASTM D3786)
Cold Crack Resistance	-60 °C (ASTM D2136)
UV Resistance & Weathering	90% retention after 2000 hrs. ASTM G151
Performance	0.038 (grains/h/ft ² /in Hg) ASTM E96

- 2.6.3. Metal: The main structure shall consist of welded truss arches with parallel tube chords separated apart by webbing. Parallel tube cords are made from triple coated, in-line galvanized structural steel tubing, cold-formed and induction welded of modified grade carbon steel, providing a finished tubular product with exceptional mechanical and corrosion resistant properties. **Hot Dipped Galvanized pipe post fabrication will not be accepted.**
- 2.6.4. Tolerances: all dimensional tubing tolerances are in accordance with ASTM A500, Section 10.
- 2.6.5. Tubing shall be manufactured using steel conforming to ASTM A568 and ASTM A1011. Finished steel tubing used in the structure must have the following minimum structural and mechanical properties based on standard ASTM A500:
Tension Ultimate: 55 KSI and Yield: 50 KSI
- 2.6.6. Corrosion Protection: All steel tube components, trusses, purling, fastening tubes shall be coated, on the exterior, with a gloss finishing providing a corrosion resistance of 1800 hours as per ASTM B117-90;
- 2.6.7. Coatings: Zinc conforms to ASTM B6, Standard Specifications for Zinc, High Grade (1.1.3.) and Special High Grade (1.1.2.).
- a. Exterior: In-line galvanized to a normal coating zinc weight of 0.6 oz/ft². Chromate conversion coating applied over the galvanized surface to provide additional corrosion protection. Clear organic polymer applied as the top surface coat to retard oxidation, enhance surface appearance and provide a primer for subsequent painting or powder coating processes as desired.
 - b. Interior: Full zinc based organic coating applied to 100% of the interior surface as a corrosion barrier.
- 2.7.0. Hardware:**
- 2.7.1. Bolts: Bolts subject to extreme stress and wear shall be structural bolts of Grade 5 and plated/ galvanized that has been upgraded with a corrosion resistant topcoat finish. All bolts shall be installed and securely torque so as to prevent change in tightness. Those subject to removal or adjustment shall not be swaged, peened, staked or otherwise installed.
- 2.7.2. Membrane Tensioning Hardware: The fabric membrane shall be tensioned with load rated hardware which is plate/hot dip galvanized so as to prevent corrosion. Hardware shall allow full and free rotation at the foundation connection to avoid fatigue of threaded assemblies.
- 2.7.3. Membrane Tensioning Webbing: The membrane shall be tensioned with load-tested tie-downs.
- 2.7.4. Cable Assemblies: Main and wind bracing cable assemblies shall be manufactured to the required length and press swaged with metal sleeves. The cables are manufactured using performed galvanized cables, sized with appropriate safety factors.
- | | | |
|------------|---|-------------|
| 3/16" dia. | = | 4,200 lbs. |
| 1/4" dia. | = | 7,000 lbs. |
| 5/16" dia. | = | 9,800 lbs. |
| 3/8" dia. | = | 14,400 lbs. |
| 1/2" dia. | = | 22,800 lbs. |
- 2.7.5. Other Fasteners: Non-structural fasteners such as wood screws, Tek screws, etc., shall be standard commercial quality.

CITY OF NEW BRITAIN
PUBLIC BID NO. 3891

- 2.7.6. Exterior Trim: The aluminum alloy used in the extrusion shall meet or exceed 6063-T5.
- 2.7.7. Piece marking and Identification: all individual parts or bundles and packages of identical parts are to be clearly marked for identification. Bolts, nuts, washers and fasteners shall be packaged according to type, size and length. Shipping documentation shall include a list showing the description, quantity and piece mark of the various parts, components and elements.
- 2.7.8. Material Delivery: The building system materials shall be delivered to the project site during normal working hours on weekdays. Installation contractor will provide adequate workmen and equipment to promptly unload, inspect and accept material delivery. Bid Price submitted by the bidder is to include building and material shipping and delivery costs.
- 2.7.9. Handling: At no time shall materials be dropped, thrown or dragged over the transport equipment or the ground. Damage to any piece under its own or superimposed weight shall be cause for repair or replacement by the vendor or contractor.
- 2.7.10. Short, damaged or excess materials: Installation contractor shall inspect, count and verify quantities based on the shipping documents.

3.0.0. REFERENCES AND STANDARDS:

- 3.1.0. The following publications are for the standards listed below but referred to within the document by basic letter designation only. They form a part of this specification to the extent referenced thereto:
 - 3.1.1. American Institute of Steel Construction (AISC):
 - S326-78 Design, Fabrication and Erection of Structural Steel Buildings
 - S329-85 Structural Joints Using ASTM A325 or A490 Bolts
 - 3.1.2. American Iron and Steel Institute (AISI):
 - SG 503-76 The Design of Fabrication of Cold-Formed Steel Structures
 - 3.1.3. American Society for Testing and Materials (ASTM):
 - A 36-89 Structural Steel
 - A 307-89 Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength
 - A 325-89 High-Strength Bolts for Structural Steel Joints
 - A 500 A-90 Standard Specification for Cold Formed Welded And Seamless Carbon Steel Structural Tubing in Rounds and Shapes
 - A 563 Rev A-89 Carbon and Alloy Steel Nuts

 - A 687-89 High-Strength Non-Headed Steel Bolts and Studs
 - 3.1.4. American Society of Civil Engineers (ASCE) Minimum Design Loads for Building and Other Structures. Latest edition as required by State Code.
 - ASCE 7-98 American Society of Civil Engineers
 - ASCE 7-02 American Society of Civil Engineers
 - ASCE 7-05 American Society of Civil Engineers
 - 3.1.5. Canadian Standards Association
 - CAN/CSA-S16.1 Limit States Design of Steel Structures

3.2.1 INSTALLATION

The High Tension Fabric Structure (Quonset Hut) for the New Britain Public Works Department, Utilities Division, at their Caretaker Road Facility must be installed by November 30, 2016.

The New Britain Public Works Department, Utilities Division, will be responsible of pouring a concrete pad for the High Tension Fabric Structure (Quonset Hut).

NON COLLUSIVE AFFIDAVIT OF BIDDERS

BID# 3891 - Tension Fabric Structure (Quonset Hut)

State of (_____);

County of (_____).

I state that I am the _____ of _____
(title) (name of firm)

and that I am authorized to make this affidavit on behalf of my firm, and its owners, directors, and officers. I am the person responsible in my firm for the price(s) and the amount of this Bid.

I certify that:

- (1) The price and amount on this Bid has been arrived at independently and without consultation, communication, or agreement with any other bidder.
- (2) Neither the price(s) nor the amount of this Bid and approximate price(s) nor approximate amount of this Bid has been disclosed to any other firm or person who is a Bidder and that no disclosure of these items will be made prior to the Bid opening.
- (3) No attempt has been or will be made to induce any firm or person to refrain from proposing on this Bid, or to submit a Bid higher than this Bid, or to submit any intentionally higher or non competitive Bid.
- (4) Neither the said Bidder nor any of its officers, partners, owners, representatives, employees or parties in interest, including this affidavit, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or to refrain from Bidding in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit or cost element of the Bid price or the Bid price of any Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of New Britain, owner, or any person interested in the proposed Contract.
- (5) The Bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other non competitive proposal.

(6) I state that _____ understands and acknowledges that all
(name of my firm)

representations of this affidavit are material and important, and will be relied on by the City of New Britain in awarding a contract for which this is submitted. I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from the City of New Britain of the true facts relating to the submission of Bids for this contract. That the City of New Britain also reserves the right to reject our Bid if failure to complete this document, have it notarized and submitted with our Bid documents.

The undersigned Bidder further certifies that this statement is executed for the purpose of including the City of New Britain to consider the Bid and make an award in accordance therewith.

Subscribe and Sworn to me this

_____ day of _____,
2016

Legal Name of Bidder

Business Address

Signature and Title of Person

Notary Public

My Commission Expires

Date

NOTICE TO PROSPECTIVE BIDDERS
CERTIFICATION REQUIRED

The City of New Britain Code of Ordinances, Sec. 2-575, reads as follows:

Sec. 2-575. Rejection of bid where bidder is in default to city.

The agent shall not accept the bid of a contractor, who is in default on the payment of taxes, licenses or other monies due the city.

The agent shall include in the bid document a form to be executed by a bidder, certifying that said bidder is not in default on the payment of taxes, licenses or other monies due the city.

As used in this section, (1) a "principal" of a contractor shall mean an individual who is a director, an officer, an owner, a limited partner or a general partner; and (2) "default in the payment of taxes" shall mean the failure to pay taxes by the date such taxes are due and payable or the failure to be current with respect to a delinquent taxes payment schedule as set forth in a written agreement with the Tax Collector.

In accordance with this provision, prospective vendors make the following certification:

The principals, as defined above, of the entity submitting responses to Public Bid No. 3633 are: (Please type or print clearly and use additional pages if necessary).

1. Name: _____

Local Residence Address (if any) _____

Local Mailing Address (if any) _____

If a principal, as defined above, is in any local entity other than the entity submitting a response to this Public Bid listed above, state the entity or entity's name(s) and address(es):

Entity's Name _____

Local Mailing Address (if any) _____

NOTICE TO PROSPECTIVE BIDDERS
CERTIFICATION REQUIRED

2. Name: _____

Local Residence Address (if any) _____

Local Mailing Address (if any) _____

If a principal, as described above, is in any local entity other than the entity submitting a response to this Public Bid No. listed above, state the entity or entity's names(s) and address(es):

Entity's Name _____

Local Mailing Address (if any) _____

3. Name: _____

Local Residence Address (if any) _____

Local Mailing Address (if any) _____

If a principal, as defined above, is in any local entity other than the entity submitting a response to this Public Bid No. listed above, state the entity or entity's name(s) and address(es):

Entity's Name _____

Local Mailing Address (if any) _____

Signature of Principal and their Title of the Entity Submitting this Bid hereby indicates by signing this Notice to Prospective Bidder that the Entity or its Principles as listed herein are not in default on the payment of taxes, licenses, or other monies due to the City of New Britain as of the date of this bid solicitation.

_____ Date: _____

Review by Tax Collector: (To be completed by the City of New Britain's Tax Collector only if the Bidder is awarded the contract as the result of this Public Bid)

By: _____ Date: _____

Request for Taxpayer Identification Number and Certification

**Give Form to the
requester. Do not
send to the IRS.**

Print or type See Specific Instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification (required): <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Other (see instructions) ▶ _____	
	<input type="checkbox"/> Exempt payee	
	Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
City, state, and ZIP code		
List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)																																																							
Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see <i>How to get a TIN</i> on page 3.																																																							
Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.	<table border="1" style="margin: 0 auto;"> <tr><td colspan="9" style="text-align: center;">Social security number</td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td colspan="3">-</td><td colspan="3">-</td><td colspan="3"></td></tr> </table> <table border="1" style="margin: 0 auto;"> <tr><td colspan="9" style="text-align: center;">Employer identification number</td></tr> <tr><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td><td style="width: 20px;"> </td></tr> <tr><td colspan="3">-</td><td colspan="3"></td><td colspan="3"></td></tr> </table>	Social security number																		-			-						Employer identification number																		-								
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Part II Certification	
Under penalties of perjury, I certify that:	
<ol style="list-style-type: none"> The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and I am a U.S. citizen or other U.S. person (defined below). 	
<p>Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 4.</p>	
Sign Here	Signature of U.S. person ▶ _____ Date ▶ _____

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.



City of New Britain
New Britain, Connecticut 06051

*“New Britain:
A City for
All People”*

27 WEST MAIN ST., NEW BRITAIN, CT 06051

PHONE: (860) 826-3434
FAX: (860) 612-4204
E-MAIL: jpieper@newbritainct.gov

Date: _____, 2016

Subject: Dome Style Tension Fabric Structure (Quonset Hut), Public Bid No. 3891

To Whom It May Concern:

Specifications for subject bid solicitation are enclosed for your review and response.

If you do not submit a bid, we request that you complete the bottom portion of this letter and return to the writer’s attention. This shall assist the City of New Britain in maintaining accurate bidders’ lists.

Your cooperation is greatly appreciated.

Very truly yours,

Jack Pieper
Purchasing Agent

Company Name: _____

Address: _____

We are not responding to subject bid solicitation for the following reason:

- Our company does not sell the requested product.
- Our company does not provide the requested service.
- Our schedule will not allow us to provide the requested service at this time.
- Other (please explain): _____
