

**SECTION 905 -- PROPOSAL (CONTINUED)**

I (We) further propose to execute the attached contract agreement (Section 902) as soon as the work is awarded to me (us), and to begin and complete the work within the time limit(s) provided for in the Specifications and Advertisement. I (We) also propose to execute the attached contract bond (Section 903) in an amount not less than one hundred (100) percent of the total of my (our) part, but also to guarantee the excellence of both workmanship and materials until the work is finally accepted.

I (We) enclose a certified check, cashier's check or bid bond for **five percent (5%) of total bid** and hereby agree that in case of my (our) failure to execute the contract and furnish bond within Ten (10) days after notice of award, the amount of this check (bid bond) will be forfeited to the State of Mississippi as liquidated damages arising out of my (our) failure to execute the contract as proposed. It is understood that in case I am (we are) not awarded the work, the check will be returned as provided in the Specifications.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO. <u>  1  </u>	DATED <u>  1/18/2005  </u>	ADDENDUM NO. _____	DATED _____
ADDENDUM NO. _____	DATED _____	ADDENDUM NO. _____	DATED _____

Number	Description
1	Revised Table of Contents, replaces same; Add S.P. 907-819-1.Revised Plan Sheets No. 2 & 4, replaces same.Revised Proposal Sheets 2-8, replace same sheet; Revised Project Disk Required.

TOTAL ADDENDA   1    
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE \_\_\_\_\_

\_\_\_\_\_  
Contractor

\_\_\_\_\_  
Signature

TITLE \_\_\_\_\_

ADDRESS \_\_\_\_\_

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of \_\_\_\_\_ and the names, titles and business addresses of the executives are as follows:

_____ President	_____ Address
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_____ Secretary	_____ Address
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_____ Treasurer	_____ Address
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The following is my (our) itemized proposal.

BIDDERS MUST OBTAIN ADDENDUM FROM MDOT CONTRACT ADMINISTRATION DIVISION TO BID

**MISSISSIPPI DEPARTMENT OF TRANSPORTATION**

**TABLE OF CONTENTS**

**PROJECT: STP-0009-03(041) / 103049 - Bolivar County**

**READVERTISEMENT NOTICE TO BIDDER NO. 309**

901--Advertisement

904--Notice to Bidders:     Governing Specs. - # 1  
                                  Status of ROW, Util. Adjustments and Underground  
                                  Storage Tanks - # 2, W/Attachments  
                                  Final Cleanup - # 3  
                                  On-the-Job Training Program - # 7  
                                  Disadvantaged Business Enterprises - # 8, W/Supplements  
                                  DBE Participation and Payment- # 10  
                                  Federal Bridge Formula - # 12  
                                  Submission of Form OCR-485 - # 13  
                                  Storm Water Discharge Associated w/Construction Activities  
                                  (≥ 1 and < 5 Acres) - # 14  
                                  Contract Time - # 51  
                                  Speciality Items - # 52  
                                  Placement of Fill Material in Federally Regulated Areas - # 104  
                                  Fiber Reinforce Concrete - # 152  
                                  Errata & Modifications to 2004 Standard Specifications - # 204  
                                  Petroleum Products Base Price - # 303

906:                    Required Federal Contract Provisions -- FHWA-1273, W/Supplement  
907-104-1:            Partnering Process  
907-107-1:            Liability Insurance  
907-213-1:            Agricultural Limestone  
907-711-2:            Synthetic Structural Fiber Reinforcement  
907-715-1:            Agricultural Limestone  
907-819-1:            Gabions  
906-3:                 MDOT On-the-Job Training Program  
906-4:                 MDOT On-the-Job Training Program - Alternate Program

SECTION 905 - PROPOSAL,  
PROPOSAL SHEET NOS. 2-1 THRU 2-9,  
COMBINATION BID PROPOSAL,  
CERTIFICATE OF PERFORMANCE - PRIOR FEDERAL-AID CONTRACTS  
NON-COLLUSION CERTIFICATE,  
SECTION 902 - CONTRACT FORM, AND SECTION 903 - CONTRACT BOND FORM,  
OCR-485,  
PROGRESS SCHEDULE,  
HAUL PERMIT FOR BRIDGES WITH POSTED WEIGHT LIMITS.

(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET  
OF SECTION 905 AS ADDENDA)

# MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-819-1

CODE: (SP)

DATE: 05/25/2004

SUBJECT: Gabions

Section 907-819, Gabions, is hereby added to and becomes a part of the 2004 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as follows.

## SECTION 907-819 -- GABIONS

**907-819.01--Description.** This work shall consist of furnishing and placing stone filled, polyvinylchloride coated gabions in accordance with these specifications and in close conformity with the line, grade, dimensions and details shown on the plans.

**907-819.02--Materials.** All polyvinylchloride coated wire used in the fabrication and installation of gabions shall be soft temper, Class 3 galvanized coating conforming to ASTM Designation: A 641. The gabions shall be fabricated from 3 1/4-inch x 4 1/2-inch nominal-size hexagonal double twist wire mesh. The minimum diameter of wire prior to coating with polyvinylchloride shall meet or exceed the following:

<u>Use</u>	<u>Inch</u>
Mesh Wire	0.106
Selvedge Wire	0.133
Lacing Wire	0.086

All wires shall be polyvinylchloride (PVC) coated to a thickness of 0.015 inch prior to weaving.

The stone used to fill the gabions shall consist of hard, dense, sound rough fractured limestone, sandstone or granite as nearly cubical as practicable. The stone shall conform to the quality requirements of Subsections 703.01 and 703.03 and be from four to eight inches (4" to 8") in diameter.

### **907-819.02.1--Test Requirements for Wire Mesh.**

**Elongation:** The wire mesh shall have sufficient elasticity to permit elongation of the mesh equivalent to 10 percent of the length of the section of the mesh under test.

Load Tests: After first being subjected to the elongation tests, an uncut section of the mesh not less than six feet long and not less than three feet wide shall withstand a load test of 6,000 pounds applied to an area of one square foot located approximately in the center of the section under test. The details of the test are as follows:

An uncut section of mesh six feet long, not less than three feet wide and including all selvedge bindings shall have the ends securely clamped for three feet along the width of the sample. When the width of the section under test exceeds three feet, the clamps shall be placed in the middle portion of the width and the excess width shall be allowed to fall free of each side of the clamped section. The sample shall then be subjected to sufficient tension to cause 10 percent elongation of the sample section between the clamps. After elongation and while clamped as described above (and otherwise unsupported), the section shall be subjected to a load applied to an area of one square foot located approximately in the center of the sample section between the clamps and in a direction perpendicular to the direction of the tension force. The sample shall withstand, without rupture of any wire or opening of any mesh fastening, an actual applied load of 6,000 pounds. The ram head used in the test shall be circular with its edges beveled or rounded to prevent cutting of the wires.

Single Strand Cut: The wire mesh shall be fabricated in such a manner as to be nonravelling. This is defined as the ability to resist pulling apart at any of the twists or connections forming the mesh when a single wire in a section of mesh is cut and the section of mesh then subjected to the load test described above.

**907-819.02.2--Structural Tests and Strength Requirements.** The structural tests shall be conducted in accordance with the State of Colorado Department of Highways, Colorado Procedure CPI-6130 "Method of Conducting Strength Test of Gabion." The table below shows the minimum strength required:

**TABLE FOR MINIMUM STRENGTH**

	Required Minimum Strength in Pounds per Linear Foot P.V.C. Coated
1. Wire Mesh	
a) Pulled Parallel to Wire Twist	3,000
b) Pulled Perpendicular to Wire Twist	1,000
2. Connection of Selvedge Wire to Mesh	2,000
3. Connection of End Panels to Gabion Base	1,500

**907-819.02.3--Resistance of the P.V.C. Coating.** The protective coating must be resistant to air and sea water and meet the following tests:

Immersion of the wire for 20 hours in hydrochloric acid (solution composed of 50% H<sub>2</sub>O and 50% HCL concentration 21 Baume-Test temperature 60°F) or immersion for 60 hours in a saturated solution of salt water at 60°F without noticeable loss of weight due to corrosion of the coating material and without a reduction in the diameter of the wire.

After immersion of a length of the coated wire in a 3.5 percent solution of potassium permanganate ( $KM_nO_4$ ) for a continuous period of 50 hours at an ambient temperature, the maximum penetration between the coating and the core wire from a square cut end shall be 0.472 inches.

The protective coating will not be altered or deformed by temperature ranging between +158°F and -40°F.

**907-819.02.4--Certification.** Each shipment of materials used in manufacturing the gabions shall be accompanied by a certification which states that the material conforms to the requirements of the specifications.

**907-819.03--Construction Requirements.** Standard gabions shall be fabricated in such a manner that the sides, ends, diaphragms,, and lids can be assembled at the construction site into a rectangular basket of the specified size. All gabion dimensions will be allowed a five percent tolerance.

Where the length of the gabion exceeds its width, the gabion shall be divided by diaphragms into cells that are approximately equal to the width of the gabion. The gabion shall be furnished with the necessary diaphragms secured in proper position at the base.

All perimeter edges (mesh edge and selvedge rod wires) of the mesh forming the gabion shall be securely selvedged so that the mesh-selvedge connection has about the same length as the body of the mesh.

After assembled, the individual gabion units are laced to each other and tensioned as per manufacturer's instruction and then filled with clean stone. The lids are then closed and laced to the top edges of the gabions and diaphragms. All assembly, lacing, and connecting shall be double looped on approximately 6-inch centers with lacing wire furnished by the gabion supplier.

**907-819.04--Method of Measure.** Gabions will be measured in cubic yards per plan dimensions when installed in accordance with the plans. When the plan dimensions are changed by the Engineer, as-built dimensions will be used as the basis for determining the theoretical volume.

**907-819.05--Basis of Payment.** Gabions will be paid for at the contract unit price per cubic yard, which price shall be full compensation for all materials, including wire mesh and stone, equipment, tools, labor and incidentals necessary to complete the work.

Payment will be made under:

907-819-A: Gabions

- per cubic yard

SECTION 905

STP-0009-03(041) / 103049

PROPOSAL (Sheet No. 2- 8)

Bolivar County

REF. NO.	PAY ITEM NO.	ADJ. CODE	APPROX. QUANTITY	UNIT	DESCRIPTION	UNIT PRICE		ITEM TOTAL		
						DOLLAR	CENT	DOLLAR	CENT	
<u>DEPENDENT PAY ITEMS</u>										
(450)	618-A				lump sum	Maintenance of Traffic	XXXXXXXXXXXX	XXXX		
							XXXXXXXXXXXX	XXXX		
							XXXXXXXXXXXX	XXXX		
							XXXXXXXXXXXX	XXXX		
(460)	620-A				lump sum	Mobilization	XXXXXXXXXXXX	XXXX		
							XXXXXXXXXXXX	XXXX		
							XXXXXXXXXXXX	XXXX		
							XXXXXXXXXXXX	XXXX		
(470)	699-A				lump sum	Roadway Construction Stakes	XXXXXXXXXXXX	XXXX		
ADDED	01/18/2005						XXXXXXXXXXXX	XXXX		
							XXXXXXXXXXXX	XXXX		
							XXXXXXXXXXXX	XXXX		

SUBTOTAL - DEPENDENT ITEMS.....\$ \_\_\_\_\_