STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY
GOVERNOR

October 14, 2015

NICHOLAS J. TENNYSON
SECRETARY

WBS No: 46439.3.1
TIP No: B-5935
County: Anson
Description: Remove and Replace Bridge #201 over Big Branch Creek on SR 1600 (Rocky Mount Church Rd.)

Addendum No. 1
October 21, 2015 Letting

To: Prospective Bidders

Please note the following revisions to the proposal for the above referenced project.

- The bid sheet will be revised to include line items for *Impervious Dike* and *36" Temporary Pipe.*
- A provision will be added to revise the special provision for Geosynthetic Reinforced Soil Walls. This revision will make the cost of the backfill material behind the reinforced zone incidental to the other pay items in the contract.
- A provision will be added instructing the contractor to salvage the I-beams from the existing structure.
- Plan sheet W-1, of the structure plans, will be revised to limit the surcharge loading on the reinforcement of the GRS wall to 250 lbs./sf

The revised bid sheets and all added special provisions are included with this letter.

Please insert this letter into your bid package as well as fill out the revised bid sheets and sign the addendum acknowledgement form on page 182 of the proposal. If you are submitting an electronic bid, you must download the EBS addendum file (DJ00166.001) which contains the revised bid sheet. If you have any questions, please contact Mr. Garland Haywood at (704) 983-4400.

Sincerely,

DocuSigned by:
5169D778708C4B7...

Terry Burleson
Proposals Engineer

cc: Ritchie Hearne, PE, Division 10 Project Manager
Garland Haywood, PE, Division Bridge Manager

716 West Main Street, Albemarle, NC 28001 • (704) 983-4400 • Fax (704) 982-3146

IMPERVIOUS DIKE

Description

This work consists of furnishing, installing, maintaining, and removing an *Impervious Dike* for the purpose of diverting normal stream flow around the construction site. The Contractor shall construct an impervious dike in such a manner approved by the Engineer. The impervious dike shall not permit seepage of water into the construction site or contribute to siltation of the stream. The impervious dike shall be constructed of an acceptable material in the locations noted on the plans or as directed. All bypass pumping is incidental to the other items in this contract.

Materials

Acceptable materials shall include but not be limited to sheet piles, sandbags, and/or the placement of an acceptable size stone lined with polypropylene or other impervious geotextile. Earth material shall not be used to construct an impervious dike when it is in direct contact with the stream unless vegetation can be established before contact with the stream takes place.

Measurement and Payment

Impervious Dike will be measured and paid as the actual number of linear feet of impervious dike(s) constructed, measured in place from end to end of each separate installation that has been completed and accepted. Such price and payment will be full compensation for all work including but not limited to furnishing materials, construction, maintenance, and removal of the impervious dike.

Payment will be made under:

Pay Item	**Pay Unit**
Impervious Dike	Linear Foot

TEMPORARY PIPE FOR CONSTRUCTION

Description

This work consists of furnishing, installing, maintaining and removing any and all temporary pipe used on this project in conjunction with the culvert construction.

Construction Methods

The Contractor shall install temporary pipe in locations shown on the plans in such a manner approved by the Engineer. The temporary pipe shall provide a passageway for the stream through the work-site. The minimum size requirements will be as stated on the erosion control plans.

Measurement and Payment

36" Temporary Pipe will be measured and paid for at the contract unit price per linear foot of temporary pipe approved by the Engineer and measured in place from end to end. Such price and payment will be full compensation for all work covered by this section including but not limited to furnishing all materials required for installation, construction, maintenance, and removal of temporary pipe.

Payment will be made under:

Pay Item	**Pay Unit**
36" Temporary Pipe	Linear Foot

GEOSYNTHETIC REINFORCED SOIL WALLS

Revise the Contract Proposal as follows:

Page 145, Section 5.0, Measurement and Payment, delete the fourth paragraph and replace with the following:

Where it is necessary to provide backfill material behind the reinforced zone from sources other than excavated areas or borrow sources used in connection with other work in the contract, the contractor will be required to provide acceptable backfill material which is incidental to lump sum grading and Section 226 "Comprehensive Grading". No separate payment will be made for backfill material needed to complete the work as shown on the plans.

REMOVAL OF EXISTING STRUCTURE AT STA. 12+54.00 -L-

The existing structure shall be removed in accordance with the Standard Specifications except as noted below:

Upon removal, all I- beams shall be salvaged from the structure and remain as the property of the North Carolina Department of Transportation. The Contractor shall contact Mr. Brett Hildreth at (704) 694-3067 so that Mr. Hildreth can arrange for the I-beams to be picked up by Bridge Maintenance Unit.

All salvaged material shall be removed carefully without damage.

No separate measurement will be made for this work and the entire cost of this work shall be included in the lump sum price bid for " Removal of Existing Structure at Station 12+54.00-L-''

Payment will be made under:

Removal of Existing Structure at Station 12+54.00 –L-……...Lump Sum

CONTRACT ITEMS

Work Order No. WBS# 46439.3.1

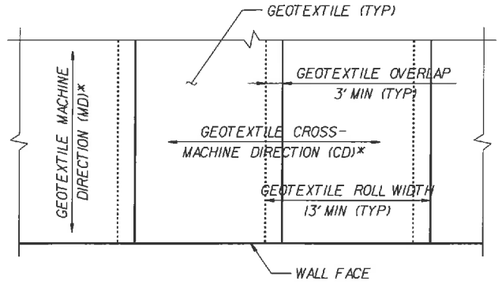
10/21/2015 Remove and Replace Bridge #201 Over Big Branch On SR 1600 (Rocky Mount Church Road)

County Anson

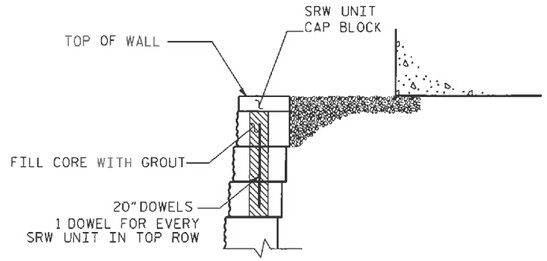
LINE NO.	MASTER ITEM NO.	SEC. NO.	ITEM DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	0000100000-N	800	MOBILIZATION	1	LS		
2	0000400000-N	801	CONSTRUCTION SURVEYING	1	LS		
3	0008000000-E	200	SUPPLEMENTARY CLEARING & GRUB-BING	1	ACR		
4	0057000000-E	226	UNDERCUT EXCAVATION	50	CY		
5	0063000000-N	SP	GRADING	1	LS		
6	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	10	TON		
7	0320000000-E	300	FOUNDATION CONDITIONING GEO-TEXTILE	20	SY		
8	0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	41	LF		
9	1121000000-E	520	AGGREGATE BASE COURSE	37	TON		
10	1220000000-E	545	INCIDENTAL STONE BASE	50	TON		
11	1330000000-E	607	INCIDENTAL MILLING	90	SY		
12	1489000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0B	90	TON		
13	1498000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	100	TON		
14	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	70	TON		
15	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	13	TON		
16	2000000000-N	806	RIGHT OF WAY MARKERS	8	EA		
17	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	2	EA		
18	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	0.50	LF		
19	2355000000-N	840	FRAME WITH GRATE, STD 840.29	2	EA		
20	2556000000-E	846	SHOULDER BERM GUTTER	42	LF		
21	3030000000-E	862	STEEL BM GUARDRAIL	43.75	LF		
22	3045000000-E	862	STEEL BM GUARDRAIL, SHOP CURVED	25.0	LF		
23	3195000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE AT-1	1	EA		
24	3215000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE III	4	EA		
25	3270000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE 350	3	EA		
26	3649000000-E	876	RIP RAP, CLASS B	4	TON		
27	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	410	SY		
28	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	249	SF		
29	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	58	SF		
30	4445000000-E	1145	BARRICADES (TYPE III)	48	LF		
31	6000000000-E	1605	TEMPORARY SILT FENCE	710	LF		
32	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	60	TON		
33	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	45	TON		
34	6012000000-E	1610	SEDIMENT CONTROL STONE	55	TON		
35	6015000000-E	1615	TEMPORARY MULCHING	1.00	ACR		

36	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	100	LB		
37	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	0.50	TON		
38	6024000000-E	1622	TEMPORARY SLOPE DRAINS	200	LF		
39	6029000000-E	SP	SAFETY FENCE	800	LF		
40	6030000000-E	1630	SILT EXCAVATION	40	CY		
41	6036000000-E	1631	MATTING FOR EROSION CONTROL	290	SY		
42	6037000000-E	SP	COIR FIBER MAT	100	SY		
43	6042000000-E	1632	1/4" HARDWARE CLOTH	45	LF		
44	6048000000-E	SP	FLOATING TURBIDITY CURTAIN	35	SY		
45	6069000000-E	1638	STILLING BASINS	100	CY		
46	6070000000-N	1639	SPECIAL STILLING BASINS	4	EA		
47	6071010000-E	SP	WATTLE	90	LF		
48	6071020000-E	SP	POLYACRYLAMIDE (PAM)	10	LB		
49	6084000000-E	1660	SEEDING & MULCHING	3.00	ACR		
50	6087000000-E	1660	MOWING	0.50	ACR		
51	6090000000-E	1661	SEED FOR REPAIR SEEDING	50	LB		
52	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25	TON		
53	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	50	LB		
54	6108000000-E	1665	FERTILIZER TOPDRESSING	0.75	TON		
55	6114500000-N	1667	SPECIALIZED HAND MOWING	10	MHR		
56	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	7	EA		
57	6123000000-E	1670	REFORESTATION	1	ACR		
70	6045000000-E	SP	36” TEMPORARY PIPE	120	LF		
71	6111000000-E	SP	IMPERVIOUS DIKE	20	LF		
			BRIDGE ITEMS				
58	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION 12+54.00 -L-	1	LS		
59	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION 12+54.00 -L-	1	LS		
60	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	18.6	CY		
61	8210000000-N	422	BRIDGE APPROACH SLABS, STATION 12+54.00	1	LS		
62	8217000000-E	425	REINFORCING STEEL (BRIDGE)	3750	LB		
63	8505000000-E	460	VERTICAL CONCRETE BARRIER RAIL	120.0	LF		
64	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	240	TON		
65	8657000000-N	430	ELASTOMERIC BEARINGS	1.0	LS		
66	8763000000-E	430	3'-0" X 2'-0" PRESTRESSED CONC CORED SLABS	600	LF		
67	8847000000-E	SP	GENERIC RETAINING WALL ITEM - GRS RETAINING WALL NO. 1 & 2	1080	SF		
68	8881000000-E	SP	GENERIC STRUCTURE ITEM - REINFORCED SOIL FOUNDATION	185	CY		
69	8897000000-N	SP	GENERIC STRUCTURE ITEM - BRIDGE APPROACH FILL FOR GRS ABUTMENT	2	EA		
			Total Bid for Project		**$**		

CONTRACTOR			
ADDRESS			
			CORPORATE SEAL
Federal ID No.			
Contr. License No.			
Telephone No.			
Vendor No.			
Authorized Agent		**Title**	
Signature		**Date**	
Witness		**Title**	
Signature		**Date**	



GEOTEXTILE PLACEMENT



TOP OF GRS WALL DETAILS

GEOTECHNICAL ENGINEER

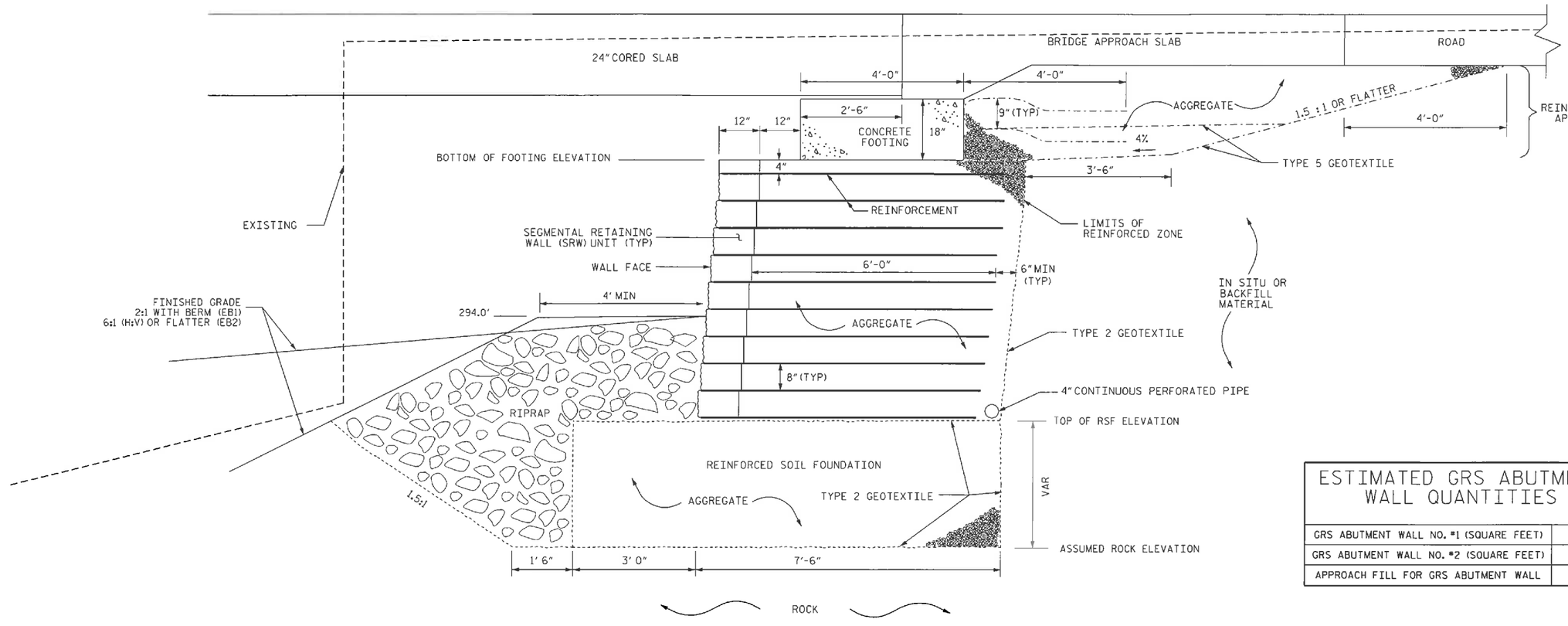
NORTH CAROLINA PROFESSIONAL SEAL 028669 ENGINEER RICHARD SCOTT WEBB

DocuSigned by: Scott Webb 10/14/2015

SIGNATURE DATE

ENGINEER

SIGNATURE DATE



GRS ABUTMENT WALL WITH SRW UNITS - TYPICAL SECTION

ESTIMATED GRS ABUTMENT WALL QUANTITIES	
GRS ABUTMENT WALL NO. #1 (SQUARE FEET)	540
GRS ABUTMENT WALL NO. #2 (SQUARE FEET)	540
APPROACH FILL FOR GRS ABUTMENT WALL	2

NOTES:

FOR GEOSYNTHETIC REINFORCED SOIL (GRS) RETAINING WALLS, SEE GEOSYNTHETIC REINFORCED SOIL WALLS PROVISION.

DO NOT PLACE REINFORCED SOIL FOUNDATION UNTIL EXCAVATION DIMENSIONS AND FOUNDATION MATERIAL ARE APPROVED.

"TEMPORARY SHORING" MAY BE REQUIRED IN ACCORDANCE WITH THE TEMPORARY SHORING PROVISION. SEE ROADWAY, STRUCTURE or TRAFFIC CONTROL PLANS.

USE STRATA SG 700, SYNTEEN SF 110, OR MIRAGRID 10XT FOR GEOGRID REINFORCEMENT. USE 100% COVERAGE.

SURCHARGE LOADS ON THE REINFORCEMENT MUST BE LIMITED TO 250 PSF.

PREPARED BY: RSW	DATE: 2/12/2015
REVIEWED BY: SAH	DATE: 2/12/2015

PROJECT NO.: B-5935

ANSON COUNTY

STATION: 12+54 -L-

SHEET 1 OF 2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

GRS ABUTMENT WALL

REVISIONS						SHEET NO.
NO.	BY	DATE	NO.	BY	DATE	
1			3			W-1
2			4			