

NICHOLAS J. TENNYSON

Secretary

July 20, 2016

SUBJECT: PRE-BID MEETING MINUTES/ADDENDUM 1 FOR DE00161 – B-5940,

46485.3.1, Rehabilitate Bridges #84 and #91 on Glenwood Ave. (US 70) over

Crabtree Creek in Wake County

#### MEMORANDUM TO PROSPECTIVE BIDDERS AND MEETING ATTENDEES

A **mandatory** Pre-Bid Conference was held at 2:00 p.m. on Wednesday, July 18, 2016 at the Division Five Office, 2612 N. Duke Street, Durham N.C. 27704. The sign in sheet is attached showing people in attendance.

The meeting opened with introductions and a review of the proposal. Special attention was drawn to the following items:

Electronic bidding is acceptable in Division 5 as shown on page 7. A division electronic id is required that is separate from central letting id.

Contract time and liquidated damages – pages 9. Note that lane closure restrictions are different depending on day of the week but that night work is required for this project. Note ICT 1, Holiday Closure 6, has extended restrictions for Thanksgiving, Christmas and New Years from November to January.

Page 14 MBE goal = 0 % WBE goal = 0 %.

Page 26 Erosion and Sediment Control/Stormwater Certification requires a Level II Erosion Control Supervisor. After the meeting it was determined that this is NOT required for this project because there are no land disturbing activites. Please strike through the Erosion and Sediment Control/Stormwater Certification provision found on Page 26 of the proposal. In addition, it was determined that Concrete Washout Structures will be required for this project. The Concrete Washout special provision and detail drawing as well as revised bid sheets have been attached for use in bidding this project.

Page 33 has information on Contractor prequalification for division bidding. Bid, Payment and Performance bonds are required on this project per the Bond Requirements special provision.

The group then discussed the Control of Noise special provision included in the proposal. This provision is a result of commitments made to the neighbors and businesses in the area of this project. A public group meeting will be held to present information to them. Third party monitoring will be provided by the Department. Voilations of the noise limits will result in work suspensions. After suspension, work will not be able to resume without a plan in place for further noise reduction. Please review the requirements for an acoustical engineer and the noise plan. Minimizing back up alarm noises should not be done at the expense of safety.

At the bottom of page BP-3 in the structures special provision there is a statement requiring equipment to operate at a noise level of less than 90 decibels at a distance of 50 feet. The controlling noise requirement for this project is found within the Control of Noise provision and states that the exterior noise level resulting from the work shall not exceed 80 decibals, measured at the highway right of way line closest to each occupied residential property (apartments, condominiums, hotels, motels, etc.) at a heigh of five feet from the ground.

Structures special provision, Sheet BP-7 gives the option of using Class AA high early structural concrete or latex modified concrete for full depth repair. The reference to Class AA concrete should be removed and very early latex modified concrete shall be used if full depth repair is required.

Special attention was drawn to surface cleaning on BP-8. Prior to pouring the Contractor shall vacuum the deck to prevent bonding issues. All slurry shall be removed from the deck to prevent future delamination problems.

BP-9, Managing Hydro-Demolition Water, requires a slurry management plan. Land wasting is not an option for this project.

Location of construction joints shall not fall within the wheel path. Place construction joints at the centerline or adjacent to striping locations.

The TMP was discussed in general terms. The TMP is set up for individual lanes and does not have the typical order of operations built into the plan. This was done to allow the Contractor flexibility in order of operations. It may also allow some accommodations to be made with local businesses as far as what areas are best worked on at certain nights. This would depend on any feedback received at the public meeting to discuss noise with stakeholders.

The Department does not have a plan showing right of way lines for this project. Close approximation can be made with GIS mapping.

There is a greenway trail that runs underneath both bridges. The Contractor needs to be prepared to control pedestrian traffic on the greenway during overhead demo. Please see the "Notes" on TMP-3 pertaining to the use of flaggers under the bridge to protect pedestrians from overhead construction.

Existing ambient noise readings have been provided by the Department. The readings were not taken at the right of way line. The map and readings from this study are attached for bidders informational purposes.

Please note that a new bid sheet and .ebs amendment file have been provided with the revised quantity. Please strike through the original bid sheets provided in the proposal and use the revision for bidding. This information will also be posted electronically on our website. If you are submitting a paper bid please indicate receipt and acknowledgment of this document by signing receipt of Addendum #1 on the ADDENDUM(S) form. This form is found toward the back of the bid proposal.

If you have additional questions prior to bid opening, feel free to call me at (919) 220-4600.

Sincerely,

DocuSigned by:

Jennifer A. Evans, PE

Division Proposals Engineer

Sign Up Sheet for Prebid Meeting Project 8-5940 Date 7/18/2016

Name	Representing	Email Address	_
Jenn for Evans	NCOUT DIVS	jenniforevons = nedbt gov	1
CHAD HINNANT		· ·	
DENHIS JERNIGHN	NCDOT-DIV.S	•	-
Chandler Sparrow	NCDOT-DIV 5	Caparrow1@ncdot.gov	
CHRIS BRITIE	Brekens Rethe	z chaltane buckeye bildg.	1/c.com
Michael Mitchell	Lantord Bothers Co. In	mmitchella lanford bres.	com
April Hecht	American Contracting 45	rrs_ ahecht Dhughesprp.com	-
Farzin Asefnia	NCDOT/SMII	fasefnia @neobt. gav	
Lomes Steffey	Clas Corp.	jsteffey @ ckcococp.com	
	-		

Jul 20, 2016 1:23 pm

#### ITEMIZED PROPOSAL FOR CONTRACT NO. DE00161

Page 1 of 2

County: Wake

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
		R	OADWAY ITEMS			
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000950000-E	SP	GENERIC MISCELLANEOUS ITEM	400		
			(ACOUSTICAL BARRIER ENCLOSURE)	SF		
0003	0000950000-E	SP	P GENERIC MISCELLANEOUS ITEM (NOISE CONTROL CURTAIN)	550		
			(NOIDE GONTROL GORTAIN)	SF		
0004	0000950000-E	SP	GENERIC MISCELLANEOUS ITEM (TEMPORARY NOISE BARRIER)	550		
				SF		
0005	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	328		
			WORK ZONE GIONO (PORTARI E)	SF 		
0006	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	720 SF		
0007	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE	132		
			MOUNTED)	SF		
0008	4415000000-N	1115	FLASHING ARROW BOARD	3		
				EA		
0009	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	2 EA		
				,. 		
0010	4430000000-N	1130	DRUMS	275 EA		
0011	4445000000-E	 1145	BARRICADES (TYPE III)	130		
			·	LF		
0012	4450000000-N	1150	FLAGGER	450		
0012	4490000000 N	1165		HR 2		
0013	448000000-N	1105	TWA	EA		
0014	4510000000-N	SP	LAW ENFORCEMENT	240		
				HR		
0015	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4")	2,588 LF		
			(II)			
0016	4810000000-E	1205	PAINT PAVEMENT MARKING LINES	3,300		
			(4")	LF		
0017	4900000000-N	1251	PERMANENT RAISED PAVEMENT	74		
			MARKERS	EA		
0018	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	

County: Wake

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amoun
0019	8161000000-E	420	GROOVING BRIDGE FLOORS	24,334 SF		
0020	8559000000-E	SP	CLASS II, SURFACE PREPARATION	8 SY		
0021	8566000000-E	SP	CLASS III, SURFACE PREPARATION	8 SY		
0022	8860000000-N	SP	GENERIC STRUCTURE ITEM (FOAM JOINT SEALS)	Lump Sum	L.S.	
0023	8860000000-N	SP	GENERIC STRUCTURE ITEM (VOLUMETRIC MIXER)	Lump Sum	L.S.	
0024	8881000000-E	SP	GENERIC STRUCTURE ITEM (LATEX MODIFIED CONCRETE OVERLAY - VES)	140 CY		
0025	8882000000-E	SP	GENERIC STRUCTURE ITEM (CONCRETE FOR DECK REPAIR)	103 CF		
0026	8882000000-E	SP	GENERIC STRUCTURE ITEM (ELASTOMERIC CONCRETE)	103 CF		
0027	8892000000-E	SP	GENERIC STRUCTURE ITEM (BRIDGE JOINT DEMOLITION)	413 SF		
0028	8893000000-E	SP	GENERIC STRUCTURE ITEM (HYDRO-DEMOLITION OF BRIDGE DECK)	2,855 SY		
0029	8893000000-E	SP	GENERIC STRUCTURE ITEM (PLACING & FINISHING OF LATEX MODIFIED CONCRETE OVERLAY - VES)	2,855 SY		
0030	8893000000-E	SP	GENERIC STRUCTURE ITEM (SCARIFYING BRIDGE DECK)	2,855 SY		
0031	6000000000-E	1605	TEMPORARY SILT FENCE	80 LF		
0032	6132000000-N	SP	GENERIC EROSION CONTROL ITEM (CONCRETE WASHOUT STRUCTURE)	2 EA		

1323/Jul20/Q43504.0/D181456950000/E32

Total Amount Of Bid For Entire Project :

#### **CONCRETE WASHOUT STRUCTURE:**

(1-19-16)

#### **Description**

Concrete washout structures are enclosures above or below grade to contain concrete waste water and associated concrete mix from washing out ready-mix trucks, drums, pumps, or other equipment. Concrete washouts must collect and retain all the concrete washout water and solids, so that this material does not migrate to surface waters or into the ground water. These enclosures are not intended for concrete waste not associated with wash out operations.

The concrete washout structure may include constructed devices above or below ground and or commercially available devices designed specifically to capture concrete waste water.

#### **Materials**

 Item
 Section

 Temporary Silt Fence
 1605

Safety Fence shall meet the specifications as provided elsewhere in this contract.

Geomembrane basin liner shall meet the following minimum physical properties for low permeability; it shall consist of a polypropylene or polyethylene 10 mil think geomembrane. If the minimum setback dimensions can be achieved the liner is not required. (5 feet above groundwater, 50 feet from top of bank of perennial stream, other surface water body, or wetland.)

#### **Construction Methods**

Build an enclosed earthen berm or excavate to form an enclosure in accordance with the details and as directed.

Install temporary silt fence around the perimeter of the enclosure in accordance with the details and as directed if structure is not located in an area where existing erosion and sedimentation control devices are capable to containing any loss of sediment.

Post a sign with the words "Concrete Washout" in close proximity of the concrete washout area, so it is clearly visible to site personnel.

The construction details for the above grade and below grade concrete washout structures can be found on the following web page link:

http://www.ncdot.gov/doh/operations/dp chief eng/roadside/soil water/details/

Alternate details for accommodating concrete washout may be submitted for review and approval.

The alternate details shall include the method used to retain and dispose of the concrete waste water within the project limits and in accordance with the minimum setback requirements. (5 feet above groundwater, 50 feet from top of bank of perennial stream, other surface water body, or wetland.)

#### **Maintenance and Removal**

Maintain the concrete washout structure(s) to provide adequate holding capacity plus a minimum freeboard of 12 inches. Remove and dispose of hardened concrete and return the structure to a functional condition after reaching 75% capacity.

Inspect concrete washout structures for damage and maintain for effectiveness.

Remove the concrete washout structures and sign upon project completion. Grade the earth material to match the existing contours and permanently seed and mulch area.

#### **Measurement and Payment**

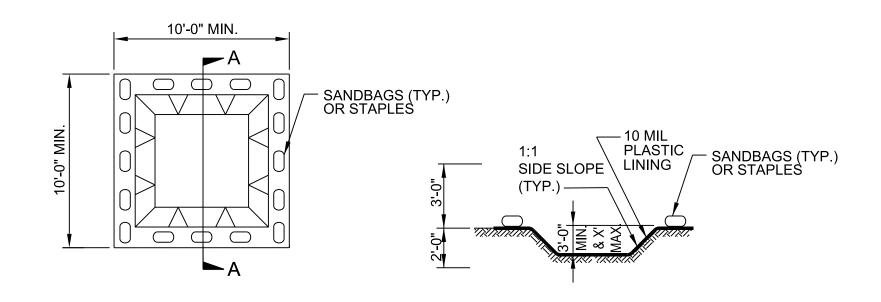
Concrete Washout Structure will be paid for per each enclosure installed in accordance with the details. If alternate details are approved then those details will also be paid for per each approved and installed device.

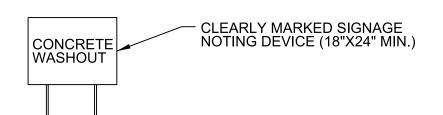
Temporary Silt Fence will be measured and paid for in accordance with Article 1605-5 of the Standard Specifications.

No measurement will be made for other items or for over excavation or stockpiling.

## WITH LINER, NO GRAVEL APPROACH

# ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER





### **SECTION A-A**

#### NOTES:

1. ACTUAL LOCATION DETERMINED IN FIELD

PRELIMINARY DESIGN NOT FOR CONSTRUCTION

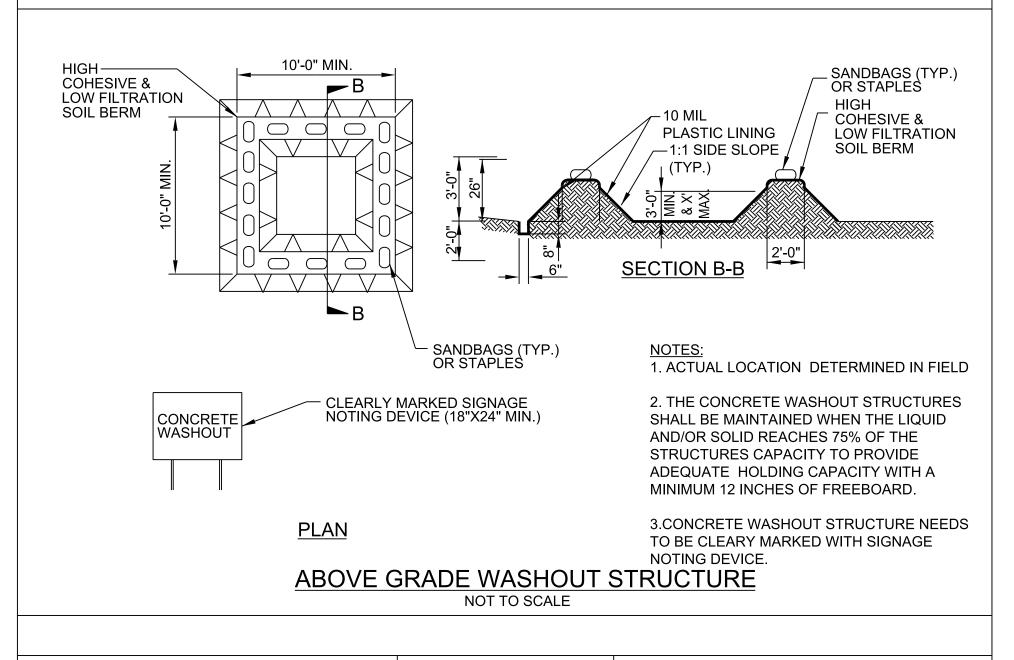
2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.

<u>PLAN</u>

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

## **BELOW GRADE WASHOUT STRUCTURE**

NOT TO SCALE





#### **EVENING 6PM-10PM**

## All decibel readings in dB(A) Leq

Site 1 (Northampton Apartments)

6/29/16-(6PM-10PM) - 65.0

6/30/16-(6PM-10PM) - 64.2

7/1/16-(6PM-10PM) - 63.9

### Site 2 (Brickettwood Apartments)

6/29/16-(6PM-10PM) - 62.0

6/30/16-(6PM-10PM) - 54.8

7/1/16-(6PM-10PM) - 54.8

#### Site 3 (Holiday Inn)

6/29/16-(6PM-10PM) - 65.9

6/30/16-7/1/16(6PM-10PM) - 64.9

7/1/16-7/2/16(6PM-10PM) - 65.4

#### Site 4 (Hampton Inn & Suites)

6/29/16-(6PM-10PM) - 70.5

6/30/16-7/1/16(6PM-10PM) - 69.5

7/1/16-7/2/16(6PM-10PM) - 69.4

#### **NIGHTTIME 10PM-7AM**

## All decibel readings in dB(A) Leq

**Site 1** (Northampton Apartments)

6/29/16-6/30/16 (10PM-7AM) - 57.3

6/30/16-7/1/16(10PM-7AM) - 60.6

7/1/16-7/2/16(10PM-7AM) - 62.4

Site 2 (Brickettwood Apartments)

6/29/16-6/30/16 (10PM-7AM) - 52.9

6/30/16-7/1/16(10PM-6:52AM) - 52.4

7/1/16-7/2/16(10PM-7AM) - 54.7

--- Partial Reading (Meter Battery Died)

Site 3 (Holiday Inn)

6/29/16-/30/16(10PM-7AM) - 59.9

6/30/16-7/1/16(10PM-7AM) - 61.6

7/1/16-7/2/16(10PM-7AM) - 63.0

Site 4 (Hampton Inn & Suites)

6/29/16-6/30/16(10PM-7AM) - 63.1

6/30/16-7/1/16(10PM-7AM) - 66.2

7/1/16-7/2/16(10PM-7AM) - 66.1

8:00 pm - 9:00 am

All decibel readings in dB(A)

Leq

Site 1 (Northampton Apartments)

6/29/16-6/30/16 (8PM-9AM) - 60.5

6/30/16-7/1/16(8PM-9AM) - 63.4

7/1/16-7/2/16(8PM-9AM) - 62.6

**Site 2** (Brickettwood Apartments)

6/29/16-6/30/16 (8PM-9AM) - 57.9

7/1/16-7/2/16(8PM-9AM) - 54.6

6/30/16-7/1/16(8PM-6:52AM) - 53.1 Partial Reading (Meter Battery Died)

Site 3 (Holiday Inn)

6/30/16-7/1/16(8PM-9AM) - 63.3

7/1/16-7/2/16(8PM-9AM) - 63.6

Site 4 (Hampton Inn & Suites)

6/30/16-7/1/16(8PM-9AM) - 68.0

7/1/16-7/2/16(8PM-9AM) - 67.2