



INVITATION TO BID

The City of Bainbridge will receive sealed bids for GABION BULKHEAD SUPPLIES, as described in the attached Specifications until Wednesday, September 14, 2016 at 1:00 P.M. Eastern Standard Time and will be opened publicly and read aloud.

Bids shall be addressed to the attention of Brenda Strickland, Purchasing Director, City of Bainbridge, (US Postal Service) P.O. Box 158 (Zip Code 39818), (Courier Service) 1707 East Shotwell Street (Zip Code 39819), Bainbridge, Georgia and plainly marked on the outside of the envelope "SEALED BID FOR GABION BULKHEAD SUPPLIES". We will not accept any bid unless it is plainly marked on the outside of the envelope as requested.

Bidders must complete all blanks on the enclosed Bid Form, or the bid may be subject to rejection. No bid will be entertained unless it is prepared upon the City of Bainbridge Bid Form and signed in ink by an official of the company submitting the proposal.

All prices quoted shall be firm for a period of 30 days from bid opening. The City of Bainbridge requires a minimum of 30 days to make payment to successful vendor after receipt of goods. However, cash discounts for early payment will be taken in consideration. If such a discount is available, please note this in your bid proposal.

The City of Bainbridge reserves the right to accept or reject any part of or all bids, and to waive technicalities or formalities in bidding, and the right to negotiate with the low bidder to reach a final contract, and to accept the bid deemed to be in the best interest of the City.

Local Procurement Preference: A local preference of 2% for qualifying Decatur County Businesses will be permitted when evaluating bids for supplies, equipment, materials and personal services that are not a part of a construction project.

We welcome your proposal.

Sincerely,

A handwritten signature in cursive script that reads "Brenda Strickland".

Enclosures: Bid Form (1 page)
Specifications (6 pages)

Brenda Strickland
Purchasing Director

BID FORM

City of Bainbridge, Georgia

Bid on Gabion Bulkhead

Please quote lowest price at which you will furnish the items listed below:

Each bidder is required to fill in every blank. Failure to do so can be used as a basis for rejection of bid.

<u>QUANTITY</u>	<u>DESCRIPTION</u>	<u>PRICE PER FOOT</u>	<u>BID PRICE</u>
3,600 SQ. FT.	Non-Woven Geotextile Fabric (Class I)	\$ _____	\$ _____
87 Each	3' x 3' x 12' PVC Coated (Gray Color) Galvanized Gabion Basket	\$ _____	\$ _____
6 Each	3' x 3' x 6' PVC Coated (Gray Color) Galvanized Gabion Basket	\$ _____	\$ _____
29 Each	1.5' x 3' x 12' PVC Coated (Gray Color) Galvanized Gabion Basket	\$ _____	\$ _____
2 Each	1.5' x 3' x 6' PVC Coated (Gray Color) Galvanized Gabion Basket	\$ _____	\$ _____
4 Each	50' Sections of Type II Floating Turbidity Barriers	\$ _____	\$ _____

F.O.B. BAINBRIDGE, Georgia

If awarded bid, a cash discount of _____ will be allowed on Bid Price if paid within _____ after the City of Bainbridge is in receipt of goods.

If awarded bid, the Gabion Bulkhead Supplies will be delivered to the City of Bainbridge within no more than _____ days after the order is placed.

(Be specific, do not estimate)

The above in accordance with invitation to bid dated August 17, 2016.

The undersigned certifies that the Bid Invitation and Specifications have been reviewed; and understands that once the bid opening begins, a bid cannot be withdrawn for modifications. All prices, terms, and conditions will be firm for a period of 30 days from bid opening.

FIRM NAME: _____

ADDRESS: _____

_____ ZIP _____

NAME AND TITLE OF PERSON SUBMITTING BID (Please Type or Print Legibly)

TELEPHONE: _____ DATE: _____

AUTHORIZED SIGNATURE: _____

THIS IS NOT A PURCHASE ORDER

SPECIFICATIONS: GEOTEXTILES
(Remember to fill in all blanks)

PART 1 PRODUCTS

1.01 **MATERIALS**

- A. Class and type of geotextile bid: _____
- B. Geotextiles shall be manufactured from synthetic long chain continuous polymeric filaments and yarns composed of at least 95 percent by weight of polypropylene, polyethylene, polyester, polyamide, or polyvinylidene-chloride. Fibers shall contain stabilizers and/or inhibitors to enhance its resistance to ultraviolet light. The geotextile shall be formed into a stable network of filaments or yarns that retain dimensional stability relative to each other, including selvages. The geotextile shall be free from any chemical treatment or coating that might significantly reduce its permeability and shall have no flaws or defects that significantly alter its physical properties.
- C. Thread used for factory or field sewing shall be of a contrasting color to the fabric and made of polypropylene, polyester, or polyamide thread. The sewing thread shall have a minimum of breaking strength of 28 pounds when tested in accordance to ASTM D 2256. The thread shall be as resistant to ultraviolet light as the geotextile being sewn.
- D. Non-woven geotextile shall conform to the physical properties listed in Table 2. Non-woven geotextile shall be manufactured from randomly oriented fibers that have been bonded together by needle-punching.

SHIPPING AND STORAGE

- A. Geotextiles labeling, shipping, and storage shall follow ASTM D 4873. Product labels shall clearly show the manufacturer or supplier name, style name, and roll number. Each geotextile roll shall be wrapped with a material that will protect the geotextile, including the ends of the roll, from damage due to shipment, water, sunlight and contaminants. The protective wrapping shall be maintained during periods of shipment and storage.
- B. Prior to use, the geotextile shall be inspected and approved by the Technician, then stored in a clean, dry place, out of direct sunlight, not subject to temperature extremes, and with the manufacturer's protective cover in place.

SPECIFICATIONS: GEOTEXTILES

Table 2. Requirements for Non-woven Geotextiles by Use

Property	Test Method	Slop Protection Unprotected (Class I)	Slop Protection (Class II)	Surface Drainage (Class III)	Road Stabilization (Class IV)
Tensile Strength (lbs) ¹	ASTM D 4632 Grab Test	≥ 180	≥ 120	≥ 90	≥ 180
Elongation at Failure (percent) ¹	ASTM D 4632 Grab Test	≥ 50	≥ 50	≥ 50	≥ 50
Puncture (lbs) ¹	ASTM D 6241	≥ 350	≥ 250	≥ 200	≥ 200
Ultra-Violet Light (percent residual tensile strength)	ASTM D 4355 150 hours exposure	70 min.	70 min.	70 min.	70 min.
Apparent Opening Size (AOS)	ASTM D 4751	As specified or max.#40 ²	As specified or max.#40 ²	As specified or max.#40 ²	As specified or max.#40 ²
Permittivity (1/seconds) (gal/sq. ft./min.)	ASTM D 4491	0.70 min. 52.5 min.	0.70 min. 52.5 min.	0.70 min. 52.5 min.	0.10 min. 7.5 min.

¹ Minimum average roll values (MARV); calculated as the mean minus two standard deviations, yielding a 95 percent confidence level that the table value will be equaled or exceeded.

² U.S. Standard Sieve Size.

³ Heat-bonded or resin-bonded geotextile may be used.

SPECIFICATIONS: WIRE MESH GABIONS AND MATTRESSES

PART 2 PRODUCTS

2.01 TYPES

- A. Gabions shall consist of rectangular wire mesh formed containers. Gabions will conform to one of the following mesh types:
 - a. Woven Mesh – Non-raveling double twisted hexagonal wire mesh, consisting of two wires twisted together in two 180 degree turns.
 - b. Welded Mesh – Welded-wire mesh with a uniform square or rectangular pattern and a resistance weld at each intersection. The welded wire connections shall conform with the requirements of ASTM A 185, including wire smaller than W 1.2 (0.124 in.); except that the welded connections shall have a minimum average shear strength of 70% and a minimum shear strength of 60% of the minimum ultimate tensile strength of the wire.
- B. Gabions shall be furnished as baskets or mattresses, as shown in the construction plans. Baskets have a height of 12 inches or greater. Mattresses have a thickness of 12 inches or less.
- C. Baskets and mattresses shall be fabricated within a dimension tolerance of plus or minus 5 percent, except the mattress height shall be within 10 percent.

1.02 BASKETS AND WIRE

- A. Gabions shall be fabricated, assembled and installed in accordance with the nominal wire sizes and dimensions found in Tables 1 and 2.
- B. Wire for fabrication and assembly shall be hot-dipped galvanized. The wire shall have a minimum tensile strength of 60,000 psi. galvanized steel wire shall conform to ASTM A 641, Calss 3, Soft Temper.
- C. Spiral binders are the standard fastener for welded-mesh gabion baskets and mattresses, and shall be formed from wire meeting the same quality and coating thickness requirements as specified for the gabion baskets and mattresses. Alternate fasteners for use with wire-mesh gabions, such as ring fasteners, shall be formed from wire meeting the same quality and coating thickness requirements as specified for the gabions.
- D. Gabion baskets or mattresses with PVC coating shall be interconnected using ring fasteners made of stainless steel or PVC-coated spiral fasteners. All fasteners shall meet the closing requirements of the gabion manufacturer.

SPECIFICATIONS: WIRE MESH GABIONS AND MATTRESSES

Table 1*

Gabion Baskets
Height 12, 18, or 36 inches; Length as Specified

Type of Wire	Mesh Size Inches	Wire Diameter Inches	PVC Coating Inches	Total Diameter Inches	Galvanized Coating Oz./SF
Woven Mesh	3 ¼ x 4 ½	0.118	None	0.118	0.80
	3 ½ x 4 ½	0.105	0.02	0.145	0.80
Selvage		0.153	None	0.153	0.80
		0.132	0.02	0.172	0.80
Lacing and Internal Connecting Wire		0.086	0.02	0.126	0.70
Welded Mesh	3 x 3	0.118	None	0.118	0.80
	3 x 3	0.105	0.02	0.145	0.80
Spiral Binder		0.105	0.02	0.145	0.80

SPECIFICATIONS: WIRE MESH GABIONS AND MATTRESSES

Table 2*
 Gabion Mattresses
 Height 6, 9, or 12 Inches; Length as Specified

Type of Wire	Mesh Size Inches	Wire Diameter Inches	PVC Coating Inches	Total Diameter Inches	Galvanized Coating OZ./SF
Woven Mesh	2 ½ x 3 ¼	0.086	0.02	0.126	0.70
Selvage		0.105	0.02	0.145	0.80
Lacing and Internal Connecting Wire		0.086	0.02	0.126	0.70
Welded Mesh	1 ½ x 3	0.080	0.02	0.120	0.70
Spiral Binder		0.105	0.02	0.145	0.80

*NOTE: The wire size and PVC coating thickness shown are nominal sizes.
 The wire diameter includes the galvanized coating thickness.

- E. The galvanized wire shall be coated by fusion bonded epoxy; or fusion bonded, extruded, or extruded and bonded PVC material. The wire coating shall be colored gray; and the initial properties of the PVC coating shall meet the following requirements.
- Specific Gravity: In the range of 1.25 to 1.35, ASTM D 792.
 - Abrasion Resistance: The percentage of weight loss shall be less than 12%, when tested according to ASTM D 1242, Method B at 200 cycles, CSI-A Abrader Tape, 80 Grit.
 - Brittleness Temperature: Not higher than 15° F, ASTM D 746.
 - Tensile Strength: Extruded coating (not less than 2,980 psi., ASTM D 412). Fusion Bonded Coating (not less than 2,275 psi, ASTM D 638).
 - Modulus of Elasticity: Extruded Coating (not less than 2,700 psi at 100 percent strain, ASTM D 412). Fusion Bonded Coating (not less than 2,050 psi at 100 percent strain, ASTM D 638).
 - Ultraviolet Light Exposure: A test period of not less than 3,000 hours, using apparatus Type E at 63° C, ASTM G 23.
 - Salt Spray Test: A test period of not less than 3,000 hours, ASTM B 117.

SUBMISSION REQUIREMENTS

- The City reserves the right to establish any and all elements or terms of this procurement process. All bids submitted shall be binding upon the bidder's team if accepted by the City.
- **BIDS DELIVERED VERBALLY OR BY ELECTRONIC MEANS, SUCH AS FACSIMILE AND EMAIL, ARE NOT ALLOWED.**
- Except for otherwise provided in this bid, the City of Bainbridge reserves the right to retain all bid materials regardless of which bidder is selected. All bids and accompanying documents become the property of the City of Bainbridge.

REJECTION

- The City reserves the right to reject any and all bids, and to waive informalities in bids received, to accept or reject any and or all of the items bid, and to award the contract in whole or in part and/or negotiate any or all items with individual Bidders if it is deemed in the City's best interest. Moreover, the City reserves the right to make no selection if bids are deemed to be outside of the City's fiscal constraint or not in the best interest of this City.

AWARD

- The City reserves the right to award a contract, based on initial offers received from Bidders, without discussion and without conducting further negotiations. Under such circumstances, the acceptance of a proposal by the City shall be deemed to be an acceptance of an offer such that acceptance will be binding upon both parties. A proposing offer should therefore be based on the most favorable terms available from a price, business requirements and technical standpoint. Contractual commitments are contingent upon the availability of funds, as evidenced by award of contract. Once awarded, the contract will be the final expression of the agreement between the parties and may not be altered, changed, or amended except by mutual agreement, in writing.

EXCEPTIONS TO THE BID

- All requested information in the Bid must be supplied with the bid; any exceptions shall be clearly identified, referencing page number and category of bid. The written explanation shall include the scope of the exceptions, the ramifications for the City, and the description of the advantages or disadvantages to the City as a result of such exceptions, the City, at its sole discretion, may reject any exceptions or specifications within the bid.

SILENCE OF SPECIFICATIONS

- The apparent silence of these specifications as to any specific detail or omission of a detailed description concerning any point shall be regarded as meaning that only the best commercial practice is to prevail, and that only workmanship of first quality is to be used. All interpretations of these specifications shall be made on this basis.