



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

March 7, 2012

Addendum No. 1

Contract No.: C 202942
TIP No.: 17BP.3.R.26
Counties: Brunswick and Pender
Project Description: Replacement of 7 Bridges in Brunswick County, 2 Bridges in Pender County

RE: Addendum No. 1 to Final RFP

March 20, 2012 Letting

To Whom It May Concern:

Reference is made to the Final Request for Proposals dated February 10, 2012 recently furnished to you on the above project. We have since incorporated changes, and have attached a copy of Addendum No. 1 for your information. Please note that all revisions have been highlighted in gray and are as follows:

On the COVER SHEET, change the date for the Price Proposal Submission to **March 16, 2012**. Please mark though the date shown on the February 10, 2012 (Labeled) RFP and insert the new date. These corrections must be done in ink and initialed and dated by your Team's primary contractor (reference the attached example). The corrected Final RFP must be used to submit the Price Proposal for return to this office.

The Second page of the *Table of Contents* has been revised. Please void the second page in your proposal and staple the revised first page thereto.

Page Nos. 6, 7, and 36 of the *Project Special Provisions* have been revised. Please void Page Nos. 6, 7, and 36 in your proposal and staple the revised Page Nos. 6, 7, and 36 thereto.

Page No. 41 of the *General Section*, has been revised. Please void Page No. 41 in your proposal and staple the revised Page No. 41 thereto.

Page Nos. 46 and 47 of the *Structures Scope of Work* has been revised. Please void Page Nos. 46 and 47 in your proposal and staple the revised Page Nos. 46 and 47 thereto.

MAILING ADDRESS:
NC Department Of Transportation
Contract Standards and Development Unit
1591 Mail Service Center
Raleigh NC 27699-1591

TELEPHONE: 919-707-6900
FAX: 919-250-4119
WEBSITE: WWW.NCDOT.ORG

LOCATION:
Century Center Complex
entrance b-2
1020 Birch Ridge Drive
Raleigh NC

Page No. 127 has been added to incorporate Errata. Please staple Page No.127 to Page No. 126 as a new page in your proposal.

If you have any questions or need additional information, I can be reached by telephone at (919) 707-6900.

Sincerely,

R.A. Garris, P.E.
Contract Officer

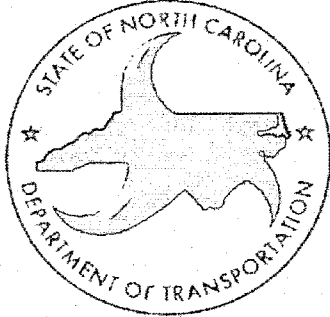
RAG/cwh

cc: Mr. Victor Barbour, PE
Mr. Rodger Rochelle, PE
Ms. Teresa Bruton, PE

Ms. Karen Fussell, PE
Ms. Virginia Mabry

-- STATE OF NORTH CAROLINA--
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

FINAL DRAFT REQUEST FOR PROPOSALS



DESIGN-BUILD PROJECT

Project 17BP.3.R.26

February 10, 2012



VOID FOR BIDDING

Example

DATE AND TIME OF PRICE PROPOSAL SUBMISSION: ~~March 14, 2012~~ *March 16, 2012* BY 4:00 PM *3/5/12 A.B.C*

DATE AND TIME OF PRICE PROPOSAL OPENING: **March 20, 2012 AT 2:00 PM**

CONTRACT ID: C 202942

WBS ELEMENT NO. 17BP.3.R.26

COUNTIES: Brunswick and Pender

ROUTE NO. Various

MILES: 0.75 miles

LOCATION: Replacement of Seven Bridges in Brunswick County and Two Bridges in Pender County

TYPE OF WORK: DESIGN-BUILD AS SPECIFIED IN THE SCOPE OF WORK
CONTAINED IN THE REQUEST FOR PROPOSALS

NOTICE:

ALL PROPOSERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE PROPOSER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. PROPOSERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOT WITHSTANDING THESE LIMITATIONS ON BIDDING, THE PROPOSER WHO IS AWARDED ANY PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING, REGARDLESS OF FUNDING SOURCES.

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PROPOSAL FORMS - ITEMIZED SHEET, ETC.

- Itemized Proposal Sheet
- Fuel Usage Factor Chart and Estimate of Quantities
- Listing of MBE / WBE Subcontractors
- Execution of Bid, Non-Collusion Affidavit, Debarment Certification and Gift Ban Certification
- Signature Sheet

made at the rate of 40 percent of the lump sum amount calculated for Mobilization. The remaining 60 percent will be paid in three equal payments with the partial pay estimate following start of construction for each of the first three bridge sites.

SEQUENCE AND SCHEDULE RESTRICTIONS

The Design-Build Team shall replace Bridge Nos. 090016 and 090020 concurrently and are considered to be first priority in the sequence of bridge replacements due to the need for constant maintenance on the existing structures.

Bridge Nos. 090101 and 090102 shall be constructed sequentially with one another. However, the Division has requested that Bridge No. 090102 be replaced prior to Bridge No. 090101.

Construction of Bridge No. 090054 shall not begin until the Wilmington Bypass is open to traffic, currently scheduled for October 2013.

Due to the close proximity to a school, Bridge No. 090003 shall be constructed during the summer months to minimize interruption to school bus traffic.

Although the road closures for Bridge Nos. 700144 and 700215 are not as detrimental to areas schools as with Bridge No. 090003, effort shall be made to construct these bridges during the summer months.

SUBMITTAL OF QUANTITIES, FUEL BASE INDEX PRICE AND OPT-OUT OPTION

(06-08-11)

DB1 G43

(A) Submittal of Quantities

Submit quantities on the *Fuel Usage Factor Chart and Estimate of Quantities* sheet, located in the back of this RFP, following the Itemized Proposal Sheet.

The Design-Build Team shall prepare an Estimate of Quantities that they anticipate incorporating into the completed project and upon which the Price Proposal was based. The quantity breakdown shall include all items of work that appear in the *Fuel Usage Factor Chart and Estimate of Quantities* sheet. Only those items of work which are specifically noted in the Fuel Usage Factor Chart will be subject to fuel price adjustments. The quantity estimate submitted in the Price Proposal shall be the final total quantity limit for which fuel price adjustments will be made for each item, regardless of supplemental agreements. The Department will review the Estimate of Quantities to ensure its reasonableness. Agreement of quantities will be a prerequisite prior to execution of the contract.

Deleted Separate Submittal Requirement for Fuel Usage Factor Chart

(B) Base Index Price

The Design-Build Team's Estimate of Quantities will be used on the various partial payment estimates to determine fuel price adjustments. The Design-Build Team shall submit a payment request for quantities of work completed based on the work completed for that estimate period. The quantities requested for partial payment shall be reflective of the work actually accomplished for the specified period. The Design-Build Team shall certify that the quantities are reasonable for the specified period. **The base index price for DIESEL #2 FUEL is \$ 3.3509 per gallon.**

(C) Opt Out of Fuel Price Adjustment

If the Design-Build Team elects not to pursue reimbursement for Fuel Price Adjustments, a quantity of zero shall be entered for all quantities in the *Fuel Usage Factor Chart and Estimate of Quantities* and the declination box shall be checked. Failure to complete this form will mean that the Design-Build Team is declining the Fuel Price Adjustments for this project.

(D) Change Option

The proposer will not be permitted to change the option after the Price Proposal and the copy of the *Fuel Usage Factor Chart and Estimate of Quantities* sheet are submitted.

Deleted bullet entitled "Failure to Submit"

**EXECUTION OF BID, NON-COLLUSION AFFIDAVIT, DEBARMENT
CERTIFICATION AND GIFT BAN CERTIFICATION**

(6-08-11)

DB1 G52

The Proposer's attention is directed to the various sheets in the Request for Proposals which are to be signed by the Proposer. A list of these sheets is shown below. The signature sheets are located behind the Itemized Proposal Sheet in this Request for Proposal. The NCDOT bid bond form is available on-line at:

http://www.ncdot.org/doh/preconstruct/altern/design_build/DesignbuildBidBond.pdf

or by contacting the Records and Documents office at 919-707-6900.

1. Applicable Signature Sheets: 1, 2, 3, 4, 5, or 6 (Bid)

DRAINAGE PIPE

(9-1-11)

DB3 R36

Description

Where shown in the plans developed by the Design-Build Team, the Contractor shall use Reinforced Concrete Pipe, Corrugated Aluminum Alloy Pipe, Aluminized Corrugated Steel Pipe, Corrugated Polyethylene Pipe (HDPE Pipe) or Polyvinyl-Chloride Pipe (PVC Pipe) in accordance with the following requirements:

All pipe types are subject to the maximum and minimum fill height requirements as found on Roadway Standard Drawing 300.01 - Sheet 3 of 3. The appropriate Reinforced Concrete Pipe class and the appropriate gage thickness for Corrugated Aluminum Alloy Pipe and Aluminized Corrugated Steel Pipe shall be selected based on fill height.

Site specific conditions may limit a particular material beyond what is identified in this Special Provision. These conditions include, but are not limited to, abrasion, environmental, soil resistivity and pH, high ground water and special loading conditions. The Design-Build Team shall determine if additional restrictions are necessary.

Slope drains shall be Corrugated Aluminum Alloy Pipe, Corrugated Polyethylene Pipe (HDPE Pipe) or Polyvinyl-Chloride Pipe (PVC Pipe).

Transverse median drains and open-ended cross drains shall be Reinforced Concrete Pipe, Corrugated Aluminum Alloy Pipe, Corrugated Polyethylene Pipe (HDPE Pipe) or Polyvinyl-Chloride Pipe (PVC Pipe).

Storm drain system pipes shall be Reinforced Concrete Pipe, Corrugated Polyethylene Pipe (HDPE Pipe) or Polyvinyl-Chloride Pipe (PVC Pipe).

PRICE ADJUSTMENTS FOR ASPHALT BINDER

(9-1-11)

DB6 R25

Price adjustments for asphalt binder for plant mix will be made in accordance with Section 620 of the 2012 *Standard Specifications for Roads and Structures*.

When it is determined that the monthly selling price of asphalt binder on the first business day of the calendar month during which the last day of the partial payment period occurs varies either upward or downward from the Base Price Index, the partial payment for that period will be adjusted. The partial payment will be adjusted by adding the difference (+ or -) of the base price index subtracted from the monthly selling price multiplied by the total theoretical quantity of asphalt binder authorized for use in the plant mix placed during the partial payment period involved.

The base price index for asphalt binder for plant mix is \$ **627.14** per ton.

This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on March 1, 2012.

APPROVAL OF PERSONNEL

The Department will have the right to approve or reject any personnel, assigned to a project by the Design-Build Team.

In the event of engagement of a former employee of the Department, the Design-Build Team or their subcontractors shall restrict such person or persons from working on any of the Design-Build Team's contracted projects in which the person or persons were "formerly involved" while employed by the State. The restriction period shall be for the duration of the contracted project with which the person was involved. *Former Involvement* shall be defined as active participation in any of the following activities:

- Drafting the contract
- Defining the contract scope of the contract
- Design-Build Team selection
- Negotiation of the contract cost (including calculating manhours or fees); and
- Contract administration

An exception to these terms may be granted when recommended by the Secretary and approved by the Board of Transportation.

Failure to comply with the terms stated above in this section shall be grounds for termination of this contract and / or not being considered for selection of work on future contracts for a period of one year.

SUBMITTAL OF PRICE PROPOSALS

Price Proposals that do not adhere to all the requirements noted below may be considered non-responsive and may result in the Department not considering the Design-Build Team for award of the contract or reading their Price Proposal publicly.

Price Proposals will be accepted until **4:00 p.m. Local Time on Friday, March 16, 2012**, at the office of the State Contract Officer:

Mr. Randy A. Garris, P.E.
Contract Standards and Development
1020 Birch Ridge Drive
Century Center Complex - Building B
Raleigh, NC 27610

No Proposals will be accepted after the time specified.

Price Proposals shall be submitted in a sealed package. The outer wrapping will clearly indicate the following information:

STRUCTURES SCOPE OF WORK**Project Details:**

The Design-Build Team will be responsible for all structures necessary to complete the project in accordance with the table provided herein. Reference the Project Special Provision entitled “Measurement and Payment” for a description of pay items and resolution of differences between the quantities and data provided herein and the final design prepared by the Design-Build Team and approved by the Department.

All bridge lengths stated herein are based on an assumed end bent cap depth of 2’-6”. Provided all other contract requirements are met, the Design-Build Team may elect to shorten these lengths by using a 4’-0” end bent cap depth in accordance with the G. R. Perfetti memorandum dated December 21, 2011. If this option is exercised, adjustments in the pay quantity for Bridge Length will be made in accordance with the Measurement and Payment Project Special Provision. No additional payment for the deeper end bent cap will be made.

Bridge Nos. 090016, 090020, and 090025 shall be prestressed girder bridges with cast-in-place decks. All other bridges shall be cored slab or box beam designs.

Unless noted otherwise in the RFP, provide 42” Vertical Concrete Barrier Rail. Standards for a 42” TL-4 approved Vertical Concrete Barrier Rail will be available for use. An alternate 42” minimum height rail submittal will be considered provided it meets the AASHTO LRFD crash test criteria for the design speed at the site.

Bridge No. 700144 shall have two bar metal rails to accommodate bicycle traffic.

Bridge No. 090025 is considered to be in a highly corrosive area and shall include the applicable corrosion protection measures as specified in the Structure Design Manual. Concrete piles are required for interior bents. Steel pile tips may be needed to penetrate the limestone below the concrete pile.

All end bent and interior bent steel piles shall be galvanized in accordance with the most recent Structure Design *Corrosion Protection for Steel Piles* policy memo.

At a minimum, the temporary detour for Bridge No. 090016 shall be designed to accommodate a 5 year storm. Due to the large drainage area to this site and environmental permitting concerns, a temporary bridge is likely. The use of pipes or culverts for a temporary structure at this site is solely at the Design-Build Team’s risk.

Bridge Removal:

The Design-Build team is responsible for the removal and disposal of all existing bridges, piles, abutments and existing bridge substructure remnants per NCDOT’s *Best Management Practices of Maintenance and Construction Activities*.

Structure Number	Site Description	Out-Out Width (ft.)	Length (ft.)	Bent Placement Limitations	# of Spans	End Bent #1 Foundation Length (& est. tip elev.)	End Bent #2 Foundation Length (& est. tip elev.)	Interior Bent Foundation Length (& est. tip elev.)	Foundation Type
090003	SR 1455 over Banton Branch	30	55	N/A	1	58 (-46)	58 (-46)	Not Applicable	Steel Piles
090016	NC 211 over Honey Island Swamp	34.25	80	1 @ Water's edge only	2	51 (8)	51 (8)	51 (8)	Steel Piles
090020	NC 211 over Honey Island Swamp	34.25	85	1 @ Water's edge only	2	55 (5)	55 (5)	55 (5)	Steel Piles
090025	SR 1500 over Midway Branch/River Swamp	36.25	120	*None in Water	3	34 (-10)	34 (-10)	34 (-10)	End Bents Steel Piles; Interior Bents Concrete Piles
090054	NC 87 over UT to Hood Creek	33	80	1 @ Water's edge only	2	59 (-22)	59 (-22)	59 (-22)	Steel Piles
090101	SR 1401 over Red Run Creek	30	70	None in Water	2	56 (43)	56 (43)	56 (43)	Steel Piles
090102	SR 1401 over Pinch Gut Creek	30	75	**None in water	2	58 (42)	58 (42)	58 (42)	Steel Piles
700144	SR 1102 over Colly Creek	30	150	***Near edge of water	3	53 (46)	53 (46)	53 (46)	Steel Piles

STANDARD SPECIAL PROVISION**ERRATA**

(1-17-12) (Rev. 03-20-12)

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 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”.

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

Division 15

Page 15-6, Subarticle 1510-3(B), after line 21, replace the allowable leakage formula with the following: $W = LD \bar{P} \div 148,000$

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”.

Division 17

Page 17-26, line 42, Subarticle 1731-3(D) Termination and Splicing within Interconnect Center, delete this subarticle.