

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

10/19/2021 01:49 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 3644

DATE: October 19, 2021

SUBJECT: Specialty Items

PROJECT: STBG-0009-02(087)/106687301 - SHARKEY

Pursuant to the provisions of Section 108, the following work items are hereby designated as "Specialty Items" for this contract. Bidders are reminded that these items must be subcontracted in order to be considered as specialty items.

CATEGORY: CURBING, SIDEWALKS, GUTTERS

Line No	Pay Item	Description
0270	609-D004	Combination Concrete Curb and Gutter Type 2 Modified

CATEGORY: EROSION CONTROL

Line No	Pay Item	Description
0090	213-C001	Superphosphate
0100	220-A001	Insect Pest Control
0110	223-A001	Mowing
0120	225-A001	Grassing
0130	225-B001	Agricultural Limestone
0140	225-C001	Mulch, Vegetative Mulch
0150	226-A001	Temporary Grassing
0160	234-A001	Temporary Silt Fence
0170	237-A002	Wattles, 20"
0180	246-B002	Rockbags

CATEGORY: PAVEMENT STRIPING AND MARKING

Line No	Pay Item	Description
0460	626-C002	6" Thermoplastic Double Drop Edge Stripe, Continuous White
0470	626-D001	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow
0480	626-E001	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow
0490	626-G004	Thermoplastic Double Drop Detail Stripe, White
0500	626-H002	Thermoplastic Double Drop Legend, White
0510	627-J001	Two-Way Clear Reflective High Performance Raised Markers
0520	627-L001	Two-Way Yellow Reflective High Performance Raised Markers
0610	907-626-Z003	Thermoplastic Legend, White, 6" Equivalent Length, 40-mil. min.

CATEGORY: SURVEY AND STAKING

Line No	Pay Item	Description
0600	699-A001	Roadway Construction Stakes

CATEGORY: TRAFFIC CONTROL - PERMANENT

Line No	Pay Item	Description
0530	630-A001	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness
0540	630-A003	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness
0550	630-A005	Standard Roadside Signs, Sheet Aluminum, 0.1" Thickness
0560	630-C002	Steel U-Section Posts, 2.0 lb/ft
0570	630-C003	Steel U-Section Posts, 3.0 lb/ft
0580	630-K001	Welded & Seamless Steel Pipe Posts, 3 1/2"
0590	630-K003	Welded & Seamless Steel Pipe Posts, 4"

CATEGORY: TRAFFIC CONTROL - TEMPORARY

Line No	Pay Item	Description
0320	619-A1003	Temporary Traffic Stripe, Continuous White, Paint
0330	619-A2003	Temporary Traffic Stripe, Continuous Yellow, Paint
0340	619-A4003	Temporary Traffic Stripe, Skip Yellow, Paint
0350	619-A5002	Temporary Traffic Stripe, Detail, Paint
0360	619-A6004	Temporary Traffic Stripe, Legend, Paint
0370	619-C7001	Two-Way Yellow Reflective High Performance Raised Marker
0380	619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet
0390	619-D2001	Standard Roadside Construction Signs, 10 Square Feet or More
0400	619-D3001	Remove and Reset Signs, All Sizes
0410	619-G4001	Barricades, Type III, Double Faced
0420	619-G4005	Barricades, Type III, Single Faced
0430	619-G5001	Free Standing Plastic Drums
0440	619-G7001	Warning Lights, Type "B"

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-714-3

CODE: (SP)

DATE: 08/31/2021

SUBJECT: Miscellaneous Materials

Section 714, Miscellaneous Materials, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction is hereby amended as follows.

907-714.01--Water.

907-714.01.1--General. Delete the last sentence of the second paragraph in Subsection 714.01.1 on page 794.

907-714.01.2--Water for Use in Concrete. Delete Subsection 714.01.2 on page 794, and substitute the following:

Water from municipal sources is permitted be used as mixing water in concrete, mortar, and grout without Department testing. Water from non-municipal water sources used in mixing of concrete, mortar, and grout which does not meet the requirements in Subsection 714.01.1 shall be tested for conformance as required in AASHTO M157, Table 1 and Table 2.

907-714.01.3--Water for Use in Chemically Stabilized Based. Delete the first sentence of first paragraph in Subsection 714.01.3 on page 794, and substitute the following:

Water used in the construction of bases that contain cement, lime, or other chemical additive shall be as set out in Subsection 714.01.1. Water from municipal sources is permitted to be used without testing for conformance to the requirements below. If water is not from a municipal source, it shall not contain impurities in excess of the following limits:

Delete Subsection 714.01.6 on page 795, and substitute the following.

907-714.01.6--Blank.

907-714.05--Fly Ash.

907-714.05.1--General. Delete the first sentence of the fifth paragraph in Subsection 714.05.1 on page 797.

907-714.13--Geotextiles.

907-714.13.11--Tables. Delete Table 1 in Subsection 714.13.11 on page 813, and substitute the following.

Table 1 - Geotextiles

Type Designation	I ¹ Sediment Control	II ¹ Control	III Drainage	IV Paving	V Separation & Drainage		VI Separation, Stabilization & Reinforcement		VIII High Strength	IX High Strength	Test Method
					Woven	Non-Woven	Woven	Non-Woven			
Grab Strength (lb)	50	90	110	90	200	280	180	450	280	280	ASTM D 4632
Elongation (%)	----	50% max @ 45 lb	20% min	50% min @ break	50% min	50% max	50% min	50% max	50% min	50% min	ASTM D 4632
Seam Strength (lb)	----	----	70	----	180	240	160	400	240	240	ASTM D 4632
Puncture Strength (lb)	----	----	40	----	80	110	75	180	115	115	ASTM D 6241
Trapezoidal Tear (lb)	----	----	40	----	80	100	70	150	100	100	ASTM D 4533
Asphalt Retention (gal/yd ²)	----	----	----	0.2	----	----	----	----	----	----	ASTM D 6140
Permittivity (sec ⁻¹) min	0.05	0.05	0.5	----	0.2	0.2	0.2	0.2	0.2	0.2	ASTM D 4491
AOS Woven (mm) max	0.60	0.60	0.6	----	0.6	0.43	----	0.43	----	----	ASTM D 4751
AOS Non-Woven (mm) max	0.84	0.84	0.43	----	0.43	----	0.43	----	0.43	0.43	----
Tensile Strength after UV (% Retained)	70% @ 500 hr	70% @ 500 hr	50% @ 500 hr	----	50% @ 500 hr	50% @ 500 hr	50% @ 500 hr	50% @ 500 hr	50% @ 500 hr	50% @ 500 hr	ASTM D 4355
Melting Point °(F)	----	----	----	325	----	----	----	----	----	----	ASTM D 276
Minimum Ultimate Tensile Strength ³ (lb/in)	----	----	----	----	----	----	----	----	660	2000	ASTM D 4595

Notes: 1 - All property values, with the exception of apparent opening size (AOS), represent minimum average roll values in the weakest principal direction. Values for AOS represent the maximum average roll values, 2 - Values not identified in this table should meet manufacturer certification for the use and application, 3 - Machine direction

Delete Subsection 714.15 on pages 816 and 817 and substitute the following.

907-714.15--Geogrids.

907-714.15.1--General. A geogrid is defined as a geosynthetic formed by a regular network of connected elements with apertures greater than 0.25 inch to allow interlocking with surrounding soil, rock, and other surrounding materials to function primarily as reinforcement.

Geogrid shall be manufactured from an expanded strain hardened monolithic polymer sheet composed of one or more synthetic polymers and shall be mildew resistant and inert to biological degradation and naturally encountered chemicals, alkalis and acids. The geogrid shall contain stabilizers and/or inhibitors, or a resistance finish or covering to make it resistant to deterioration from direct sunlight, ultraviolet rays, and heat.

Geogrid manufacturers shall participate in and be in compliance with the American Association of State Highway Transportation Officials (AASHTO) National Transportation Product Evaluation Program's (NTPEP) Geosynthetics audit program. Geogrid shall meet the requirements of Table II for the application and type shown on the plans and shall be selected from the Department's Approved Lists.

907-714.15.1.1--Geogrid for Retaining Walls and Reinforced Soil Slopes. Geogrid for retaining walls and reinforced soil slopes shall be creep tested in accordance with AASHTO R69 and meet Long Term Design Load, Minimum Ultimate Tensile Strength, and open area criteria listed in Table II. Manufacturers shall perform at least one long-term creep test for no less than 10,000 hours in accordance to ASTM D 5262 for each polymer or composition of polymers from which the geogrid is produced. The long-term design load that shall be reported for design use, shall be that load at which no more than 10% strain occurs over a 100-year design life of the geogrid, as calculated in accordance with AASHTO R69. Long-term design loads shall be reported unfactored, and the AASHTO strength reduction factors (Durability and Installation, and safety factors) will be considered by the Department's Geotechnical Branch on a site specific design basis.

907-714.15.1.2--Geogrid for Subgrade Stabilization. Geogrid for subgrade stabilization shall meet Minimum Ultimate Tensile Strength and open area criteria listed in Table II.

907-714.15.2--Marking, Shipment, and Storage. Each roll or container of geogrid shall be visibly labeled with the name of the manufacturer, trade name of the product, lot number, and quantity of material. In addition, each roll or container shall be clearly tagged to show the type designation that corresponds to that required by the plans. During shipment and storage the geogrid shall be protected from direct sunlight, and temperatures above 120°F or below 0°F. The geogrid shall either be wrapped and maintained in a heavy duty protective covering or stored in a safe enclosed area to protect from damage during prolonged storage.

907-714.15.3--Manufacturer Certification. The Contractor shall furnish the Engineer three copies of the manufacturer's certified test reports indicating that the geogrid furnished conforms to the requirements of the specifications and is of the same composition as the originally approved

by the Department.

907-714.15.4--Acceptance Sampling and Testing. Final acceptance of each shipment will be based upon results of tests performed by the Department on verification samples submitted from the project, as compared to the manufacturer's certified test reports. The Engineer will select one roll or container at random from each shipment for sampling. As sample extending full width of the randomly selected roll or container and being at least five (5) square yards in area will be obtained and submitted by the Engineer. All material samples shall be provided at no cost to the State.

**TABLE II
GEOGRIDS**

Physical Properties	Type Designation						Test Method
	I	II	III	IV	V	VI	
Long Term Design Load ¹ , pounds per foot, Machine Direction	250	500	750	1500	2500	3500	AASHTO R69, ASTM D5262
Minimum Ultimate Tensile Strength ² , pounds per foot, Machine Direction	500	1000	1500	3000	5000	7000	ASTM D6637
Open Area, percent	70	70	50	50	50	50	Direct Measurement

¹ Minimum design criteria requirement.

² Minimum Average Roll Value (MARV).

ADDENDUM


STATE	PROJECT NO.
MISS	STBG-0009-02(087)

SUMMARY OF QUANTITIES (SHEET 2)

① ESTIMATED QUANTITY TO BE USED AS DIRECTED BY ENGINEER

PAY ITEM NO.	PAY ITEM	UNIT	SHARKEY : 106687-301000	
			Prelim	Final
617-A001	Right-of-Way Marker	EA	11	
618-A001	Maintenance of Traffic	LS	1	
619-A1003	Temporary Traffic Stripe, Continuous White, Paint	LF	4,986	
619-A2003	Temporary Traffic Stripe, Continuous Yellow, Paint	LF	2,253	
619-A4003	Temporary Traffic Stripe, Skip Yellow, Paint	LF	2,100	
619-A5002	Temporary Traffic Stripe, Detail, Paint	LF	2,106	
619-A6004	Temporary Traffic Stripe, Legend, Paint	LF	188	
619-C7001	Two-Way Yellow Reflective High Performance Raised Marker	EA	12	
619-D1001	Standard Roadside Construction Signs, Less than 10 Square Feet	SF	56	
619-D2001	Standard Roadside Construction Signs, 10 Square Feet or More	SF	839	
619-D3001	Remove and Reset Signs, All Sizes	EA	5	
619-G4001	Barricades, Type III, Double Faced	LF	72	
619-G4005	Barricades, Type III, Single Faced	LF	180	
619-G5001	Free Standing Plastic Drums	EA	130	
619-G7001	Warning Lights, Type "B"	EA	6	
620-A001	Mobilization	LS	1	
626-C002	6" Thermoplastic Double Drop Edge Stripe, Continuous White	MI	1	
626-D001	6" Thermoplastic Double Drop Traffic Stripe, Skip Yellow	MI	1	
626-E001	6" Thermoplastic Double Drop Traffic Stripe, Continuous Yellow	MI	1	
626-G004	Thermoplastic Double Drop Detail Stripe, White	LF	2,896	
626-H002	Thermoplastic Double Drop Legend, White	LF	342	
907-626-Z003	Thermoplastic Legend, White, 6" Equivalent Length, 40-mil. min.	LF	1,080	
627-J001	Two-Way Clear Reflective High Performance Raised Markers	EA	162	
627-L001	Two-Way Yellow Reflective High Performance Raised Markers	EA	60	
630-A001	Standard Roadside Signs, Sheet Aluminum, 0.080" Thickness	SF	75	
630-A003	Standard Roadside Signs, Sheet Aluminum, 0.125" Thickness	SF	16	
630-A005	Standard Roadside Signs, Sheet Aluminum, 0.1" Thickness	SF	81	
630-C002	Steel U-Section Posts, 2.0 lb/ft	LF	20	
630-C003	Steel U-Section Posts, 3.0 lb/ft	LF	105	
630-K001	Welded & Seamless Steel Pipe Posts, 3 1/2"	LF	45	

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MISSISSIPPI DEPARTMENT OF TRANSPORTATION		
SUMMARY OF QUANTITIES		
PROJ NO: STBG-0009-02(087)		Working Number
COUNTY: SHARKEY		SQ-2
FILENAME: SQS-106687-301000		Sheet Number
Design Team BRELAND		10
Checked		Date 2/11/2021


Revision	
by	

ADDENDUM

STATE	PROJECT NO.
MISS	STBG-0009-02(087)

PAY ITEM NO.	PAY ITEM	UNIT	SHARKEY : 106687-301000	
			Prelim	Final
630-K003	Welded & Seamless Steel Pipe Posts, 4"	LF	15	
699-A001	Roadway Construction Stakes	LS	1	

SUMMARY OF QUANTITIES (SHEET 3)

MISSISSIPPI DEPARTMENT OF TRANSPORTATION		
SUMMARY OF QUANTITIES		
PROJ NO: STBG-0009-02(087)	Working Number	SQ-3
COUNTY: SHARKEY	Sheet Number	11
FILENAME: SQS-106687-301000	Date	2/1/2021
Design Team	Checked	BRELAND