

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
HIGHWAY DIVISION 12

**FINAL REQUEST FOR PROPOSALS**



**EMERGENCY EXPRESS  
DESIGN-BUILD PROJECT**

**Project: DL00283**

**October 12, 2022**



DATE AND TIME OF PRICE PROPOSAL OPENING: **October 25, 2022 AT 2:00 PM**

**\*\* Electronic bidding will be available on or before October 24, 2022, via Bid Express \*\***

CONTRACT ID: DL00283

WBS ELEMENT NO.: BP12.R013.3

COUNTY(S): Iredell

ROUTE NO. SR 1891 (Olin Loop Road)

MILES: 0.10 miles

LOCATION: Replacement of Bridge Number 220 in Iredell 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.

\_\_\_\_\_  
5% BID BOND OR BID DEPOSIT REQUIRED  
\_\_\_\_\_

**PROPOSAL FORM FOR THE CONSTRUCTION OF CONTRACT NO. DL00283  
IN IREDELL COUNTY NORTH  
CAROLINA**

Date \_\_\_\_\_ 2022

**DEPARTMENT OF TRANSPORTATION,  
RALEIGH, NORTH CAROLINA**

The Design-Build Team herein acknowledges that it has carefully examined the location of the proposed work to be known as Contract No. **DL00283**, has carefully examined the Final Request for Proposals (RFP) and all addendums thereto, specifications, special provisions, the form of contract, and the forms of contract payment bond and contract performance bonds, which are acknowledged to be part of the Contract; and thoroughly understands the stipulations, requirements and provisions. The undersigned Design-Build Team agrees to be bound upon their execution of the Contract and including any subsequent award to them by the Secretary of Transportation in accordance with this Contract to provide the necessary contract payment bond and contract performance bond within fourteen calendar days after the written notice of award is received by them.

The undersigned Design-Build Team further agrees to provide all necessary materials, machinery, implements, appliances, tools, labor, and other means of construction, except as otherwise noted, to perform all the work and required labor to design, construct and complete all the work necessary for State Highway Contract No. **DL00283** in **Iredell County** by no later than the date(s) specified in the Final RFP, and any addenda thereto, and in accordance with the requirements of the Engineer, the Final RFP and Addenda thereto, the January 2018 NCDOT *Standard Specifications for Roads and Structures*, and specifications prepared by NCDOT, herein after referred to as the Department, at the price(s) bid by the Design-Build Team in their Price Proposal.

The Design-Build Team shall provide signed and sealed documents prepared by the Design- Build Team, which specifications and plans show the details covering this project and adhere to the items noted above.

The Design-Build Team acknowledges that project documents furnished by the Department are preliminary and provided solely to assist the Design-Build Team in the development of the project design. Unless otherwise noted herein, the Department does not warrant or guarantee the sufficiency or accuracy of any information furnished by the Department.

The Department does not warrant or guarantee the sufficiency or accuracy of any investigations made, nor the interpretations made or opinions of the Department as to the type of materials and conditions to be encountered at the project site. The Design-Build Team is advised to make such independent investigations, as they deem necessary to satisfy their self as to conditions to be encountered on this project. The Design-Build Team shall have no claim for additional compensation or for an extension of contract time for any reason resulting from the actual conditions encountered at the site differing from those indicated in any of the information or documents furnished by the Department except as may be allowed under the provisions of the *2018 Standard Specifications for Roadway & Structures*.

Although the Department has furnished preliminary designs for this project, unless noted otherwise herein, the Design-Build Team shall assume full responsibility, including liability, for the project design, including the use of portions of the Department design, modification of such design, or other designs as may be submitted by the Design-Build Team.

The Design-Build Team shall be fully and totally responsible for the accuracy and completeness of all work performed under this contract, and shall indemnify and hold the Department harmless for any additional costs and all claims against the Department or the State which may arise due to errors or omissions of the Department in furnishing the preliminary project designs and information, and of the Design-Build Team in performing the work.

The published volume entitled *North Carolina Department of Transportation, Raleigh, Standard Specifications for Roads and Structures, January 2018*, as well as, all design manuals, policy and procedures manuals, and AASHTO publications and guidelines referenced in the Request For Proposals, with all amendments and supplements thereto, are by reference, incorporated and made part of this contract; that, except as herein modified, all the designs, construction and, as applicable, construction engineering and inspection included in this contract is to be done in accordance with the documents noted above and under the direction of the Engineer.

The contract is valid only when signed either by the Contract Officer or such other person as may be designated by the Secretary to sign for the Department of Transportation. The conditions and provisions herein cannot be changed except by written approval as allowed by the Request for Proposals.

Accompanying the Design-Build Proposal shall be a bid bond secured by a corporate surety, or certified check payable to the order of the Department of Transportation, for five percent of the total bid price, which deposit is to be forfeited as liquidated damages in case this bid is accepted and the Design-Build Team shall fail to provide the required payment and performance bonds with the Department of Transportation, under the condition of this proposal, within 14 calendar days after the written notice of award is received by them, as provided in the *2018 Standard Specifications for Roads and Structures*; otherwise said deposit will be returned to the Design-Build Team.

**INSTRUCTIONS TO BIDDERS**

**PLEASE READ ALL INSTRUCTIONS CAREFULLY  
BEFORE PREPARING AND SUBMITTING YOUR BID.**

**All bids shall be prepared and submitted in accordance with the following requirements. Failure to comply with any requirement may cause the bid to be considered irregular and may be grounds for rejection of the bid.**

For preparing and submitting the bid electronically, refer to Article 102-8(B) of the *2018 Standard Specifications*.

Bidders that bid electronically on Raleigh Central-Let projects will need a separate Digital Signature from the approved electronic bidding provider for Division Contracts.

**ELECTRONIC ON-LINE BID:**

1. Proposals will be distributed to eligible Design-Build Teams. Download the electronic submittal file from the approved electronic bidding provider website. The electronic submittal file will not be available until 8:00 a.m. of the letting day.
2. Prepare and submit the electronic submittal file using the approved electronic bidding provider software.
3. Electronic bidding software necessary for electronic bid preparation may be downloaded from the Connect NCDOT website at: <https://connect.ncdot.gov/letting/Pages/Electronic-Bidding.aspx> or from the approved electronic bidding provider website.

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**Itemized Proposal Sheet**

**\*\*\* PROJECT SPECIAL PROVISIONS \*\*\***

**CONTRACT TIME AND LIQUIDATED DAMAGES**

07/12/07

DB1 G04A

The date of availability for this contract is **December 5, 2022** except that the Design-Build Team shall not begin ground disturbing activities, including utility relocations (this does not include permitted investigative borings covered under a Nationwide Permit No. 6) until a meeting is held between the NCDOT, the regulatory agencies and the Design-Build Team.

The Design-Build Team shall not begin ground disturbing activities in jurisdictional areas until the applicable permits have been acquired as stipulated in the Environmental Permits Scope of Work contained elsewhere in this Request for Proposals (RFP).

The completion date for this contract is **February 19, 2024**.

When observation periods are required by the special provisions, they are not a part of the work to be completed by the completion date and / or intermediate contract times. Should an observation period extend beyond the final completion date, the acceptable completion of the observation period shall be a part of the work covered by the performance and payment bonds.

The liquidated damages for this contract are **Two Hundred Dollars (\$ 200.00)** per calendar day. These damages shall not be cumulative with any damages that may become chargeable under Intermediate Contract Time Number 1.

**INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES**

(7-1-95) (Rev. 2-21-12)

108

SP1 G13 A

Except for that work required under the Project Special Provisions entitled *Planting, Reforestation* and/or *Permanent Vegetation Establishment*, included elsewhere in this proposal, the Contractor will be required to complete all work included in this contract and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is **December 5, 2022**.

The completion date for this intermediate contract time is **August 18, 2023**.

The liquidated damages for this intermediate contract time are **Eight Hundred Fifty Dollars (\$ 850.00)** per calendar day.

Upon apparent completion of all the work required to be completed by this intermediate date, a final inspection will be held in accordance with Article 105-17 and upon acceptance, the Department will assume responsibility for the maintenance of all work except *Planting, Reforestation* and/or *Permanent Vegetation Establishment*. The Contractor will be responsible for and shall make corrections of all damages to the completed roadway caused by his planting operations, whether occurring prior to or after placing traffic through the project.

**MEASUREMENT AND PAYMENT**

Reference is made to the following pay items listed on the Itemized Proposal Sheet:

**Bridge Length (LF):** *Bridge Length* will be measured from fill face to fill face and paid in units of linear feet as measured along the centerline of the bridge of actual bridge length constructed. Work will include all materials, labor, and equipment to construct the superstructure portion of the bridge as taken from the bottom of the superstructure to the top of the bridge rail, excluding asphalt wearing surface. This work does not include bearing devices, anchors bolts or other such connection.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Bridge Length	Linear Feet

**Foundation Length (LF):** *Foundation Length* will be measured from the elevation at the top of the piles to the average pile tip elevation actually installed at a given end bent and will be paid for in units of linear feet. The final foundation pay length per end bent will be determined by dividing the total pile lengths measured as defined above by the total number of piles per end bent. Work will include all materials, labor, and equipment to install and construct the foundations, including pile auguring as necessary, regardless of the number of piles per bent, including that portion of the piles that extend into the end bent cap.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Average Foundation Length at End Bent #1	Linear Feet
Average Foundation Length at End Bent #2	Linear Feet

**End Bents (Each):** *End Bents* will be measured and paid for by each. Work will include all material, labor, and equipment to construct each end bent, including the necessary bearing devices, anchors bolts or other such connection, and wing walls.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
End Bents	Each

**Design and Construction of Bridge (LS):** *Design and Construction of Bridge* will be paid for as lump sum. No measurement will be made. Work will include all material, labor and equipment to complete all of the work required by the contract, excluding those specific contract unit price items listed above. Work will include all preconstruction activities including, but not limited to, design, permitting, utility coordination services and other preconstruction services, regardless of the final design, bridge length or foundation length. Work will also include all other construction required by the contract including, but not limited to, erosion and sediment control, earthwork, drainage, curb & gutter, sidewalk, pavement, signing, bridge approach fills, approach slabs, removal of existing structure and guardrail. Work will also include all surveying and geotechnical investigative work as



may be required by the contract and construction, maintenance, and removal of any necessary construction access and work pads.

Work will also include any additional materials and labor needed to provide up to a 1’-6” increase in the existing roadway grade to satisfy all contract requirements, including FEMA compliance, as applicable.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Design and Construction of Bridge	Lump Sum

**Right of Way Acquisition (EA):** *Right of Way Acquisition* services will be paid for per each parcel from which any easements and/or right of way is required. Work will include all labor and services necessary to acquire the easements/right of way as required by the Right of Way Scope of Work.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Right of Way Acquisition	Each

**Adjustments to Quantities and Payment**

The Itemized Proposal Sheet provides the quantity of linear feet of *Bridge Length* and *Foundation Length* to be bid for the bridge site. By submitting this Price Proposal, the Design- Build Team acknowledges that these quantities are intended for bidding purposes and may or may not be the final design quantities. Unless otherwise noted in the Structures Scope of Work, in the event that the final design quantities for *Bridge Length* and *Foundation Length* differ from those presented in the Itemized Proposal Sheet, adjustment will be made to the partial payments made to Design-Build Team per the applicable contract unit prices.

The Itemized Proposal Sheet provides the quantity of parcels from which utility easement or right of way will be required across this bridge site. By submitting this Price Proposal, the Design-Build Team acknowledges that this quantity is intended for bidding purposes and may or may not be the final quantity. In the event that the final quantity of impacted parcels differs from that shown in the Itemized Proposal Sheet, adjustment will be made to the partial payments made to the Design-Build Team per the unit price bid per Each for *Right of Way Acquisition*.

All contract pay items for this contract are considered minor contract items.

No adjustments to the pay quantities will be made until such time that all pertinent design submittals are approved and all permits for the site have been obtained.

In the event of any increase in any of the above quantities, the Design-Build Team will be required to demonstrate through the pertinent design submittals the need for the additional quantities.

In the event of any decrease in any of the above quantities, the Design-Build Team will be eligible for an incentive for such reduction (reference the Project Special Provision entitled “Value Analysis”). This incentive and special provision do not apply to the line item for *Right of Way*

*Acquisition.*

The Structure Scope of Work does not specify a size of superstructure (e.g. 33" deep box beam) or foundation pile size (e.g. 12 x 53); instead the determination of these sizes is the responsibility of the Design-Build Team. No additional compensation will be provided for any increase in specific size of superstructure or foundation type. However, if during the course of the design or permitting phase, the Design-Build Team demonstrates to the Department's satisfaction that the foundation type (e.g. steel piles or drilled piers) or superstructure type (e.g. box beams) as specified in the Structures Scope of Work will not be adequate, then the provisions of Article 104-7 of the Standard Specifications will apply.

If during the course of the design or permitting phase, the Design-Build Team proposes a more economical foundation type or superstructure type from those specified in the Structures Scope of Work, then the provisions of Article 104-12 of the Standard Specifications will apply.

In the event, that the width of superstructure specified in the Structures Scope of Work is inadequate, as demonstrated through the pertinent approved design submittals, then provisions of Article 104-7 of the Standard Specifications will apply. In such case, the unit contract price bid per Each for *End Bents* will be prorated based on the difference in length of cap needed for the bridge width stated herein and the final design bridge width. If the Design-Build Team demonstrates to the Department's satisfaction that the extra bridge width requires an additional pile, then the payment quantity for Foundation Length will be prorated based on the number of piles needed for the bridge width stated herein and that for final design bridge width. The payment quantity for Linear Feet of *Bridge Length* will be prorated by multiplying the payment quantity provided in the Itemized Proposal Sheet by the ratio of the final design bridge width divided by the bridge width specified herein. No additional compensation for the lump sum item *Design and Construction of Bridges* will be provided for additional bridge width.

If during the course of the design, the Design-Build Team determines that the existing roadway grade must be raised by more than 1'-6" to accommodate other contract requirements, then the provisions of Article 104-7 of the Standard Specifications will apply to the work items covered by *the Design and Construction of Bridges* line item to the extent needed beyond the 1'-6" grade change already accommodated in the lump sum price bid for *Design and Construction of Bridges*.

**DESIGN AND CONSTRUCTION ITEMIZATION**

(3-21-15) EDB

Reference is made to the Measurement and Payment Project Special Provision and the pay item for *Design and Construction of Bridges* contained therein. Within 30 days after award of the contract, the Design-Build Team shall submit to the Engineer, an itemization of the anticipated costs associated with the work items contained in the amount bid for *Design and Construction of Bridge*. The itemization shall, at a minimum, break out the costs for design, other preconstruction services, the summation of all typical roadway pay items and a breakdown of all typical bridge pay items.

**MOBILIZATION**

(3-11-19)

DB1 G15A

Revise the 2018 *Standard Specifications for Roads and Structures* as follows:

**Page 8-1, Subarticle 800-2, MEASUREMENT AND PAYMENT**

Delete this subarticle in its entirety and replace with the following:

**800-2      MEASUREMENT AND PAYMENT**

Ten percent of the “Total Amount of Bid for Entire Project” shall be considered the lump sum amount for Mobilization. Partial payments for Mobilization will be made beginning with the first partial pay estimate paid on the contract. Payment will be made at the rate of 40 percent of the lump sum amount calculated for Mobilization. The remaining 60 percent will be paid with the second partial pay

**CONSTRUCTION MORATORIUM**

(5-20-22)

DB1 G18C

Currently, there are no known records of northern long-eared bat (NLEB) maternity roost trees within 150 feet of the project. Prior to beginning any tree clearing activities, the Design-Build Team shall coordinate with the Design-Build Unit and the Environmental Coordination and Permitting Group to reconfirm that no NLEB maternity roost trees exist within 150 feet of the project. If the Department reconfirms that no NLEB maternity roost trees exist within 150 feet of the project, the Design-Build Team will be allowed to clear trees between May 1<sup>st</sup> and June 30<sup>th</sup>. If any NLEB maternity roost trees are found within 150 feet of the project, no tree cutting will be allowed from **May 1<sup>st</sup>** through **June 30<sup>th</sup>** of any year.

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

12/9/21

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, at the following link:

<https://connect.ncdot.gov/letting/Pages/Design-Build-Resources.aspx>

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 and Estimate of Quantities* sheet will be subject to fuel price adjustments.

**Submittal** - The submittal shall be delivered at the same time and location as the Price Proposal. The Fuel Usage Factor Chart and Estimate of Quantities sheet shall be attached to the electronic bid file.

**Trade Secret** - Information submitted on the *Fuel Usage Factor Chart and Estimate of Quantities* sheet will be considered “Trade Secret” in accordance with the requirements of G.S. 66-152(3) until such time as the Price Proposal is opened.

**(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 \$ 3.4665 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* sheet 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) Fuel Usage Factor for Asphalt Line Items**

If the Design-Build Team elects to pursue reimbursement for Fuel Price Adjustments, the Design-Build Team shall select either the 0.90 or 2.90 Fuel Usage Factor for each individual asphalt line item by marking the appropriate Factor on the *Fuel Usage Factor Chart*. If the Design-Build Team does not mark either Fuel Usage Factor or marks both Fuel Usage Factors for an asphalt line item, the 2.90 Fuel Usage Factor shall be used for that asphalt line item.

**(E) Change Option**

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

**(F) Failure to Submit**

Failure to submit the completed *Fuel Usage Factor Chart and Estimate of Quantities* sheet separately with the Technical Proposal and in the Price Proposal will result in the Technical and Price Proposal being considered irregular by the Department and the Technical and Price Proposal may be rejected.

**CONFIDENTIAL QUESTIONS**

(1-5-07)

DB1 G56B

The Design-Build Team will be permitted to ask confidential questions of the Department, which neither the question nor answer will be shared with other proposing teams. For the purpose of this provision, "confidential question" is defined as a private inquiry containing information whose disclosure could alert others to certain details of doing business in a particular manner. The Department will determine if the question is considered a confidential question.

- I. Confidential questions arising prior to issuance of the Final Request for Proposals will be allowed at the individual question and answer sessions with each firm.

The Department will answer the confidential questions verbally at the meeting if possible. If not answered verbally during the meeting, the Department may answer the confidential question by subtle changes in the Final Request for Proposals, which will clarify the scope by either allowing or disallowing the request. The revision will be made in such a manner as to not disclose the confidential question.

- II. After the issuance of the Final Request for Proposals, confidential questions may be asked by requesting a meeting with the Contract Officer. The request shall be in writing and provide sufficient detail to evaluate the magnitude of the request. Questions shall be of such magnitude as to warrant a special meeting. Minor questions will not be acknowledged or answered.

After evaluation, the Contract Officer will respond to the question in writing to the Design- Build Team only. Other teams will not be notified of the question or answer.

### **VALUE ANALYSIS**

(9-1-11)

EDB1 G57

Value Engineering Proposals, as specified in Article 104-12 of the 2018 *Standard Specifications for Roads and Structures*, and as modified in the Standard Special Provision entitled “Value Engineering Proposals” will be accepted. Only proposals, which alter the requirements of the RFP issued by the Department, will be considered as Value Engineering Proposals.

To minimize re-design efforts and costs, the Design-Build Team is encouraged to submit Preliminary Value Engineering Proposals that provide an estimate of cost or time savings, span layout, span lengths, foundation types, or other such general information and how they differ from that specified in this RFP. Therefore, full design packages for the proposed structure and that for the structure specified in this RFP are not required, but enough detail should be provided to clearly show the cost of both options (excluding design cost).

The \$10,000 threshold for consideration of a Value Engineering Proposal, as specified in Article 104-12 applies.

Value Engineering Proposals will not be required or allowed for the sole purposes of reducing the depth of foundations or to shorten the bridge length unless a change to the foundation type (drilled piers versus piles) or a change to the superstructure type is proposed and accepted. Instead, such reduction in foundation depth or bridge length will result in an adjustment in partial payments to the Design-Build Team in accordance with the Project Special Provision entitled “Measurement and Payment.” However, as an incentive to the Design-Build Team to provide an economical structural design, the Design-Build Team will be paid a lump sum of 15% of the total partial payment adjustment attributable to the reduced pay item quantities for Foundation Depth and/or Bridge Length, as applicable. Said lump sum payment will be made upon approval of all design submittals, and receipt of all permits and FEMA compliance for a given bridge site. The 15% incentive will not apply to a bridge if the total partial payment adjustments noted above for that bridge are less than \$5,000.00.

### **INDIVIDUAL MEETINGS WITH PROPOSERS**

(9-1-11)

DB1 G048

The Department will provide one Question and Answer Session, which includes Hydraulic & Geotechnical Questions, to meet with each proposer individually to specifically address questions regarding the draft Requests for Proposals.

### **SCHEDULE OF ESTIMATED COMPLETION PROGRESS**

(9-1-11) (Rev. 3/31/21)

DB1 G58

The Design-Build Team's attention is directed to the *Availability of Funds - Termination of Contracts* Standard Special Provision found elsewhere in this RFP. The Department of Transportation's schedule of estimated completion progress for this project, as required by that Standard Special Provision, is as follows:

<u>Fiscal Year</u>	<u>Progress (% of Dollar Value)</u>
2023 (07/01/22 – 06/30/23)	<b>75%</b> of Total Amount Bid
2024 (07/01/23 – 06/30/24)	<b>25%</b> of Total Amount Bid

In accordance with Article 108-2 of the 2018 Standard Specifications for Roads and Structures, the Design-Build Team shall also furnish its own progress schedule. Any acceleration of the progress as shown by the Design-Build Team's progress schedule over the progress as shown above shall be subject to the approval of the Engineer.

**MINORITY BUSINESS ENTERPRISE AND WOMEN BUSINESS ENTERPRISE**

(10-16-07) (Rev. 8-17-21)

102-15(J)

DB1 G66

**Description**

The purpose of this project special provision is to carry out the North Carolina Department of Transportation’s policy of ensuring nondiscrimination in the award and administration of contracts financed in whole or in part with State funds.

**Definitions**

*Additional MBE / WBE Subcontractors* - Any MBE / WBE submitted at the time the Price Proposal is submitted that will not be used to meet the Combined MBE / WBE Goal. No submittal of a Letter of Intent is required.

*Combined MBE / WBE Goal* - A portion of the total contract, expressed as a percentage that is to be performed by committed MBE / WBE subcontractors.

*Committed MBE / WBE Subcontractor* - Any MBE / WBE submitted at the time the Price Proposal is submitted that is being used to meet the Combined MBE / WBE Goal by submission of a Letter of Intent. Or any MBE or WBE used as a replacement for a previously committed MBE or WBE firm.

*Contract Goal Requirement* - The approved participation at time of award, but not greater than the contract Combined MBE / WBE Goal.

*Goal Confirmation Letter* - Written documentation from the Department to the Proposer confirming the Design-Build Team's approved, committed participation along with a listing of the committed MBE and WBE firms.

*Manufacturer* - A firm that operates or maintains a factory or establishment that produces on the premises, the materials or supplies obtained by the Design-Build Team.

*MBE Participation (Anticipated)* - A portion of the total contract, expressed as a percentage, that is anticipated to be performed by committed MBE subcontractor(s).

*Minority Business Enterprise (MBE)* - A firm certified as a Disadvantaged Minority-Owned Business Enterprise through the North Carolina Unified Certification Program.

*Regular Dealer* - A firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials or supplies required for the performance of the contract are bought, kept in stock, and regularly sold to the public in the usual course of business. A regular dealer engages in, as its principal business and in its own name, the purchase and sale or lease of the products in question. A regular dealer in such bulk items as steel, cement, gravel, stone, and petroleum products need not keep such products in stock, if it owns and operates distribution equipment for the products. Brokers and packagers are not regarded as manufacturers or regular dealers within the meaning of this section.

*Replacement / Substitution* - A full or partial reduction in the amount of work subcontracted to a committed (or an approved substitute) MBE / WBE firm.

*North Carolina Unified Certification Program (NCUCP)* - A program that provides comprehensive services and information to applicants for MBE / WBE certification. The MBE / WBE program follows the same regulations as the federal Disadvantaged Business Enterprise (DBE) program in accordance with 49 CFR Part 26.

*United States Department of Transportation (USDOT)* - Federal agency responsible for issuing regulations (49 CFR Part 26) and official guidance for the DBE program.

*WBE Participation (Anticipated)* - A portion of the total contract, expressed as a percentage, that is anticipated to be performed by committed WBE subcontractor(s).

*Women Business Enterprise (WBE)* - A firm certified as a Disadvantaged Women-Owned Business Enterprise through the North Carolina Unified Certification Program.

### **Forms and Websites Referenced in this Provision**

*Payment Tracking System* - On-line system in which the Design-Build Team enters the payments made to MBE and WBE subcontractors who have performed work on the project.

**<https://apps.dot.state.nc.us/Vendor/PaymentTracking/>**

*DBE-IS Subcontractor Payment Information* - Form for reporting the payments made to all MBE / WBE firms working on the project. This form is for paper bid projects only.

**<https://connect.ncdot.gov/business/Turnpike/Documents/Form%20DBE-IS%20Subcontractor%20Payment%20Information.pdf>**

RF-1 *MBE / WBE Replacement Request Form* - Form for replacing a committed MBE or WBE.

**<http://connect.ncdot.gov/projects/construction/Construction%20Forms/DBE%20MBE%20WBE%20Replacement%20Request%20Form.pdf>**

SAF *Subcontract Approval Form* - Form required for approval to sublet the contract.

**<http://connect.ncdot.gov/projects/construction/Construction%20Forms/Subcontract%20Approval%20Form%20Rev.%202012.zip>**

JC-1 *Joint Check Notification Form* - Form and procedures for joint check notification. The form acts as a written joint check agreement among the parties providing full and prompt disclosure of the expected use of joint checks.

**<http://connect.ncdot.gov/projects/construction/Construction%20Forms/Joint%20Check%20Notification%20Form.pdf>**

*Letter of Intent* - Form signed by the Contractor and the MBE / WBE subcontractor, manufacturer or regular dealer that affirms that a portion of said contract is going to be performed by the signed MBE / WBE for the estimated amount (based on quantities and unit prices) listed at the time the Price Proposal is submitted.

**<http://connect.ncdot.gov/letting/LetCentral/Letter%20of%20Intent%20to%20Perform%20as%20a%20Subcontractor.pdf>**

*Listing of MBE and WBE Subcontractors Form* - Form for entering MBE / WBE subcontractors on a project that will meet the Combined MBE / WBE Goal contained elsewhere in this RFP.

**[http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/09%20MBE-WBE%20Subcontractors%20\(State\).docx](http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/09%20MBE-WBE%20Subcontractors%20(State).docx)**

*Subcontractor Quote Comparison Sheet* - Spreadsheet for showing all subcontractor quotes in the work areas where MBEs and WBEs quoted on the project. This sheet is submitted with good faith effort packages.

**<http://connect.ncdot.gov/business/SmallBusiness/Documents/DBE%20Subcontractor%20Quote%20Comparison%20Example.xls>**



**Combined MBE / WBE Goal**

The Combined MBE / WBE Goal for this project is **0%**

The Combined MBE / WBE Goal was established utilizing the following anticipated participation for Minority Business Enterprises and Women Business Enterprises:

(A) **Minority Business Enterprises 0%**

- (1) *If the anticipated MBE participation is more than zero*, the Design-Build Team shall exercise all necessary and reasonable steps to ensure that MBEs participate in at least the percent of the contract as set forth above.
- (2) *If the anticipated MBE participation is zero*, the Design-Build Team shall make an effort to recruit and use MBEs during the performance of the contract. Any MBE participation obtained shall be reported to the Department.

(B) **Women Business Enterprises 0%**

- (1) *If the anticipated WBE participation is more than zero*, the Design-Build Team shall exercise all necessary and reasonable steps to ensure that WBEs participate in at least the percent of the contract as set forth above.
- (2) *If the anticipated WBE participation is zero*, the Design-Build Team shall make an effort to recruit and use WBEs during the performance of the contract. Any WBE participation obtained shall be reported to the Department.

The Proposer is required to submit only participation to meet the Combined MBE / WBE Goal. The Combined MBE / WBE Goal may be met by submitting all MBE participation, all WBE participation, or a combination of MBE and WBE participation.

**Directory of Transportation Firms (Directory)**

Real-time information is available about firms doing business with the Department and firms that are certified through NCUCP in the Directory of Transportation Firms. Only firms identified in the Directory as MBE and WBE certified shall be used to meet the Combined MBE / WBE Goal. The Directory can be found at the following link:

**<https://www.ebs.nc.gov/VendorDirectory/default.html>**

The listing of an individual firm in the directory shall not be construed as an endorsement of the firm's capability to perform certain work.

### Listing of MBE / WBE Subcontractors

At the time the Price Proposal is submitted, Proposers shall submit all MBE and WBE participation that they anticipate to use during the life of the contract. Only those identified to meet the Combined MBE / WBE Goal will be considered committed, even though the listing shall include both committed MBE / WBE subcontractors and additional MBE / WBE subcontractors. Any additional MBE / WBE firm participation above the goal will follow the banking guidelines found elsewhere in this provision. All other additional MBE / WBE subcontractor participation submitted at the time the Price Proposal is submitted will be used toward the Department's overall race-neutral goals. Only those firms with current MBE and WBE certification at the time of Price Proposal opening will be acceptable for listing in the Proposer's submittal of MBE and WBE participation. The Design-Build Team shall indicate the following required information:

- (1) *If the Combined MBE / WBE Goal is more than zero,*
  - (a) Proposers, at the time the Price Proposal is submitted, shall submit a listing of MBE / WBE participation, including the names and addresses on *Listing of MBE and WBE Subcontractors* contained elsewhere in the contract documents in order for the Price Proposal to be considered responsive. Proposers shall indicate the total dollar value of the MBE and WBE participation for the contract.
  - (b) If Proposers have no MBE or WBE participation, they shall indicate this on the *Listing of MBE and WBE Subcontractors* by entering the word "None" or the number "0." This form shall be completed in its entirety. **Blank forms will not be deemed to represent zero participation.** Price Proposals submitted that do not have MBE and WBE participation indicated on the appropriate form will not be read publicly during the opening of Price Proposals. The Department will not consider these Price Proposals for award and the proposal will be rejected.
  - (c) The Proposer shall be responsible for ensuring that the MBE / WBE is certified at the time the Price Proposal is submitted by checking the Directory of Transportation Firms. If the firm is not certified at the time of the opening of the Price Proposals, that MBE's or WBE's participation will not count towards achieving the Combined MBE / WBE Goal.
- (2) *If the Combined MBE / WBE Goal is zero,* entries on the *Listing of MBE and WBE Subcontractors* are not required for the zero goal, however any MBE or WBE participation that is achieved during the project shall be reported in accordance with requirements contained elsewhere in the special provision.

**MBE or WBE Prime Contractor**

When a certified MBE or WBE firm proposes on a contract that contains a Combined MBE / WBE Goal, the firm is responsible for meeting the Combined MBE / WBE Goal or making good faith efforts to meet the Goal, just like any other proposer. In most cases, a MBE or WBE proposer on a contract will meet the Combined MBE / WBE Goal by virtue of the work it performs on the contract with its own forces. However, all the work that is performed by the MBE or WBE proposer and any other similarly certified subcontractors will count toward the Goal. The MBE or WBE proposer shall list itself along with any MBE or WBE subcontractors, if any, in order to receive credit toward the Combined MBE / WBE Goal.

MBE / WBE Prime Contractors shall also follow Sections A and B listed under *Listing of MBE / WBE Subcontractor* just as a non-MBE / WBE proposer would.

**Written Documentation - Letter of Intent**

The Proposer shall submit written documentation for each MBE / WBE that will be used to meet the contract Combined MBE / WBE Goal, indicating the Proposer's commitment to use the MBE / WBE in the contract. This documentation shall be submitted on the Department's form titled *Letter of Intent*.

The documentation shall be received in the office of the State Contractor Utilization Engineer or at DBE@ncdot.gov no later than 10:00 a.m. on the sixth calendar day following opening of, Price Proposals unless the sixth day falls on an official state holiday. In that situation, it is due in the office of the State Contractor Utilization Engineer no later than 10:00 a.m. on the next official state business day.

If the Proposer fails to submit the Letter of Intent from each committed MBE and WBE to be used toward the Combined MBE / WBE Goal, or if the form is incomplete (i.e. both signatures are not present), the MBE / WBE participation will not count toward meeting the Combined MBE / WBE Goal. If the lack of this participation drops the commitment below the Combined MBE / WBE Goal, the Design-Build Team shall submit evidence of good faith efforts for the Goal, completed in its entirety, to the State Contractor Utilization Engineer or DBE@ncdot.gov no later than 10:00 a.m. on the eighth calendar day following opening of Price Proposals, unless the eighth day falls on an official state holiday. In that situation, it is due in the office of the State Contractor Utilization Engineer no later than 10:00 a.m. on the next official state business day.

**Banking MBE / WBE Credit**

If the Price Proposal of the Proposer with the apparent adjusted low price exceeds \$500,000.00 and if the committed MBE / WBE participation submitted exceeds the algebraic sum of the Combined MBE / WBE Goal by \$1,000.00 or more, the excess will be placed on deposit by the Department for future use by the Proposer. Separate accounts will be maintained for MBE and WBE participation and these may accumulate for a period not to exceed 24 months.

When the Proposer with the apparent adjusted low price fails to submit sufficient participation by MBE and WBE firms to meet the contract Combined MBE / WBE Goal, as part of the good faith effort, the Department will consider allowing the Proposer to withdraw funds to meet the Combined MBE / WBE Goal, as long as there are adequate funds available from the Proposer's MBE and WBE bank accounts.

### **Submission of Good Faith Effort**

If the Proposer fails to meet or exceed the Combined MBE / WBE Goal, the Proposer with the apparent adjusted low price shall submit to the Department documentation of adequate good faith efforts made to reach the Combined MBE / WBE Goal.

A hard copy and an electronic copy of this information shall be received in the office of the State Contractor Utilization Engineer or at DBE@ncdot.gov no later than 10:00 a.m. on the sixth calendar day following opening of Price Proposals unless the sixth day falls on an official state holiday. In that situation, it would be due in the office of the State Contractor Utilization Engineer no later than 10:00 a.m. on the next official state business day. If the Design-Build Team cannot send the information electronically, then one complete set and five copies of this information shall be received under the same time constraints above.

Note: Where the information submitted includes repetitious solicitation letters, it will be acceptable to submit a representative letter along with a distribution list of the firms that were solicited. Documentation of MBE / WBE quotations shall be a part of the good faith effort submittal. This documentation may include written subcontractor quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

### **Consideration of Good Faith Effort for Projects with a Combined MBE / WBE Goal More Than Zero**

Adequate good faith efforts mean that the Proposer took all necessary and reasonable steps to achieve the Combined MBE / WBE Goal which, by their scope, intensity, and appropriateness, could reasonably be expected to obtain sufficient MBE / WBE participation. Adequate good faith efforts also mean that the Proposer actively and aggressively sought MBE / WBE participation. Mere *pro forma* efforts are not considered good faith efforts.

The Department will consider the quality, quantity, and intensity of the different kinds of efforts a Proposer has made. Listed below are examples of the types of actions a Proposer will take in making a good faith effort to meet the goals and are not intended to be exclusive or exhaustive, nor is it intended to be a mandatory checklist.

- (A) Soliciting through all reasonable and available means (e.g. attendance at pre-bid meetings, advertising, written notices, use of verifiable electronic means through the use of the NCDOT Directory of Transportation Firms) the interest of all certified MBEs / WBEs that are also prequalified subcontractors. The Proposer must solicit this interest within at least ten days prior to the opening of the Price Proposals to allow the MBEs / WBEs to respond to the solicitation. Solicitation shall provide the opportunity to MBEs /

WBEs within the Division and surrounding Divisions where the project is located. The Proposer must determine with certainty if the MBEs / WBEs are interested by taking appropriate steps to follow up initial solicitations.

- (B) Selecting portions of the work to be performed by MBEs / WBEs in order to increase the likelihood that the Combined MBE / WBE Goal will be achieved.
  - (1) Where appropriate, break out contract work items into economically feasible units to facilitate MBE / WBE participation, even when the Prime Contractor might otherwise prefer to perform these work items with its own forces.
  - (2) Negotiate with subcontractors to assume part of the responsibility to meet the contract Combined MBE / WBE Goal when the work to be sublet includes potential for MBE / WBE participation (2<sup>nd</sup> and 3<sup>rd</sup> tier subcontractors).
- (C) Providing interested certified MBEs / WBEs, that are also prequalified subcontractors, with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
- (D)
  - (1) Negotiating in good faith with interested MBEs / WBEs. It is the Proposer's responsibility to make a portion of the work available to MBE / WBE firms and suppliers and to select those portions of the work or material needs consistent with the available MBE / WBE subcontractors and suppliers, so as to facilitate MBE / WBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of MBEs / WBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for MBEs / WBEs to perform the work.
  - (2) A Proposer using good business judgment would consider a number of factors in negotiating with subcontractors, including MBE / WBE firms, and would take a firm's price and capabilities, as well as the contract Combined MBE / WBE Goal into consideration. However, the fact that there may be some additional costs involved in finding and using MBEs / WBEs is not in itself sufficient reason for a proposer's failure to meet the contract Combined MBE / WBE Goal, as long as such costs are reasonable. Also, the ability or desire of a Prime Contractor to perform the work of a contract with its own organization does not relieve the Proposer of the responsibility to make good faith efforts. Proposing Design-Build Teams are not, however, required to accept higher quotes from MBEs / WBEs if the price difference is excessive or unreasonable.
- (E) Not rejecting MBEs / WBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The Proposer's standing within its industry, membership in specific groups, organizations, or associates and political or social affiliations (for example, union vs. non-union employee status) are not legitimate causes

for the rejection or non-solicitation of Price Proposals in the Proposer's efforts to meet the project Goal.

- (F) Making efforts to assist interested MBEs / WBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Proposer.
- (G) Making efforts to assist interested MBEs / WBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (H) Effectively using the services of available minority / women community organizations; minority / women contractors' groups; Federal, State, and local minority / women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of MBEs / WBEs. Contact within seven days from the opening of the Price Proposals the Business Opportunity and Work Force Development Unit at BOWD@ncdot.gov to give notification of the Proposer's inability to get MBE or WBE quotes.
- (I) Any other evidence that the Proposer submits which shows that the Proposer has made reasonable good faith efforts to meet the contract Combined MBE / WBE Goal.

In addition, the Department may take into account the following:

- (1) Whether the Proposer's documentation reflects a clear and realistic plan for achieving the Combined MBE / WBE Goal.
- (2) The Proposers' past performance in meeting the contract goal.
- (3) The performance of other proposers in meeting the Combined MBE / WBE Goal. For example, when the Proposer with the apparent adjusted low price fails to meet the Combined MBE / WBE Goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts the Proposer with the apparent adjusted low price could have met the Goal. If the Proposer with the apparent adjusted low price fails to meet the Combined MBE / WBE Goal, but meets or exceeds the average MBE and WBE participation obtained by other proposers, the Department may view this, in conjunction with other factors, as evidence of the Proposer with the apparent adjusted low price having made a good faith effort.

If the Department does not award the contract to the Proposer with the apparent adjusted low price, the Department reserves the right to award the contract to the Proposer with the next apparent adjusted low price that can satisfy to the Department that the Combined MBE / WBE Goal can be met or that an adequate good faith effort has been made to meet the Combined MBE / WBE Goal.

### **Non-Good Faith Appeal**

The State Prequalification Engineer will notify the Design-Build Team verbally and in writing of non-good faith. A Design-Build Team may appeal a determination of non-good faith made by the Goal Compliance Committee. If a Design-Build Team wishes to appeal the determination made by the Committee, they shall provide written notification to the State Prequalification Engineer or at DBE@ncdot.gov. The appeal shall be made within two business days of notification of the determination of non-good faith.

### **Counting MBE / WBE Participation Toward Meeting the Combined MBE / WBE Goal**

(A) Participation

The total dollar value of the participation by a committed MBE / WBE will be counted toward the contract goal requirements. The total dollar value of participation by a committed MBE / WBE will be based upon the value of work actually performed by the MBE / WBE and the actual payments to MBE / WBE firms by the Design-Build Team.

(B) Joint Checks

Prior notification of joint check use shall be required when counting MBE / WBE participation for services or purchases that involves the use of a joint check. Notification shall be through submission of Form JC-1 (*Joint Check Notification Form*) and the use of joint checks shall be in accordance with the Department's Joint Check Procedures.

(C) Subcontracts (Non-Trucking)

A MBE / WBE firm may enter into subcontracts. Work that a MBE subcontracts to another MBE firm may be counted towards the anticipated MBE participation. The same holds true for work that a WBE subcontracts to another WBE firm. Work that a MBE / WBE subcontracts to a non-MBE / WBE firm does not count toward the contract goal requirement. It should be noted that every effort shall be made by MBE and WBE contractors to subcontract to the same certification (e.g. MBEs to MBEs and WBEs to WBEs), in order to fulfill the MBE or WBE participation breakdown. This, however, may not always be possible due to the limitation of firms in the area. If the MBE or WBE firm shows good faith effort has been made to reach out to similarly certified firms and there is no interest or availability, and they can get assistance from other certified firms, the Engineer will not hold the Prime Contractor responsible for meeting the individual MBE or WBE breakdown. If a MBE or WBE contractor or subcontractor subcontracts a significantly greater portion of the contract work than would be expected on the basis of standard industry practices, it shall be presumed that the MBE or WBE is not performing a commercially useful function.

## (D) Joint Venture

When a MBE or WBE performs as a participant in a joint venture, the Design-Build Team may count toward its contract goal requirement a portion of the total value of participation with the MBE or WBE in the joint venture, that portion of the total dollar value being a distinct clearly defined portion of work that the MBE or WBE performs with its forces.

## (E) Suppliers

A Design-Build Team may count toward its MBE or WBE requirement 60.0 percent of its expenditures for materials and supplies required to complete the contract and obtained from a MBE or WBE regular dealer and 100.0 percent of such expenditures from a MBE or WBE manufacturer.

## (F) Manufacturers and Regular Dealers

A Design-Build Team may count toward its MBE or WBE requirement the following expenditures to MBE / WBE firms that are not manufacturers or regular dealers:

- (1) The fees or commissions charged by a MBE / WBE firm for providing a *bona fide* service, such as professional, technical, consultant, or managerial services; or for providing bonds or insurance specifically required for the performance of a DOT-assisted contract, provided the fees or commissions are determined to be reasonable and not excessive as compared with fees and commissions customarily allowed for similar services.
- (2) With respect to materials or supplies purchased from a MBE / WBE, which is neither a manufacturer nor a regular dealer, count the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site (but not the cost of the materials and supplies themselves), provided the fees are determined to be reasonable and not excessive as compared with fees customarily allowed for similar services.

**Commercially Useful Function**

## (A) MBE / WBE Utilization

The Design-Build Team may count toward its contract goal requirement only expenditures to MBEs and WBEs that perform a commercially useful function in the work of a contract. A MBE / WBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the MBE / WBE shall also be responsible with respect to materials and supplies used on the contract, for negotiating price, determining



quality and quantity, ordering the material and installing (where applicable) and paying for the material itself. To determine whether a MBE / WBE is performing a commercially useful function, the Department will evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the contract is commensurate with the work it is actually performing and the MBE / WBE credit claimed for its performance of the work, and any other relevant factors. If it is determined that a MBE or WBE is not performing a Commercially Useful Function, the Design-Build Team may present evidence to rebut this presumption to the Department.

(B) MBE / WBE Utilization in Trucking

The following factors will be used to determine if a MBE or WBE trucking firm is performing a commercially useful function.

- (1) The MBE / WBE shall be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract, and there shall not be a contrived arrangement for the purpose of meeting the Combined MBE / WBE Goal.
- (2) The MBE / WBE shall itself own and operate at least one fully licensed, insured, and operational truck used on the contract.
- (3) The MBE / WBE receives credit for the total value of the transportation services it provides on the contract using trucks it owns, insures, and operates using drivers it employs.
- (4) The MBE may subcontract the work to another MBE firm, including an owner-operator who is certified as a MBE. The same holds true that a WBE may subcontract the work to another WBE firm, including an owner-operator who is certified as a WBE. When this occurs, the MBE or WBE who subcontracts work receives credit for the total value of the transportation services the subcontracted MBE or WBE provides on the contract. It should be noted that every effort shall be made by MBE and WBE contractors to subcontract to the same certification (i.e., MBEs to MBEs and WBEs to WBEs), in order to fulfill the participation breakdown. This, however, may not always be possible due to the limitation of firms in the area. If the MBE or WBE firm shows a good faith effort has been made to reach out to similarly certified transportation service providers and there is no interest or availability, and they can get assistance from other certified providers, the Engineer will not hold the Prime Contractor responsible for meeting the individual MBE or WBE participation breakdown.
- (5) The MBE / WBE may also subcontract the work to a non-MBE / WBE firm, including from an owner-operator. The MBE / WBE who subcontracts the work to a non-MBE / WBE is entitled to credit for the total value of transportation services provided by the non-MBE / WBE subcontractor not to exceed the value of transportation services provided by MBE / WBE-owned trucks on the contract.

Additional participation by non-MBE / WBE subcontractors receives credit only for the fee or commission it receives as a result of the subcontract arrangement. The value of services performed under subcontract agreements between the MBE / WBE and the Design-Build Team will not count towards the MBE / WBE contract requirement.

- (6) A MBE / WBE may lease truck(s) from an established equipment leasing business open to the general public. The lease must indicate that the MBE / WBE has exclusive use of and control over the truck. This requirement does not preclude the leased truck from working for others during the term of the lease with the consent of the MBE / WBE, so long as the lease gives the MBE / WBE absolute priority for use of the leased truck. This type of lease may count toward the MBE / WBE's credit as long as the driver is under the MBE / WBE's payroll.
- (7) Subcontracted / leased trucks shall display clearly on the dashboard the name of the MBE / WBE that they are subcontracted / leased to and their own company name if it is not identified on the truck itself. Magnetic door signs are not permitted.

### **MBE / WBE Replacement**

When a Design-Build Team has relied on a commitment to a MBE or WBE subcontractor (or an approved substitute MBE or WBE subcontractor) to meet all or part of a contract goal requirement, the Design-Build Team shall not terminate the MBE / WBE subcontractor for convenience. This includes, but is not limited to, instances in which the Design-Build Team seeks to perform the work of the terminated subcontractor with another MBE / WBE subcontractor, a non-MBE / WBE subcontractor, or with the Design-Build Team's own forces or those of an affiliate.

The Design-Build Team must give notice in writing both by certified mail and e-mail to the MBE / WBE subcontractor, with a copy to the Engineer of its intent to request to terminate and / or substitute, and the reason for the request. The Design-Build Team must give the MBE / WBE subcontractor five business days to respond to the Design-Build Team's notice of intent to request termination and / or substitution. If the MBE / WBE subcontractor objects to the intended termination / substitution, the MBE / WBE, within five business days, must advise the Design-Build Team and the Department of the reasons why the action should not be approved. The five-day notice period shall begin on the next business day after written notice is provided to the MBE / WBE subcontractor.

A committed MBE / WBE subcontractor may only be terminated after receiving the Department's written approval based upon a finding of good cause for the proposed termination and / or substitution. For purposes of this section, good cause shall include the following circumstances:

- (a) The listed MBE / WBE subcontractor fails or refuses to execute a written contract.

- (b) The listed MBE / WBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the MBE / WBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the Prime Contractor.
- (c) The listed MBE / WBE subcontractor fails or refuses to meet the Prime Contractor's reasonable, nondiscriminatory bond requirements.
- (d) The listed MBE / WBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness.
- (e) The listed MBE / WBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to 2 CFR Parts 180, 215 and 1,200 or applicable state law.
- (f) The listed MBE / WBE subcontractor is not a responsible contractor.
- (g) The listed MBE / WBE subcontractor voluntarily withdraws from the Design-Build Team and provides written notice of withdrawal.
- (h) The listed MBE / WBE subcontractor is ineligible to receive MBE / WBE credit for the type of work required.
- (i) An MBE / WBE owner dies or becomes disabled with the result that the listed MBE / WBE subcontractor is unable to complete its work on the contract.
- (j) Other documented good cause that compels the termination of the MBE / WBE subcontractor. Provided, that good cause does not exist if the Prime Contractor seeks to terminate an MBE / WBE it relied upon to obtain the contract so that the Prime Contractor can self-perform the work for which the MBE / WBE subcontractor was engaged or so that the Prime Contractor can substitute another MBE / WBE or non-MBE / WBE subcontractor after contract award.

The Design-Build Team shall comply with the following for replacement of a committed MBE / WBE firm:

(A) Performance Related Replacement

When a committed MBE / WBE is terminated for good cause as stated above, an additional MBE / WBE that was submitted at the time the Price Proposal was submitted may be used to fulfill the MBE / WBE commitment to meet the Combined MBE / WBE Goal. A good faith effort will only be required for removing a committed MBE / WBE if there were no additional MBEs / WBEs submitted at the time the Price Proposal was submitted to cover the same amount of work as the MBE / WBE that was terminated.

If a replacement MBE / WBE is not found that can perform at least the same amount of work as the terminated MBE / WBE, the Design-Build Team shall submit a good faith effort documenting the steps taken. Such documentation shall include, but not be limited to, the following:

- (1) Copies of written notification to MBE / WBE that their interest is solicited in contracting the work defaulted by the previous MBE / WBE or in subcontracting other items of work in the contract.
  - (2) Efforts to negotiate with MBE / WBE for specific subbids including, at a minimum:
    - (a) The names, addresses, and telephone numbers of MBE / WBE who were contacted.
    - (b) A description of the information provided to MBE / WBE regarding the plans and specifications for portions of the work to be performed.
  - (3) A list of reasons why MBE / WBE quotes were not accepted.
  - (4) Efforts made to assist the MBEs / WBEs contacted, if needed, in obtaining bonding or insurance required by the Design-Build Team.
- (B) Decertification Replacement
- (1) When a committed MBE / WBE is decertified by the Department after the SAF (*Subcontract Approval Form*) has been received by the Department, the Department will not require the Design-Build Team to solicit replacement MBE / WBE participation equal to the remaining work to be performed by the decertified firm. The participation equal to the remaining work performed by the decertified firm will count toward the contract goal requirement.
  - (2) When a committed MBE / WBE is decertified prior to the Department receiving the SAF (*Subcontract Approval Form*) for the named MBE / WBE firm, the Design-Build Team shall take all necessary and reasonable steps to replace the MBE / WBE subcontractor with another similarly certified MBE / WBE subcontractor to perform at least the same amount of work to meet the Combined MBE / WBE Goal requirement. If a MBE / WBE firm is not found to do the same amount of work, a good faith effort must be submitted to NCDOT (See A herein for required documentation).
  - (3) Exception: If the MBE / WBE's ineligibility is caused solely by its having exceeded the size standard during the performance of the contract, the Department will not require the Design-Build Team to solicit replacement MBE / WBE participation equal to the remaining work to be performed by the decertified firm. The participation equal to the remaining work performed by the decertified firm

will count toward the contract goal requirement and Department's overall race-neutral goals.

All requests for replacement of a committed MBE / WBE firm shall be submitted to the Engineer for approval on Form RF-1 (DBE Replacement Request). If the Prime Contractor or any affiliated companies within the Design-Build Team fails to follow this procedure they may be disqualified from further bidding for a period of up to six months.

### **Changes in the Work**

When the Engineer makes changes that result in the reduction or elimination of work to be performed by a committed MBE / WBE, the Design-Build Team will not be required to seek additional participation. When the Engineer makes changes that result in additional work to be performed by a MBE / WBE based upon the Design-Build Team's commitment, the MBE / WBE shall participate in additional work to the same extent as the MBE / WBE participated in the original contract work.

When the Engineer makes changes that result in extra work, which has more than a minimal impact on the contract amount, the Design-Build Team shall seek additional participation by MBEs / WBEs unless otherwise approved by the Engineer.

When the Engineer makes changes that result in an alteration of plans or details of construction, and a portion or all of the work had been expected to be performed by a committed MBE / WBE, the Design-Build Team shall seek participation by MBEs / WBEs unless otherwise approved by the Engineer.

When the Design-Build Team requests changes in the work that result in the reduction or elimination of work that the Design-Build Team committed to be performed by a MBE / WBE, the Design-Build Team shall seek additional participation by MBEs / WBEs equal to the reduced MBE / WBE participation caused by the changes.

### **Reports and Documentation**

A SAF (*Subcontract Approval Form*) shall be submitted for all work which is to be performed by a MBE / WBE subcontractor. The Department reserves the right to require copies of actual subcontract agreements involving MBE / WBE subcontractors.

When using transportation services to meet the contract commitment, the Design-Build Team shall submit a proposed trucking plan in addition to the SAF. The plan shall be submitted prior to beginning construction on the project. The plan shall include the names of all trucking firms proposed for use, their certification type(s), the number of trucks owned by the firm, as well as the individual truck identification numbers, and the line item(s) being performed.

Within 30 calendar days of entering into an agreement with a MBE / WBE for materials, supplies or services, not otherwise documented by the SAF as specified above, the Design-Build

Team shall furnish the Engineer a copy of the agreement. The documentation shall also indicate the percentage (60.0% or 100.0%) of expenditures claimed for MBE / WBE credit.

### **Reporting Minority and Women Business Enterprise Participation**

The Design-Build Team shall provide the Engineer with an accounting of payments made to all MBE / WBE firms, including material suppliers and contractors at all levels (prime, subcontractor, or second tier subcontractor). This accounting shall be furnished to the Engineer for any given month by the end of the following month. Failure to submit this information accordingly may result in the following action:

- (A) Withholding of money due in the next partial pay estimate; or
- (B) Removal of an approved Prime Contractor, or other affiliated companies within the Design-Build Team, from the prequalified bidders' list or the removal of other entities from the approved subcontractors list.

While each contractor (prime, subcontractor, 2<sup>nd</sup> tier subcontractor) is responsible for accurate accounting of payments to MBEs / WBEs, it shall be the Prime Contractor's responsibility to report all monthly and final payment information in the correct reporting manner.

Failure on the part of the Design-Build Team to submit the required information in the time frame specified may result in the disqualification of that Prime Contractor and any affiliate companies within the Design-Build Team from further bidding until the required information is submitted.

Failure on the part of any subcontractor to submit the required information in the time frame specified may result in the disqualification of that Prime Contractor and any affiliate companies within the Design-Build Team from being approved for work on future DOT projects until the required information is submitted.

Design-Build Teams reporting transportation services provided by non-MBE / WBE lessees shall evaluate the value of services provided during the month of the reporting period only.

At any time, the Engineer can request written verification of subcontractor payments.

The Design-Build Team shall report the accounting of payments through the Department's Payment Tracking System.

### **Failure to Meet Contract Requirements**

Failure to meet contract requirements in accordance with Subarticle 102-15(J) of the 2018 *Standard Specifications for Roads and Structures* may cause to disqualify the Prime Contractor or any other affiliated company within the Design-Build Team from further bidding for a specified length of time.

**RESOURCE CONSERVATION AND ENVIRONMENTALLY SUSTAINABLE PRACTICES**

(3/27/13) (Rev. 4-16-15)

104-13

DB1 G118

In accordance with North Carolina Executive Order 156, NCGS 130A-309.14(3), and NCGS 136-28.8, it is the objective of the Department to aid in the reduction of materials that become a part of our solid waste stream, to divert materials from landfills, to find ways to recycle and reuse materials, to consider and minimize, where economically feasible, the environmental impacts associated with agency land use and acquisition, construction, maintenance and facility management for the benefit of the Citizens of North Carolina.

To achieve the mission of reducing environmental impacts across the state, the Department is committed to supporting the efforts to initiate, develop and use products and construction methods that incorporate the use of recycled, solid waste products and environmentally sustainable practices in accordance with Article 104-13 of the 2018 *Standard Specifications for Roads and Structures*.

Report the quantities of reused or recycled materials either incorporated in the project or diverted from landfills and any practice that minimizes the environmental impact on the project annually on the Project Construction Reuse and Recycling Reporting Form. The Project Construction Reuse and Recycling Reporting Form and a location tool for local recycling facilities are available at:

<http://connect.ncdot.gov/resources/Environmental/Pages/North-Carolina-Recycling-Locations.aspx>.

Submit the Project Construction Reuse and Recycling Reporting Form by August 1<sup>st</sup> annually to [valuemanagementunit@ncdot.gov](mailto:valuemanagementunit@ncdot.gov). For questions regarding the form or reporting, please contact the State Value Management Engineer at 919-707-4810.

**CONTRACTOR'S LICENSE REQUIREMENTS**

(7-1-95)

DB1 G88

If the Design-Build Team does not hold the proper license to perform any plumbing, heating, air conditioning, or electrical work in this contract, he shall sublet such work to a contractor properly licensed in accordance with Article 2 of Chapter 87 of the General Statutes (licensing of heating, plumbing, and air conditioning contractors) and Article 4 of Chapter 87 of the General Statutes (licensing of electrical contractors).

**USE OF UNMANNED AIRCRAFT SYSTEM (UAS)**

(7-1-19)

DB1 G092

The Design-Build Team shall adhere to all Federal, State and Local regulations and guidelines for the use of Unmanned Aircraft Systems (UAS). This includes, but is not limited to, US 14 CFR Part 107 *Small UAS Rule*, NC GS 15A-300.2 *Regulation of launch and recovery sites*, NC GS 63-95 *Training required for the operation of unmanned aircraft systems*, NC GS 63-96 *Permit required for commercial operation of unmanned aircraft system*, and NCDOT UAS Policy. The required operator certifications include possessing a current Federal Aviation Administration (FAA) Remote Pilot Certificate, a NC UAS Operator Permit, as well as operating a UAS registered with the FAA.

Prior to beginning operations, the Design-Build Team shall complete the NCDOT UAS - Flight

Operation Approval Form and submit it to the Engineer for approval. All UAS operations shall be approved by the Engineer, in writing, prior to beginning the operations.

All Design-Build team members operating UAS shall have UAS specific general liability insurance to cover all operations under this contract.

The use of UAS shall be at the Design-Build Team’s discretion. Except as allowed otherwise below, no measurement or payment will be made for the use of UAS. In the event that the Department directs the Design-Build Team to utilize UAS, all costs associated with using UAS will be paid for as extra work, in accordance with Subarticle 104-8(A) of the *Standard Specifications for Roads and Structures*.

**SUBSURFACE INFORMATION**

(10-2-20)

DB1 G119

Available subsurface information will be provided on this project. The Design-Build Team shall be responsible for additional investigations and for verifying the accuracy of the subsurface information supplied by the Department.

**ELECTRONIC BIDDING:**

(2-19-19)

101, 102, 103

SP1 G140

Revise the *2018 Standard Specifications* as follows:

**Page 1-4, Article 101-3, DEFINITIONS, BID (OR PROPOSAL) *Electronic Bid*, line 1**, replace “Bid Express®” with “the approved electronic bidding provider”.

**Page 1-15, Subarticle 102-8(B), Electronic Bids, lines 39-40**, replace “to Bid Express®” with “via the approved electronic bidding provider”.

**Page 1-15, Subarticle 102-8(B)(1), Electronic Bids, line 41**, delete “from Bid Express®”

**Page 1-17, Subarticle 102-9(C)(2), Electronic Bids, line 21**, replace “Bid Express® miscellaneous folder within the .ebs” with “electronic submittal”.

**Page 1-29, Subarticle 103-4(C)(2), Electronic Bids, line 32**, replace “.ebs miscellaneous data file of Expedite” with “electronic submittal file”

**TWELVE MONTH GUARANTEE**

(7-15-03)

DB1 G145

(A) The Design-Build Team shall guarantee materials and workmanship against latent and patent defects arising from faulty materials, faulty workmanship or negligence for a period of twelve months following the date of final acceptance of the work at each bridge site for maintenance and shall replace such defective materials and workmanship without cost to the Department. The Design-Build Team will not be responsible for damage due to normal wear and tear, for negligence on the part of the Department, and / or for use in excess of the design.

(B) Where items of equipment or material carry a manufacturer’s guarantee for any period in



excess of twelve months, then the manufacturer’s guarantee shall apply for that particular piece of equipment or material. The Department’s first remedy shall be through the manufacturer although the Design-Build Team shall be responsible for invoking the warranted repair work with the manufacturer. The Design-Build Team’s responsibility shall be limited to the term of the manufacturer’s guarantee. NCDOT would be afforded the same warranty as provided by the Manufacturer.

This guarantee provision shall be invoked only for major components of work in which the Design-Build Team would be wholly responsible for under the terms of the contract. Examples would include pavement structures, bridge components, and sign structures. This provision will not be used as a mechanism to force the Design-Build Team to return to the project to make repairs or perform additional work that the Department would normally compensate the Design- Build Team for. In addition, routine maintenance activities (i.e. mowing grass, debris removal, ruts in earth shoulders,) are not parts of this guarantee.

Appropriate provisions of the payment and / or performance bonds shall cover this guarantee for the project. In addition, failure on the part of the responsible entity(ies) of the Design-Build Team to perform guarantee work within the terms of this provision shall be just cause to remove the responsible entity(ies) from the Department’s corresponding prequalified list. The Design- Build Team will be removed for a minimum of 6 months and will be reinstated only after all work has been corrected and the Design-Build Team requests reinstatement in writing.

To ensure uniform application statewide the Division Engineer will forward details regarding the circumstances surrounding any proposed guarantee repairs to the Chief Engineer for review and approval prior to the work being performed.

**OUTSOURCING OUTSIDE THE USA**

(9-21-04) (Rev. 5-16-06)

DB1 G150

All work on consultant contracts, services contracts, and construction contracts shall be performed in the United States of America. No work shall be outsourced outside of the United States of America.

*Outsourcing* for the purpose of this provision is defined as the practice of subcontracting labor, work, services, staffing, or personnel to entities located outside of the United States.

The North Carolina Secretary of Transportation shall approve exceptions to this provision in writing.

**PERMANENT VEGETATION ESTABLISHMENT**

(6-11-15) (Rev. 8-30-17)

104

DB01 G160

Establish permanent vegetation stands of the Long Term Stabilization mixtures identified in the Erosion and Sedimentation Control Scope of Work found elsewhere in this RFP. During the period between initial vegetation planting and final project acceptance, perform all work necessary to establish 80% coverage of permanent vegetation within the project limits, as well as, in borrow and waste pits. This work shall include erosion control device maintenance and installation, repair seeding and mulching, supplemental seeding and mulching, mowing, and fertilizer topdressing, as directed. All work shall be performed in accordance with the Erosion and Sedimentation Control Scope of Work found elsewhere

in this RFP and the applicable sections of the 2018 *Standard Specifications for Roads and Structures*.

Once the Engineer has determined that 80% coverage of permanent vegetation has been established, the Design-Build Team will be notified to remove the remaining erosion control devices that are no longer needed. The Design-Build Team shall be responsible for, and shall correct, any areas disturbed by operations performed in permanent vegetation establishment and the removal of temporary erosion control measures, whether occurring prior to or after placing traffic on the project.

### **EROSION & SEDIMENT CONTROL / STORMWATER CERTIFICATION**

(1-16-07) (Rev. 9-20-16)

105-16, 225-2, 16

DB1 G180

#### **General**

Schedule and conduct construction activities in a manner that will minimize soil erosion and the resulting sedimentation and turbidity of surface waters. Comply with the requirements herein regardless of whether or not a National Pollutant Discharge Elimination System (NPDES) permit for the work is required.

Establish a chain of responsibility for operations and subcontractors' operations to ensure that the *Erosion and Sediment Control / Stormwater Pollution Prevention Plan* is implemented and maintained over the life of the contract.

- (A) *Certified Supervisor* – Provide a certified Erosion and Sediment Control / Stormwater (E&SC/SW) Supervisor to manage the Design-Build Team and subcontractor(s) operations, ensure compliance with Federal, State and Local ordinances and regulations, and manage the Quality Control Program.
- (B) *Certified Foreman* – Provide a certified, trained foreman for each construction operation that increases the potential for soil erosion or the possible sedimentation and turbidity of surface waters.
- (C) *Certified Installer* – Provide a certified installer to install or direct the installation for erosion or sediment / stormwater control practices.
- (D) *Certified Designer* – Provide a certified designer for the design of the erosion and sediment control / stormwater component of reclamation plans and, if applicable, for the design of the project erosion and sediment control / stormwater plan.

#### **Roles and Responsibilities**

- (A) *Certified Erosion and Sediment Control / Stormwater Supervisor* - The Certified Supervisor shall be Level II and shall be responsible for ensuring the erosion and sediment control / stormwater plan is adequately implemented and maintained on the project and for conducting the quality control program. The Certified Supervisor shall be on the project within 24 hours notice from initial exposure of an erodible surface to the project's final acceptance. The Certified Supervisor shall perform the following duties:
  - (1) **Manage Operations** - Coordinate and schedule the work of subcontractors so that erosion and sediment control / stormwater measures are fully executed for each operation and in a timely manner over the duration of the contract.

- (a) Oversee the work of subcontractors so that appropriate erosion and sediment control / stormwater preventive measures are conformed to at each stage of the work.
  - (b) Prepare the required National Pollutant Discharge Elimination System (NPDES) Inspection Record and submit to the Engineer.
  - (c) Attend all weekly or monthly construction meetings to discuss the findings of the NPDES inspection and other related issues.
  - (d) Implement the erosion and sediment control / stormwater site plans requested.
  - (e) Provide any needed erosion and sediment control / stormwater practices for the Design-Build Team's temporary work not shown on the plans developed by the Design-Build Team, such as, but not limited to work platforms, temporary construction, pumping operations, plant and storage yards, and cofferdams.
  - (f) Acquire applicable permits and comply with requirements for borrow pits, dewatering, and any temporary work conducted by the Design-Build Team in jurisdictional areas.
  - (g) Conduct all erosion and sediment control / stormwater work in a timely and workmanlike manner.
  - (h) Fully perform and install erosion and sediment control / stormwater work prior to any suspension of the work.
  - (i) Coordinate with Department, Federal, State and Local Regulatory agencies on resolution of erosion and sediment control / stormwater issues due to the Design-Build Team's operations.
  - (j) Ensure that proper cleanup occurs from vehicle tracking on paved surfaces and / or any location where sediment leaves the right of way.
  - (k) Have available a set of erosion and sediment control / stormwater plans that are initialed and include the installation date of Best Management Practices. These practices shall include temporary and permanent groundcover and be properly updated to reflect necessary plan and field changes for use and review by Department personnel, as well as regulatory agencies.
- (2) Requirements set forth under the NPDES Permit – The Department's NPDES Stormwater Permit (NCS000250) outlines certain objectives and management measures pertaining to construction activities. The permit references *NCG010000, General Permit to Discharge Stormwater* under the NPDES, and states that the Department shall incorporate the applicable requirements into its delegated Erosion and Sediment Control Program for construction activities disturbing one or more acres of land. The Department further incorporates these requirements on all contracted bridge and culvert work at jurisdictional waters, regardless of size. Some of the requirements shall be, but are not limited to:
- (a) Control project site waste to prevent contamination of surface or ground waters of the state, e.g. from equipment operations / maintenance construction materials, concrete washout, chemicals, litter, fuels, lubricants, coolants, hydraulic fluids, any other petroleum products, and sanitary waste.
  - (b) Inspect erosion and sediment control / stormwater devices and stormwater discharge outfalls at least once every 7 calendar days, and within 24 hours after a rainfall event of 0.5 inch, or greater, that occurs within a 24-hour

period. At the discretion of Division of Water Resources personnel, additional monitoring may be required if the receiving stream is 303(d) listed for turbidity and the project has had documented problems managing turbidity.

- (c) Maintain an onsite rain gauge or use the Department's Multi-Sensor Precipitation Estimate website to maintain a daily record of rainfall amounts and dates.
  - (d) Maintain erosion and sediment control / stormwater inspection records for review by Department and Regulatory personnel upon request.
  - (e) Implement approved reclamation plans on all borrow pits, waste sites and staging areas.
  - (f) Maintain a log of turbidity test results as outlined in the Department's Procedure for Monitoring Borrow Pit Discharge.
  - (g) Provide secondary containment for bulk storage of liquid materials.
  - (h) Provide training for employees concerning general erosion and sediment control / stormwater awareness, the Department's NPDES Stormwater Permit NCS000250 requirements, and the applicable requirements of the *General Permit, NCG010000*.
  - (i) Report violations of the NPDES Permit to the Engineer immediately who will notify the NC Department of Environmental Quality Regional Office within 24 hours of becoming aware of the violation.
- (3) Quality Control Program - Maintain a quality control program to control erosion, prevent sedimentation and follow provisions / conditions of permits. The quality control program shall:
- (a) Follow permit requirements related to the Design-Build Team and subcontractors' construction activities.
  - (b) Ensure that all operators and / or subcontractor(s) on site have the proper erosion and sediment control / stormwater certification.
  - (c) Notify the Engineer when the required certified erosion and sediment control / stormwater personnel are not available on the job site when needed.
  - (d) Conduct the inspections required by the NPDES Permit.
  - (e) Take corrective actions in the proper timeframe as required by the NPDES Permit for problem areas identified during the NPDES inspections.
  - (f) Incorporate erosion control into the work in a timely manner and stabilize disturbed areas with mulch / seed or vegetative cover on a section-by-section basis.
  - (g) Use flocculants approved by state regulatory authorities where appropriate and where required for turbidity and sedimentation reduction.
  - (h) Ensure proper installation and maintenance of temporary erosion and sediment control devices.
  - (i) Remove temporary erosion or sediment control devices when they are no longer necessary as agreed upon by the Engineer.
  - (j) The Design-Build Team's quality control and inspection procedures shall be subject to review by the Engineer. Maintain NPDES inspection records and make records available at all times for verification by the Engineer.
- (B) *Certified Foreman* - At least one Certified Foreman shall be onsite for each type of work

listed herein during the respective construction activities to control erosion, prevent sedimentation and follow permit provisions:

- (1) Foreman in charge of grading activities
- (2) Foreman in charge of bridge or culvert construction over jurisdictional areas
- (3) Foreman in charge of utility activities

The Design-Build Team may request to use the same person as the Level II Supervisor and Level II Foreman. This person shall be onsite whenever construction activities as described above are taking place. This request shall be approved by the Engineer prior to work beginning.

The Design-Build Team may request to name a single Level II Foreman to oversee multiple construction activities on small bridge or culvert replacement projects. This request shall be approved by the Engineer prior to work beginning.

- (C) *Certified Installers* - Provide at least one onsite, Level I Certified Installer for each of the following erosion and sediment control / stormwater crew:

- (1) Seeding and Mulching
- (2) Temporary Seeding
- (3) Temporary Mulching
- (4) Sodding
- (5) Silt fence or other perimeter erosion / sediment control device installations
- (6) Erosion control blanket installation
- (7) Hydraulic tackifier installation
- (8) Turbidity curtain installation
- (9) Rock ditch check / sediment dam installation
- (10) Ditch liner / matting installation
- (11) Inlet protection
- (12) Riprap placement
- (13) Stormwater BMP installations (such as but not limited to level spreaders, retention / detention devices)
- (14) Pipe installations within jurisdictional areas

If a Level I *Certified Installer* is not onsite, the Design-Build Team may substitute a Level II Foreman for a Level I Installer, provided the Level II Foreman is not tasked to another crew requiring Level II Foreman oversight.

- (D) *Certified Designer* – Include the certification number of the Level III-B Certified Designer on the erosion and sediment control / stormwater component of all reclamation plans and if applicable, the certification number of the Level III-A Certified Designer on the design of the project erosion and sediment control / stormwater plan.

### **Preconstruction Meeting**

Furnish the names of the *Certified Erosion and Sediment Control / Stormwater Supervisor, Certified Foremen, Certified Installers and Certified Designers* and notify the Engineer, in writing, of changes in certified personnel over the life of the contract within two days of change.

**Ethical Responsibility**

Any company performing work for the North Carolina Department of Transportation has the ethical responsibility to fully disclose any reprimand or dismissal of an employee resulting from improper testing or falsification of records.

**Revocation or Suspension of Certification**

Upon recommendation of the Chief Engineer to the certification entity, certification for Supervisor, Certified Foremen, Certified Installers and Certified Designer may be revoked or suspended with the issuance of an Immediate Corrective Action (ICA), Notice of Violation (NOV), or Cease and Desist Order for erosion and sediment control / stormwater related issues.

The Chief Engineer may recommend suspension or permanent revocation of certification due to the following:

- (A) Failure to adequately perform the duties as defined within this certification provision
- (B) Issuance of an ICA, NOV, or Cease and Desist Order
- (C) Failure to fully perform environmental commitments as detailed within the permit conditions and specifications
- (D) Demonstration of erroneous documentation or reporting techniques
- (E) Cheating or copying another candidate’s work on an examination
- (F) Intentional falsification of records
- (G) Directing a subordinate under direct or indirect supervision to perform any of the above actions
- (H) Dismissal from a company for any of the above reasons
- (I) Suspension or revocation of one’s certification by another entity

Suspension or revocation of a certification will be sent by certified mail to the certificant and the Corporate Head of the company that employs the certificant.

A certificant has the right to appeal any adverse action which results in suspension or permanent revocation of certification by responding, in writing, to the Chief Engineer within ten calendar days after receiving notice of the proposed adverse action.

Chief Engineer  
 1536 Mail Service Center  
 Raleigh, NC 27699-1536

Failure to appeal within ten calendar days shall result in the proposed adverse action becoming effective on the date specified on the certified notice. Failure to appeal within the time specified shall result in a waiver of all future appeal rights regarding the adverse action taken. The certificant will not be allowed to perform duties associated with the certification during the appeal process. The Chief Engineer will hear the appeal and make a decision within seven days of hearing the appeal. The decision of the Chief Engineer shall be final and will be made in writing to the certificant.

If a certification is temporarily suspended, the certificant shall pass any applicable written examination and any proficiency examination, at the conclusion of the specified suspension period, prior to having the certification reinstated.

**Measurement and Payment**

*Certified Erosion and Sediment Control / Stormwater Supervisor, Certified Foremen, Certified Installers and Certified Designer* will be incidental to the project for which no direct compensation will be made.

**PROCEDURE FOR MONITORING BORROW PIT DISCHARGE**

(1-22-13) (Rev. 9-7-17)

DB1 G181

Water discharge from borrow pit sites shall not cause surface waters to exceed 50 NTUs (nephelometric turbidity unit) in streams not designated as trout waters and 10 NTUs in streams, lakes or reservoirs designated as trout waters. For lakes and reservoirs not designated as trout waters, the turbidity shall not exceed 25 NTUs. If the turbidity exceeds these levels due to natural background conditions, the existing turbidity level shall not be increased.

If during any operating day, the downstream water quality exceeds the standard, the Design-Build Team shall do all of the following:

- (A) Either cease discharge or modify the discharge volume or turbidity levels to bring the downstream turbidity levels into compliance, or
- (B) Evaluate the upstream conditions to determine if the exceedance of the standard is due to natural background conditions. If the background turbidity measurements exceed the standard, operation of the pit and discharge can continue as long as the stream turbidity levels are not increased due to the discharge.
- (C) Measure and record the turbidity test results (time, date and sampler) at all defined sampling locations 30 minutes after startup and at a minimum, one additional sampling of all sampling locations during that 24-hour period in which the borrow pit is discharging.
- (D) Notify DWR within 24 hours of any stream turbidity standard exceedances that are not brought into compliance.

During the Environmental Assessment required by Article 230-4 of the 2018 *Standard Specifications for Roads and Structures*, the Design-Build Team shall define the point at which the discharge enters into the State’s surface waters and the appropriate sampling locations. Sampling locations shall include points upstream and downstream from the point at which the discharge enters these waters. Upstream sampling location shall be located so that it is not influenced by backwater conditions and represents natural background conditions. Downstream sampling location shall be located at the point where complete mixing of the discharge and receiving water has occurred.

The discharge shall be closely monitored when water from the dewatering activities is introduced into jurisdictional wetlands. Any time visible sedimentation (deposition of sediment) on the wetland surface is observed, the dewatering activity will be suspended until turbidity levels in the stilling basin can be reduced to a level where sediment deposition does not occur. Staining of wetland surfaces from suspended clay particles, occurring after evaporation or infiltration, does not constitute sedimentation. No activities shall occur in

wetlands that adversely affect the functioning of a wetland. Visible sedimentation will be considered an indication of possible adverse impacts on wetland use.

The Engineer will perform independent turbidity tests on a random basis. These results will be maintained in a log within the project records. Records will include, at a minimum, turbidity test results, time, date and name of sampler. Should the Department’s test results exceed those of the Design-Build Team’s test results, an immediate test shall be performed jointly with the results superseding the previous test results of both the Department and the Design-Build Team.

To plan, design, construct, and maintain BMPs to address water quality standards, the Design- Build Team shall use the NCDOT *Turbidity Reduction Options for Borrow Pits Matrix*, available at the website noted below:

<https://connect.ncdot.gov/resources/roadside/FieldOperationsDocuments/TurbidityReductionOptionSheet.pdf>

Tier I Methods include stilling basins which are standard compensatory BMPs. Other Tier I methods are noncompensatory and shall be used when needed to meet the stream turbidity standards. Tier II Methods are also noncompensatory and are options that may be needed for protection of rare or unique resources or where special environmental conditions exist at the site which have led to additional requirements being placed in the DWR’s 401 Certifications and approval letters, Isolated Wetland Permits, Riparian Buffer Authorization or a DOT Reclamation Plan’s Environmental Assessment for the specific site. Should the Design-Build Team exhaust all Tier I Methods on a site exclusive of rare or unique resources or special environmental conditions, Tier II Methods may be required by regulators on a case by case basis per supplemental agreement.

The Design-Build Team may use cation exchange capacity (CEC) values from proposed site borings to plan and develop the Price Proposal for the project. CEC values exceeding 15 milliequivalents per 100 grams of soil may indicate a high potential for turbidity and should be avoided when dewatering into surface water is proposed.

No additional compensation for monitoring borrow pit discharge will be paid.

**CLEARING AND GRUBBING**

(9-1-11) (Rev. 8-18-15)

DB2 R01

With the exception of areas with Permanent Utility Easements, the Design-Build Team shall perform clearing on this project to the limits established by Method “III” as shown on Standard No. 200.03 of the January 2018 NCDOT *Roadway Standard Drawings*. In areas with Permanent Utility Easements, clearing shall extend to the proposed right of way limits.

**CULVERT PIPE**

(7-1-19)(Rev. 4-26-22)

305, 310

DB3 R35

Revise the 2018 *Standard Specifications for Roads and Structures* as follows:

**Page 3-5, Article 305-1 DESCRIPTION, Lines 12 - 14**, replace with the following:

Where shown in the plans developed by the Design-Build Team, the Design-Build Team



may use reinforced concrete pipe, aluminum alloy pipe, aluminized corrugated steel pipe, galvanized corrugated steel pipe, HDPE pipe, polypropylene pipe, or PVC pipe in accordance with the following requirements.

**Page 3-5, Article 305-2 MATERIALS**, add the following after **Line 16**:

<b>Item</b>	<b>Section</b>
Polypropylene Pipe	1032-9
Galvanized Corrugated Steel Pipe	1032-3

**Page 3-6, Article 310-2 MATERIALS**, add the following after **Line 9**:

<b>Item</b>	<b>Section</b>
Polypropylene Pipe	1032-9
Galvanized Corrugated Steel Pipe	1032-3

**Page 3-6, Article 310-4 SIDE DRAIN PIPE, Lines 24 - 25**, replace the first sentence of the second paragraph with the following:

Where shown in the plans developed by the Design-Build Team, side drain pipe may be Class II reinforced concrete pipe, aluminized corrugated steel pipe, galvanized corrugated steel pipe, corrugated aluminum alloy pipe, polypropylene pipe, HDPE pipe or PVC pipe.

**Page 3-7, Article 310-5 PIPE END SECTIONS, Lines 2 - 4**, replace the second sentence with the following:

Both corrugated steel and concrete pipe end sections will work on concrete pipe, corrugated steel pipe, polypropylene pipe, and HDPE smooth lined corrugated plastic pipe.

**Page 10-60, add Article 1032-9:**

**(A) General**

Use polypropylene pipe from sources participating in the Department’s Polypropylene Pipe QA / QC Program. A list of participating sources is available from the Materials and Tests Unit. The Department will remove a manufacturer of polypropylene pipe from this program if the monitoring efforts indicated that non-specification material is being provided or test procedures are not being followed.

Use polypropylene pipe that meets AASHTO M 330 for Type S or Type D, or ASTM F2881 or ASTM F2764 Double or Triple wall; and has been evaluated by NTPEP.

**(B) End Treatments, Pipe Tees and Elbows**

End treatments, pipe tees and elbows shall meet AASHTO M 330, Section 7.7, or ASTM F2764, Section 6.6.

**(C) Marking**

Clearly mark each section of pipe, end section, tee and elbow and other accessories according to the Department’s Polypropylene Pipe QA / QC Program:

- (1) AASHTO or ASTM designation
- (2) The date of manufacture
- (3) Name or trademark of the manufacturer

When polypropylene pipe, end sections, tees and elbows have been inspected and accepted a sticker shall be applied to the inside of the pipe. Do not use pipe sections, flared end sections, tees or elbows that do not have this seal of approval.

**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, Aluminized Corrugated Steel 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, Aluminized Corrugated Steel 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).

**BRIDGE APPROACH FILLS - GEOTEXTILE**

(4-26-22)

DB4 R03

Place a single layer of Type 5 Geotextile one foot below the approach slab for the full width and length of the approach fill. Type 5 Geotextile shall meet the requirements of Section 1056 of the 2018 *Standard Specifications for Roads and Structures*. This revision applies to the 2018 Roadway Standard Drawing Nos. 422.01, 422.02, 422.03 and Detail in Lieu of Standard Drawing No. 422DO10.

**PRICE ADJUSTMENTS FOR ASPHALT BINDER**

(9-1-11) (Rev. 9-8-17)

DB6 R25

Price adjustments for asphalt binder for plant mix will be made in accordance with Section 620 of the 2018 *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 **\$ 720.00**

This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on **October 1, 2022**.

**PRICE ADJUSTMENTS - ASPHALT CONCRETE PLANT MIX**

(9-1-11) (Rev. 9-8-17)

DB6 R26

Revise the 2018 *Standard Specifications for Roads and Structures* as follows:

**Page 6-15, Article 609-11 and Page 6-31, Article 610-14**

Add the following paragraph before the first paragraph:

The “Asphalt Price” used to calculate any price adjustments set forth in this section shall be \$40.00 per theoretical ton. This price shall apply for all mix types.

**ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES**

04/07/16

DBI 40

**Inspection for Asbestos Containing Material**

Prior to conducting bridge demolition or renovation activities, the Design-Build Team shall thoroughly inspect the bridge or affected components for the presence of asbestos containing material (ACM) using a firm prequalified by NCDOT to perform asbestos surveys. The inspection must be performed by a N.C. accredited asbestos inspector with experience inspecting bridges or other industrial structures. The N.C. accredited asbestos inspector must conduct a thorough inspection, identifying all asbestos-containing material as required by the Environmental Protection Agency National Emission Standards for Hazardous Air Pollutants (NESHAP) Code of Federal Regulations (CFR) 40 CFR, Part 61, Subpart M.

The Design-Build Team shall submit an inspection report to the Engineer, which at a minimum must include information required in 40 CFR 763.85 (a)(4) vi)(A)-(E), as well as a project location map, photos of existing structure, the date of inspection and the name, N.C.

accreditation number, and signature of the N.C. accredited asbestos inspector who performed the inspection and completed the report. The cover sheet of the report shall include project identification information. Place the following notes on the cover sheet of the report and check the appropriate box:

- ACM was found
- ACM was not found

**Removal and Disposal of Asbestos Containing Material**

If ACM is found, notify the Engineer. Compensation for removal and disposal of ACM is considered extra work in accordance with Article 104-7 of the 2018 Standard Specifications.

An Asbestos Removal Permit must be obtained from the Health Hazards Control Unit (HHCU) of the N.C. Department of Health & Human Services, Division of Public Health, if more than 35 cubic feet, 160 square feet, or 260 linear feet of regulated ACM (RACM) is to be removed from a structure and this work must be completed by a Design-Build Team prequalified by NCDOT to perform asbestos abatement. RACM is defined in 40 CFR, Part 61, Subpart M. Note: 40 CFR 763.85 (a)(4) vi)(D) defines ACM as surfacing, TSI and Miscellaneous which does not meet the NESHAP RACM.

**Demolition Notification**

Even if no ACM is found (or if quantities are less than those required for a permit), a Demolition Notification (DHHS-3768) must be submitted to the HHCU. Notifications and Asbestos Permit applications require an original signature and must be submitted to the HHCU 10 working days prior to beginning demolition activities. The 10 working day period starts based on the post-marked date or date of hand delivery. Demolition that does not begin as originally notified requires submission of a separate revision form HHCU 3768-R to HHCU. Reference the North Carolina Administrative Code, Chapter 10A, Subchapter 41C, Article .0605 for directives on revision submissions.

Contact Information

Health Hazards Control Unit (HHCU)  
N.C. Department of Health and Human Services  
1912 Mail Service Center  
Raleigh, NC 27699-1912  
Telephone: (919) 707-5950  
Fax: (919) 870-4808

**Special Considerations**

Buncombe, Forsyth, and Mecklenburg counties also have asbestos permitting and NESHAP requirements must be followed. For projects involving permitted RACM removals, both the applicable county and the state (HHCU) must be notified.

For demolitions with no RACM, only the local environmental agencies must be notified. Contact information is as follows:

Buncombe County

WNC Regional Air Pollution Control Agency

49 Mt. Carmel Road  
Asheville, NC 28806  
(828) 250-6777

Forsyth County  
Environmental Affairs Department  
537 N. Spruce Street  
Winston-Salem, NC 27101  
(336) 703-2440

Mecklenburg County  
Land Use and Environmental Services Agency  
Mecklenburg Air Quality  
700 N. Tryon Street  
Charlotte, NC 28202  
(704) 336-5430

**Additional Information**

Additional information may be found on N.C. asbestos rules, regulations, procedures and N.C. accredited inspectors, as well as associated forms for demolition notifications and asbestos permit applications at the N.C. Asbestos Hazard Management Program website:

<https://epi.publichealth.nc.gov/asbestos/rules.html>

**GENERAL**

The State will not be bound by oral explanations or instructions given at any time during the bidding process or after award. Only information that is received in response to this RFP will be evaluated; reference to information previously submitted will not suffice as a response to this solicitation.

**NO CONTACT CLAUSE**

To ensure that information is distributed equitably to all short-listed Design-Build Teams, all questions and requests for information shall be directed to the Division Contract Engineer through the following e-mail address, **gbrittain@ncdot.gov**. This precludes any Design-Build Team Member, or representative, from contacting representatives of the Department, other State Agencies or Federal Agencies either by phone, e-mail or in person concerning the Design-Build Project.

**USE OF TERMS**

Throughout this RFP and all manuals, documents and standards referred to in the RFP, the terms Contractor, Bidder, Design-Builder, Design-Build Team, Team, Firm, Company, and Proposer are synonymous.

Throughout this RFP and all manuals, documents and standards referred to in the RFP, the terms NCDOT, Department, Engineer, and State are synonymous.

**DESIGN REFERENCES**

Design references developed and published by NCDOT and those developed and published by other agencies and adopted for use by NCDOT which are to be used in the design of this project may be obtained by contacting Contract Standards and Development within the Technical Services Division. Standard prices for materials, which the Department normally sells for a fee, will be in effect. The Design-Build Team shall be responsible for designing in accordance with the applicable documents and current revisions and supplements thereto.

**REVIEW OF SUBMITTALS**

Submittals will be reviewed within 10 working days (15 days for temporary structures), FEMA compliance documents, and temporary shoring) from the date of receipt by NCDOT unless otherwise stipulated in the scope of work. All submittals shall be prepared and submitted in accordance with the “*Express Design-Build Bridge Replacement Submittal Guidelines - Year 5 March 24, 2016*” which by reference are incorporated and made a part of this contract. The Design-Build Team may, however, propose an alternate scheme for submittals that include a combination of submittals, a different order of submittals, or other submittal scheme. This alternate approach to submittals must be submitted to the Division 12 Office after award of the contract and approved by the Department. If an approved alternate approach to submittals is approved, the Design-Build Team may use the alternate approach but shall assume all risk associated with any necessary re-work or re-design. Moreover, the alternate approach must include, at a minimum, final plans and RFC plans for each of the design disciplines.

The Department reserves the right to use portions or all of the approved alternate approach on any concurrent or future Design-Build projects.

All submittals shall be made simultaneously to the Division Office and the Resident Engineer. The Department will not accept subsequent submittals until prior submittal reviews have been completed for that item. The Design-Build Team shall inform the Division Office in writing of any proposed changes to the previously reviewed submittals and obtain approval prior to incorporation. The Design-Build Team shall prioritize submittals in the event that multiple submittals are made based on the current schedule. All submittals shall include pertinent Special Provisions. No work shall be performed prior to Department review and approval of the applicable design submittals. Combined submittals are allowable at the risk of the Design Build team if modifications are required.

**GENERAL SCOPE**

The scope of work for this project includes design, construction and management of the replacement of one bridge with a bridge. Construction shall include, but not be limited to, all necessary clearing, debris removal including the retrieval and disposal of all damaged bridge components, grading, roadway, drainage, structures, utility coordination and relocation, and erosion and sediment control work items for the bridge replacement. Construction shall comply with 2018 *NCDOT Standard Specifications for Roads and Structures* and any special provisions.

Project services include, but are not limited to:

- **Surveys** – Any additional surveying needed for project design, right of way & construction activities.
- **Design Services** – completion of construction plans
- **Construction Services** – necessary to build and ensure workmanship of the designed facility
- **Permits** – development of all documents for permits, as necessary
- **Right of Way or Easement Acquisition Services** – as may be necessary
- **Utility Coordination** – all utility relocation efforts, as needed
- **As-Constructed Drawings**

**Construction Engineering Inspection shall be provided by NCDOT Division personnel or will be performed under a separate contract.**

The Department will be responsible for the environmental document for the bridge site.

All designs shall be in Microstation format using Geopak software (current version used by the Department).

**DESIGN AND CONSTRUCTION PERFORMED BY DESIGN-BUILD TEAM**

The Design-Build Team shall acknowledge that project documents furnished by the Department are preliminary and provided solely to assist the Design-Build Team in the development of the project design. The Design-Build Team shall be fully and totally responsible for the accuracy and completeness of all work performed under this contract and shall save the State harmless and shall be fully liable for any additional costs and all claims against the State which may arise due to errors, omissions and negligence of the Design-Build Team in performing the work required by

this contract.

There shall be no assignment, subletting or transfer of the interest of the Design-Build Team in any of the work covered by the Contract without the written consent of the State, except that the Design-Build Team may, with prior written notification of such action to the State, sublet property searches and related services without further approval of the State.

The Design-Build Team shall certify all plans, specifications, estimates and engineering data furnished by the Team. All work by the Design-Build Team shall be performed in a manner satisfactory to the State and in accordance with the established customs, practices, and procedures of the North Carolina Department of Transportation, and in conformity with the standards adopted by the American Association of State Highway Transportation Officials, and approved by the U.S. Secretary of Transportation as provided in Title 23, U.S. Code, Section 109 (b). The decision of the Engineer/State/Department shall control in all questions regarding location, type of design, dimension of design, and similar questions.

Alternate designs, details, or construction practices (such as those employed by other states, but not standard practice in NC) are subject to Department review and acceptance and will be evaluated on a case by case basis.

The Design-Build Team shall not change team members, subconsultants or subcontractors identified in the Statement of Qualifications (SOQ) without written consent of the Engineer or the State Contract Officer. In addition, subconsultants and subcontractors not identified in the SOQ shall not perform any work without written consent by the Engineer. Individual offices of the Design-Build Team not identified in the Statement of Qualifications submitted shall not perform any work without written consent by the Engineer. Failure to comply with this requirement may be justification for removing the Team from further consideration for this project and disqualification from submitting on future Design-Build Projects.

All firms shall be prequalified by the Department for the work they are to perform. Joint Ventures, LLCs or any legal structure that are different than the existing prequalification status must be prequalified prior to the Price Proposal submittal deadline. Subcontractors need only be prequalified prior to performing the work. Design firms shall be prequalified prior to the Price Proposal submittal deadline. If the work is to be performed by an office other than the one that is prequalified, that office shall be prequalified prior to any design submittals.

#### **ACCESS TO SUBMITTAL SITE**

To reduce the submittal review time and increase the efficiency of the review process, the Design-Build Team will need access to the project's submittal site. The site will include a library that will be used for the Design-Build Team to submit documents to NCDOT to review and another for NCDOT to provide response back to the Design-Build Team. The Design-Build Team's Project Manager shall provide a list of team members that will require access to this portal. This list shall include the name, e-mail address and North Carolina Identity Management (NCID) for each individual team member. Once the list is complete, it shall be submitted to the Design-Build e-mail address (jbwhite5@ncdot.gov).



To create an NCID account, each individual shall go to NCDOT's Connect website (<https://connect.ncdot.gov>) and click on the "How to get an Account" link and then, "Create NCID".

The Department will obtain access rights for these individuals and notify the Technical Services Project Manager accordingly. Individuals may then re-enter the "Connect" site and login with their NCID account. Once logged in, the Teamsite "BP12.R013" link will be apparent on the left side of the webpage.

Please note that all submittals for this project will be electronic and will be submitted to the Teamsite, in accordance with the "*Express Design-Build Bridge Replacement Submittal Guidelines – Year 5, March 24, 2016*". NCDOT reserves the right to request a hard copy of any submittal or supporting electronic files or calculation needed to complete the review.

### **ELECTRONIC PLAN SUBMITTALS AND E-SIGNATURES**

The Design-Build Team shall submit all Release for Construction Plans in accordance with the NCDOT e-Signature requirements, including but not limited to providing signed and sealed searchable .pdf files. Reference the website noted below for additional information:

**<https://connect.ncdot.gov/projects/roadway/pages/private-engineering-firm-resources.aspx>**

### **ETHICS POLICY**

Employees employed by the Design-Build Team or employees employed by any subconsultant for the Design-Build Team to provide services for this project shall comply with the Department's ethics policy. Failure to comply with the ethics policy will result in the employee's removal from the project and may result in removal of the Company from the Department's appropriate prequalified list.

### **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 shall be submitted electronically in accordance with Articles 102-8(B) in the Standard Specifications for Roads and Structures. **No Price Proposals will be received after 2:00 p.m. Local Time on October 25, 2022.**

A Bid Bond or Bid Deposit in the amount of 5% of the Total Amount Bid will be required. The Bidder shall submit an electronic Bid Bond with each electronic bid submittal unless he elects to furnish a Bid Deposit to the address shown below:

Greg Brittain  
Div. 12 Contract Engineer  
1710 E. Marion St.  
Shelby, N.C. 28152

**Opening of Price Proposals**

At the time and date specified, the Division Contract Engineer will open and read the Price Proposals and calculate the percentage difference between the Price Proposals submitted and the Engineer’s Estimate.

**Best and Final Offer**

In the event initial Price Proposals exceed an acceptable range of the Engineer’s Estimate or if the Department feels it is necessary for any reason the Department may choose to make amendments to the details of the RFP and request a Best and Final Offer from all of the previously short-listed teams. Alternately, the Department may choose to redistribute to the short-listed Design-Build Teams another RFP for the project with no amendments to the RFP.

The Design-Build Teams shall submit a revised Price Proposal at the time and date specified in the Best and Final RFP. This will constitute the Design-Build Team’s Best and Final Offer. Award of the project may then be made to the Design-Build Team with the lowest apparent Price Proposal in response to the Best and Final RFP.

**Stipend**

No stipend will be provided for this project.

## ROADWAY SCOPE OF WORK

### Project Details

- The Design-Build Project consists of replacing one bridge located on SR 1891 (Olin Loop Road) over Olin Creek in Iredell County.
- The Design-Build Team shall be responsible for designing and constructing the bridge approaches to tie the new structure into the existing pavement in accordance with the NCDOT *Sub Regional Tier Design Guidelines for Bridge Projects* dated February 2008, current NCDOT design standards and NCDOT policies. The Design-Build Team shall make every effort to stay within the existing right of way to reduce or eliminate the need for additional right of way or easements.
- Bridge 480220 is on a subregional route with a functional classification of Local.
- The Design-Build Team shall use Design Speed ADT, Travel Lane Width, and the Paved Shoulder Width as shown in the table below (unless otherwise noted herein) for the full length of the construction limits. The Design Build Team shall use the Out to Out Bridge Width as specified in the *Structures Scope of Work*. The lanes shall be striped to match existing travel lane widths.

County	Bridge No.	Route	Design Speed (mph)	ADT	Travel Lane Width (ft)	Paved Shoulder (ft)
Iredell	480220	SR 1891	45	500	11	Vars.

- At a minimum, the Design-Build Team shall construct full depth pavement in all areas of pavement removal, widening or re-alignment. In no case shall the existing pavement width be narrowed.
- The Design-Build Team shall pave to the face of guardrail for its full length and taper at a 8:1 ratio to the proposed edge of pavement. No paved shoulder will be required except in guardrail sections.
- The length of overlay and wedging, shall extend a minimum of 150 feet from the ends of the proposed structure (fill face) excluding the bridge length and includes a minimum length of 50 feet of new pavement from the ends of the approach slabs. The Design-Build Team shall provide a grade for the project limits which provides the most desirable grade ties to existing within project limits.
- Unless noted otherwise elsewhere in the RFP, all guardrail should be designed and placed in accordance with the January 2018 NCDOT *Standard Drawings* and/or approved details in lieu of standards. Unless noted otherwise elsewhere in the RFP, for subregional bridges, the length of guardrail installed shall be based on the length provided in the NCDOT *Sub Regional Tier Design Guidelines for Bridge Projects* dated February 2008 and meet all warrants within project limits. Any existing guardrail facilities within the project limits shall be brought to minimum current standards.

- A crest vertical curve high point is permitted on a bridge or approach slab provided the Design-Build Team can demonstrate that (1) the design directs water off the travel lanes in an effective manner and (2) providing a tangent grade on the structure would create significant additional roadway approach work. In no case shall a sag vertical curve low point be located on any bridge or approach slab.
- The Design-Build Team will be responsible for furnishing and placing pin and cap monuments for all proposed right of way acquired as part of this project.
- The Department has obtained comments from agencies for this bridge site. Any variations in the Design-Build Team's proposed design and/or construction methods that nullify the decisions reached between the Department and the environmental agencies, and/or will require additional coordination with the environmental agencies shall be the sole responsibility of the Design-Build Team. The Department will not allow any contract time extensions or additional compensation associated with any coordination or approval process resulting from design and/or construction modifications.
- Reductions in design speeds in order to retain existing horizontal and vertical alignments will be allowed per the NCDOT *Sub Regional Tier Guidelines* dated February 2008; any further reductions will require a design exception. Other design exceptions will only be considered if the proposed criteria meet or exceed existing conditions.
- The vertical alignment may be adjusted as needed by the Design-Build Team to assist in the attainment of FEMA compliance or to assist in minimizing hydraulic spread (Reference the *Hydraulic Scope of Work*).
- Bridge approach slabs are required at all bridge ends. The minimum bridge approach slab length shall be 12 feet for the subregional tier sites.
- Early Fencing prior to construction will be required for any parcel where livestock is present or as directed by the Engineer. If permanent fencing cannot be erected due to proposed cut or fill slopes then temporary fencing shall be erected until such time as the fence can be relocated to its final position. Fencing types shall include barbed wire, woven wire and or electric as shown on the plans or as directed by the Engineer.

### General

- Unless otherwise noted herein, the design shall be in accordance with the NCDOT *Sub Regional Tier Design Guidelines for Bridge Projects* dated February 2008, the 2018 AASHTO *A Policy on Geometric Design of Highways and Streets, Roadway Design Policy and Procedure Manual, Roadway Design Guidelines for Design-Build Projects*, January 2018 NCDOT *Standard Specifications for Roads and Structures*, the 2011 AASHTO *Roadside Design Guide*, 4<sup>th</sup> Edition and 2015 Errata, and the 2006 *Chapter 6 Update* and January 2018 NCDOT *Roadway Standard Drawings*.
- Once all changes have been incorporated into the "Released for Construction" roadway plan set for each site, the Design-Build Team shall provide electronically sealed and signed PDFs of the plans in the proper format which conform to the NCDOT eSignature Policy to the Design-Build Unit.

**NCDOT Information Supplied**

- NCDOT *SubRegional Tier Design Guidelines for Bridge Projects* dated February 2008 is available at:

[https://connect.ncdot.gov/resources/Structures/Structures%20Documents/SubRegional%20Tier%20Design%20for%20Bridge%20Projects\\_2008\\_Feb.pdf](https://connect.ncdot.gov/resources/Structures/Structures%20Documents/SubRegional%20Tier%20Design%20for%20Bridge%20Projects_2008_Feb.pdf)

- The NCDOT will provide electronic surveys and wetland delineation files to the Design-Build Team for each bridge site. Any additional supplemental surveys, including but not limited to additional topography, existing and proposed roadway, structure sites, underground and overhead utilities, existing and proposed drainage, and wetland delineation shall be the responsibility of the Design-Build Team to acquire and process.
- The Design-Build Team shall be responsible for confirming the location of the utilities and the type/size of facilities. All SUE work shall be the responsibility of the Design-Build Team.
- The NCDOT will provide final pavement designs for the bridge site.

## STRUCTURES SCOPE OF WORK

### Project Details

The Design-Build Team will be responsible for the structure 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.

Bridge length stated herein is based on an assumed end bent cap depth of 4’-0”.

This bridge shall be a box beam design with a bituminous concrete overlay riding surface. Reference the *Pavement Management Scope of Work* for further information.

The Design-Build Team shall provide a 42-inch Vertical Concrete Barrier Rail per Structure Management Manual on all bridges per Structure Management Unit Manual. Precast Barriers will not be allowed.

Note that the bridge length in the table below is from fill face to fill face and therefore may require adjustment to the length on any box beam standard that the Design-Build Team may wish to use. In lieu of adjusting these beam lengths, and at no additional cost to the Department, the Design-Build Team may elect to use the box beam 5-foot increment standards and lengthen the fill face to fill face dimension as needed. Regardless of the method chosen, the Design-Build Team shall ensure that the model used for FEMA compliance includes the correct span lengths and end points (end of beam).

Structure Number	Site Description	Out- Out Width (ft)	Fill Face to Fill Face Length (ft)	Bent Placement Limitatio ns	# 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
480220	SR 1891 (Olin Loop Rd.) over Olin Creek	30	92'3"	None	1	25' (Not Avail.)	20' (Not Avail.)	N/A	Steel Piles @ End Bents

**NOTES:**

Assumed Foundation Type at End Bent is Drilled-in or Driven Steel Piles with factored resistance per NCDOT Standard Bridge Loads and NCDOT LRFD Driven Pile Policy.

Bridge skew is 90 degrees.

Spread Footing will not be allowed.

**Bridge Removal:**

The Design-Build team is responsible for the removal and disposal of all existing bridges, piles, abutments, and previous bridge substructure remnants per NCDOT's *Best Management Practices of Maintenance and Construction Activities* and the Standard Specifications, except as otherwise noted herein.

For existing bridges that have paint systems containing red lead paint, the Design-Build Team is responsible for handling, removing, shipping, and disposing of these materials in accordance with the January 2018 *NCDOT Standard Specifications for Roads and Structures*. The existing bridges shall be removed in accordance with Subarticle 402-2(A) and (B) of the 2018 *Standard Specifications for Roads and Structures*. Red lead paint, if present on the stockpiled items, need not be removed by the Design-Build Team.

**General:**

All bridges shall meet approved roadway typical sections and grades. Bridge geometry (width, length, skew, span arrangement, etc.) shall be in accordance with the approved Preliminary Roadway Plans and approved Hydraulic Bridge Survey Reports prepared by the Design-Build Team.

Design shall be in accordance with the latest edition of AASHTO *LRFD Bridge Design Specifications* (with exceptions noted in the NCDOT *Structures Management Unit Manual*), NCDOT *LRFD Driven Pile Foundation Design Policy*, NCDOT *Structures Management Unit Manual* (including policy memos), NCDOT *Bridge Policy Manual* and NCDOT *Sub Regional Tier Design Guidelines for Bridge Projects* dated February 2008 except as noted otherwise elsewhere in this RFP.

If the NCDOT's Standard Bridge Plans are used, then the Design-Build Team shall analyze and seal the plans.

A live load rating chart for proposed girders shall be included with the bridge plans and shall state design assumptions and methodology used in the load rating calculations. The load rating shall be in accordance with the NCDOT *Structures Management Unit Manual* (including policy memos) and AASHTO's *Manual for Bridge Evaluation*. If Standard Bridge Plans and the corresponding rating sheets are not used, the Design-Build Team shall submit an initial live load rating chart concurrently with the Preliminary Bridge Survey Report submittal.

Construction and Materials shall be in accordance with 2018 NCDOT *Standard Specifications for Roads and Structures*, NCDOT *Structures Management Unit Project Special Provisions*, and NCDOT *Structures Management Unit Standard Drawings*.

Alternate designs, details, or construction practices (such as those employed by other states, but not standard practice in NC) are subject to Department review and will be evaluated on a case by case basis.



Once all changes have been incorporated into the “Released for Construction” structure plans for each site, the Design-Build Team shall provide a PDF of the sealed plans to the Director of the Transportation Program Management Unit.

**NCDOT Information Supplied**

The NCDOT Standard Bridge Design Plans are available at:

<https://connect.ncdot.gov/resources/Structures/Pages/Standard-Design-Plans.aspx>

## **HYDRAULICS DESIGN SCOPE OF WORK**

The Design-Build Team shall be required to do the following:

- Employ a prequalified private engineering firm to perform hydraulic design for all work required under this contract.
- Attend a Hydraulic pre-design meeting prior to the first hydraulic submittal.
- Design the storm drainage using Geopak Drainage.
- Provide a *Stormwater Management Plan* using the most current NCDOT Best Management Practices where applicable.
- Provide Bridge Survey Reports (BSRs) for all crossings in the contract as per NCDOT Hydraulic Guidelines.
- End Bent fill slopes shall be armored with Class II rip rap. Flood plain benches are not required.
- Bridge design should maintain or increase the existing open area.
- Design the structure at this location to meet the requirements of the State Floodplain Compliance (SFC) between NCDOT and NC Floodplain Mapping Program (NCFMP) approved December 14, 2020, for the Department's submittal to FEMA. In the event an SFC cannot be achieved, the Design-Build Team shall be responsible for preparing a CLOMR package; however, the Department will be responsible for all FEMA submittal fees associated with the submittal of a CLOMR, and subsequently LOMR, packages. In the event that the Design-Build Team revises their design after initial submittal of the SFC or CLOMR package and a second FEMA submittal for that bridge is required, then the Design- Build Team will be responsible for all FEMA submittal fees associated with there-submittal.
  - The Department will not allow direct contact between the Design-Build Team and the representatives of NCFMP and their contractors either by phone, e-mail, or in person without the State Hydraulics Engineer or his designee(s) present. The Department will review with NCFMP the eligibility for the MOA at their monthly meeting. The MOA Package with the accepted Bridge Survey Report for each site shall be submitted for review one month prior to the meeting. A member of the Design-Build Team may attend this meeting. The Design- Build Team shall recognize that the MOA allows for as much as one hundred fifty (150) days for approval once an accepted MOA Package has been submitted by the Department to the NCFMP. No construction activity shall occur in FEMA regulated floodplains until the MOA package (or CLOMR) for the specific site has been approved by the NCFMP. The Department will be responsible for all fees associated with the submittal of MOA Packages.
  - Construct structures in FEMA regulated floodplains to ensure adherence to the approved FEMA submittal. The Design-Build Team shall ensure that construction of all structures in FEMA regulated floodplains adhere to the approved CLOMR(s) and/or MOA(s). Within three months of completion of a structure in a FEMA regulated floodplain, the Design-Build Team shall provide a sealed As-Built survey for the structure and certify that the constructed structure adheres to the approved CLOMR or MOA. Guidance for plan certification for FEMA-Regulated Stream Crossings may be found on the Hydraulics Unit website at the following address:

<https://connect.ncdot.gov/resources/hydro/Pages/FEMA-Interagency-Design.aspx>

- The Design-Build Team shall prepare a new FEMA model for each bridge site and/or package and be responsible for all associated costs resulting from any construction variation from the approved CLOMR(s) and/or MOA(s).
- The Department will not provide FEMA models that are available on the North Carolina Flood Risk System (FRIS) website. The Department will provide FEMA models, if available, to the Shortlisted Design Build Teams that are not available on the FRIS website. The Department in no way warrants or implies that these models are complete, accurate, or sufficient. No additional compensation will be provided for additional modeling necessary to correct, re-create, or adjust the models provided.
- Prepare the associated Permit Drawings as described in the Environmental Permits Scope of Work. All work resulting from the hydraulics and Permit Drawing reviews shall be the responsibility of the Design-Build Team.
- Design all stormwater controls based upon the most current NCDOT *Stormwater Best Management Practices Toolbox*.
- Design hydraulic spread cannot intrude into the travel lane width.
- Use grated drop inlets with pipes in shoulder berm gutter. Concrete flumes shall be used only if there is inadequate depth for a drop inlet.
- The Design-Build Team shall provide bank stabilization where the bank is disturbed for bent removal.
- No deck drains are allowed to be installed over water or within 4' of the top of bank.

### General

- Design in accordance with criteria provided in the North Carolina Division of Highways *Sub Regional Tier Guidelines for Bridge Projects* dated February 2008, *Guidelines for Drainage Studies and Hydraulics Design-2016* and the addendum *Handbook of Design for Highway Drainage Studies-1973*, North Carolina Department of Transportation *Stormwater Best Management Practices Toolbox-2014* and the North Carolina Division of Highways Hydraulics Unit website:

<https://connect.ncdot.gov/resources/hydro/pages/default.aspx>

### Information Supplied

- Memorandum of Agreement (MOA) between NCDOT and NC Floodplain Mapping Program approved August 12, 2016 and associated materials are located at:

<https://connect.ncdot.gov/resources/hydro/Pages/FEMA-Interagency-Design.aspx>

- FEMA model is available on the North Carolina Flood Risk System (FRIS) website. NCDOT will provide the FEMA model not available on FRIS website The FRIS website is located at:

<http://fris.nc.gov/fris>

- Pre-design Hydraulic Report for bridge.

**GEOTECHNICAL ENGINEERING SCOPE OF WORK****I. GENERAL:**

Obtain the services of a firm prequalified for geotechnical work by the NCDOT Geotechnical Engineering Unit at:

<https://www.ebs.nc.gov/VendorDirectory/search.html?s=pc&a=new>

The prequalified geotechnical firm shall prepare foundation design recommendation reports for use in designing structure foundations and roadway foundations, retaining walls, and temporary structures if necessary.

If the NCDOT's standard bridge plans are used, then the Design-Build Team shall design the foundations and seal the plans.

The Engineer of Record who prepares the foundation design recommendation reports shall be a Professional Engineer registered in the State of North Carolina who has completed a minimum of three geotechnical design projects of scope and complexity similar to that anticipated for this project using the load and resistance factor design (LRFD) method and in accordance with the latest edition of the AASHTO *LRFD Bridge Design Specification*.

The prequalified geotechnical firm shall determine if additional subsurface information, other than that provided, is required. If a determination is made that additional subsurface information is required, the Design-Build Team shall use a prequalified geotechnical firm to perform all additional subsurface investigation and laboratory testing in accordance with the current NCDOT Geotechnical Engineering Unit *Guidelines and Procedures Manual for Subsurface Investigations*. Submit additional information collected by the Design-Build Team to the NCDOT Geotechnical Engineering Unit for review and acceptance in the following format:

- 8 ½ x 11-inch Paper Format
- "Structure Subsurface Investigation Title Sheet." Includes Caution Notice and an area to list Contents.
- NC Division of Highways Geotechnical Engineering Unit Soil and Rock Classification Legend and Abbreviations
- Plan View of boring locations and any other significant topographic features
- gINT boring logs
- gINT core logs (if applicable)
- Cross sections if drilled pier foundations will be used
- AASHTO soil test results for both disturbed and undisturbed samples
- Rock test results summary chart

The Design-Build Team shall provide the final Subsurface Investigation Report in electronic and hardcopy format to the NCDOT for its records.

A minimum of two standard penetration test (SPT) / rock core borings shall be required per bent for all bridges. All borings must be located within 25 feet of the center of each bent to satisfy this requirement. No boring may be used for the foundation design of more than one bent. Extend all borings to a depth below the foundation element to show a complete subsurface profile. The Design-Build Team shall be responsible for obtaining the borings noted above for all bents. Any deviations to the requirements noted above shall require acceptance from the NCDOT Geotechnical Engineering Unit prior to construction.

The maximum spacing between borings for retaining walls shall be 100 feet, with a minimum of two borings; one at each end of the wall. Drill borings for retaining walls a minimum depth below the bottom of the wall equal to twice the maximum height of the wall.

The Design-Build Team is permitted to design bridges on this project using software that accounts for the structural effects of soil / pier interaction.

## II. DESCRIPTION OF WORK:

The Design-Build Team shall design foundations, embankments, slopes, and retaining walls in accordance with the current edition of the AASHTO *LRFD Bridge Design Specifications*, NCDOT *LRFD Driven Pile Foundation Design Policy*, NCDOT *Sub Regional Tier Design Guidelines for Bridge Projects* dated February 2008 as applicable, all applicable NCDOT Geotechnical Engineering Unit Standard Provisions, NCDOT *Structures Management Manual*, and NCDOT *Roadway Design Manual*. The NCDOT *LRFD Driven Pile Foundation Design Policy* is located on the NCDOT Geotechnical Engineering Unit's website at:

<https://connect.ncdot.gov/resources/Geological/Pages/default.aspx>

For *Geotechnical Guidelines for Design-Build Projects*, the Design-Build Team shall adhere to the guidelines located at the following website:

<https://connect.ncdot.gov/letting/Pages/Design-Build-Resources.aspx>

### A. Structure Foundations

Permanent steel casings shall be required for drilled piers that are constructed in six inches or more of water. Permanent steel casings shall be required for drilled piers constructed on sloped stream banks subject to degradation from flooding.

When the weathered rock or rock elevation is below the 100-year hydraulic scour elevation, the 100-year and 500-year design scour elevations are equal to the 100-year and 500-year hydraulic scour elevations from the structure survey report accepted by the NCDOT Hydraulics Unit. When the weathered rock or rock elevation is above the 100-year hydraulic scour elevation, the 100-year design scour elevation may be considered equal to the top of the weathered rock or rock elevation, whichever is higher, and the 500-year design scour elevation may be set two feet below the 100-year design scour elevation.

End bent slopes shall be 1.5:1 (H:V) or flatter with rip rap slope protection. Place end bent slope protection from the toe of slope to berm to protect the approach embankment from scour.

Analyze drilled pier and pile bent foundations using either LPile or FB-Pier. Design drilled piers and vertical piles with a sufficient embedment in soil and / or rock to achieve “fixity”.

Add steel pile points to all driven piles with an estimated embedded length of 20’ or less.

#### **B. Roadway Foundation**

All proposed unreinforced fill and cut slopes shall be 2:1 (H:V) or flatter except bridge end bent slopes (see Section A – Structure Foundations). In areas where a sliver fill is required to tie the proposed grade into the existing ground, fill slopes may be steeper than 2:1 (H:V) provided the existing slopes are stable and erosion control measures are utilized on the sliver fill slopes. However, in no case shall a slope be steeper than 1.5:1. The Design- Build Team shall submit slope stability analysis verifying stability of any modified slopes, including details to control erosion of the slope. For all other proposed slopes steeper than 2:1 (H:V), the slopes shall be reinforced and detailed design calculations shall be submitted to the NCDOT Geotechnical Engineering Unit, via the Design-Build Unit, for review and acceptance, prior to construction.

Bridge approach fills shall be required for end bents on all bridges in accordance with NCDOT Standard Drawings and NCDOT design criteria. Standard Drawing 422.02 of the *NCDOT January 2018 Roadway Standard Drawings* shall be used on all bridges.

### **III. CONSTRUCTION REQUIREMENTS:**

All construction and materials shall be in accordance with the NCDOT 2018 *Standard Specifications for Roads and Structures* and current NCDOT *Project Special Provisions* unless noted otherwise elsewhere in this RFP. The Design-Build Team shall be responsible for investigating, proposing and incorporating remedial measures for any construction problems related to foundations, retaining walls, subgrades, settlement, slopes, and construction vibrations. Submit the proposed remedial measures to the Geotechnical Engineering Unit for review and acceptance prior to incorporation.

The Design-Build Team shall be responsible for any damage or claim caused by construction, including damage caused by vibration (see 2018 *Standard Specifications for Roads and Structures* Article 107-14). The Design-Build Team shall be responsible for deciding what additional, if any, pre and post-construction monitoring and inventories need to be conducted to satisfy their liability concerns. Any monitoring and inventory work shall be performed by a qualified private engineering firm experienced in the effects of construction on existing structures.

The prequalified geotechnical firm that prepared the original foundation designs shall perform any changes to the foundation designs. All changes shall be based upon additional information, subsurface investigation and / or testing. Send copies of revised designs,

including additional subsurface information, calculations and any other supporting documentation sealed by a professional engineer registered in the State of North Carolina, to the NCDOT for review and acceptance.

The prequalified geotechnical firm that prepared the foundation designs shall review and approve all pile driving hammers and drilled pier construction sequences. After the geotechnical firm has approved these submittals, the Design-Build Team shall submit to the NCDOT for review prior to beginning construction.

Perform hammer approvals with GRLWEAP Version 2010 or later and in accordance with the NCDOT LRFD Driven Pile Foundation Design Policy. Provide pile driving inspection charts or tables for all approved pile hammers.

Limit driving stresses in accordance with the AASHTO LRFD *Bridge Design Specifications*. If a tip elevation is noted on the plans, drive piles to the minimum required driving resistance and tip elevation.

Drive piles to the minimum required driving resistance and a penetration into natural ground or below design scour of at least 10 ft. If a pile is socketed into rock (as defined in Section 411-1 of the 2018 *Standard Specifications for Roads and Structures*) at least 5 feet and all other design requirements are met then the total penetration amount may be relaxed at the discretion of the Geotechnical Engineering Unit. Unless otherwise approved, stop driving piles when refusal is reached. Refusal is defined as 240 blows per foot or any equivalent set.

PDA testing is required when the proposed Required Driving Resistance of HP12x53 piles exceeds 175 tons, the proposed Required Driving Resistance of HP14x73 piles exceed 250 tons, or if a pile type other than HP 12x53 or HP 14x73 is used. If required, perform Pile Driving Analyzer (PDA) testing on at least one pile per bridge using a NCDOT prequalified company to develop pile driving inspection charts or tables. Additional PDA tests may be required based upon the AASHTO LRFD Bridge Design Specifications. Provide additional PDA testing for any revisions to pile type, size or hammer previously approved. The locations of specific piles to be tested must be accepted by the NCDOT prior to any PDA test.

Perform PDA tests and CAPWAP analyses and provide the PDA report and pile driving criteria in accordance with Section 450 of the 2018 *Standard Specifications for Roads and Structures*. The foundation design firm or the PDA consultant shall develop pile driving inspection charts or tables for acceptance by the NCDOT prior to pile installation.

Send copies of any inspection forms related to foundations, embankment, and subgrade to the NCDOT for review.



**PAVEMENT MANAGEMENT SCOPE OF WORK**

The pavement design for the mainline and mainline shoulders is as follows:

<b>Bridge Site</b>	<b>Surface</b>	<b>Intermediate</b>	<b>Base</b>
480220	3.0" S9.5C	4.0" I19.0C	4.0" B25.0C

The minimum depth for overlaying the existing pavement shall be equal to the full thickness of surface course as provided in the table above.

The depth of the surface course on box beams at the gutter line shall meet the minimums listed in the *NCDOT Structures Management Unit Manual*.

If wedging is equal to or greater than the full thickness of the surface course as provided in the table above plus 3.0", then wedging shall consist of the full thickness of surface course as provided in the table above, and the remainder shall be B25.0C.

The Design-Build Team shall be responsible for the design of all temporary pavements and for the evaluation of existing shoulders and roadways regarding their suitability for carrying traffic during construction, if necessary. In the event that the existing shoulders and roadways are found to be inadequate for the proposed temporary traffic volumes and duration, the Design-Build Team shall be responsible for upgrading the pavement to an acceptable level. Temporary pavements shall be designed in accordance with the most recent version of the NCDOT Pavement Design Procedure. Temporary pavement designs shall be submitted for review and comments using the contract submittal process. The expected duration for traffic on temporary pavement must be included as part of the submittal.

The Design-Build Team shall provide incidental milling where tying to the existing pavement to provide a smooth transition to the proposed pavement. Driveways impacted by the Design-Build Team's construction shall be repaired to the pre-construction condition.

## **TRAFFIC ENGINEERING SCOPE OF WORK**

Bridge No. 480220 is currently closed to traffic and under the following detour route: Olin Loop Road (SR 1891) to Jennings Rd (SR 1892) to Olin Loop Rd. (SR 1891). The Department shall be responsible for maintenance of all detour signing within and off the project limits. Improvements to the above stated detour route will not be required. Advance Warning Signs shall be placed in accordance with the Standard Drawings and shall be the responsibility of the Design-Build Team. The Design-Build Team shall maintain the road closure barricades during construction.

### **Final Pavement Marking Plan Requirements**

Prepare Final Pavement Marking Plans in accordance with the latest *Manual on Uniform Traffic Control Devices (MUTCD)* and the NCDOT *January 2018 Roadway Standard Drawings*.

Develop Pavement Marking Plans that maintain all types of traffic (motorists, bicyclists, and pedestrians within the highway, including persons with disabilities in accordance with the Americans with Disabilities Act of 1990 (ADA), Title II, Paragraph 35.130) as defined by the *Manual for Uniform Traffic Control Devices (MUTCD)*.

NCDOT's *January 2018 Roadway Standard Drawings* – Section 1200 pertain to pavement markings and markers and shall be utilized.

Use pavement marking and pavement marker products that conform to all NCDOT's requirements and specifications and are listed on the Department's Approved Products List. The use of any devices that are not shown on the Approved Product List shall require written approval from the Signing and Delineation Unit.

Install pavement markings in accordance with NCDOT's *January 2018 Standard Specifications for Roads and Structures*, and in accordance with the manufacturer's procedures and specifications.

Install pavement markings and pavement markers on the final surface as follows:

<b><u>Bridge #</u></b>	<b><u>Marking</u></b>	<b><u>Marker</u></b>
480220	Paint	None

Passing zone(s) will be determined in the field and must be approved by the engineer.

Tie proposed pavement marking lines to existing pavement marking lines.

**ENVIRONMENTAL PERMITS SCOPE OF WORK****General**

The Design-Build Team shall be responsible for preparing permit drawings necessary for the Department to obtain all required environmental permits for construction of the bridge. The Design-Build Team is responsible for determining the appropriate permits that will apply to the site. The Design-Build Team is encouraged to gain the Department's concurrence on the permits needed prior to beginning permit application work for the bridge site. The Design-Build Team shall determine the schedule for submission of permit documentation.

The Design-Build Team shall not begin ground disturbing activities, including utility locations, in jurisdictional areas, at a given bridge site, until the applicable environmental permits have been issued for that bridge. This restriction does not include investigative borings covered under a Nationwide #6 permit (NWP #6). Work that does not affect jurisdictional areas can begin on the Date of Availability.

The Design-Build Team may begin utility relocation work prior to obtaining the aforementioned permits provided that (1) the Department is notified in writing prior to these activities; (2) such activities are outside jurisdictional resources. Upon consultation with the Division Environmental Officer, a meeting may be required with the permitting agencies prior to beginning work.

The Department will allow no direct contact between the Design-Build Team and representatives of the environmental agencies. No contact between the Design-Build Team and the environmental agencies shall be allowed either by phone, e-mail or in person, without representatives of the Division's Environmental Officer present. A representative from the Design-Build Unit shall be included on all correspondence.

Once the Department has obtained the applicable permits based upon the approved Design-Build Team's proposed design and / or construction methods, the Design-Build Team will be responsible for any change in the proposed design and/or construction methods that nullifies any permit. The Department shall not allow any contract time extensions associated with this additional coordination.

The Design-Build Team shall meet all permit conditions. The Design-Build Team shall be required to staff any personnel necessary to provide permit compliance.

**Permit Process**

It is the Design-Build Team's responsibility to acquire information and prepare permit drawings that reflect the impacts and minimization efforts from the project as designed by the Design-Build Team. The Design-Build Team shall prepare the entire permit package; the Department will provide the environment document for the bridge site. The Design-Build Team shall be responsible for entering impact determinations on the drawings. Further, it is the Design-Build Team's responsibility to provide the design and construction details to the

Department to be included as part of the permit process. At a minimum, the associated permit drawings shall consist of the following:

- Roadway Plan and Profile Sheets (half size 11" x 17") shall contain all environmental impacts in a table with calculated proposed stream/wetland/open water impacts, buffer impacts by type, such as road fill, bridging, etc.
- In addition, the Roadway Plan Sheet shall specifically identify buffer zones, wetland boundaries, all erosion control measures, structures, pier locations, riprap, causeways and other impacts including utility relocation.

The Department will re-verify and update, as needed the required environmental data that expires prior to the completion of the activity causing the impact in the jurisdictional areas. These include, but are not limited to, federal protected species, re-verification of wetland jurisdictional areas, historic and archaeological sites, and 303d (impaired) streams.

Direct coordination between the Design-Build Team, the Design-Build Unit, Division Environmental Officer (DEO), Division Bridge Program Manager and the Resident Engineer shall be necessary to ensure proper permit drawing development. Upon completion of the permit drawings, the Design-Build Team shall concurrently forward the package to the Resident Engineer, Division Bridge Program Manager, Division Environmental Officer, Area Bridge Construction Engineer and Hydraulics Unit for review and approval. After all revisions are complete, the Department will subsequently forward the package to the appropriate agencies and the cover letter describing the project.

Any temporary construction measures, including de-watering, construction access, etc. shall be addressed in the permit drawings. Impacts that result from so-called temporary measures may not be judged to be temporary impacts by the agencies. These issues shall be addressed and resolved with the agencies and reviewed by the Division Environmental Officer prior to submission of the permit drawings and environmental impacts to the respective agencies.

The Design-Build Team shall clearly indicate the location of utility relocations in jurisdictional areas. The Design-Build Team shall also identify all proposed borrow and waste sites. Further, the Design-Build Team shall describe the methods of construction for the structure. The description of the temporary impacts (utility relocations, etc.) shall include restoration plans, schedules and disposal plans. This information shall be included in the permit drawings and environmental impacts.

The NCDOT hereby commits to ensuring, to the greatest extent possible, that the footprint of the impacts in areas under the jurisdiction of the federal Clean Water Act will not be increased during the Design-Build effort. All fill material shall be immediately stabilized and maintained to prevent sediment from entering adjacent waters or wetlands. The Design-Build Team shall be responsible for ensuring that the design and construction of the project will not impair the movement of aquatic life.

Requests made for modifications to the permits obtained by the Division Environmental Officer shall only be allowed if the Engineer determines it to be in the best interest of the Department and will be strongly discouraged. The Design-Build Team shall not take an iterative approach to hydraulic design issues. The design shall be complete prior to permit modification application.

**Permit Timeframe**

The Design-Build Team should expect it to take up to 60 days for the Department to acquire the permits necessary for each bridge. The 60 days shall begin at the date that the Department has approved the final permit package as submitted by the Design-Build Team. No requests for additional contract time or compensation will be allowed if the permits are obtained within this 60-day period. With the exception of location and survey work and permitted investigative borings covered under a Nationwide #6, no mobilization of men, materials, or equipment for site investigation or construction of the project shall occur prior to obtaining the permits. This limitation does not preclude the off-site fabrication of bridge segments or equipment. The Department will not honor any requests for additional contract time or compensation, including idle equipment or mobilization or demobilization costs, for the Design-Build Team mobilizing men, materials (or ordering materials), or equipment prior to obtaining all permits. The Department will consider requests for contract time extensions for obtaining the permits only if the Design-Build Team has pursued the work with due diligence, the delay is beyond the Team's control, and the 60-day period has been exceeded. If time were granted it would be only for that time exceeding the 60-day period.

**Commitments**

The NCDOT is committed to incorporating all reasonable and practicable design features to avoid and minimize impacts to wetlands, streams, open water, and regulated riparian buffers. Additionally, the NCDOT will provide full compensatory mitigation of all stream, wetland, and riparian buffer impacts as required by the regulatory agencies.

All work by the Design-Build Team must be accomplished in strict compliance with the plans submitted and approved for the permits drawings and in compliance with all conditions of the permits received and certifications issued by the agencies. The Design-Build Team shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of the permits.

The Design-Build Team shall strictly adhere to these commitments, as well as others, including but not limited to requirements for permitting.

If the Design-Build Team discovers any previously unknown historic or archeological remains while accomplishing the authorized work, he shall immediately notify NCDOT Staff Archaeologist and / or Division Environmental Officer, as listed below, who will initiate the required State / Federal coordination. All questions regarding these sites should be addressed to Mr. Matthew Wilkerson, NCDOT Archaeology (919) 707-6089, or the Division Environmental Officer.

**EROSION AND SEDIMENTATION CONTROL SCOPE OF WORK**

The NCDOT Roadside Environmental Unit (REU) shall review and accept all Erosion and Sedimentation Control Plans. Erosion Control (EC) Plans shall be designed for the grading phase of the construction. Release for Construction (RFC) Erosion Control Plans shall be submitted to all NCDOT Personnel listed in the “*Express Design-Build Bridge Replacement Submittal Guidelines – Year 5, March 24, 2016*”, before **any** land disturbing activities, including clearing and grubbing can commence. No land disturbing activities, including clearing and grubbing, shall occur in any location that does not have accepted RFC Erosion Control Plans. Refer to the most recent versions of the NCDOT *Erosion and Sediment Control Design and Construction Manual* and the *NC DENR - Erosion and Sediment Control Planning and Design Manual* for erosion control design guidelines not addressed in this Scope of Work.

The Design-Build Team shall be responsible for determining the Bridge Projects located in Environmentally Sensitive Areas and use the higher Peak Inflow Rate and Peak Rainfall Data (25 year).

Erosion and Sedimentation Control Plans shall at a minimum address the following:

**I. Complete Set of Plans:****A. RFC Plans**

1. The EC plans shall contain a Clearing & Grubbing and Final Grade phase of erosion control design as directed.
2. Use correct NCDOT symbology.
3. Protect existing and proposed drainage structure inlets with Rock Inlet Sediment Trap Type ‘A’ (RIST-A), Rock Inlet Sediment Trap Type ‘C’ (RIST-C), Rock Pipe Inlet Sediment Trap Type ‘A’ (PIST-A), etc.
4. Utilize adequate perimeter controls (temporary silt ditch (TSD), temporary silt fence (TSF), etc.)
5. Utilize infiltration basins, skimmer basins and rock measures with sediment control stone (Temporary Rock Sediment Dam Type ‘B’ (TRSD-B), Temporary Rock Silt Check Type ‘A’ (TRSC-A), etc.) at all drainage outlets with a spillway with an adequately designed base length to distribute outflow.
6. Take into account existing topography and show contour lines.
7. Utilize Temporary Rock Silt Checks Type ‘B’ (TRSC-B) and wattles to reduce velocity in existing and proposed ditches with spacing of 250 feet divided by percentage of ditch grade. Also utilize TRSC-B’s in proposed TSD’s and temporary diversions (TD).
8. Protect existing streams; do not place erosion control devices in live streams.
9. Sediment basins shall be sized to provide adequate silt storage of 3600 cubic feet per disturbed acre with surface area equal to 435 square feet per cubic foot per second (cfs) of the peak inflow rate, Q10 or Q25, using 10-year or 25-year peak rainfall data (*NC DENR - Erosion and Sediment Control Planning and Design Manual* or NOAA’s National Weather Service web site [http://hdsc.nws.noaa.gov/hdsc/pfds/orb/nc\\_pfds.html](http://hdsc.nws.noaa.gov/hdsc/pfds/orb/nc_pfds.html) for partial

- duration (ARI) time series type). A Sediment Basin Designer Spreadsheet will be provided by the NCDOT REU upon request.
10. Infiltration Basins shall provide adequate silt storage for 1800 cubic feet per disturbed acre with surface area equal to 325 square feet per cubic foot per second (cfs) of the peak inflow rate, Q10 or Q25, using the 10-year or 25-year peak rainfall data (*NCDENR - Erosion and Sediment Control Planning and Design Manual* or NOAA's National Weather Service web site [http://hdsc.nws.noaa.gov/hdsc/pfds/orb/nc\\_pfds.html](http://hdsc.nws.noaa.gov/hdsc/pfds/orb/nc_pfds.html) for partial duration (ARI) time series type). Infiltration Basin shall be designed to dewater in 3 days or less. An Infiltration Basin Designer Spreadsheet will be provided by the NCDOT REU upon request.
  11. Skimmer Basins shall provide adequate silt storage for 1800 cubic feet per disturbed acre with surface area equal to 325 square feet per cubic foot per second (cfs) of the peak inflow rate, Q10 or Q25, using the 10-year or 25-year peak rainfall data (*NCDENR - Erosion and Sediment Control Planning and Design Manual* or NOAA's National Weather Service web site [http://hdsc.nws.noaa.gov/hdsc/pfds/orb/nc\\_pfds.html](http://hdsc.nws.noaa.gov/hdsc/pfds/orb/nc_pfds.html) for partial duration (ARI) time series type). A Skimmer Basin Designer Spreadsheet will be provided by the NCDOT REU upon request.
  12. The minimum and maximum length to width ratio of all Sediment Basins shall be 2:1 (L:W) and 6:1 (L:W), respectively.
  13. Coir Fiber Baffles shall be installed in all silt basins and sediment dams at drainage outlets. For silt basins with a 20-foot or longer length, three Coir Fiber Baffles shall be installed with a spacing of 1/4 the basin length. For silt basins with a length less than 20 feet, a minimum of two Coir Fiber Baffles shall be installed, with a spacing of 1/3 the basin length. The Design-Build Team will not be required to show the individual baffles on the EC Plans.
  14. Include any culvert and/or pipe construction sequence plan sheets in the Clearing & Grubbing Erosion Control Plans; all pipes 48 inch or larger, or any combination of pipes that total 48 inch or more require a construction sequence. Prior to installation of pipes smaller than 48 inches in jurisdictional areas, the Design Build Team shall submit a phasing plan for managing the watercourse to the Resident Engineer for review and acceptance. The phasing plan shall be in accordance with the Best Management Practices for Construction and Maintenance Activities.
  15. For any permanent stormwater devices, design temporary sediment basins at these locations for construction phase.
  16. Utilize Wattles with Polyacrylamide (PAM) in temporary and permanent, existing and proposed ditches at a spacing of 50 feet in areas where sediment basins are not feasible at drainage outlets, and in areas where sediment basins at drainage outlets cannot be properly sized to surface area and/or sediment storage requirements due to safety concerns, ROW limitations, utility conflicts, or other construction limitations approved by the NCDOT REU. For ditch grades greater than 3%, utilize TRSC-A with Matting and PAM in lieu of wattles.
  17. Utilize temporary slope drains and earth berms at top of fill slopes 8 feet (5 feet in Divisions 1, 2, 3, and 6) or higher and steeper than 4:1 (H:V), or where there are superelevation rates above 4% and fills are greater than 5 feet (3 feet in Divisions 1, 2, 3, and 6). Maximum slope drain spacing shall be 200 feet.
  18. Utilize rock energy dissipater and/or silt basin at outlet of slope drain.

19. Provide matting for erosion control in all ditch lines where the velocity is greater than 2.0 ft/s, and the shear stress is 1.55 psf or less. For ditch lines with a shear stress above 1.55 psf, Permanent Soil Reinforcement Mat or Riprap shall be utilized.
20. Provide matting for erosion control on all fill slopes 2:1 (H:V) or steeper and fill slopes adjacent to sensitive jurisdictional areas.
21. For bridge projects with Design Standards in Sensitive Watersheds (15A NCAC 04B .0124) commitment, all streams and unnamed tributaries shall have a 50-foot Environmentally Sensitive Area (ESA) on Clearing & Grubbing EC Plans only, and utilize 25-year peak rainfall data for surface area requirement for all sediment basins.
22. To contain concrete waste water and associated concrete mix from washing out ready-mix trucks, drum, pumps, or other equipment, provide Concrete Washout Structures at egress points. Concrete Washout Structures must collect and retain all concrete waste water and solids so that this material does not migrate to surface waters or into the ground water. The Concrete Washout Structures are not intended for concrete waste water not associated with washout operations. The Concrete Washout Structures may include devices above or below ground and/or commercially available devices designed specifically to capture concrete waste water. Concrete Washout Structure options may be found in the special provisions, available at the website noted in Section IV. A Concrete Washout Structure option detail is available at the following link:

<https://connect.ncdot.gov/resources/roadside/SoilWaterDocuments/ConcreteWashoutStructuredetail.pdf>

#### B. Intermediate Phase

Intermediate Erosion Control Plans shall only be required if design modifications and/or site conditions require additional erosion control design or design revisions to the RFC Erosion Control Plans. Intermediate Plans shall be submitted for review and shall be accepted prior to construction of any aspect impacted by the revised erosion control design. For any intermediate phase, comply with Section A, “RFC Plans” above.

- C. The following documents shall accompany the Erosion Control Plans and be completed and submitted to NCDOT REU for initial submittal:
  1. High Quality Water Worksheet from Soil and Water Engineering web page
  2. Low Impact Bridge Project Checklist from Soil and Water Engineering web page
  3. Matting Determination Spreadsheet from Soil and Water Engineering web page
  4. Erosion Control Quantities Spreadsheet from Soil and Water Engineering web page
  5. Basin or Checkdam Design Spreadsheet from Soil and Water Engineering web page
  6. Preliminary Permit Drawings showing all jurisdictional stream and wetland impacts (half-size)
  7. General Structure Drawing with locations of piles, drilled shafts, etc. (half-size)
  8. Erosion Control Plans shall be submitted according to the “*Express Design-Build Bridge Replacement Submittal Guidelines – Year 5, March 24, 2016*”.
  9. Microstation files may be requested by NCDOT REU staff if needed

The documents located on the Soil and Water Engineering web page can be found at:



<https://connect.ncdot.gov/resources/roadside/SoilWaterDocuments/Forms/AllItems.aspx>

All documents from the Soil and Water Engineering web page can be submitted electronically or hard copy.

**II. Detail Sheets and Notes:**

- A. Provide project specific special notes and details such as wattle with PAM, etc.
- B. Provide matting summary sheet(s): matting for erosion control and permanent soil reinforcement mat.
- C. Provide reforestation sheet(s): regular, wetland, streambank and/or buffer showing appropriate species.

**III. Title Sheet:**

- A. Show correct notes: NCD-01, HQW, ESA, clearing and grubbing, etc.
- B. Show correct standards for project.
- C. Show list of standard NCDOT symbology
- D. Show name and certification number of Level III certified individual responsible for designing and/or reviewing Erosion and Sedimentation Control Plans.

**IV. Special Provisions:**

A. Erosion Control Special Provisions are available at the following website:

<https://connect.ncdot.gov/resources/roadside/Pages/Soil-Water.aspx>

- B. References in Erosion Control Special Provisions from the aforementioned website to Method of Measurement, Basis of Payment, or any other statement regarding direct payment for Erosion & Sediment Control measures shall be disregarded.
- C. Erosion Control / Stormwater Certification found elsewhere in this RFP.

**V. Miscellaneous:**

- A. Plan submittals shall include all pertinent design information required for review, such as design calculations, drainage areas, etc.
- B. The NCDOT REU will provide a sample set of Erosion and Sedimentation Control Plans (including any special details or special provisions used by the NCDOT REU) and MicroStation Erosion Control Workspace to the Design-Build Team for reference upon request.
- C. Plans shall address any environmental issues raised during the permitting process.
- D. Sufficient time shall be allowed for the Design-Build Team to make any changes to the Erosion and Sedimentation Control Plans deemed necessary by the NCDOT REU.
- E. Temporary access and haul roads, other than public roads, constructed or used in connection with the project shall be considered a part of the project and addressed in the Erosion and Sedimentation Control Plans.
- F. Borrow or waste areas that are part of the project shall require a separate Reclamation Plan, unless the borrow or waste activity is regulated under the *Mining Act of 1971*, or is a landfill regulated by the Division of Waste Management (DWM). The Design-Build Team shall

submit the permit number for waste / borrow sites covered by the Mining Act or regulated by DWM (NCDEQ) concurrently to the Design-Build Unit and the Resident Engineer. For Reclamation Procedures, see:

<https://connect.ncdot.gov/resources/roadside/FieldOperationsDocuments/ContractedReclamationProcedures.pdf>

- G. Whenever the Engineer determines that significant erosion and sedimentation continues despite the installation of approved protective practices, the Design-Build Team shall be required to and shall take additional protective action.
- H. An accepted Erosion and Sedimentation Control Plan does not exempt the Design-Build Team from making every effort to contain sediment onsite.
- I. Any Erosion Control Design revisions made during the construction of the project shall be submitted to NCDOT REU by the 15<sup>th</sup> of the month via the Design-Build Unit. At any time requested by the Engineer or the NCDOT-REU, the Design-Build Team shall provide an updated version of the Erosion and Sedimentation Control Plans for distribution to all parties involved in the construction process.
- J. The Design-Build Team shall comply with the *North Carolina Administrative Code Title 15A Department of Environment and Natural Resources Chapter 4, Sediment Control*.
- K. A pre-design meeting shall take place between the NCDOT REU Soil & Water Engineering Section, the Design Build Team, and any other pertinent NCDOT personnel before any Erosion and Sedimentation Control Designs are submitted to NCDOT REU. Erosion and Sedimentation Control Plan submittals shall only be reviewed and accepted by NCDOT REU after the Erosion Control Pre-Design Meeting. The Design Build Team shall be required to submit a tentative Erosion and Sedimentation Control Plan submittal schedule at the pre-design meeting.
- L. At minimum, the Design Build Team shall bring one erosion control plan sheet with a Clearing & Grubbing erosion control design to the Erosion and Sedimentation Control Plan pre-design meeting.
- M. All RFC Erosion and Sedimentation Control Plans, including any red line revisions, shall be kept on site at all times throughout the duration of the project.
- N. Erosion Control / Stormwater Certification shall be required according to the Project Special Provision found elsewhere in this RFP.
- O. Prior to installation of any erosion control devices, the Design-Build Team shall verify boundaries of jurisdictional areas in the field and delineated with Safety Fence or flagging. For guidance on Safety Fence and flagging in jurisdictional areas, see:

<https://connect.ncdot.gov/resources/roadside/SoilWaterDocuments/Safety%20Fence.pdf>

- P. Various projects that impact more than 100 linear feet of stream with a Division of Water Resources (DWR) Classification of Trout (Tr) may require a Trout Buffer Variance from the Regional Land Quality Section office or from the central Land Quality Section office in Raleigh. Additional coordination and document preparation with NCDOT REU and Land Quality may be required to obtain this variance approval. These projects will be identified at the erosion control pre-design meeting.
- Q. Sediment basins that drain directly into jurisdictional water or have a total drainage area of one acre or more shall be designed and constructed with outlet structures that only withdraw water from the surface. For sediment basins that do not drain directly into jurisdictional water

or have less than one acre of total drainage area, surface dewatering outlets or stone outlets may be provided.

- R. Ground cover stabilization shall comply with the timeframe guidelines specified by the North Carolina Department of Environment and Natural Resources Division of Water Quality NCG-010000 General Construction Permit that became effective on August 3, 2011. Excluding the slopes noted below, temporary and permanent ground cover stabilization shall be provided within seven calendar days from the last land-disturbing activity. The Design-Build Team shall label all slopes subject to the seven-day ground cover stabilization requirements on all Erosion and Sedimentation Control Plans submitted to the Department for review and acceptance.

For the slopes noted below, temporary and permanent ground cover stabilization shall be provided within 14 calendar days from the last land-disturbing activity:

- Slopes between 2:1 (H:V) and 3:1 (H:V), with a slope length of ten feet or less
- Slopes 3:1 (H:V) or flatter, with a slope length of 50 feet or less
- Slopes 4:1 (H:V) or flatter

Temporary and permanent ground cover stabilization shall be provided in accordance with the provisions in this contract and as directed.

**EROSION CONTROL DAMAGES:**

The Design-Build Team shall take all reasonable precautions to comply with all regulations of all authorities having jurisdiction over public and private land governing the protection of erosion and sedimentation. Any fines, remediation required or charges levied against the Department for failing to comply with all rules and regulations concerning erosion and sediment control, due to the Design-Build Team’s negligence, carelessness, or failure to implement the Erosion and Sedimentation Control Plans and Specifications; or failure to maintain an approved Storm Water Pollution Prevention Plan (SWPPP), regardless of absence of neglect, shall be deducted from monies due the Design-Build Team. In addition to said fines, remediation required, or charges levied, any associated engineering costs or actions taken by the Department in order for the Department to comply with rules and regulations, as a result of the Design-Build Team’s negligence, carelessness, or failure to implement the Erosion and Sedimentation Control Plans and Specifications; and/or the SWPPP, regardless of absence of neglect, shall be deducted from the monies due to the Design-Build Team.

**UTILITIES COORDINATION SCOPE OF WORK**

The Design-Build Team shall obtain the services of a Professional Services Firm (PSF) knowledgeable in the NCDOT Utility Coordination Process involved with utility relocation / installation and highway construction. During procurement phase and the life of the project, the Design-Build Team will only be allowed direct contact with the utility owners when the aforementioned PSF is present. The Design-Build Team shall be responsible for coordinating all utility relocations, removals, and/or adjustments where the Design-Build Team and Utility Company, with concurrence from the Department, determine that such work is essential for highway safety and performance of the required highway construction. Coordination shall be for all utilities whether or not they are specifically identified in this scope of work and shall include any necessary utility agreements when applicable. NCDOT will be the approving authority for all utility agreements and approval of plans.

The Design-Build Team shall be responsible for verifying the utility locations, type of facilities, and identifying the utility owners in order to coordinate the relocation of any utilities, known and unknown, in conflict with the project.

After all utility conflicts have been identified by the Design-Build Team at a bridge site, if requested by the Design-Build Team, the Department will write a letter to the affected utility owners introducing the project to the owners and requesting their cooperation with the Design-Build Team to adjust utilities in a timely manner.

**Cost Responsibility:**

The Design-Build Team shall be responsible for relocating water and sewer facilities that have prior rights or other compensable interest; however the cost of relocating these facilities, as well as any necessary design and permitting for these utilities, will be paid for as Extra Work in accordance with Article 104-8(A) of the January 2018 NCDOT *Standard Specifications for Roads and Structures*. The NCDOT will be responsible for all other non-betterment utility relocation costs when the utility owner has prior rights of way / compensable interest. The utility owner shall be responsible for the relocation costs if they cannot furnish evidence of prior rights of way or a compensable interest in their facilities. The Design-Build Team shall be responsible for determining the cost responsibility for the utility relocations. The Design-Build Team shall be responsible for all costs associated with utility relocations due to haul roads and/or any other temporary conditions resulting from the Design- Build Team's methods of operation or sequence of work.

**Water and Sewer:**

If the Design-Build Team's design and/or construction require the relocation of existing water or sewer facilities, designs shall be coordinated with the NCDOT Utilities Unit. The Design-Build Team shall submit Utility Construction Requests with the justification, with the Utility Owner's requirements and the Utility Owner's commitment to cooperate with the Utility Unit, via the Design-Build Unit. The Utility Owner's requirements and commitments shall be on the respective Utility Owner's letter head or email address. The Design-Build Team shall develop designs; prepare all plans for needed agreements and permits; submit permits directly to the agencies and obtain approval

from the agencies. This design cost shall be reviewed by the NCDOT Utilities Unit to be approved for Extra Work.

Designs shall be coordinated with the NCDOT Utilities Unit. The Design-Build Team shall be responsible for submitting electronically the set (half size and full size plans in pdf format) of utility construction drawings to the State Utilities Manager, via the Design-Build Unit, for further handling. Each set shall include a title sheet, plan sheets, profiles and special provisions if required. Once approved by the State Utilities Manager, the Design Build Team will submit the plans to the agencies to obtain approval.

The relocation of all water and sewer facilities shall be done in accordance with the NCDOT policies and the latest water and sewer design requirements / specifications of the appropriate Utility Owner. In the event of conflicting design parameters in the requirements noted above, the proposed design shall adhere to the most conservative values. The Design-Build Team may obtain the design requirements / specifications from the respective utility. The materials and appurtenances proposed by the Design-Build Team shall require approval by both NCDOT Utilities Unit and the aforementioned appropriate utility owner prior to installation. This construction cost shall be reviewed by the NCDOT Utilities Unit to be approved for Extra Work.

#### **Utility Relocation Plans:**

Excluding water and sewer conflicts, if the Design-Build Team's design and / or construction creates a utility conflict, the Design-Build Team shall request that the utility owner submit relocation plans (Highway Construction Plans to be provided by the Design-Build Team to utility owners) that show existing utilities and proposed utility relocations for approval by the NCDOT. If Permanent Utility Easement (PUE) is required to relocate a utility, the PUE acquired will be the minimum area necessary to safely relocate the utility. Wetlands, Historical Areas and areas that can be shared with a Drainage/Utility Easement (DUE) or Aerial Utility Easement (AUE) shall be taken into account. If during the Departments review, the PUE is determined to be excessive the Department will request the PUE be reduced as necessary.

In .pdf format, the Design-Build Team shall electronically submit one half-size set and one full size set of Utility Relocation Plans to the NCDOT State Utilities Manager, via the Design-Build Unit, for review and approval. The Department shall approve the Utility Relocation Plans prior to any utility relocation work beginning. The Design-Build Team shall also be responsible for submitting the appropriate agreements to be used with the Utility Relocation Plans (See Agreements Section found elsewhere in this Scope of Work). After the review process is complete, the NCDOT Utilities Unit will submit an electronic copy of the authorization letter to the Design-Build Team. The NCDOT Utilities Unit will also submit an electronic copy of the approved Utility Relocation Plans, estimate and agreement to the Department's Resident Engineer. If the Utility Relocation Plans are approved subject to changes, it shall be the Design-Build Team's responsibly to coordinate these changes with the appropriate utility owner.

#### **Compensable Interest:**

The NCDOT will be responsible for all other non-betterment utility relocation cost when the utility owner has prior rights of way / compensable interest. The utility owner shall be responsible for the

relocation costs if they cannot furnish evidence of prior rights of way or a compensable interest in their facilities.

The Design-Build Team shall be responsible for verifying / determining the cost responsibility (prior rights and compensable interest) for the utility relocations. Typically, affidavits, recorded easements or NCDOT agreements can serve as evidence of prior rights. A compensable interest is identified as follows:

- (A) Existing or prior easement rights within the limits of the project, either by recorded right of way or adverse possession (Utility occupying the same location for twenty (20) plus years outside the existing highway rights of way).
- (B) Entities covered under *General Statute 136-27.1* and *136-27.2*. Statute requires the NCDOT to pay the non-betterment cost for certain water, sewer and gas relocations.
- (C) Utilities that have a joint-use agreement that constitutes a compensable interest with entities that have existing or prior easements rights within the project limits.

The Design-Build Team shall be responsible for all costs associated with utility relocations due to haul roads and / or any other temporary conditions resulting from the Design-Build Team's methods of operation or sequence of work.

#### **Work Performed by Design-Build Team for Utility Owners:**

If the Design-Build Team elects to make arrangements with a utility owner for proposed utility construction not required herein, in which the Utility Owner shall be responsible for the costs of work to be performed by the Design-Build Team, the Design-Build Team shall be responsible for negotiating all costs associated with the proposed construction. Once the Design-Build Team and the Utility Owner agree on a plan and a lump sum estimated cost for the utility construction, the Design-Build Team shall be responsible for submitting electronically a set (half size and full size plans in pdf format) of utility construction drawings to the State Utilities Manager, via the Design-Build Unit, for further handling. Each set shall include a title sheet, plan sheets, profiles and special provisions if required. Also, a letter from the Utility Owner agreeing to the plans and lump sum cost must accompany this package. The NCDOT will reimburse the Design-Build Team the estimated lump sum cost under a Supplemental Agreement if the cost responsibility is NCDOT. The necessary Utility Agreement to the Utility Owner for reimbursement shall be a two party agreement between the NCDOT and the Utility Owner; and will be developed and executed by the Department.

If the Design-Build Team is requested, in writing, by a utility owner to relocate facilities not impacted by the project's construction, and/or betterment or incorporate new facilities as part of the highway construction, designs shall be coordinated with the Utility Owner and NCDOT Utilities Unit. The associated design and construction costs shall be negotiated and agreed upon between the Design-Build Team and the utility company. The Design-Build Team shall develop designs; prepare all plans for needed agreements and permits; submit permits directly to the agencies and obtain approval from the agencies. The Design-Build Team shall be responsible for all permit fees.

#### **Cable TV (CATV):**

The cost in relocating CATV due to the highway construction shall be the responsibility of the CATV Company; however, 1) if the CATV Company can validate a recorded easement for facilities outside

the maintained NCDOT right of way, the Department will bear the relocation expense; and 2) if the adjustment is needed on existing utility poles to accommodate a proposed NCDOT Traffic Management System Fiber Optic Communication Cable Project, the Design-Build Team shall be responsible for the relocation costs.

The NCDOT will not permit CATV to place poles within the highway rights of way but will allow down guys for their facilities within the highway rights of way. Under most circumstances, the CATV Company will continue a joint-use attachment with the local Power and Telephone Company. If the CATV proposed relocation places buried facilities within the highway rights of way then plans and encroachment agreements shall be required by the NCDOT.

**Bridge Attachments:**

No attachment of utilities to bridges will be allowed.

**General:**

The Design-Build Team shall not commence work at points where the highway construction operations are adjacent to utility facilities, until making arrangements with the utility company to protect against damage that might result in expense, loss, disruption of service or other undue inconvenience to the public or utility owner. The Design-Build Team shall be responsible for damage to the existing or relocated utilities resulting from the Team's operations. In the event of interruption of any utilities by the project construction, the Design-Build Team shall promptly notify the proper authority (Utility Owner) and cooperate with the owner in the prompt restoration of service.

If total property acquisition is unavoidable due to encroachment into wells and/or septic systems, then the Design-Build Team shall investigate and determine if extending water and/or sewer lines to the affected property is cost effective. If the Department concurs with the determination that a utility extension is cost effective, the costs associated with the utility construction shall be addressed in accordance with Article 104-7 of the January 2018 NCDOT *Standard Specifications for Roads and Structures*.

The Design-Build Team shall accommodate utility adjustments, reconstruction, new installation and routine maintenance work that may be underway or take place during the progress of the contract.

The Design-Build Team shall make arrangements to relocate water, sewer or gas facilities in which the entities are covered under General Statute 136-27.1 or 136-27.2 and/or occupy a compensable interest. If relocation of these facilities is required, a Use and Occupancy Agreement shall be executed through the Utilities Coordination Agent.

The Design-Build Team shall be required to use the guidelines as set forth in the following:

- (A) *NCDOT Utility Manual - Policies & Procedures for Accommodating Utilities on Highway Rights of Way* and the *NCDOT Utilities Policy Manual*. If the two aforementioned manuals contradict each other, the *Utilities Policy Manual* shall govern. Reference the website noted below for the current version of the NCDOT utility manuals, and additional information on the transition to the new utility manuals that shall be adhered to:

<https://connect.ncdot.gov/municipalities/Utilities/Pages/UtilitiesManuals.aspx>

- (B) *Federal Aid Policy Guide* - Subchapter G, Part 645, Subparts A & B
- (C) *Federal Highway Administration's Program Guide, Utility Adjustments & Accommodations on Federal Aid Highway Projects*
- (D) *NCDOT Construction Manual* Section 105-8
- (E) *NCDOT Right of Way Manual* - Chapter 16 Utility Relocations
- (F) *NCDEQ Public Water Supply* - Rules governing public water supply
- (G) *NCDEQ Division of Water Resources* - Title 15A - Environment and Natural Resources

### **Agreements:**

If a utility company can provide evidence of prior rights of way or a compensable interest in their facilities, the Design-Build Team shall coordinate the non-betterment utility relocation cost with the utility company and develop the Utility Relocation Agreement (URA's).

The State Utilities Manager must execute approved agreements on Design-Build highway projects. The URA's and Encroachment Agreements are available from the NCDOT Utilities Unit. Reference Pages 59 and 60 of the *NCDOT Utility Manual on Policies & Procedures for Accommodating Utilities on Highway Rights of Way* for the different types of encroachment agreements available for use.

The Design-Build Utility Coordinator shall perform a preliminary analysis of the highway project, identify potential utility conflicts and determine preliminary alignments and schedules for relocations for each utility company. The Design-Build Utility Coordinator shall provide the Utilities Analysis and Routing Report (UARR) (preliminary) depicting this information to NCDOT Utilities Unit via the Design-Build Unit, prior to Right-of-Way Plan submittal.

The Design-Build Team shall submit all agreements, and all supporting documents to the NCDOT State Utilities Manager, via the Design-Build Unit, in electronic format. Prior to submittal, all agreements shall be signed electronically by an authorized representative of the utility owner. These electronic agreement packets will be reviewed, approved and signed electronically by the NCDOT Utilities Manager, or designated representative, before being distributed to the field. The Design-Build Team shall utilize the NCDOT Standard Utility Encroachment Agreements, as necessary, in relocating utilities. The Utility Encroachment Agreements shall be used under the following conditions:

- (A) If a utility company is not occupying a valid right of way / compensable interest and the proposed relocation will place the relocated utilities within the existing or proposed highway rights of way.



- (B) For **all** new utility installations not covered under a Utility Agreement and within the existing or proposed highway rights of way. This includes all water, sewer and gas lines owned by entities covered under *General Statute 136-27.1* and *136-27.2*.

**RIGHT OF WAY SCOPE OF WORK**

(3-14-16 EDB)

**\*\* NOTE \*\* Prior to beginning the right of way acquisition process, the Design-Build Team shall meet with the appropriate NCDOT Location and Surveys, Right of Way and Design- Build Unit personnel.**

It is expected that the Design-Build Team, to the greatest extent practicable, perform construction activities within existing DOT right of way or maintenance limits as applicable. If additional right of way or easements are required, the Design-Build Team shall follow the procedures contained in this scope of work. The Design-Build Team shall be responsible for all right of way staking.

No additional contract time will be allowed for project designs that require the acquisition of additional ROW or easements.

Excluding acquisition services required outside of the project construction limits due solely to a rise in the floodplain water elevation on insurable structures, the Design-Build Team shall employ qualified, competent personnel who are currently **approved by the NCDOT Right of Way Branch**, herein after referred to as the Department, to provide all services necessary to perform all appraisal (except appraisal review and updated appraisals required solely for condemned parcels), negotiation and relocation services required for all right of way and easements, including but not limited to permanent utility easements, necessary for completion of the project in accordance with Session Law 2017-137 and G.S. 136-28.1 of the General Statutes of North Carolina, as amended, and in accordance with the requirements set forth in the *Uniform Appraisal Standards and General Legal Principles for Highway Right of Way*, the *North Carolina Department of Transportation's Right of Way Manual*, the *North Carolina Department of Transportation's Rules and Regulations for the Use of Right of Way Consultants*, the *Code of Federal Regulations*, and *Chapter 133 of the General Statutes of North Carolina from Section 133-5 through 133-18*, hereby incorporated by reference, including the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended. For a list of firms currently approved, the Design-Build Team should contact Mr. Neal Strickland, in the NCDOT Right of Way Branch, at 919-707-4364. The Design-Build Team shall perform the services as set forth herein and furnish and deliver to the Department reports accompanied by all documents necessary for the settlement of claims and the recordation of deeds, or necessary for condemnation proceedings covering said properties. The Design-Build Team, acting as an agent on behalf of the State of North Carolina, shall provide right of way acquisition services for all bridge replacement sites.

Acquisition services required outside of the project construction limits due solely to a rise in the floodplain water elevation on insurable structures will be considered extra work and paid for in accordance with Article 104-7 of the January 2018 NCDOT *Standard Specifications for Roads and Structures*.

**The Design-Build Team shall carry out the responsibilities as follows:**

- With respect to the payments, costs and fees associated with the acquisition of right of way in this contract, the Department will be responsible for only direct payments to property owners for negotiated settlements, recording fees, any relocation benefits, and deposits and fees involved in the filing of condemnation of any claims. The Department will assume responsibility for all costs associated with the litigation of condemned claims, including testimony by the appraiser(s). The Design-Build Team shall be responsible for all other acquisition related payments, costs and fees, including but not limited to attorney fees required for all non-condemnation acquisitions.
- A Department representative will be available to provide technical guidance on right of way acquisition procedures and to make timely decisions on approving relocation benefits and approving administrative adjustment settlements on behalf of the Department over and above the authority granted to the Department Right of Way Consultant Project Managers.
- The Design-Build Team shall submit a right of way project tracking report and right of way quality control plan to the Department. The Department standard forms and documents shall be used to the extent possible.
- The Design-Build Team shall provide a current title certificate for each parcel as of the date of closing or the date of filing of condemnation, unless required otherwise in the **March 10, 2022** NCDOT Right of Way Manual.
- The Design-Build Team shall prepare all Final Condemnation Reports. The Department will prepare all Condemnation Maps. For all plan revisions on condemned parcels that modify the area acquired, modify the Control of Access and/or impact the appraised value, the Design- Build Team shall be responsible for the following:
  - The Design-Build Team shall notify the Division Right of Way Agent, the Area Negotiator, Area Appraiser and the Attorney General, in writing, that revisions have been made that impact a condemned parcel, and provide updated plan sheets and revised area takes.
  - The Design-Build Team shall consult with the Attorney General and the Area Appraiser to determine the status of the negotiations and appraisal(s).
  - If the Attorney General and/or Area Appraiser recommend an updated appraisal, the Design-Build Team shall provide an updated Summary Sheet to the Area Appraiser for the Department's use in obtaining an updated appraisal(s).
  - Upon receipt of the approved updated appraisal(s), the Design-Build Team shall develop a revised written offer. If settlement is not reached, the Design-Build Team shall submit an updated Final Condemnation Report. If settlement is reached, the Design-Build Team

shall notify the Attorney General and Area Appraiser in writing and submit an updated Final Condemnation Report with all necessary documentation.

- The Department will be responsible for payment for the additional deposit to the Attorney General's Office and the Attorney General will prepare and file an Amendment to the Declaration of Taking.
- The following shall be required:
  - The Department shall provide right of way and easement descriptions in metes and bounds format (bearings and distances). The Design-Build Team shall provide exhibits, diagrams and/or other information required to draft the aforementioned descriptions.
  - In accordance with the NCDOT March 10, 2022 Right of Way Manual, the Design-Build Team may prepare red-line adjustments for parcels that are not condemned. The Department must approve a red-line adjustment in writing prior to the Design-Build Team making an offer based on the red-line adjustment.
  - The Design-Build Team shall prepare, execute and record documents conveying title to acquired properties to the Department with the Register of Deeds.
  - The Design-Build Team shall deliver all executed and recorded deeds and easements to the Department.
  - For all property purchased in conjunction with the project, title shall be acquired in fee simple or easement and shall be conveyed to "The North Carolina Department of Transportation", free and clear of all liens and encumbrances except permitted encumbrances.
- The Design-Build Team shall develop the following right of way items:
  - Right of Way series of plan sheets ("R/W" series of plan sheets) that delineate the existing property information, property ties, proposed centerline data, existing and proposed right of way, existing and proposed easements, and existing and proposed control of access. The "RW" series plan sheets shall be signed and sealed by a Professional Land Surveyor registered in the State of North Carolina. The Professional Land Surveyor's signature and seal shall attest that the right of way monuments were placed under their responsible charge.
  - A table of control points for the proposed centerline alignments ("D series of plan sheets).

- A table of proposed right of way and permanent easement control points (“E” series of plan sheets) that shall be signed and sealed by a Professional Land Surveyor registered in the State of North Carolina.
- It is understood and agreed by and between the parties hereto that all reports, surveys, studies, specifications, memoranda, estimates, etc., secured by and for the Design-Build Team shall become and remain the sole property of the Department upon termination or completion of the work, and the Department shall have the right to use same for any public purpose without compensation to the Design-Build Team.
- The Design-Build Team shall prepare appraisals in accordance with the Department’s *Uniform Appraisal Standards and General Legal Principles for Highway Right of Way Acquisitions*. The Design-Build Team’s appraiser shall be on the Department’s approved state certified appraiser list. The Design-Build Team may request its state certified appraiser be added to the approved state certified appraiser list, subject to approval by the Department’s State Appraiser.
- The Design-Build Team shall provide two appraisals for all appraisals over \$1,000,000.00.
- The NCDOT, or its agent, will provide appraisal reviews complying with The Department’s *Uniform Appraisal Standards and General Legal Principles for Highway Right of Way Acquisitions*. The reviewer will ensure that the appraisal meets the Department’s guidelines and requirements, conforms to acceptable appraisal standards and techniques, does not include any non-compensable items or exclude any compensable items and that the value conclusions are reasonable and based on facts presented in the appraisal. The reviewer has the authority to approve, adjust, request additional data or corrections, or not to recommend and request another appraisal. Within 10 business days from the date of receipt, all appraisals will be reviewed by NCDOT Review Appraisers or Review Appraisers under contract to the corresponding NCDOT Area Appraisal Office. The NCDOT will sign as approving any and all appraisals to be used in acquisition.
- The NCDOT will provide relocation reviews and approvals for ALL Replacement Housing Payment calculations and ALL Rent Supplement Payment calculations PRIOR TO these offers being made to the displacees. Within five (5) business days of the receipt of the Replacement Housing Payment or Rent Supplement payment calculation documentation, which shall include all documentation required for an Evaluation package, the Department will approve the calculation, and the signed Frm15-D will be returned to the Design-Build Team, or a request for an updated calculation or documentation will be presented to the Design-Build Team for further handling. At this time, the Relocation Coordinator in the NCDOT Right of Way Unit is the approving authority for the aforementioned calculations.
- ALL Claims for Payment involving relocation benefits must be submitted to the NCDOT Relocation Coordinator in the Right of Way Unit for approval and processing.
- The Design-Build Team shall provide a right of way certification prior to entering the property.

- The Design-Build Team shall prepare Right of Way Transmittal Summary and/or Narrative Appraisals for all right of way and easement acquisitions.
- In accordance with Chapter 133 of the *General Statutes of North Carolina*, Section 133-40, the Council of State must approve acquisition of property with contaminated soil. Thus, prior to acquiring right of way, control of access and/or easement from any parcel with contaminated soil, the Design-Build Team shall provide a written priority list of all properties with contaminated soil that require right of way, control of access and/or easement acquisition to the Division Right of Way Agent, the Area Negotiator, the Area Appraiser, and the State Property Agent. At a minimum the aforementioned priority list shall contain the following information:
  - Project Contract Number, description and county
  - Parcel number(s) requiring acquisition of contaminated soil
  - Acquisition Appraisal(s)
  - GeoEnvironmental Impact Evaluation and Hazardous Materials Report provided by the Department
  - Description, with metes and bounds, of the area(s) to be acquired

The Department will require 90 days from receipt of the information noted above to coordinate with the Council of State and obtain their approval for the acquisition of contaminated property.

### **Claims Less Than \$25,000**

For claims with compensation estimated to be less than \$25,000 with no damages, the Design-Build Negotiating Team's Project Manager may prepare Right of Way Claim Reports. The reports must be approved by the Division Right of Way Agent prior to any offer (written or oral) and must be accompanied by documentation showing the source of the estimates.

## \*\*\* STANDARD SPECIAL PROVISIONS \*\*\*

**VALUE ENGINEERING PROPOSALS**

(4-6-15)

104

DB01 G116

Value Engineering Proposals (VEP), as specified in Article 104-12 of the 2018 *Standard Specifications for Roads and Structures* will be accepted. Only proposals, which alter the Technical Proposal submitted by the Design-Build Team and / or the requirements of the RFP issued by the Department, will be considered as Value Engineering Proposals.

Revise the 2018 *Standard Specifications for Roads and Structures* as follows:

**Page 1-40, Subarticle 104-12(B), Evaluation of Proposals, lines 42-44**, replace the fourth sentence of the second paragraph with the following:

Pending execution of a formal supplemental agreement implementing an approved VEP and transfer of final plans (hard copy and electronic), sealed by an engineer licensed in the State of North Carolina, incorporating an approved VEP to the State Value Management Engineer, the Resident Engineer and the Design-Build Unit, the Design-Build Team shall remain obligated to perform the work in accordance with the terms of the existing contract with no additional contract time or compensation.

**Page 1-41, Subarticle 104-12(D), Preliminary Review, lines 9-12**, replace the first sentence of the first paragraph with the following:

Should the Design-Build Team desire a preliminary review of a possible VEP, prior to expending considerable time and expense in full development, a copy of the Preliminary VEP shall be concurrently submitted to the State Value Management Engineer at **ValueManagementUnit@ncdot.gov**, the Resident Engineer and the Design-Build Unit.

**Page 1-41, Subarticle 104-12(E), Final Proposal, lines 22-23**, replace the first sentence of the first paragraph with the following:

The Design-Build Team shall concurrently submit a copy of the Final VEP to the State Value Management Engineer at **ValueManagementUnit@ncdot.gov**, the Resident Engineer and the Design-Build Unit.

**Page 1-42, Subarticle 104-12(F), Modifications, lines 2-10**, replace the first paragraph with the following:

The preparation of new design drawings by the Design-Build Team shall be coordinated with the appropriate Department personnel through the State Value Management Engineer. The Design-Build Team shall provide, at no charge to the Department, one set of reproducible drawings of the approved design needed to implement the VEP. Drawings (hard copy and electronic) which are sealed by an engineer licensed in the State of North Carolina shall be concurrently submitted to the State Value Management Engineer, the Resident Engineer and the Design-Build Unit no later than ten (10) business days after acceptance of a VEP, unless otherwise permitted in writing.

**Page 1-43, Subarticle 104-12(F), Modifications, lines 1-5**, replace the eighth paragraph with the following:

Unless and until a supplemental agreement is executed and issued by the Department; and final plans (hard copy and electronic) sealed by an engineer licensed in the State of North Carolina incorporating an approved VEP have been concurrently provided to the State Value Management Engineer, the Resident Engineer and the Design-Build Unit, the Design-Build Team shall remain obligated to perform the work in accordance with the terms of the existing contract with no additional contract time or compensation.

### **PLANT AND PEST QUARANTINES**

#### **(Imported Fire Ant, Gypsy Moth, Witchweed, Emerald Ash Borer, Guava Root Knot Nematode, And Other Noxious Weeds)**

(3-18-03) (Rev. 5-21-19)

Z-04a

#### **Within Quarantined Area**

This project may be within a county regulated for plant and/or pests. If the project or any part of the Contractor's operations is located within a quarantined area, thoroughly clean all equipment prior to moving out of the quarantined area. Comply with federal/state regulations by obtaining a certificate or limited permit for any regulated article moving from the quarantined area.

#### **Originating in a Quarantined County**

Obtain a certificate or limited permit issued by the N.C. Department of Agriculture/United States Department of Agriculture. Have the certificate or limited permit accompany the article when it arrives at the project site.

#### **Contact**

Contact the N.C. Department of Agriculture/United States Department of Agriculture at 1-800-206-9333, 919-707-3730, or <https://www.ncagr.gov/plantindustry/Plant/quaran/table2.htm> to determine those specific project sites located in the quarantined area or for any regulated article used on this project originating in a quarantined county.

#### **Regulated Articles Include**

1. Soil, sand, gravel, compost, peat, humus, muck, and decomposed manure, separately or with other articles. This includes movement of articles listed above that may be associated with cut/waste, ditch pulling, and shoulder cutting.
2. Plants with roots including grass sod.
3. Plant crowns and roots.
4. Bulbs, corms, rhizomes, and tubers of ornamental plants.
5. Hay, straw, fodder, and plant litter of any kind.
6. Clearing and grubbing debris.



7. Used agricultural cultivating and harvesting equipment.
8. Used earth-moving equipment.
9. Any other products, articles, or means of conveyance, of any character, if determined by an inspector to present a hazard of spreading imported fire ant, gypsy moth, witchweed, emerald ash borer, guava root knot nematode, or other noxious weeds.

### **BRIDGE APPROACH FILLS**

(10-19-10) (Rev. 11-22-17)

422

DB4 R02A

#### **Description**

Bridge approach fills consist of backfilling behind bridge end bents with select material or aggregate to support all or portions of bridge approach slabs. Install drains to drain water from bridge approach fills and geotextiles to separate approach fills from embankment fills, ABC and natural ground as required. For bridge approach fills behind end bents with mechanically stabilized earth (MSE) abutment walls, reinforce bridge approach fills with MSE wall reinforcement connected to end bent caps. Construct bridge approach fills in accordance with the contract, accepted submittals and 2018 Roadway Standard Drawing No. 422.01 or 422.02 or Roadway Detail Drawing No. 422D10.

Define bridge approach fill types as follows:

*Approach Fills* – Bridge approach fills in accordance with 2018 Roadway Standard Drawing No. 422.01, 2018 Roadway Standard Drawing No. 422.02 or Roadway Detail Drawing No. 422D10

*Standard Approach Fill* – Type I Standard Bridge Approach Fill in accordance with 2018 Roadway Standard Drawing No. 422.01

*Modified Approach Fill* – Type II Modified Bridge Approach Fill in accordance with 2018 Roadway Standard Drawing No. 422.02

*Reinforced Approach Fill* – Type III Reinforced Bridge Approach Fill in accordance with Roadway Detail Drawing No. 422D10

#### **Materials**

Refer to Division 10 of the 2018 *Standard Specifications for Roads and Structures*.

<b>Item</b>	<b>Section</b>
Geotextiles, Type 1	1056
Portland Cement Concrete	1000
Select Materials	1016
Subsurface Drainage Materials	1044

Provide Type 1 geotextile for separation geotextiles and Class B concrete for outlet pads. Use Class V or Class VI select material for standard and modified approach fills. For an approach fill behind a bridge end bent with an MSE abutment wall, backfill the reinforced approach fill with the same aggregate type approved for the reinforced zone in the accepted MSE wall submittal. For MSE wall

aggregate, reinforcement and connector materials, see the *Mechanically Stabilized Earth Retaining Walls* provision. Provide PVC pipes, fittings and outlet pipes for subsurface drainage materials. For PVC drain pipes, use pipes with perforations that meet AASHTO M 278.

### Construction Methods

Excavate as necessary for approach fills in accordance with the contract. Notify the Engineer when foundation excavation is complete. Do not place separation geotextiles or aggregate until approach fill dimensions and foundation material are approved.

For reinforced approach fills, cast MSE wall reinforcement or connectors into end bent cap backwalls within 3" of locations shown in the accepted MSE wall submittals. Install MSE wall reinforcement with the orientation, dimensions and number of layers shown in the accepted MSE wall submittals. If a reinforced approach fill is designed with geogrid reinforcement embedded in an end bent cap, cut geogrids to the required lengths and after securing ends of geogrids in place, reroll and rewrap portions of geogrids not embedded in the cap to protect geogrids from damage. Before placing aggregate, pull geosynthetic reinforcement taut so that it is in tension and free of kinks, folds, wrinkles or creases.

Attach separation geotextiles to end bent cap backwalls and wing walls with adhesives, tapes or other approved methods. Overlap adjacent separation geotextiles at least 18" with seams oriented parallel to the roadway centerline. Hold geotextiles in place with wire staples or anchor pins as needed. Contact the Engineer when existing or future obstructions such as foundations, pavements, pipes, inlets or utilities will interfere with separation geotextiles or MSE wall reinforcement.

Install continuous perforated PVC drain pipes with perforations pointing down in accordance with 2018 Roadway Standard Drawing No. 422.01 or 422.02. Connect drain pipes to outlet pipes just beyond wing walls. Connect PVC pipes, fittings and outlet pipes with solvent cement in accordance with Article 815-3 of the 2018 *Standard Specifications for Roads and Structures* and place outlet pads in accordance with 2018 Roadway Standard Drawing No. 815.03.

Install drain pipes so water drains towards outlets. If the groundwater elevation is above drain pipe elevations, raise drains up to maintain positive drainage towards outlets. Place pipe sleeves in or under wing walls so water drains towards outlets. Use sleeves that can withstand wing wall loads.

Place select material or aggregate in 8" to 10" thick lifts. Compact fine aggregate for reinforced approach fills in accordance with Subarticle 235-3(C) of the 2018 *Standard Specifications for Roads and Structures* except compact fine aggregate to a density of at least 98%. Compact select material for standard or modified approach fills and coarse aggregate for reinforced approach fills with a vibratory compactor to the satisfaction of the Engineer. Do not displace or damage geosynthetics, MSE wall reinforcement or drains when placing and compacting select material or aggregate. End dumping directly on geosynthetics is not permitted. Do not operate heavy equipment on geosynthetics or drain pipes until they are covered with at least 8" of select material or aggregate. Replace any damaged geosynthetics or drains to the satisfaction of the Engineer. When approach fills extend beyond bridge approach slabs, wrap separation geotextiles over select material or aggregate as shown in 2018 Roadway Standard Drawing No. 422.01 or Roadway Detail Drawing No. 422D10.

For temporary walls, use welded wire reinforcement for welded wire facing and Type 5 geotextile for reinforcement geotextiles. Use Type 5 geotextile with lengths and an ultimate tensile strength as

**DL00283**

**Iredell County**

shown in 2018 Roadway Standard Drawing No. 422.03. Provide Type 1 geotextile for separation geotextiles and Class B concrete for outlet pads. Use Class V or Class VI select material for alternate approach fills and temporary walls. Provide PVC pipes, fittings and outlet pipes for subsurface drainage materials. For PVC drain pipes, use pipes with perforations that meet AASHTO M 278.

**SUBSURFACE DRAINAGE**

(9-1-11) (Rev. 9-14-17)

DB8 R05

Revise the *2018 Standard Specifications for Roads and Structures* as follows:

**Page 8-11, Article 815-1, Delete the first sentence and replace with the following:**

The Design-Build Team shall construct subsurface drains, underdrains, blind drains and other types of drains where groundwater is within six feet of subgrade.

**GUARDRAIL END UNITS, TYPE TL-3**

(4-20-04) (Rev. 6-6-17)

862

DB8 R65

**Description**

Furnish and install guardrail end units in accordance with the details in the plans developed by the Design-Build Team, the applicable requirements of Section 862 of the *2018 Standard Specifications for Roads and Structures*, and at locations shown in the plans developed by the Design-Build Team.

**Materials**

The Design-Build Team shall furnish guardrail end units listed on the NCDOT Approved Products List at <https://apps.ncdot.gov/vendor/approvedproducts/> or approved equal.

Prior to installation, the Design-Build Team shall submit to the Engineer:

1. FHWA acceptance letter for each guardrail end unit certifying it meets the requirements of the AASHTO Manual for Assessing Safety Hardware, Test Level 3, in accordance with Article 106-2 of the *2018 Standard Specifications for Roads and Structures*.
2. Certified working drawings and assembling instructions from the manufacturer for each guardrail end unit in accordance with Article 105-2 of the *2018 Standard Specifications for Roads and Structures*.

No modifications shall be made to the guardrail end unit without the express written permission from the manufacturer. Perform installation in accordance with the details in the plans developed by the Design-Build Team, and details and assembling instructions furnished by the manufacturer.

**Construction Methods**

Guardrail end delineation shall be required on all approach and trailing end sections for both temporary and permanent installations. Guardrail end delineation shall consist of yellow reflective sheeting applied to the entire end section of the guardrail in accordance with Article 1088-3 of the *2018 Standard Specifications for Roads and Structures*.

**ON-THE-JOB TRAINING**

(2-24-15) (Rev. 7-20-17)

Z-10

**Description**

The North Carolina Department of Transportation will administer a custom version of the Federal On-the-Job Training (OJT) Program, commonly referred to as the Alternate OJT Program. All contractors (existing and newcomers) will be automatically placed in the Alternate Program. Standard OJT requirements typically associated with individual projects will no longer be applied at the project level. Instead, these requirements will be applicable on an annual basis for each contractor administered by the OJT Program Manager.

On the Job Training shall meet the requirements of 23 CFR 230.107 (b), 23 USC – Section 140, this provision and the On-the-Job Training Program Manual.

The Alternate OJT Program will allow a contractor to train employees on Federal, State and privately funded projects located in North Carolina. However, priority shall be given to training employees on NCDOT Federal-Aid funded projects.

**Minorities and Women**

Developing, training and upgrading of minorities and women toward journeyman level status is a primary objective of this special training provision. Accordingly, the Contractor shall make every effort to enroll minority and women as trainees to the extent that such persons are available within a reasonable area of recruitment. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

**Assigning Training Goals**

The Department, through the OJT Program Manager, will assign training goals for a calendar year based on the contractors' past three years' activity and the contractors' anticipated upcoming year's activity with the Department. At the beginning of each year, all contractors eligible will be contacted by the Department to determine the number of trainees that will be assigned for the upcoming calendar year. At that time the Contractor shall enter into an agreement with the Department to provide a self-imposed on-the-job training program for the calendar year. This agreement will include a specific number of annual training goals agreed to by both parties. The number of training assignments may range from 1 to 15 per contractor per calendar year. The Contractor shall sign an agreement to fulfill their annual goal for the year.

**Training Classifications**

The Contractor shall provide on-the-job training aimed at developing full journeyman level workers in the construction craft / operator positions. Preference shall be given to providing training in the following skilled work classifications:

- |                     |                                  |
|---------------------|----------------------------------|
| Equipment Operators | Office Engineers                 |
| Truck Drivers       | Estimators                       |
| Carpenters          | Iron / Reinforcing Steel Workers |
| Concrete Finishers  | Mechanics                        |

## Pipe Layers

## Welders

The Department has established common training classifications and their respective training requirements that may be used by the contractors. However, the classifications established are not all-inclusive. Where the training is oriented toward construction applications, training will be allowed in lower-level management positions such as office engineers and estimators. Contractors shall submit new classifications for specific job functions that their employees are performing. The Department will review and recommend for acceptance to FHWA the new classifications proposed by contractors, if applicable. New classifications shall meet the following requirements:

Proposed training classifications are reasonable and realistic based on the job skill classification needs, and

The number of training hours specified in the training classification is consistent with common practices and provides enough time for the trainee to obtain journeyman level status.

The Contractor may allow trainees to be trained by a subcontractor provided that the Contractor retains primary responsibility for meeting the training and this provision is made applicable to the subcontract. However, only the Contractor will receive credit towards the annual goal for the trainee.

Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training. The number of trainees shall be distributed among the work classifications on the basis of the contractor's needs and the availability of journeymen in the various classifications within a reasonable area of recruitment.

No employee shall be employed as a trainee in any classification in which they have successfully completed a training course leading to journeyman level status or in which they have been employed as a journeyman.

### **Records and Reports**

The Contractor shall maintain enrollment, monthly and completion reports documenting company compliance under these contract documents. These documents and any other information as requested shall be submitted to the OJT Program Manager.

Upon completion and graduation of the program, the Contractor shall provide each trainee with a certification Certificate showing the type and length of training satisfactorily completed.

### **Trainee Interviews**

All trainees enrolled in the program will receive an initial and Trainee / Post graduate interview conducted by the OJT program staff.

### **Trainee Wages**

Contractors shall compensate trainees on a graduating pay scale based upon a percentage of the prevailing minimum journeyman wages (Davis-Bacon Act). Minimum pay shall be as follows:

60 percent	of the journeyman wage for the first half of the training period
75 percent	of the journeyman wage for the third quarter of the training period

90 percent of the journeyman wage for the last quarter of the training period

In no instance shall a trainee be paid less than the local minimum wage. The Contractor shall adhere to the minimum hourly wage rate that will satisfy both the NC Department of Labor (NCDOL) and the Department.

### **Achieving or Failing to Meet Training Goals**

The Contractor will be credited for each trainee employed by him on the contract work who is currently enrolled or becomes enrolled in an approved program and who receives training for at least 50 percent of the specific program requirement. Trainees will be allowed to be transferred between projects if required by the Contractor's scheduled workload to meet training goals.

If a contractor fails to attain their training assignments for the calendar year, they may be taken off the NCDOT's Bidders List.

### **Measurement and Payment**

No compensation will be made for providing required training in accordance with these contract documents.

## STANDARD SPECIAL PROVISION

**AVAILABILITY OF FUNDS – TERMINATION OF CONTRACTS**

(9-1-11)

Z-2

*General Statute 143C-6-11. (h) Highway Appropriation* is hereby incorporated verbatim in this contract as follows:

“(h) Amounts Encumbered – Transportation project appropriations may be encumbered in the amount of allotments made to the Department of Transportation by the Director for the estimated payments for transportation project contract work to be performed in the appropriation fiscal year. The allotments shall be multiyear allotments and shall be based on estimated revenues and shall be subject to the maximum contract authority contained in *General Statute 143C-6-11(c)*. Payment for transportation project work performed pursuant to contract in any fiscal year other than the current fiscal year is subject to appropriations by the General Assembly. Transportation project contracts shall contain a schedule of estimated completion progress, and any acceleration of this progress shall be subject to the approval of the Department of Transportation provided funds are available. The State reserves the right to terminate or suspend any transportation project contract, and any transportation project contract shall be so terminated or suspended if funds will not be available for payment of the work to be performed during that fiscal year pursuant to the contract. In the event of termination of any contract, the contractor shall be given a written notice of termination at least 60 days before completion of scheduled work for which funds are available. In the event of termination, the contractor shall be paid for the work already performed in accordance with the contract specifications.”

Payment will be made on any contract terminated pursuant to the special provision in accordance with Article 108-13(E), of the *North Carolina Department of Transportation Standard Specifications for Roads and Structures*, dated January 2018 and as amended by the Standard Special Provision, Division One found elsewhere in this RFP.

## \*\*\* STANDARD SPECIAL PROVISIONS \*\*\*

**NCDOT GENERAL SEED SPECIFICATIONS FOR SEED QUALITY**

(5-7-11)

Z-3

Seed shall be sampled and tested by the North Carolina Department of Agriculture and Consumer Services, Seed Testing Laboratory. When said samples are collected, the vendor shall supply an independent laboratory report for each lot to be tested. Results from seed so sampled shall be final. Seed not meeting the specifications shall be rejected by the Department of Transportation and shall not be delivered to North Carolina Department of Transportation warehouses. If seed has been delivered it shall be available for pickup and replacement at the supplier's expense.

Any re-labeling required by the North Carolina Department of Agriculture and Consumer Services, Seed Testing Laboratory, that would cause the label to reflect as otherwise specified herein shall be rejected by the North Carolina Department of Transportation.

Seed shall be free from seeds of the noxious weeds Johnsongrass, Balloonvine, Jimsonweed, Witchweed, Itchgrass, Serrated Tussock, Showy Crotalaria, Smooth Crotalaria, Sicklepod, Sandbur, Wild Onion, and Wild Garlic. Seed shall not be labeled with the above weed species on the seed analysis label. Tolerances as applied by the Association of Official Seed Analysts will NOT be allowed for the above noxious weeds except for Wild Onion and Wild Garlic.

Tolerances established by the Association of Official Seed Analysts will generally be recognized. However, for the purpose of figuring pure live seed, the found pure seed and found germination percentages as reported by the North Carolina Department of Agriculture and Consumer Services, Seed Testing Laboratory will be used. Allowances, as established by the NCDOT, will be recognized for minimum pure live seed as listed on the following pages.

The specifications for restricted noxious weed seed refers to the number per pound as follows:

<b>Restricted Noxious Weed</b>	<b>Limitations per Lb. of Seed</b>	<b>Restricted Noxious Weed</b>	<b>Limitations per Lb. of Seed</b>
Blessed Thistle	4 seeds	Cornflower (Ragged Robin)	27 seeds
Cocklebur	4 seeds	Texas Panicum	27 seeds
Spurred Anoda	4 seeds	Bracted Plantain	54 seeds
Velvetleaf	4 seeds	Buckhorn Plantain	54 seeds
Morning-glory	8 seeds	Broadleaf Dock	54 seeds
Corn Cockle	10 seeds	Curly Dock	54 seeds
Wild Radish	12 seeds	Dodder	54 seeds
Purple Nutsedge	27 seeds	Giant Foxtail	54 seeds
Yellow Nutsedge	27 seeds	Horsenettle	54 seeds
Canada Thistle	27 seeds	Quackgrass	54 seeds
Field Bindweed	27 seeds	Wild Mustard	54 seeds
Hedge Bindweed	27 seeds		



Seed of Pensacola Bahiagrass shall not contain more than 7% inert matter, Kentucky Bluegrass, Centipede and Fine or Hard Fescue shall not contain more than 5% inert matter whereas a maximum of 2% inert matter will be allowed on all other kinds of seed. In addition, all seed shall not contain more than 2% other crop seed nor more than 1% total weed seed. The germination rate as tested by the North Carolina Department of Agriculture shall not fall below 70%, which includes both dormant and hard seed. Seed shall be labeled with not more than 7%, 5% or 2% inert matter (according to above specifications), 2% other crop seed and 1% total weed seed.

Exceptions may be made for minimum pure live seed allowances when cases of seed variety shortages are verified. Pure live seed percentages will be applied in a verified shortage situation. Those purchase orders of deficient seed lots will be credited with the percentage that the seed is deficient.

FURTHER SPECIFICATIONS FOR EACH SEED GROUP ARE GIVEN BELOW:

Minimum 85% pure live seed; maximum 1% total weed seed; maximum 2% total other crop seed; maximum 144 restricted noxious weed seed per pound. Seed less than 83% pure live seed will not be approved.

- Sericea Lespedeza
- Oats (seeds)

Minimum 80% pure live seed; maximum 1% total weed seed; maximum 2% total other crop; maximum 144 restricted noxious weed seed per pound. Seed less than 78% pure live seed will not be approved.

- |                                      |                            |
|--------------------------------------|----------------------------|
| Tall Fescue (all approved varieties) | Bermudagrass               |
| Kobe Lespedeza                       | Browntop Millet            |
| Korean Lespedeza                     | German Millet - Strain R   |
| Weeping Lovegrass                    | Clover - Red/White/Crimson |
| Carpetgrass                          |                            |

Minimum 78% pure live seed; maximum 1% total weed seed; maximum 2% total other crop seed; maximum 144 restricted noxious weed seed per pound. Seed less than 76% pure live seed will not be approved.

- Common or Sweet Sundangrass

Minimum 76% pure live seed; maximum 1% total weed seed; maximum 2% total other crop seed; maximum 144 restricted noxious weed seed per pound. Seed less than 74% pure live seed will not be approved.

- Rye (grain; all varieties)
- Kentucky Bluegrass (all approved varieties)
- Hard Fescue (all approved varieties)
- Shrub (bicolor) Lespedeza

Minimum 70% pure live seed; maximum 1% total weed seed; maximum 2% total other crop seed; maximum 144 noxious weed seed per pound. Seed less than 70% pure live seed will not be approved.

Centipedegrass  
Crownvetch  
Pensacola Bahiagrass  
Creeping Red Fescue

Japanese Millet  
Reed Canary Grass  
Zoysia

Minimum 70% pure live seed; maximum 1% total weed seed; maximum 2% total other crop seed; maximum 5% inert matter; maximum 144 restricted noxious weed seed per pound.

Barnyard Grass  
Big Bluestem  
Little Bluestem  
Bristly Locust  
Birdsfoot Trefoil  
Indiangrass  
Orchardgrass  
Switchgrass  
Yellow Blossom Sweet Clover

## \*\*\* STANDARD SPECIAL PROVISIONS \*\*\*

**AWARD OF CONTRACT**

(6-28-77)(Rev. 1-8-16)

Z-6

“The North Carolina Department of Transportation, in accordance with the provisions of *Title VI of the Civil Rights Act of 1964* (78 Stat. 252) and the Regulations of the Department of Transportation (49 C.F.R., Part 21), issued pursuant to such act, hereby notifies all bidders that it will affirmatively insure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the ground of race, color, or national origin”.

**TITLE VI AND NONDISCRIMINATION****I. Title VI Assurance**

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

**(1) Compliance with Regulations:** The contractor shall comply with the Regulation relative to nondiscrimination in Federally-assisted programs of the Department of Transportation (hereinafter, "DOT") Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

**(2) Nondiscrimination:** The Contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

**(3) Solicitations for Subcontractors, Including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.

**(4) Information and Reports:** The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the North Carolina Department of Transportation (NCDOT) or the Federal Highway Administration (FHWA) to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information the contractor shall so certify to the NCDOT, or the FHWA as appropriate, and shall set forth what efforts it has made to obtain the information.

**(5) Sanctions for Noncompliance:** In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the NCDOT shall impose such contract sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:

- (a) Withholding of payments to the contractor under the contract until the contractor complies, and / or
- (b) Cancellation, termination or suspension of the contract, in whole or in part.

**(6) Incorporation of Provisions:** The contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto.

The contractor shall take such action with respect to any subcontractor procurement as the NCDOT or the FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance: provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the NCDOT to enter into such litigation to protect the interests of the NCDOT, and, in addition, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

## **II. Title VI Nondiscrimination Program**

Title VI of the 1964 Civil Rights Act, 42 U.S.C. 2000d, provides that: "No person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance." The broader application of nondiscrimination law is found in other statutes, executive orders, and regulations (see Section III, Pertinent Nondiscrimination Authorities), which provide additional protections based on age, sex, disability and religion. In addition, the 1987 Civil Rights Restoration Act extends nondiscrimination coverage to all programs and activities of federal-aid recipients and contractors, including those that are not federally-funded.

### *Nondiscrimination Assurance*

The North Carolina Department of Transportation (NCDOT) hereby gives assurance that no person shall on the ground of race, color, national origin, sex, age, and disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity conducted by the recipient, as provided by Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987, and any other related Civil Rights authorities, whether those programs and activities are federally funded or not.

### *Obligation*

During the performance of this contract, the Contractor and its subcontractors are responsible for complying with NCDOT's Title VI Program. The Contractor must ensure that NCDOT's Notice of Nondiscrimination is posted in conspicuous locations accessible to all employees and subcontractors on the jobsite, along with the Contractor's own Equal Employment Opportunity

(EEO) Policy Statement. The Contractor shall physically incorporate this “**TITLE VI AND NONDISCRIMINATION**” language, in its entirety, into all its subcontracts on federally-assisted and state-funded NCDOT-owned projects, and ensure its inclusion by subcontractors into all subsequent lower tier subcontracts. The Contractor and its subcontractors shall also physically incorporate the **FHWA-1273**, in its entirety, into all subcontracts and subsequent lower tier subcontracts on Federal-aid highway construction contracts only. The Contractor is also responsible for making its subcontractors aware of NCDOT’s Discrimination Complaints Process, as follows:

### **FILING OF COMPLAINTS**

1. **Applicability** – These complaint procedures apply to the beneficiaries of the NCDOT’s programs, activities, and services, including, but not limited to, members of the public, contractors, subcontractors, consultants, and other sub-recipients of federal and state funds.
2. **Eligibility** – Any person or class of persons who believes he/she has been subjected to discrimination or retaliation prohibited by any of the Civil Rights authorities, based upon race, color, sex, age, national origin, or disability, may file a written complaint with NCDOT’s Civil Rights office. The law prohibits intimidation or retaliation of any sort. The complaint may be filed by the affected individual or a representative, and must be in writing.
3. **Time Limits and Filing Options** – A complaint must be filed no later than 180 calendar days after the following:
  - The date of the alleged act of discrimination; or
  - The date when the person(s) became aware of the alleged discrimination; or
  - Where there has been a continuing course of conduct, the date on which that conduct was discontinued or the latest instance of the conduct.

Title VI and other discrimination complaints may be submitted to the following entities:

- **North Carolina Department of Transportation**, Office of Equal Opportunity & Workforce Services (EOWS), External Civil Rights Section, 1511 Mail Service Center, Raleigh, NC 27699-1511; 919-508-1808 or toll free 800-522-0453
- **US Department of Transportation**, Departmental Office of Civil Rights, External Civil Rights Programs Division, 1200 New Jersey Avenue, SE, Washington, DC 20590; 202-366-4070

**Federal Highway Administration**, North Carolina Division Office, 310 New Bern Avenue, Suite 410, Raleigh, NC 27601, 919-747-7010

**Federal Highway Administration**, Office of Civil Rights, 1200 New Jersey Avenue, SE, 8<sup>th</sup> Floor, E81-314, Washington, DC 20590, 202-366-0693; 202-366-0752

**Federal Transit Administration**, Office of Civil Rights, ATTN: Title VI Program Coordinator, East Bldg. 5<sup>th</sup> Floor – TCR, 1200 New Jersey Avenue, SE, Washington, DC 20590

**Federal Aviation Administration**, Office of Civil Rights, 800 Independence Avenue, SW, Washington, DC 20591, 202-267-3258

➤ **US Department of Justice**, Special Litigation Section, Civil Rights Division, 950 Pennsylvania Avenue, NW, Washington, DC 20530, 202-514-6255 or toll free 877-218-5228

4. **Format for Complaints** – Complaints must be in **writing** and **signed** by the complainant(s) or a representative and include the complainant’s name, address, and telephone number. Complaints received by fax or e-mail will be acknowledged and processed. Allegations received by telephone will be reduced to writing and provided to the complainant for confirmation or revision before processing. Complaints will be accepted in other languages including Braille.
5. **Discrimination Complaint Form** – Contact NCDOT EOWS at the phone number above to receive a full copy of the Discrimination Complaint Form and procedures.
6. **Complaint Basis** – Allegations must be based on issues involving race, color, national origin, sex, age, or disability. The term “basis” refers to the complainant’s membership in a protected group category. Contact this office to receive a Discrimination Complaint Form.

Protected Categories	Definition	Examples	Applicable Statutes and Regulations	
			FHWA	FTA
Race	An individual belonging to one of the accepted racial groups; or the perception, based usually on physical characteristics that a person is a member of a racial group	Black / African American, Hispanic / Latino, Asian, American Indian / Alaska Native, Native Hawaiian / Pacific Islander / White	Title VI of the Civil Rights Act of 1964; 49 CFR Part 21; 23 CFR 200	Title VI of the Civil Rights Act of 1964; 49 CFR Part 21; Circular 4702.1B
Color	Color of skin, including shade of skin within a racial group	Black / White / Brown / Yellow / etc.		
National Origin	Place of birth. Citizenship is not a factor. Discrimination based on language or a person's accent is also covered.	Mexican / Cuban / Japanese / Vietnamese / Chinese		
Sex	Gender	Women and Men	1973 Federal-Aid Highway Act	Title IX of the Education Amendments of 1972
Age	Persons of any age	21-year-old person	Age Discrimination Act of 1975	
Disability	Physical or mental impairment, permanent or temporary or perceived.	Blind / Alcoholic / Para-amputee / Epileptic / Diabetic / Arthritic	Section 504 of the Rehabilitation Act of 1973; Americans with Disabilities Act of 1990	

### III. Pertinent Nondiscrimination Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest agrees to comply with the following non-discrimination statutes and authorities, including, but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.*), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);

- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).
- Title VII of the Civil Rights Act of 1964 (42 U.S.C. § 2000e *et seq.*, Pub. L. 88-352), (prohibits employment discrimination on the basis of race, color, religion, sex, or national origin);
- 49 CFR Part 26, regulation to ensure nondiscrimination in the award and administration of DOT-assisted contracts in the Department's highway, transit, and airport financial assistance programs, as regards the use of Disadvantaged Business Enterprises (DBEs);
- Form FHWA-1273, “Required Contract Provisions,” a collection of contract provisions and proposal notices that are generally applicable to *all Federal-aid construction projects* and must be made a part of, and physically incorporated into, *all federally-assisted contracts*, as well as appropriate subcontracts and purchase orders, particularly Sections II (Nondiscrimination) and III (Nonsegregated Facilities).



**MINIMUM WAGES**

(07-21-09)

Z-5

**FEDERAL:** The Fair Labor Standards Act provides that with certain exceptions every employer must pay wages at the rate of not less than SEVEN DOLLARS AND TWENTY-FIVE CENTS (\$7.25) per hour.

**STATE:** The North Carolina Minimum Wage Act provides that every employer shall pay to each of his employee's wages at a rate of not less than SEVEN DOLLARS AND TWENTY-FIVE CENTS (\$7.25) per hour.

The minimum wage paid to all skilled labor employed on this contract shall be SEVEN DOLLARS AND TWENTY-FIVE CENTS (\$7.25) per hour.

The minimum wage paid to all intermediate labor employed on this contract shall be SEVEN DOLLARS AND TWENTY-FIVE CENTS (\$7.25) per hour.

The minimum wage paid to all unskilled labor on this contract shall be SEVEN DOLLARS AND TWENTY-FIVE CENTS (\$7.25) per hour.

The determination of the intent of the application of these Acts to the project's contract shall be the Design-Build Team's responsibility.

The Design-Build Team shall have no claim against the Department of Transportation for any changes in the minimum wage laws, State or Federal. It is the responsibility of the Design-Build Team to be fully informed of all Federal and State Laws affecting the project's contract.

**\*\*\* STANDARD SPECIAL PROVISIONS \*\*\***

(11-15-17) EDB

**DIVISION ONE OF STANDARD SPECIFICATIONS**

**Division One of the 2018 NCDOT Standard Specifications for Roads and Structures (Standard Specifications) shall apply except as follows:**

**Definitions:** Throughout Division One of the *Standard Specifications*, the term “Contractor” is replaced with “Design-Build Team”, the term “Bidder” is replaced with “Proposer,” and the term “Bid” is replaced by “Price Proposal.” The replacement of “Contractor” with “Design-Build Team” does not apply to Article 102-2. The replacement of the above terms also does not apply when the terms are part of a phrase (e.g. bid bond, prime contractor, total amount bid, etc.)

**Deletions:** Articles 102-4 and 103-4(C) of the 2018 *Standard Specifications* are deleted from Design-Build Contracts.

**Modifications:** The remainder of this Standard Special Provision includes modifications to Division One of the *Standard Specifications*.

**SECTION 101  
DEFINITION OF TERMS**

**Page 1-3, Article 101-3, replace and add certain definitions as follows:**

**ADDITIONAL WORK**

Additional work is that which results from a change or alteration to the contract and for which there are contract unit prices in the original contract or an executed supplemental agreement.

**ADVERTISEMENT**

The public advertisement inviting Statements of Qualifications for the design and construction of specific projects.

**AWARD**

The decision of the Department of Transportation to accept the proposal of the selected Design-Build Team for work which is subject to the furnishing of payment and performance bonds, and such other conditions as may be otherwise provided by law, the Request for Proposals, and the *Standard Specifications*.

**CONTRACT**

The executed agreement between the Department and the successful proposer, covering the performance of, and compensation for, the work. The term contract is all inclusive with reference to all written and electronic agreements affecting a contractual relationship and all documents referred to therein. The contract shall include, but not be limited to, the Request for Proposals, the Price Proposal, the printed contract form and attachments, contract bonds, plans and associated special provisions prepared by the Design-Build Team, standard specifications and supplemental specifications, standard special provisions and project special provisions contained in the Request for

Proposals or as developed by the Design-Build Team and accepted by the Department, and all executed supplemental agreements. The contract shall constitute one instrument.

All references to contracts shall include electronic agreements and printed paper agreements. These may include, but not be limited to, the electronic bid bond, Non-Collusion Affidavit, Debarment Certification, Gift Ban Certification and award limits.

The contract shall constitute one instrument.

**DATE OF AVAILABILITY**

That date, established as set forth in the Request for Proposals, by which it is anticipated that the Contract will be executed and sufficient design efforts or work sites within the project limits will be available for the Design-Build Team to begin his controlling operations or design.

**DESIGN-BUILD**

A form of contracting in which the successful proposer undertakes responsibility for both the design and construction of a project.

**DESIGN-BUILD TEAM**

An individual, partnership, joint venture, corporation or other legal entity that furnishes the necessary design and construction services, whether by itself or through subcontracts.

**PLANS**

The project plans, Standard Drawings, working drawings and supplemental drawings, or reproductions thereof, accepted by the Engineer, which show the location, character, dimensions and details of the work to be performed. Unless otherwise noted within the Request for Proposals, the term “plans” refers to plans as developed by the Design-Build Team and accepted by the Department.

(A) Standard Drawings:

Drawings approved for repetitive use, showing details to be used where appropriate. All Standard Drawings approved by the Department plus subsequent revisions and additions. Standard Drawings are available for purchase from:

State Contract Officer  
1591 Mail Service Center  
Raleigh, NC 27699-1591

(B) Preliminary Plans:

Department-furnished drawings distributed in concert with a Request for Proposals, or as developed by the Design-Build Team.

**(C) Project Plans:**

Construction drawings prepared, sealed and completed by the Design-Build Team, or as provided by the Department, that contain specific details and dimensions peculiar to the work.

**(D) Working Drawings and Supplemental Drawings:**

Supplemental design sheets, shop drawings, or similar data which the Design-Build Team is required to submit to the Engineer.

**(E) As-Constructed Drawings:**

Red-lined mark-up of the latest Released for Construction (RFC) Plans containing the information listed under As-Constructed Plans in the Records and Reports Section of the NCDOT Construction Manual.

**(F) As-Built Plans:**

Coordinately correct plans documenting the details, dimensions and locations of the completed work.

**PRICE PROPOSAL**

The offer of a Proposer, submitted electronically, to perform the work and furnish the labor and materials at the price quoted.

**PROPOSER**

An individual, partnership, firm, corporation, LLC, or joint venture formally submitting a Price Proposal in response to a Request for Proposals.

**RIGHT OF WAY**

The land area shown on the plans as right of way within which the project is to be constructed.

**SCHEDULE OF VALUES**

A schedule of work items necessary to complete work, along with the progress of each work item, primarily for the purpose of partial payments.

**TABLE OF QUANTITIES**

A listing of work items (corresponding to the items in the Trns\*port pay item list) that contributes to a project completion. The table shall include estimated quantities for each work item.

**SECTION 102  
PROPOSAL REQUIREMENTS AND CONDITIONS**

**Page 1-9, delete Article 102-1 and replace with the following:**

**102-1 INVITATION TO BID**

After the advertisement has been made, an Invitation to Bid will be made available to known prequalified contractors and any other contracting firms, material suppliers and other interested parties who have requested they be placed on the Invitation to Bid mailing list, informing them that Statements of Qualifications and Proposals will be received for the construction of specific projects. Such invitation will indicate the contract identification number, length, locations and descriptions; a general summary of the scope of work to be performed; and information on how to receive a Request for Qualifications.

All projects will be advertised in daily newspapers throughout the state before the bid opening.

**Page 1-12, delete Article 102-3 and replace with the following:**

**102-3 REQUEST FOR PROPOSALS**

A Request for Proposals will be furnished by the Department to the selected proposers from among the respondents to the Request for Qualifications. This Request for Proposals will state the location of the project and will show a schedule of contract items for which Price Proposals are invited. It will set forth the date and time Price Proposals will be read. The Request for Proposals will also include special provisions or requirements that vary from or are not contained in any preliminary design information or standard specifications.

Standard specifications, sealed plans specifically identified as the Department's responsibility and other documents designated in the Request for Proposals shall be considered a part of the Request for Proposals whether or not they are attached thereto.

The names and identity of each prospective Proposer that receives a copy of the Request for Qualifications for the purposes of submitting a Statement of Qualifications shall be made public, except that a potential Proposer who obtains a Request for Qualifications may, at the time of ordering, request that his name remain confidential.

One copy of the Final Request for Proposals will be furnished to each prospective Proposer upon request. Additional copies may be purchased for the sum of \$25 each.

The Proposer shall submit their Price Proposal electronically in accordance with Article 102-8(B).

**Page 1-14, Article 102-7, 4<sup>th</sup> paragraph, delete the first two sentences and replace with the following:**

Details shown in the subsurface investigation report are preliminary only. The subsurface investigation and subsurface report, if provided, is done so for information purposes only.

**Pages 1-18, delete Article 102-12 and replace with the following:**

**102-12 WITHDRAWAL OR REVISION OF BIDS**

A Design-Build Team may change its Price Proposal as many times as desired before the advertised priced proposal opening time specified in the Request for Proposal. The latest time stamped electronically submitted Price Proposal before the advertised price proposal opening time will constitute the Price Proposal.

Withdrawal of a bid after the date and time set for the opening of the Price Proposals will be permitted only in accordance with Article 103-3 or otherwise approved by the Chief Engineer.

**Page 1-19, Article 102-13, replace “Invitation to Bid” with “Request for Proposals” in all instances.**

**Page 1-19, Article 102-13, add the following after Bullet (B):**

(C) Has been shortlisted by the Department to bid on for this contract.

**102-13 RECEIPT AND OPENING OF BIDS**

Price Proposals from shortlisted Proposers will be opened and read publicly on the date and time indicated in the Request for Proposals. Proposers, their authorized agents, and other interested parties are invited to be present.

**Page 1-19, Article 102-14, replace the 1<sup>st</sup> paragraph with the following:**

**102-14 REJECTION OF BIDS**

Any Price Proposal submitted which fails to comply with any of the requirements of Articles 102-8, 102-9 or 102-10, or with the requirements of the project scope and specifications shall be considered irregular and may be rejected. A Price Proposal that does not contain costs for all proposal items shall be considered irregular and may be rejected.

**SECTION 103  
AWARD AND EXECUTION OF CONTRACT**

**Page 1-29, Article 103-6, delete the 1<sup>st</sup> and 2<sup>nd</sup> paragraphs and replace with the following:**

Checks that have been furnished as a bid deposit will be retained until after the contract bonds have been furnished by the successful proposer, at which time the checks that were furnished as a bid deposit will be returned.

## SCOPE OF WORK

**Page 1-30, delete Article 104-1 and replace with the following:**

### **104-1 INTENT OF CONTRACT**

The intent of the contract is to prescribe the work or improvements that the Design-Build Team undertakes to perform, in full compliance with the contract documents. In case the method of construction or character of any part of the work is not covered by the contract, this section shall apply. The Design-Build Team shall perform all work in accordance with the contract or as may be modified by written orders, and shall do such special, additional, extra, and incidental work as may be considered necessary to complete the work to the full intent of the contract. Unless otherwise provided elsewhere in the contract, the Design-Build Team shall furnish all implements, machinery, equipment, tools, materials, supplies, transportation, and labor necessary for the design, prosecution and completion of the work.

**Page 1-30, Article 104-3, replace “plans or details of construction” with “contract” in all instances within this Article.**

**Page 1-39, Article 104-10, replace the first paragraph with the following:**

### **104-10 MAINTENANCE OF THE PROJECT**

The Design-Build Team shall maintain each bridge site within the site’s construction limits from the date of beginning construction on that site until the site is finally accepted. For sections of facilities impacted by utility construction / relocation performed by the Design-Build Team prior to beginning construction on the roadway project, maintenance of the impacted sections of facilities shall be performed by the Design-Build Team beginning concurrently with the impact. All existing and constructed guardrail / guiderail within the project limits shall be included in this maintenance. This maintenance shall be continuous and effective and shall be prosecuted with adequate equipment and forces to the end that all work covered by the contract is kept in satisfactory and acceptable conditions at all times. The Design-Build Team shall perform weekly inspections of guardrail and guiderail and shall report damages to the Engineer on the same day of the weekly inspection. Where damaged guardrail or guiderail is repaired or replaced as a result of maintaining the project in accordance with this Article, such repair or replacement shall be performed within 7 consecutive calendar days of such inspection report.

**Page 1-39, Article 104-10, add the following after the last paragraph:**

The Design-Build Team will not be compensated for performance of weekly inspections and damage reports for the guardrail / guiderail. Other maintenance activities for existing guardrail / guiderail will be handled in accordance with Articles 104-7 and 104-8.

## SECTION 105 CONTROL OF WORK

**Page 1-44, delete Article 105-2 and replace with the following:**

### **105-2 PLANS AND WORKING DRAWINGS**

All plans shall be supplemented by such approved working drawings as are necessary to adequately control the work. Working drawings furnished by the Design-Build Team and approved by the Engineer shall consist of such detailed drawings as may be required to adequately control the work. They may include stress sheets, shop drawings, erection drawings, falsework drawings, cofferdam drawings, bending diagrams for reinforcing steel, catalog cuts, or any other supplementary drawings or similar data required of the Design-Build Team. When working drawings are approved by the Engineer, such approval shall not operate to relieve the Design-Build Team of any of his responsibility under the contract for the successful completion of the work.

Changes on shop drawings after approval and/or distribution shall be subject to the approval of the Engineer and he shall be furnished a record of such changes.

**Page 1-45, Article 105-3, add the following after the 3<sup>rd</sup> paragraph:**

The Design-Build Team shall bear all the costs of providing the burden of proof that the nonconforming work is reasonable and adequately addresses the design purpose. The Design-Build Team shall bear all risk for continuing with nonconforming work in question until it is accepted.

The Engineer may impose conditions for acceptance of the nonconforming work. The Design-Build Team shall bear all costs for fulfilling the conditions.

The decisions whether the product satisfies the design purpose, whether the nonconforming work is reasonably acceptable and the conditions for acceptance are at the sole discretion of the Engineer.

**Pages 1-45, delete Article 105-4 and replace with the following:**

### **105-4 COORDINATION OF PLANS, SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS**

The Request for Proposals, all construction Plans, the Standard Specifications, Supplemental Specifications and Special Provisions and all supplementary documents are essential parts of the contract and a requirement occurring in one is as binding as though occurring in all. They are complementary and describe and provide the complete contract.

In case of discrepancy or conflict, the order in which they govern shall be as follows:

- (A) Request for Proposals, in which Project Special Provisions govern Standard Special Provisions
- (B) Accepted Plans and Details from the Design-Build Team, or sealed plans provided by the Department, as applicable
- (C) Standard Drawings
- (D) Standard Specifications

Where dimensions on the plans are given or can be computed from other given dimensions they shall govern over scaled dimensions.



The Design-Build Team shall take no advantage of any error or omission in the plans, estimated quantities, or specifications. In the event the Design-Build Team discovers an error or omission, he shall immediately notify the Engineer.

**Page 1-48, delete Article 105-9 and replace with the following:**

**105-9 CONSTRUCTION STAKES, LINES, AND GRADES**

The Design-Build Team shall be responsible for all surveying, construction staking and layout required in the performance of the work. The Design-Build Team will be responsible for the accuracy of lines, slopes, grades and other engineering work which the Design-Build Team provides under this contract.

**Page 1-51, Article 105-17, add the following after Bullet (F):**

(G) When all work is satisfactorily completed at a given bridge site, that site will be accepted.

**SECTION 106  
CONTROL OF MATERIAL**

**Page 1-53, Article 106-2, add the following after the second paragraph:**

Prior to beginning construction, the Design-Build Team shall provide a Table of Quantities as described in Article 101-3 of these specifications.

The Table of Quantities Work Items shall correspond to Pay Items as defined in the Standard Specifications. These Work Items have associated Materials and Conversion Factors. For non-standard Work Items, a Generic Work Item with the correct Unit of Measure and in an appropriate category will be used. For example, "GENERIC TRAFFIC CONTROL ITEM – EA" or "GENERIC RETAINING WALL ITEM – LF". For these Generic Work Items, Materials must be defined and appropriate conversion factors submitted.

An initial Table of Quantities shall be submitted no later than 30 calendar days after the date of award. The Table of Quantities shall be updated and resubmitted within 14 days of when a set of Plans is sealed as Release for Construction (RFC) Plans, and whenever there are substantial changes to the Quantities on previously incorporated RFC Plans.

**Page 1-55, Article 106-6, add the following after the last paragraph:**

For items normally pretested by the Department, the Design-Build Team shall provide a minimum of 30 days notice prior to the beginning of production of the items for this project along with final approved shop drawings.

**SECTION 107  
LEGAL RELATIONS AND RESPONSIBILITY  
TO PUBLIC**

**Page 1-65, delete Article 107-18 and replace with the following:**

**107-18 FURNISHING RIGHT OF WAY**

The responsibility for coordinating the securing of all necessary rights of way is as outlined in the Request for Proposals.

**SECTION 108  
PROSECUTION AND PROGRESS**

**Page 1-68. Article 108-2, replace the 2<sup>nd</sup> paragraph with the following:**

The Design-Build Team shall submit a Progress Schedule for review within thirty (30) calendar days of receiving Notice of Award. The Department will review the Progress Schedule within twenty-one (21) calendar days of receipt. The Design-Build Team shall make any necessary corrections and adjustments to the Progress Schedule as necessitated by the Department's review within seven (7) calendar days. The Department will review the revised Progress Schedule within seven (7) calendar days of receipt.

**Page 1-68, Subarticle 108-2(A)(1), add the following:**

- (k) Utility relocation and construction

**Page 1-69, Subarticle 108-2(A)(2), add the following:**

- (h) Critical design submittal dates
- (i) Critical permitting dates
- (j) Completion of right of way acquisition
- (k) Completion of utility relocation and construction

**Page 1-69, Article 108-2, add the following:**

- (D) The Design-Build Team shall provide a written narrative each month detailing the work and percentage of work completed, anticipated sequence of upcoming work (2 month forecast), controlling operation(s), intermediate completion dates, and milestones. If any milestones are exceeded or will not be achieved, the Design-Build Team shall provide in the written narrative details of the delay; controlling operation affected, impacts to other operations, revisions to future intermediate completion dates and milestones, and remedial action necessary to get the project back to the original completion date.

**Page 1-69, delete Article 108-3 and replace with the following:**

### **108-3 PRECONSTRUCTION AND PRE-DESIGN CONFERENCES**

The selected Design-Build Team shall meet with the Engineer for a pre-design conference concerning the design phase of the work. This conference shall be held prior to the commencement of work, as it is determined according to Article 108-1, and will be scheduled by the Engineer. At the predesign conference, the Design-Build Team shall furnish authorized signature forms and a list of any proposed subcontractors associated with the design of the project.

A preconstruction conference shall be held at least 10 working days before construction activity begins. This second conference, concerning the construction phase, shall also be scheduled by the Engineer. The Design-Build Team shall give the Engineer a minimum of 45 days notice before he plans to begin construction activities. This will allow the Engineer time for any environmental agency representatives involved in the permitting process, as well as any other pertinent entities, to be scheduled to attend the preconstruction conference. If the Design-Build Team is responsible for utilities in accordance with Article 105-8 and the Request for Proposals, he shall be responsible for coordinating with the Engineer in scheduling their attendance and for notifying them. The Design-Build Team shall also be responsible for coordinating with the Engineer in scheduling the attendance of subcontractors and others deemed appropriate, and for notifying them.

At the preconstruction conference, a list of any proposed subcontractors and major material suppliers associated with the construction of the project will be submitted.

If the contract has a DBE requirement, the Design-Build Team shall submit copies of completed and signed DBE subcontracts, purchase orders, or invoices to the Department.

The Design-Build Team shall submit a traffic control plan in accordance with Article 1101-5 and the Request for Proposals. The Design-Build Team shall designate an employee who is competent and experienced in traffic control to implement and monitor the traffic control plan. The qualifications of the designated employee must be satisfactory to the Engineer.

The Design-Build Team shall submit a safety plan and designate an employee as Safety Supervisor.

Both plans shall be submitted at the preconstruction conference and must be satisfactory to the Engineer. Should the design plan include activities that would place personnel on the work site, traffic control and safety plans for those activities shall be submitted at the predesign conference.

During the preconstruction conference, the Engineer will designate a Department employee or employees who will be responsible to see that the traffic control plans and any alterations thereto are implemented and monitored to the end that traffic is carried through the work in an effective manner. If approved by the Engineer, the Design-Build Team may designate one employee to be responsible for both the traffic control and safety plans. The Design-Build Team shall not designate its superintendent as the responsible person for either the traffic control plan or the safety plan, unless approved by the Engineer.

If the project requires that Design-Build Team or State personnel work from falsework, within shoring, or in any other hazardous area the Design-Build Team shall submit, as part of the Design-Build Team's safety plan, specific measures it will use to ensure worker safety.

The Design-Build Team shall also submit a program for erosion control and pollution prevention on all projects involving clearing and grubbing, earthwork, structural work, or other construction, when such work is likely to create erosion or pollution problems.

If the Design-Build Team fails to provide the required submissions, the Engineer may order the preconstruction conference suspended until such time as they are furnished. Work shall not begin until the preconstruction conference has been concluded and the safety plan has been approved, unless authorized by the Engineer. The Design-Build Team shall not be entitled to additional compensation or an extension of contract time resulting from any delays due to such a suspension.

The Design-Build Team shall designate a qualified employee as Quality Control Manager. The Quality Control Manager shall be responsible for implementing and monitoring the quality control requirements of the project.

**Page 1-69, Article 108-4, add the following sentence to the end of this article:**

The Design-Build Team shall record the proceedings of these conferences and distribute the final minutes of the conferences to all attendees.

**Page 1-70, Article 108-6, replace “40%” with “30%” in the 1st paragraph.**

**Page 1-71, Article 108-6, replace “35%” with “25%” in the 2<sup>nd</sup> paragraph.**

**Pages 1-72, delete Article 108-8 and replace with the following:**

**108-8            FAILURE TO MAINTAIN SATISFACTORY PROGRESS**

The Engineer will check the Design-Build Team’s progress at the time each partial pay request is received. The Design-Build Team’s progress may be considered as unsatisfactory if, according to the Progress schedule, the projected finish date for all work exceeds the scheduled finish date by more than 10%.

When the Design-Build Team's progress is found to be unsatisfactory as described above, the Engineer may make written demand of the Design-Build Team to state in writing the reason for the unsatisfactory progress and produce such supporting data as the Engineer may require or the Design-Build Team may desire to submit. The Engineer will consider the justifications submitted by the Design-Build Team and extensions of the completion date that have or may be allowed in accordance with Article 108-10(B) and as modified herein.

When the Design-Build Team cannot satisfactorily justify the unsatisfactory progress the Engineer may invoke one or more of the following sanctions:

1. Withhold anticipated liquidated damages from amounts currently due or which become due.
2. Remove the Design-Build Team and individual managing firms of the Design-Build Team and/or prequalified design firms from the Department’s Prequalified Bidders List.

When any of the above sanctions have been invoked, they shall remain in effect until rescinded by the Engineer.

**Page 1-75, Article 108-10(B), add the following as the first paragraph:**

Only delays to activities which affect the completion date or intermediate contract date will be considered for an extension of contract time. No extensions will be granted until a delay occurs which impacts the project's critical path and extends the work beyond the contract completion date or intermediate completion date. Any extension to the completion date or intermediate contract date will be based on the number of calendar days the completion date or intermediate completion date is impacted as determined by the Engineer's analysis.

**Pages 1-75, delete Subarticle 108-10(B)(1) in its entirety.**

**Page 1-78, Article 108-13, delete bullet (D)(2) in its entirety.**

## **SECTION 109 MEASUREMENT AND PAYMENT**

**Page 1-80, Article 109-2, delete the last sentence of the 1<sup>st</sup> paragraph and replace with the following:**

Payment to the Design-Build Team will be made only for the work completed, certified and accepted in accordance with the terms of the contract.

**Pages 1-85, delete Article 109-4(A) and replace with the following:**

### **109-4 PARTIAL PAYMENTS**

#### **(A) General:**

Partial payments will be based upon progress estimates prepared by the Engineer at least once each month on the date established by the Engineer. Partial payments may be made twice each month if in the judgment of the Engineer the amount of work performed is sufficient to warrant such payment. No partial payment will be made when the total value of work performed since the last partial payment amounts to less than \$10,000.00. Partial payments will be approximate only and will be subject to correction in the final estimate and payment.

When the contract includes one lump sum price for the entire work required by the contract, partial payments for the lump sum design-build price shall be based on a certified Schedule of Values submitted by the successful Design-Build Team and approved by the Engineer. The certification shall indicate the Design-Build Team has reviewed the information submitted and the information accurately represents the work performed for which payment is requested. The certified Schedule of Values shall be submitted no later than 30 calendar days after the date of award. Each item on the certified Schedule of Values shall be assigned a cost and quantity and shall be identified as an activity on the progress schedule. A revised certified Schedule of Values shall be submitted with each update of the Progress schedule as described in Article 108-2, and as modified herein, or when requested by the Engineer. A certified copy of the Table of Quantities shall also be submitted with each payment request. The certification of the Table of Quantities shall indicate the Design-Build Team has reviewed the information submitted and the information accurately represents the materials for the work performed for which payment is requested.

When the contract includes lump sum items for portions of the work required by the contract, and the applicable section of the Specifications or Request for Proposals specify the means by which the total amount bid be included in the partial pay estimates, the Engineer will determine amounts due on the partial pay estimate in accordance with the applicable portion of the Specifications or Request for Proposals.

The Engineer will withhold an amount sufficient to cover anticipated liquidated damages as determined by the Engineer.

**Page 1-86, Subarticle 109-5(D), delete the 4<sup>th</sup> and 5<sup>th</sup> paragraphs and replace with the following:**

Partial payments will not be made on seed or any living or perishable plant materials.

Partial payment requests shall not be submitted by the Design-Build Team until those items requested have corresponding signed and sealed RFC plans accepted by the Department.

**Pages 1-88, Article 109-10, add the following as bullets (E) and (F) under the 1<sup>st</sup> paragraph.**

- (E) As-Constructed Drawings, As-Built Plans and other documents required elsewhere in this RFP.
- (F) Documents or guarantees to support any warranty provided by the Design Build Team.

County: IREDELL

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>STRUCTURE ITEMS</b>						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000900000-N	SP	GENERIC MISCELLANEOUS ITEM DESIGN & CONSTRUCTION - IREDELL BRIDGE NO. 220	Lump Sum	L.S.	
0003	0000915000-N	SP	GENERIC MISCELLANEOUS ITEM END BENTS - IREDELL BRIDGE # 220	2 EA		
0004	0000915000-N	SP	GENERIC MISCELLANEOUS ITEM RIGHT OF ACQUISTION - IREDELL BRIDGE #220	4 EA		
0005	0000930000-E	SP	GENERIC MISCELLANEOUS ITEM AVG. FOUNDATION LENGTH AT END BENT 2	20 LF		
0006	0000930000-E	SP	GENERIC MISCELLANEOUS ITEM AVG. FOUNDATON LENGTH AT END BENT 1	25 LF		
0007	0000930000-E	SP	GENERIC MISCELLANEOUS ITEM BRIDGE LENGTH STRUCTURE - IREDELL BRIDGE #220	93 LF		

1657/Sep20/Q146/D5620000/E7

Total Amount Of Bid For Entire Project :