



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

December 10, 2012

Addendum No. 1

Contract No.: DA00142

TIP No.: N/A

WBS No.: 17BP.1.R.34 & 17BP.1.R.35

Replacement of Bridges #54 & #55 on SR 1511 (Sutton Rd) over Black Walnut Swamp in Bertie County

To Whom It May Concern:

Reference is made to the proposal previously furnished for this project.

The following revision has been made to the proposal:

Page No. ii, "Table of Contents," has been revised to update page numbers. Please void the existing Page No. ii in the proposal and staple revised Page No. ii thereto.

Pages No. 74-75, "Marine Grade Steel Sheet Piles," have been deleted from the proposal. Please void the existing Pages No. 74-75 in the proposal and staple revised Pages No. 74-75 thereto.

Pages No. 89-90, "Bid Form," have been revised to separate the line items for "Bridge Approach Fill – Sub Regional Tier, Removal of Existing Structures, Unclassified Structure Excavation, Bridge Approach Slabs, Construction of Substructure and Construction of Superstructure." Line item "Generic Structure Item (Marine Grade Sheet Piling) has been deleted. Please void the existing Pages No. 89-90 in the proposal and staple revised Pages No. 89-91 thereto.

Page No. 92, "Bridge Location Map," the page number has been revised. Please void the existing Page No. 92 in the proposal and staple revised Page No. 92 thereto.

Page No. 93, "Utility Contacts (Attachment A)," the page number has been revised. Please void the existing Page No. 93 in the proposal and staple revised Pages No. 93-94 thereto.

Sincerely,

A handwritten signature in black ink, appearing to read "W. B. Hobbs".

W. B. Hobbs, PE
Division Project Manager

WBH/ces

Attachment

cc: S. D. Baker, PE
D. W. Edge, III P.E.
J. S. Abel, Jr.
D. H. Stallings

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REVISED 12/10/12

Test the expansion and shrinkage of the grout in accordance with ASTM C1090. The grout shall expand no more than 0.2% and shall exhibit no shrinkage. Furnish a Type 4 material certification showing results of tests conducted to determine the properties listed in the Standard Specifications and to assure the material is non-shrink.

Unless required elsewhere in the contract the compressive strength at 3 days shall be at least 5000 psi. Compressive strength in the laboratory shall be determined in accordance with ASTM C109 except the test mix shall contain only water and the dry manufactured material. Compressive strength in the field will be determined by molding and testing 4" x 8" cylinders in accordance with AASHTO T22. Construction loading and traffic loading shall not be allowed until the 3 day compressive strength is achieved.

When tested in accordance with ASTM C666, Procedure A, the durability factor of the grout shall not be less than 80.

SAMPLING AND PLACEMENT

Place and maintain components in final position until grout placement is complete and accepted. Concrete surfaces to receive grout shall be free of defective concrete, laitance, oil, grease and other foreign matter. Saturate concrete surfaces with clean water and remove excess water prior to placing grout.

Do not place grout if the grout temperature is less than 50°F or more than 90°F or if the air temperature measured at the location of the grouting operation in the shade away from artificial heat is below 45°F.

Provide grout at a rate that permits proper handling, placing and finishing in accordance with the manufacturer's recommendations unless directed otherwise by the Engineer. Use grout free of any lumps and undispersed cement. Agitate grout continuously before placement.

Control grout delivery so the interval between placing batches in the same component does not exceed 20 minutes.

The Engineer will determine the locations to sample grout and the number and type of samples collected for field and laboratory testing. The compressive strength of the grout will be considered the average compressive strength test results of 3 cube or 2 cylinder specimens at 28 days.

BASIS OF PAYMENT

No separate payment will be made for "Grout for Structures". The cost of the material, equipment, labor, placement, and any incidentals necessary to complete the work shall be considered incidental to the structure item requiring grout.

VERTICAL CONCRETE BARRIER RAIL (1-27-10)

Use **Vertical Concrete** Barrier Rail in accordance with the concrete barrier rail provisions of Section 460 of the Standard Specifications. Replace references to "concrete barrier rail" with "vertical concrete barrier rail." The work covered in this section shall be considered incidental to the contract line item "Construction of Superstructure."

~~MARINE GRADE STEEL SHEET PILES~~

~~Complete all work in accordance with the contract plans and Section 452 of the Standard Specifications except measurement and payment for the marine grade steel sheet piles will be as described below.~~

REVISED 12/10/12

Marine grade sheet piles will be measured and paid as the actual number of square feet of sheet piles completed and accepted. In determining this quantity, the sheet pile length used in the computation is the sheet pile wall length shown on the plans. The sheet pile height is measured as the difference between the top elevation as shown on the plans and the bottom of the steel sheet piles.

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Payment will be made under:

Pay Item	Pay Unit
Generic Structure Item (Marine Grade Steel Sheet Piles)	Square Foot

ERRATA

(1-17-12) (Rev. 9-18-12)

Z-4

Revise the 2012 *Standard Specifications* as follows:

Division 2

Page 2-7, line 31, Article 215-2 Construction Methods, replace “Article 107-26” with “Article 107-25”.

Page 2-17, Article 226-3, Measurement and Payment, line 2, delete “pipe culverts.”

Page 2-20, Subarticle 230-4(B), Contractor Furnished Sources, change references as follows: Line 1, replace “(4) Buffer Zone” with “(c) Buffer Zone”; **Line 12**, replace “(5) Evaluation for Potential Wetlands and Endangered Species” with “(d) Evaluation for Potential Wetlands and Endangered Species”; and **Line 33**, replace “(6) Approval” with “(4) Approval”.

Division 4

Page 4-77, line 27, Subarticle 452-3(C) Concrete Coping, replace “sheet pile” with “reinforcement”.

Division 6

Page 6-7, line 31, Article 609-3 Field Verification of Mixture and Job Mix Formula Adjustments, replace “30” with “45”.

Page 6-10, line 42, Subarticle 609-6(C)(2), replace “Subarticle 609-6(E)” with “Subarticle 609-6(D)”.

Page 6-11, Table 609-1 Control Limits, replace “Max. Spec. Limit” for the Target Source of $P_{0.075}/P_{be}$ Ratio with “1.0”.

Page 6-40, Article 650-2 Materials, replace “Subarticle 1012-1(F)” with “Subarticle 1012-1(E)”.

Division 10

Page 10-74, Table 1056-1 Geotextile Requirements, replace “50%” for the UV Stability (Retained Strength) of Type 5 geotextiles with “70%”.

Division 12

Page 12-7, Table 1205-3, add “FOR THERMOPLASTIC” to the end of the title.

Page 12-8, Subarticle 1205-5(B), line 13, replace “Table 1205-2” with “Table 1205-4”.

Page 12-8, Table 1205-4 and 1205-5, replace “THERMOPLASTIC” in the title of these tables with “POLYUREA”.

Page 12-9, Subarticle 1205-6(B), line 21, replace “Table 1205-4” with “Table 1205-6”.

Page 12-11, Subarticle 1205-8(C), line 25, replace “Table 1205-5” with “Table 1205-7”.

Division 15

Page 15-6, Subarticle 1510-3(B), after line 21, replace the allowable leakage formula with the following:

$$W = LD\sqrt{P} \div 148,000$$

Page 15-6, Subarticle 1510-3(B), line 32, delete “may be performed concurrently or” and replace with “shall be performed”.

Page 15-17, Subarticle 1540-3(E), line 27, delete “Type 1”.

**North Carolina Department of Transportation
BID FORM**

WBS Number: 17BP.1.R.34 & 17BP.1.R.35

County: Bertie

Description: Replacement of Bridges #54 & #55 on SR 1511 Over Black Walnut Swamp

Line No.	Item No.	Sect. No.	DESCRIPTION	QUANTIT Y	UNIT	UNIT PRICE	AMOUNT BID
1	0000100000-N	800	Mobilization	Lump Sum	LS	Lump Sum	
2	0030000000-N	SP	Bridge Approach Fill - Sub Regional Tier, (12+17.00)	Lump Sum	LS	Lump Sum	
3	0030000000-N	SP	Bridge Approach Fill - Sub Regional Tier, (13+62.50)	Lump Sum	LS	Lump Sum	
4	0050000000-E	226	Supplementary Clearing & Grubbing	2.0	ACR		
5	0248000000-N	SP	Generic Grading Item (Excavation And Embankment)	Lump Sum	LS	Lump Sum	
6	0057000000-E	226	Undercut Excavation	200	CY		
7	0195000000-E	265	Select Granular Material	200	CY		
8	0196000000-E	270	Geotextile for Soil Stabilization	200	SY		
9	0318000000-E	300	Foundation Conditioning Material, Minor Structures	10	TON		
10	0320000000-E	300	Foundation Conditioning Geotextile	20	SY		
11	0335200000-E	305	15" Drainage Pipe	44	LF		
12	1099700000-E	505	Class IV Subgrade Stabilization	200	TON		
13	1308000000-E	607	0" to 2.5" Milling	153	SY		
14	1489000000-E	610	Asphalt Concrete Base Course, Type B25.0B	190	TON		
15	1525000000-E	610	Asphalt Concrete Surface Course, Type SF9.5A	220	TON		
16	1575000000-E	620	Asphalt Binder for Plant Mix	23	TON		
17	2022000000-E	815	Subdrain Excavation	46	CY		
18	2026000000-E	815	Geotextile for Subsurface Drains	200	SY		
19	2030000000-E	815	Subdrain Coarse Aggregate	34	CY		
20	2044000000-E	815	6" Perforated Subdrain Pipe	200	LF		
21	2070000000-N	815	Subdrain Pipe Outlet	2	EA		
22	2077000000-E	815	6" Outlet Pipe	12	LF		
23	2286000000-N	840	Masonry Drainage Structures	2	EA		
24	2367000000-N	840	Frame with Two Grates, Std 840.29	2	EA		
25	3030000000-E	862	Steel BM Guardrail	126	LF		
26	3150000000-N	862	Additional Guardrail Posts	10	EA		
27	3165000000-N	SP	Guardrail Anchor Units, Type 350 (TL-2)	4	EA		
28	3215000000-N	862	Guardrail Anchor Units, Type III	8	EA		
29	3649000000-E	876	Rip Rap, Class B	2	TON		
30	3656000000-E	876	Geotextile for Drainage	10	SY		
31	4399000000-N	SP	Temporary Traffic Control	Lump Sum	LS	Lump Sum	
32	4810000000-E	1205	Paint Pavement Marking Lines (4")	3,000	LF		
33	6000000000-E	1605	Temporary Silt Fence	1,000	LF		
34	6006000000-E	1610	Stone for Erosion Control, Class A	150	TON		
35	6012000000-E	1610	Sediment Control Stone	70	TON		
36	6015000000-E	1615	Temporary Mulching	0.6	ACR		

BID FORM CONT.

Line No.	Item No.	Sect. No.	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
37	6018000000-E	1620	Seed For Temporary Seeding	300	LB		
38	6021000000-E	1620	Fertilizer For Temporary Seeding	1.0	TON		
39	6024000000-E	1622	Temporary Slope Drains	400	LF		
40	6029000000-E	SP	Safety Fence	600	LF		
41	6030000000-E	1630	Silt Excavation	20	CY		
42	6036000000-E	1631	Matting for Erosion Control	2,352	SY		
43	6042000000-E	1632	1/4" Hardware Cloth	350	LF		
44	6048000000-E	SP	Floating Turbidity Curtain	250	SY		
45	6071010000-E	SP	Wattle	60	LF		
46	6071020000-E	SP	Polyacrylamide (PAM)	10	LB		
47	6084000000-E	1660	Seeding & Mulching	1.0	ACR		
48	6090000000-E	1661	Seed for Repair Seeding	100	LB		
49	6093000000-E	1661	Fertilizer for Repair Seeding	0.5	TON		
50	6096000000-E	1662	Seed for Supplemental Seeding	100	LB		
51	6108000000-E	1665	Fertilizer Topdressing	0.50	TON		
52	6114500000-N	1667	Specialized Hand Mowing	20	MHR		
53	6117000000-N	SP	Response For Erosion Control	18	EA		
54	8042000000-N	402	Removal Of Existing Structures at (12+17.00)	Lump Sum	LS	Lump Sum	
55	8042000000-N	402	Removal Of Existing Structures at (13+62.50)	Lump Sum	LS	Lump Sum	
56	8112730000-N	450	PDA Testing	2	EA		
57	8121000000-N	412	Unclassified Structure Excavation at (12+17.00)	Lump Sum	LS	Lump Sum	
58	8121000000-N	412	Unclassified Structure Excavation at (13+62.50)	Lump Sum	LS	Lump Sum	
59	8210000000-N	422	Bridge Approach Slabs, (12+17.00)	Lump Sum	LS	Lump Sum	
60	8210000000-N	422	Bridge Approach Slabs, (13+62.50)	Lump Sum	LS	Lump Sum	
61	8364000000-E	450	HP 12 X 53 Steel Piles	965	LF		
62	8365000000-E	450	HP 12 X 53 Galvanized Steel Piles	400	LF		
63	8384000000-E	450	HP 14 X 73 Steel Piles	266	LF		
64	8384200000-E	450	HP 14 X 73 Galvanized Steel Piles	175	LF		
65	8391000000-N	450	Steel Pile Points	27	EA		
66	8393000000-N	450	Pile Redrives	10	EA		
67	8608000000-E	876	Rip Rap Class II (2'-0" Thick)	450	TON		
68	8622000000-E	876	Filter Fabric for Drainage	487	SY		
69	8765000000-N	SP	Construction Of Substructure at (12+17.00)	Lump Sum	LS	Lump Sum	
70	8765000000-N	SP	Construction Of Substructure at (13+62.50)	Lump Sum	LS	Lump Sum	
71	8766000000-N	SP	Construction Of Superstructure at (12+17.00)	Lump Sum	LS	Lump Sum	
72	8766000000-N	SP	Construction Of Superstructure at (13+62.50)	Lump Sum	LS	Lump Sum	

Unit Prices must be limited to TWO decimal places

FOR BID TO BE CONSIDERED RESPONSIVE, ANY ADDENDA ISSUED MUST BE ACKNOWLEDGED. PLEASE ACKNOWLEDGE RECEIPT OF ADDENDA BY WRITING IN ADDENDUM NUMBER AND DATING BELOW.

Addendum No. _____ Initial & Date: _____ Addendum No. _____ Initial & Date: _____

Addendum No. _____ Initial & Date: _____ Addendum No. _____ Initial & Date: _____

TOTAL BID FOR PROJECT: _____

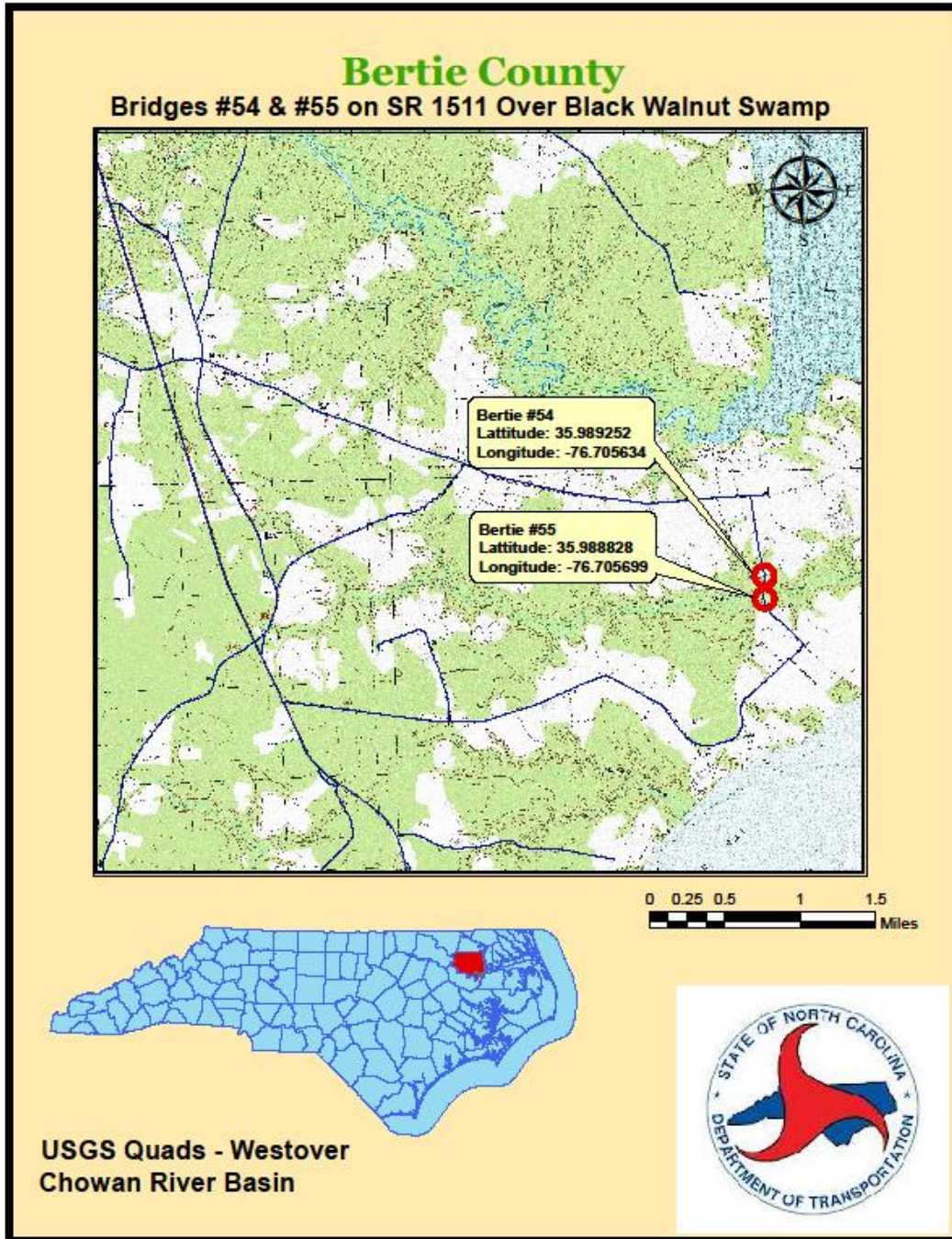
THIS SECTION TO BE COMPLETED BY N. C. DEPARTMENT OF TRANSPORTATION

This bid has been reviewed in accordance with Article 103-1 of the Standard Specifications for Roads and Structures 2012.

Reviewed by: _____
DATE

Accepted by NCDOT: _____
DATE

BRIDGE LOCATION MAP



UTILITY CONTACTS (ATTACHMENT A)

UTILITY CONTACTS

Bertie County Water Department

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