

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

C203608

CONTRACT AND  
CONTRACT BONDS

FOR CONTRACT NO. C203608

WBS 8CR.10761.24, 8CR.20761.24 STATE FUNDED

COUNTY OF RANDOLPH  
THIS IS THE ROADWAY CONTRACT  
ROUTE NUMBER LENGTH 27.481 MILES  
LOCATION US-64 FROM END OF ALBEMARLE RD RAMP TO NORTHERN MOST NISSAN  
DRIVEWAY & 22 SECTIONS OF SECONDARY ROADS.

CONTRACTOR APAC - ATLANTIC, INC. THOMPSON ARTHUR DIVISION  
ADDRESS P.O. BOX 21088  
GREENSBORO, NC 27420

BIDS OPENED AUGUST 26, 2014  
CONTRACT EXECUTION SEP 22 2014

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

PROPOSAL

DATE AND TIME OF BID OPENING: **AUGUST 26, 2014 AT 2:00 PM**

CONTRACT ID C203608

WBS 8CR.10761.24, 8CR.20761.24

FEDERAL-AID NO. STATE FUNDED

COUNTY RANDOLPH

T.I.P. NO.

MILES 27.481

ROUTE NO.

LOCATION US-64 FROM END OF ALBEMARLE RD RAMP TO NORTHERN MOST NISSAN DRIVEWAY & 22 SECTIONS OF SECONDARY ROADS.

TYPE OF WORK MILLING, RESURFACING, AND SHOULDER CONST & RECONST.

**NOTICE:**

ALL BIDDERS 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 BIDDER 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. BIDDERS 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. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

**BIDS WILL BE RECEIVED AS SHOWN BELOW:**

**THIS IS A ROADWAY PROPOSAL**

**5% BID BOND OR BID DEPOSIT REQUIRED**

**PROPOSAL FOR THE CONSTRUCTION OF  
CONTRACT No. C203608 IN RANDOLPH COUNTY, NORTH CAROLINA**

Date \_\_\_\_\_ 20\_\_\_\_

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

The Bidder has carefully examined the location of the proposed work to be known as Contract No. **C203608**; has carefully examined the plans and specifications, which are acknowledged to be part of the proposal, the special provisions, the proposal, the form of contract, and the forms of contract payment bond and contract performance bond; and thoroughly understands the stipulations, requirements and provisions. The undersigned bidder agrees to bound upon his execution of the bid and subsequent award to him by the Board of Transportation in accordance with this proposal to provide the necessary contract payment bond and contract performance bond within fourteen days after the written notice of award is received by him. The undersigned Bidder further agrees to provide all necessary machinery, tools, labor, and other means of construction; and to do all the work and to furnish all materials, except as otherwise noted, necessary to perform and complete the said contract in accordance with *the 2012 Standard Specifications for Roads and Structures* by the dates(s) specified in the Project Special Provisions and in accordance with the requirements of the Engineer, and at the unit or lump sum prices, as the case may be, for the various items given on the sheets contained herein.

The Bidder shall provide and furnish all the materials, machinery, implements, appliances and tools, and perform the work and required labor to construct and complete State Highway Contract No. **C203608** in **Randolph County**, for the unit or lump sum prices, as the case may be, bid by the Bidder in his bid and according to the proposal, plans, and specifications prepared by said Department, which proposal, plans, and specifications show the details covering this project, and hereby become a part of this contract.

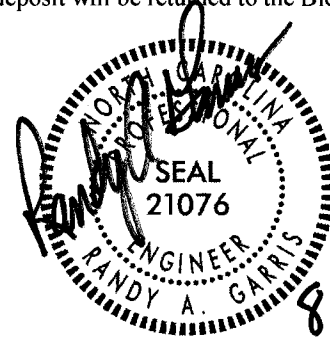
The published volume entitled *North Carolina Department of Transportation, Raleigh, Standard Specifications for Roads and Structures, January 2012* with all amendments and supplements thereto, is by reference incorporated into and made a part of this contract; that, except as herein modified, all the construction and work included in this contract is to be done in accordance with the specifications contained in said volume, and amendments and supplements thereto, under the direction of the Engineer.

If the proposal is accepted and the award is made, 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 over the signature of the said Contract Officer.

The quantities shown in the itemized proposal for the project are considered to be approximate only and are given as the basis for comparison of bids. The Department of Transportation may increase or decrease the quantity of any item or portion of the work as may be deemed necessary or expedient.

An increase or decrease in the quantity of an item will not be regarded as sufficient ground for an increase or decrease in the unit prices, nor in the time allowed for the completion of the work, except as provided for the contract.

Accompanying this bid is 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 Bidder 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 him, as provided in the *Standard Specifications*; otherwise said deposit will be returned to the Bidder.



State Contract Officer

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C203608

*Revised 8-15-14*  
Randolph County

**PROPOSAL ITEM SHEET**

ITEM SHEET(S) (TAN SHEETS)

**SKETCH MAPS (INSERT)**

**PROJECT SPECIAL PROVISIONS****GENERAL****CONTRACT TIME AND LIQUIDATED DAMAGES:**

(7-1-95) (Rev. 12-18-07)

108

SP1 G10 A

The date of availability for this contract is **October 27, 2014**.

The completion date for this contract is **June 24, 2015**.

Except where otherwise provided by the contract, observation periods required by the contract will not be a part of the work to be completed by the completion date and/or intermediate contract times stated in the contract. The acceptable completion of the observation periods that extend beyond the final completion date shall be a part of the work covered by the performance and payment bonds.

The liquidated damages for this contract are **One Thousand Dollars (\$1,000.00)** per calendar day.

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

(2-20-07)

RG 14 A

The Contractor shall complete the required work of installing, maintaining, and removing the traffic control devices for lane closures and restoring traffic to the existing traffic pattern. The Contractor shall not close or narrow a lane of traffic on **all roads within Map 1** during the following time restrictions:

**DAY AND TIME RESTRICTIONS****MONDAY THRU SUNDAY****6:00 A.M. TO 8:00 P.M.**

In addition, the Contractor shall not close or narrow a lane of traffic on **all roads within Map 1, and on Maps #2 Thru #23** detain and/or alter the traffic flow on or during holidays, holiday weekends, special events, or any other time when traffic is unusually heavy, including the following schedules:

**HOLIDAY AND HOLIDAY WEEKEND LANE CLOSURE RESTRICTIONS**

1. For **unexpected occurrence** that creates unusually high traffic volumes, as directed by the Engineer.
2. For **New Year's Day**, between the hours of **6:00 A.M.** December 31st and **8:00 P.M.** January 2nd. If New Year's Day is on a Friday, Saturday, Sunday or Monday, then until **8:00 P.M.** the following Tuesday.
3. For **Easter**, between the hours of **6:00 A.M.** Thursday and **8:00 P.M.** Monday.
4. For **Memorial Day**, between the hours of **6:00 A.M.** Friday and **8:00 P.M.** Tuesday.

5. For **Independence Day**, between the hours of **6:00 A.M.** the day before Independence Day and **8:00 P.M.** the day after Independence Day.

If **Independence Day** is on a Friday, Saturday, Sunday or Monday, then between the hours of **6:00 A.M.** the Thursday before Independence Day and **8:00 P.M.** the Tuesday after Independence Day.

6. For **Labor Day**, between the hours of **6:00 A.M.** Friday and **8:00 P.M.** Tuesday.
7. For **Thanksgiving Day**, between the hours of **6:00 A.M.** Tuesday and **8:00 P.M.** Monday.
8. For **Christmas**, between the hours of **6:00 A.M.** the Friday before the week of Christmas Day and **8:00 P.M.** the following Tuesday after the week of Christmas Day.
9. From **one (1) hour before to one (1) hour after** any special events or sporting events held at South Asheboro Middle School or Asheboro High School.

Holidays and holiday weekends shall include New Year's, Easter, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas. The Contractor shall schedule his work so that lane closures will not be required during these periods, unless otherwise directed by the Engineer.

The time of availability for this intermediate contract work shall be the time the Contractor begins to install all traffic control devices for lane closures according to the time restrictions listed herein.

The completion time for this intermediate contract work shall be the time the Contractor is required to complete the removal of all traffic control devices for lane closures according to the time restrictions stated above and place traffic in the existing traffic pattern.

The liquidated damages are **one thousand, two hundred and fifty Dollars (\$1,250.00)** per each **fifteen (15) minute time period**.

**INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES:**

(5-21-13)

108

SP1 G14 I

The Contractor shall complete the work required of installing each new inductive loop after the removal of each existing loop by the milling, patching or resurfacing operations and shall place and maintain traffic on same.

The date of availability for this intermediate contract time for each inductive loop installation will be the date when the Contractor elects to disturb the existing inductive loop.

The completion date for this intermediate contract time for each inductive loop installation will be the date which is seven (7) consecutive calendar days after the date of availability.

The liquidated damages are **Five Hundred Dollars (\$500.00)** per calendar day.

**INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES**

(2-20-07)

SP1 G14 D

The Contractor shall complete the required work of installing, maintaining, and removing the traffic control devices for road closures and restoring traffic to the existing traffic pattern. The Contractor shall not close or narrow a lane of traffic on **all roads within Map 1** during the following time restrictions:

**DAY AND TIME RESTRICTIONS****MONDAY THRU SUNDAY****6:00 A.M. TO 8:00 P.M.**

The time of availability for this intermediate contract time will be the time the Contractor begins to install traffic control devices required for road closures according to the time restrictions stated herein.

The completion time for this intermediate contract time will be the time the Contractor is required to complete the removal of traffic control devices required for the road closures according to the time restrictions stated herein and restore traffic to the existing traffic pattern.

The liquidated damages are **one thousand, two hundred and fifty Dollars (\$1,250.00)** per each **fifteen (15) minute time period**.



**PROSECUTION OF WORK:**

(7-1-95) (Rev. 8-21-12)

108

SP1 G15R

The Contractor will be required to prosecute the work in a continuous and uninterrupted manner from the time he begins the work until completion and final acceptance of the project. The Contractor will not be permitted to suspend his operations except for reasons beyond his control or except where the Engineer has authorized a suspension of the Contractor's operations in writing.

In the event that the Contractor's operations are suspended in violation of the above provisions, the sum of **\$1,000.00** will be charged the Contractor for each and every calendar day that such suspension takes place. The said amount is hereby agreed upon as liquidated damages due to extra engineering and maintenance costs and due to increased public hazard resulting from a suspension of the work. Liquidated damages chargeable due to suspension of the work will be additional to any liquidated damages that may become chargeable due to failure to complete the work on time.

**RAILROAD GRADE CROSSING:**

(7-1-95) (Rev. 1-15-13)

107-9

SP1 G17R (REV.)

Provide at least 2 weeks advance notice to the railroad's local Roadmaster or Track Supervisor when the use of slow-moving or stopped equipment is required over at-grade railroad crossings.

**MAP #2****MAP #5****MAP #9****MAJOR CONTRACT ITEMS:**

(2-19-02)

104

SP1 G28

The following listed items are the major contract items for this contract (see Article 104-5 of the *2012 Standard Specifications*):

| <b>Line #</b> | <b>Description</b>                           |
|---------------|----------------------------------------------|
| 19            | Asphalt Concrete Surface Course, Type S9.5C  |
| 20            | Asphalt Concrete Surface Course, Type SF9.5A |

**SPECIALTY ITEMS:**

(7-1-95)(Rev. 1-17-12)

108-6

SP1 G37

Items listed below will be the specialty items for this contract (see Article 108-6 of the *2012 Standard Specifications*).

| <b>Line #</b> | <b>Description</b>          |
|---------------|-----------------------------|
| 31 thru 38    | Long-Life Pavement Markings |
| 44 thru 45    | Permanent Pavement Markers  |
| 47 thru 49    | Erosion Control             |
| 50            | Signals/ITS System          |

**FUEL PRICE ADJUSTMENT:**

(11-15-05) (Rev. 2-18-14)

109-8

SP1 G43

Revise the 2012 *Standard Specifications* as follows:

**Page 1-83, Article 109-8, Fuel Price Adjustments**, add the following:

The base index price for DIESEL #2 FUEL is \$ **2.9777** per gallon. Where any of the following are included as pay items in the contract, they will be eligible for fuel price adjustment.

The pay items and the fuel factor used in calculating adjustments to be made will be as follows:

| Description                                      | Units   | Fuel Usage<br>Factor Diesel |
|--------------------------------------------------|---------|-----------------------------|
| Unclassified Excavation                          | Gal/CY  | 0.29                        |
| Borrow Excavation                                | Gal/CY  | 0.29                        |
| Class IV Subgrade Stabilization                  | Gal/Ton | 0.55                        |
| Aggregate Base Course                            | Gal/Ton | 0.55                        |
| Sub-Ballast                                      | Gal/Ton | 0.55                        |
| Asphalt Concrete Base Course, Type _____         | Gal/Ton | 2.90                        |
| Asphalt Concrete Intermediate Course, Type _____ | Gal/Ton | 2.90                        |
| Asphalt Concrete Surface Course, Type _____      | Gal/Ton | 2.90                        |
| Open-Graded Asphalt Friction Course              | Gal/Ton | 2.90                        |
| Permeable Asphalt Drainage Course, Type _____    | Gal/Ton | 2.90                        |
| Sand Asphalt Surface Course, Type _____          | Gal/Ton | 2.90                        |
| Aggregate for Cement Treated Base Course         | Gal/Ton | 0.55                        |
| Portland Cement for Cement Treated Base Course   | Gal/Ton | 0.55                        |
| ____ " Portland Cement Concrete Pavement         | Gal/SY  | 0.245                       |
| Concrete Shoulders Adjacent to ____ " Pavement   | Gal/SY  | 0.245                       |

**SCHEDULE OF ESTIMATED COMPLETION PROGRESS:**

(7-15-08) (Rev. 5-20-14)

108-2

SP1 G58

The Contractor's attention is directed to the Standard Special Provision entitled *Availability of Funds Termination of Contracts* included elsewhere in this proposal. The Department of Transportation's schedule of estimated completion progress for this project as required by that Standard Special Provision is as follows:

|      |                     |                           |
|------|---------------------|---------------------------|
| 2015 | (7/01/14 - 6/30/15) | 100 % of Total Amount Bid |
|------|---------------------|---------------------------|

The Contractor shall also furnish his own progress schedule in accordance with Article 108-2 of the 2012 *Standard Specifications*. Any acceleration of the progress as shown by the Contractor'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. 12-17-13)

102-15(J)

SP1 G66

**Description**

The purpose of this 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 of bid that will not be used to meet either the MBE or WBE goal. No submittal of a Letter of Intent is required, unless the additional participation is used for banking purposes.

*Committed MBE/WBE Subcontractor* - Any MBE/WBE submitted at the time of bid that is being used to meet either the MBE or 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 Goals Requirement* - The approved MBE and WBE participation at time of award, but not greater than the advertised contract goals for each.

*Goal Confirmation Letter* - Written documentation from the Department to the bidder confirming the Contractor's approved, committed MBE and WBE 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 Contractor.

*MBE Goal* - A portion of the total contract, expressed as a percentage, that is 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.

*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 Goal* - A portion of the total contract, expressed as a percentage, that is 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 Contractor 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.  
<http://www.ncdot.org/doh/forms/files/DBE-IS.xls>

*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 amount listed at the time of bid.  
<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 this MBE and WBE goals. This form is for paper bids only.  
[http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/09%20MBE-WBE%20Subcontractors%20\(State\).doc](http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/09%20MBE-WBE%20Subcontractors%20(State).doc)

*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>

**MBE and WBE Goal**

The following goals for participation by Minority Business Enterprises and Women Business Enterprises are established for this contract:

(A) Minority Business Enterprises **2.0 %**

- (1) *If the MBE goal is more than zero*, the Contractor shall exercise all necessary and reasonable steps to ensure that MBEs participate in at least the percent of the contract as set forth above as the MBE goal.
- (2) *If the MBE goal is zero*, the Contractor 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 **2.0 %**

- (1) *If the WBE goal is more than zero*, the Contractor shall exercise all necessary and reasonable steps to ensure that WBEs participate in at least the percent of the contract as set forth above as the WBE goal.
- (2) *If the WBE goal is zero*, the Contractor 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.

**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 MBE and WBE goals respectively. The Directory can be found at the following link. <https://partner.ncdot.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 of bid, bidders shall submit all MBE and WBE participation that they anticipate to use during the life of the contract. Only those identified to meet the MBE goal and the 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 subcontractor participation above the goal for which letters of intent are received will follow the banking guidelines found elsewhere in this provision. All other additional MBE/WBE subcontractor participation submitted at the time of bid will be used toward the Department's overall race-neutral goals. Only those firms with current MBE and

WBE certification at the time of bid opening will be acceptable for listing in the bidder's submittal of MBE and WBE participation. The Contractor shall indicate the following required information:

(A) Electronic Bids

Bidders shall submit a listing of MBE and WBE participation in the appropriate section of Expedite, the bidding software of Bid Express<sup>®</sup>.

- (1) Submit the names and addresses of MBE and WBE firms identified to participate in the contract. If the bidder uses the updated listing of MBE and WBE firms shown in Expedite, the bidder may use the dropdown menu to access the name and address of the firms.
- (2) Submit the contract line numbers of work to be performed by each MBE and WBE firm. When no figures or firms are entered, the bidder will be considered to have no MBE or WBE participation.
- (3) The bidder shall be responsible for ensuring that the MBE and WBE are certified at the time of bid by checking the Directory of Transportation Firms. If the firm is not certified at the time of the bid-letting, that MBE's or WBE's participation will not count towards achieving either the MBE or WBE goal.

(B) Paper Bids

- (1) *If either the MBE or WBE goal is more than zero,*
  - (a) Bidders, at the time the bid 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 bid to be considered responsive. Bidders shall indicate the total dollar value of the MBE and WBE participation for the contract.
  - (b) If bidders 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.** Bids submitted that do not have MBE and WBE participation indicated on the appropriate form will not be read publicly during the opening of bids. The Department will not consider these bids for award and the proposal will be rejected.
  - (c) The bidder shall be responsible for ensuring that the MBE/WBE is certified at the time of bid by checking the Directory of Transportation Firms. If the firm is not certified at the time of the bid-letting, that MBE's or WBE's participation will not count towards achieving the corresponding goal.

- (2) *If either the MBE or 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 bids on a contract that contains MBE and WBE goals, the firm is responsible for meeting the goals or making good faith efforts to meet the goals, just like any other bidder. In most cases, a MBE or WBE bidder on a contract will meet one of the goals 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 bidder and any other similarly certified subcontractors will count toward the goal. The MBE or WBE bidder shall list itself along with any MBE or WBE subcontractors, if any, in order to receive credit toward the goals.

For example, on a proposed contract, the WBE goal is 10%, and the MBE goal is 8%. A WBE bidder puts in a bid where they will perform 40% of the contract work and have a WBE subcontractor which will perform another 5% of the work. Together the two WBE firms submit on the *Listing of MBE and WBE Subcontractors* a value of 45% of the contract which fulfills the WBE goal. The 8% MBE goal shall be obtained through MBE participation with MBE certified subcontractors or documented through a good faith effort. It should be noted that you cannot combine the two goals to meet an overall value. The two goals shall remain separate.

MBE/WBE prime contractors shall also follow Sections A and B listed under *Listing of MBE and WBE Subcontractor* just as a non-MBE/WBE bidder would.

### **Written Documentation – Letter of Intent**

The bidder shall submit written documentation for each MBE/WBE that will be used to meet the MBE and WBE goals of the contract, indicating the bidder'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 12:00 noon of the sixth calendar day following opening of bids, 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 12:00 noon on the next official state business day.

If the bidder fails to submit the Letter of Intent from each committed MBE and WBE to be used toward the MBE and WBE goals, or if the form is incomplete (i.e. both signatures are not present), the MBE/WBE participation will not count toward meeting the MBE/WBE goal. If the lack of this participation drops the commitment below either the MBE or WBE goal, the Contractor shall submit evidence of good faith efforts for the goal not met, completed in its entirety, to the State Contractor Utilization Engineer or DBE@ncdot.gov no later than 12:00 noon on the eighth calendar day following opening of bids, 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 12:00 noon on the next official state business day.

**Submission of Good Faith Effort**

If the bidder fails to meet or exceed either the MBE or the WBE goal, the apparent lowest responsive bidder shall submit to the Department documentation of adequate good faith efforts made to reach that specific goal(s).

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 12:00 noon of the sixth calendar day following opening of bids 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 the next official state business day. If the contractor cannot send the information electronically, then one complete set and 9 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 MBE/WBE Goals More Than Zero**

Adequate good faith efforts mean that the bidder took all necessary and reasonable steps to achieve the 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 bidder 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 bidder has made. Listed below are examples of the types of actions a bidder 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 who have the capability to perform the work of the contract. The bidder must solicit this interest within at least 10 days prior to bid opening 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 bidder 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 MBE and WBE goals 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 MBE/WBE goals 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 MBEs/WBEs 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 bidder's responsibility to make a portion of the work available to MBE/WBE subcontractors 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 bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including MBE/WBE subcontractors, and would take a firm's price and capabilities as well as contract goals 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 bidder's failure to meet the contract MBE or WBE goals, 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 bidder of the responsibility to make good faith efforts. Bidding contractors 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 bidder'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 bids in the bidder'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 bidder.
- (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 7 days from the bid opening the Business Development Manager in the Business Opportunity and Work Force Development Unit to give notification of the bidder's inability to get MBE or WBE quotes.
- (I) Any other evidence that the bidder submits which shows that the bidder has made reasonable good faith efforts to meet the MBE and WBE goal.

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

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

If the Department does not award the contract to the apparent lowest responsive bidder, the Department reserves the right to award the contract to the next lowest responsive bidder that can satisfy to the Department that the MBE and WBE goals can be met or that an adequate good faith effort has been made to meet the MBE and WBE goals.

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

The State Contractor Utilization Engineer will notify the contractor verbally and in writing of non-good faith. A contractor may appeal a determination of non-good faith made by the Goal Compliance Committee. If a contractor wishes to appeal the determination made by the Committee, they shall provide written notification to the State Contractual Services Engineer or at [DBE@ncdot.gov](mailto:DBE@ncdot.gov). The appeal shall be made within 2 business days of notification of the determination of non-good faith.

### **Counting MBE/WBE Participation Toward Meeting MBE/WBE Goals**

#### **(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 Contractor.

(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 may enter into subcontracts. Work that a MBE subcontracts to another MBE firm may be counted toward the MBE contract goal requirement. The same holds for work that a WBE subcontracts to another WBE firm. Work that a MBE subcontracts to a non-MBE firm does not count toward the MBE contract goal requirement. Again, the same holds true for the work that a WBE subcontracts to a non-WBE firm. If a MBE or WBE contractor or subcontractor subcontracts a significantly greater portion of the work of the contract 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. The MBE/WBE may present evidence to rebut this presumption to the Department. The Department's decision on the rebuttal of this presumption may be subject to review by the Office of Inspector General, NCDOT.

(D) Joint Venture

When a MBE or WBE performs as a participant in a joint venture, the Contractor 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 contractor may count toward its MBE or WBE requirement 60 percent of its expenditures for materials and supplies required to complete the contract and obtained from a MBE or WBE regular dealer and 100 percent of such expenditures from a MBE or WBE manufacturer.

(F) Manufacturers and Regular Dealers

A contractor 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 Contractor 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.

#### **(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 MBE or 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 goal requirement. 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 liable for meeting the goal.

- (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 Contractor 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.

#### **Banking MBE/WBE Credit**

If the bid of the lowest responsive bidder exceeds \$500,000 and if the committed MBE/WBE participation submitted by Letter of Intent exceeds the algebraic sum of the MBE or WBE goal by \$1,000 or more, the excess will be placed on deposit by the Department for future use by the bidder. Separate accounts will be maintained for MBE and WBE participation and these may accumulate for a period not to exceed 24 months.

When the apparent lowest responsive bidder fails to submit sufficient participation by MBE firms to meet the contract goal, as part of the good faith effort, the Department will consider allowing the bidder to withdraw funds to meet the MBE goal as long as there are adequate funds available from the bidder's MBE bank account.

When the apparent lowest responsive bidder fails to submit sufficient participation by WBE firms to meet the contract goal, as part of the good faith effort, the Department will consider allowing the bidder to withdraw funds to meet the WBE goal as long as there are adequate funds available from the bidder's WBE bank account.

### **MBE/WBE Replacement**

When a Contractor has relied on a commitment to a MBE or WBE firm (or an approved substitute MBE or WBE firm) to meet all or part of a contract goal requirement, the contractor shall not terminate the MBE/WBE for convenience. This includes, but is not limited to, instances in which the Contractor seeks to perform the work of the terminated subcontractor with another MBE/WBE subcontractor, a non-MBE/WBE subcontractor, or with the Contractor's own forces or those of an affiliate. A MBE/WBE may only be terminated after receiving the Engineer's written approval based upon a finding of good cause for the termination.

All requests for replacement of a committed MBE/WBE firm shall be submitted to the Engineer for approval on Form RF-1 (*Replacement Request*). If the Contractor fails to follow this procedure, the Contractor may be disqualified from further bidding for a period of up to 6 months.

The Contractor shall comply with the following for replacement of a committed MBE/WBE:

#### **(A) Performance Related Replacement**

When a committed MBE is terminated for good cause as stated above, an additional MBE that was submitted at the time of bid may be used to fulfill the MBE commitment. The same holds true if a committed WBE is terminated for good cause, an additional WBE that was submitted at the time of bid may be used to fulfill the 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 of bid 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 Contractor 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 MBEs/WBEs 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 MBEs/WBEs for specific subbids including, at a minimum:
  - (a) The names, addresses, and telephone numbers of MBEs/WBEs who were contacted.
  - (b) A description of the information provided to MBEs/WBEs 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 Contractor.
- (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 Contractor 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 Contractor 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 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).

### **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 Contractor 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 Contractor'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 Contractor 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 Contractor shall seek participation by MBEs/WBEs unless otherwise approved by the Engineer.

When the Contractor requests changes in the work that result in the reduction or elimination of work that the Contractor committed to be performed by a MBE/WBE, the Contractor 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 Contractor 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 Contractor shall furnish the Engineer a copy of the agreement. The documentation shall also indicate the percentage (60% or 100%) of expenditures claimed for MBE/WBE credit.

**Reporting Minority and Women Business Enterprise Participation**

The Contractor shall provide the Engineer with an accounting of payments made to all MBE and 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 contractor from the prequalified bidders' list or the removal of other entities from the approved subcontractors list.

While each contractor (prime, subcontractor, 2nd 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 Contractor to submit the required information in the time frame specified may result in the disqualification of that contractor and any affiliate companies 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 contractor and any affiliate companies from being approved for work on future DOT projects until the required information is submitted.

Contractors 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.

(A) Electronic Bids Reporting

The Contractor shall report the accounting of payments through the Department's Payment Tracking System.

(B) Paper Bids Reporting

The Contractor shall report the accounting of payments on the Department's DBE-IS (*Subcontractor Payment Information*) with each invoice. Invoices will not be processed for payment until the DBE-IS is received.

**Failure to Meet Contract Requirements**

Failure to meet contract requirements in accordance with Subarticle 102-15(J) of the *2012 Standard Specifications* may be cause to disqualify the Contractor.

**CONTRACTOR'S LICENSE REQUIREMENTS:**

(7-1-95)

102-14

SP1 G88

If the successful bidder does not hold the proper license to perform any plumbing, heating, air conditioning, or electrical work in this contract, he will be required to 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).

**LOCATING EXISTING UNDERGROUND UTILITIES:**

(3-20-12)

105

SP1 G115

Revise the *2012 Standard Specifications* as follows:

**Page 1-43, Article 105-8, line 28, after the first sentence, add the following:**

Identify excavation locations by means of pre-marking with white paint, flags, or stakes or provide a specific written description of the location in the locate request.

**RESOURCE CONSERVATION:**

(5-21-13)

104-13

SP1 G118

In accordance with North Carolina Executive Order 156, NCGS 130A-309.14(2), and NCGS 136-28.8, it is the policy of the Department to aid in the reduction of materials that become a part of our solid waste stream, to divert materials from landfills, and to find ways to recycle and reuse materials for the benefit of the Citizens of North Carolina.

Initiate, develop and use products and construction methods that incorporate the use of recycled or solid waste products in accordance with Article 104-13 of the *2012 Standard Specifications*. Report the quantities of reused or recycled materials either incorporated in the project or diverted from landfills on the Project Construction Reuse and Recycling Reporting Form.

A location-based tool for finding local recycling facilities and the Project Construction Reuse and Recycling Reporting Form are available at:

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

**DOMESTIC STEEL:**

(4-16-13)

106

SP1 G120

Revise the *2012 Standard Specifications* as follows:

**Page 1-49, Subarticle 106-1(B) Domestic Steel, lines 2-7,** replace the first paragraph with the following:

All steel and iron products that are permanently incorporated into this project shall be produced in the United States except minimal amounts of foreign steel and iron products may be used provided the combined material cost of the items involved does not exceed 0.1% of the total amount bid for the entire project or \$2,500, whichever is greater. If invoices showing the cost of the material are not provided, the amount of the bid item involving the foreign material will be used for calculations. This minimal amount of foreign produced steel and iron products permitted for use is not applicable to high strength fasteners. Domestically produced high strength fasteners are required.

**MAINTENANCE OF THE PROJECT:**

(11-20-07) (Rev. 1-17-12)

104-10

SP1 G125

Revise the *2012 Standard Specifications* as follows:

**Page 1-35, Article 104-10 Maintenance of the Project, line 25,** add the following after the first sentence of the first paragraph:

All guardrail/guiderail within the project limits shall be included in this maintenance.

**Page 1-35, Article 104-10 Maintenance of the Project, line 30,** add the following as the last sentence of the first paragraph:

The Contractor 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 1-35, Article 104-10 Maintenance of the Project, lines 42-44,** replace the last sentence of the last paragraph with the following:

The Contractor will not be directly compensated for any maintenance operations necessary, except for maintenance of guardrail/guiderail, as this work will be considered incidental to the work covered by the various contract items. The provisions of Article 104-7, Extra Work, and Article 104-8, Compensation and Record Keeping will apply to authorized maintenance of

guardrail/guiderail. Performance of weekly inspections of guardrail/guiderail, and the damage reports required as described above, will be considered to be an incidental part of the work being paid for by the various contract items.

**COOPERATION BETWEEN CONTRACTORS:**

(7-1-95)

105-7

SP1 G133

The Contractor's attention is directed to Article 105-7 of the *2012 Standard Specifications*.

Project BP-5500P at Bridge #168 over I-73/74 is within the limits of Map #1. This bridge is a bridge hydro-demolition that should be completed before resurfacing work on the western end of Map #1 begins.

The Contractor on this project shall cooperate with the Contractor working within or adjacent to the limits of this project to the extent that the work can be carried out to the best advantage of all concerned.

**OUTSOURCING OUTSIDE THE USA:**

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

SP1 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.

**GIFTS FROM VENDORS AND CONTRACTORS:**

(12-15-09)

107-1

SP1 G152

By Executive Order 24, issued by Governor Perdue, and *N.C.G.S. § 133-32*, it is unlawful for any vendor or contractor (i.e. architect, bidder, contractor, construction manager, design professional, engineer, landlord, offeror, seller, subcontractor, supplier, or vendor), to make gifts or to give favors to any State employee of the Governor's Cabinet Agencies (i.e. Administration, Commerce, Correction, Crime Control and Public Safety, Cultural Resources, Environment and Natural Resources, Health and Human Services, Juvenile Justice and Delinquency Prevention, Revenue, Transportation, and the Office of the Governor). This prohibition covers those vendors and contractors who:

- (A) Have a contract with a governmental agency; or
- (B) Have performed under such a contract within the past year; or
- (C) Anticipate bidding on such a contract in the future.

For additional information regarding the specific requirements and exemptions, vendors and contractors are encouraged to review Executive Order 24 and *N.C.G.S. § 133-32*.

Executive Order 24 also encouraged and invited other State Agencies to implement the requirements and prohibitions of the Executive Order to their agencies. Vendors and contractors should contact other State Agencies to determine if those agencies have adopted Executive Order 24.

**LIABILITY INSURANCE:**

(5-20-14)

SP1 G160

Revise the *2012 Standard Specifications* as follows:

**Page 1-60, Article 107-15 LIABILITY INSURANCE, line 16,** add the following as the second sentence of the third paragraph:

Prior to beginning services, all contractors shall provide proof of coverage issued by a workers' compensation insurance carrier, or a certificate of compliance issued by the Department of Insurance for self-insured subcontractors, irrespective of whether having regularly in service fewer than three employees.

**EROSION AND SEDIMENT CONTROL/STORMWATER CERTIFICATION:**

(1-16-07) (Rev 9-18-12)

105-16, 225-2, 16

SP1 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 Pollution 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 Supervisor to manage the Contractor and subcontractor operations, insure 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 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. 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 Contractor's temporary work not shown on the plans, 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 Contractor 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 Contractor's operations.
    - (j) Ensure that proper cleanup occurs from vehicle tracking on paved surfaces 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 are, but are not limited to:

- (a) Control project site waste to prevent contamination of surface or ground waters of the state, i.e. from equipment operation/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, twice weekly for construction related *Federal Clean Water Act, Section 303(d)* impaired streams with turbidity violations, and within 24 hours after a significant rainfall event of 0.5 inch that occurs within a 24 hour period.
  - (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 Division of Water 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 Contractor and subcontractors' construction activities.
  - (b) Ensure that all operators and subcontractors 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 Contractor'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 Contractor 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 Contractor 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 Contractor 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 Designer* and notify the Engineer of changes in certified personnel over the life of the contract within 2 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 10 calendar days after receiving notice of the proposed adverse action.

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

Failure to appeal within 10 calendar days will result in the proposed adverse action becoming effective on the date specified on the certified notice. Failure to appeal within the time specified will 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 7 days of hearing the appeal. Decision of the Chief Engineer will 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:**

(2-20-07) (Rev. 3-19-13)

105-16, 230, 801

SP1 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 Contractor 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 DWQ 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 *2012 Standard Specifications*, the Contractor 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 Contractor's test results, an immediate test shall be performed jointly with the results superseding the previous test results of both the Department and the Contractor.

The Contractor shall use the *NC DOT Turbidity Reduction Options for Borrow Pits Matrix*, available at [http://www.ncdot.gov/doh/operations/dp\\_chief\\_eng/roadside/fieldops/downloads/Files/TurbidityReductionOptionSheet.pdf](http://www.ncdot.gov/doh/operations/dp_chief_eng/roadside/fieldops/downloads/Files/TurbidityReductionOptionSheet.pdf) to plan, design, construct, and maintain BMPs to address water quality standards. 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 DWQ'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 Contractor 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 Contractor may use cation exchange capacity (CEC) values from proposed site borings to plan and develop the bid 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.

**EMPLOYMENT:**

(11-15-11) (Rev. 1-17-12)

108, 102

SP1 G184

Revise the *2012 Standard Specifications* as follows:

**Page 1-20, Subarticle 102-15(O)**, delete and replace with the following:

**(O)** Failure to restrict a former Department employee as prohibited by Article 108-5.

**Page 1-65, Article 108-5 Character of Workmen, Methods, and Equipment, line 32**, delete all of line 32, the first sentence of the second paragraph and the first word of the second sentence of the second paragraph.

**STATE HIGHWAY ADMINISTRATOR TITLE CHANGE:**

(9-18-12)

SP1 G185

Revise the *2012 Standard Specifications* as follows:

Replace all references to "State Highway Administrator" with "Chief Engineer".

**NOTES TO CONTRACTOR:**

(11-07-06)

The Contractor's attention is directed to the following:

1. Contractor shall use rubber-tired rollers on all maps to be resurfaced.
2. Small quantities of Wattles and Temporary Silt Fence were placed in the contract to provide Erosion Control for sensitive areas. These items shall be used at the direction of the Engineer.
3. Contractor shall resurface to radius return of all side streets along the main line of each map and as directed by the Engineer.
4. Contractor shall be aware that typicals that require milling to 1.5" below the gutter to islands or centerline must insure that drainage is maintained. Any change in crown should not cause runoff to pond on the roadway. In some areas, the existing crown may be require modification to provide positive drainage, as directed by the Engineer.
5. Bridge #171 is a low clearance bridge.

**PROJECT SPECIAL PROVISIONS****ROADWAY****SHOULDER CONSTRUCTION:**

(12-21-99) (Rev. 8-21-12)

560

SPI R04R

**Description**

Shoulder construction is the construction of a new shoulder due to moving ditches or widening embankments on the existing roadway. Place earth material along the completed edge of pavement and construct shoulders as shown on the sketch map and/or as directed by the Engineer. Backfill and compact the area to the satisfaction of the Engineer.

**Materials**

Furnish all earth material for the construction of the shoulders. Provide earth material that meets the approval of the Engineer. No testing will be necessary.

**Measurement and Payment**

*Shoulder Construction* will be measured and paid as the actual number of shoulder miles that have been constructed. Measurement will be made along the surface of each shoulder and to the nearest 0.01 of a mile. Such price and payment will be full compensation for furnishing earth material, hauling, placing, compaction, and all incidentals necessary to complete construction of the shoulders.

*Incidental Stone Base* will be measured and paid as provided in Article 545-6 of the *2012 Standard Specifications*.

*Seeding and Mulching* will be measured and paid as provided elsewhere in this contract.

Payment will be made under:

**Pay Item**

Shoulder Construction

**Pay Unit**

Shoulder Mile

**SHOULDER RECONSTRUCTION PER SHOULDER MILE:**

(1-18-00) (Rev. 8-21-12)

560

SPI R07AR (REV.)

**Description**

This work consists of reconstructing each shoulder (including median shoulders as applicable) in accordance with Standard Drawing No. 560.01 and 560.02 of the *2012 Roadway Standard Drawings* except that the rate of slope and width will be as shown on typical section, or to the existing shoulder point, whichever is nearer, as long as the desired typical is achieved, and when completed, seeding and mulching. This work shall be performed immediately after the resurfacing operations are complete as directed by the Engineer.

## Materials

The Contractor shall furnish all earth material necessary for the construction of the shoulders in accordance with Section 1019 of the *2012 Standard Specifications*. All soil is subject to test and acceptance or rejection by the Engineer.

The Contractor is required to use **Aggregate Shoulder Borrow (ASB) on ALL MAPS EXCEPT MAP #9 as directed by the Engineer.** ASB shall meet the following gradation:

| <u>Sieve</u> | <u>Percent Passing</u> |
|--------------|------------------------|
| 1 1/2"       | 100                    |
| 1/2"         | 55 - 95                |
| #4           | 35 - 74                |

## Construction Methods

Obtain material from within the project limits or approved borrow source. Prior to adding borrow material, the existing shoulder shall be scarified to provide the proper bond and shall be compacted to the satisfaction of the Engineer.

Any excess material generated by the shoulder reconstruction shall be disposed of by the Contractor in an approved disposal site.

## Measurement and Payment

*Shoulder Reconstruction* will be measured and paid as the actual number of miles of shoulders that have been reconstructed. Measurement will be made along the surface of each shoulder to the nearest 0.01 of a mile. Such price will include disposing of any excess material in an approved disposal site, and for all labor, tools, equipment, and incidentals necessary to complete the work.

*Borrow Excavation* will be paid in accordance with Section 230 of the *2012 Standard Specifications* for earth material furnished by the Contractor. The requirements of Article 104-5 of the *2012 Standard Specifications* pertaining to revised contract prices for overrunning minor items will not apply to the item of *Borrow Excavation*. If ASB is used for borrow, a unit weight of 140 pounds per cubic foot will be used to convert the weight of ASB to cubic yards.

**Aggregate Shoulder Borrow will be measured and paid at the contract unit price per ton.**

Incidental Stone Base will be measured and paid as provided in Article 545-6 of the *2012 Standard Specifications*. Where ASB is used, Incidental Stone will not be required

Seeding and Mulching will be measured and paid as shown elsewhere in the contract documents. Where ASB is used, seeding and mulching will not be required.

Payment will be made under:

**Pay Item**  
Shoulder Reconstruction  
Borrow Excavation  
**Aggregate Shoulder Borrow**

**Pay Unit**  
Shoulder Mile  
Cubic Yard  
**Ton**

**INCIDENTAL STONE BASE:**

(7-1-95) (Rev.8-21-12)

545

SP5 R28R

**Description**

Place incidental stone base on driveways, mailboxes, etc. immediately after paving and do not have the paving operations exceed stone base placement by more than one week without written permission of the Engineer.

**Materials and Construction**

Provide and place incidental stone base in accordance with Section 545 of the *2012 Standard Specifications*.

**Measurement and Payment**

*Incidental Stone Base* will be measured and paid in accordance with Article 545-6 of the *2012 Standard Specifications*.

**ASPHALT PAVEMENTS - SUPERPAVE:**

(6-19-12) (Rev. 2-18-14)

605, 609, 610, 650, 660

SP6 R01

Revise the *2012 Standard Specifications* as follows:

**Page 6-3, Article 605-7 APPLICATION RATES AND TEMPERATURES**, replace this article, including Table 601-1, with the following:

Apply tack coat uniformly across the existing surface at target application rates shown in Table 605-1.

| <b>TABLE 605-1<br/>APPLICATION RATES FOR TACK COAT</b> |                             |
|--------------------------------------------------------|-----------------------------|
| <b>Existing Surface</b>                                | <b>Target Rate (gal/sy)</b> |
|                                                        | <b>Emulsified Asphalt</b>   |
| New Asphalt                                            | 0.04 ± 0.01                 |
| Oxidized or Milled Asphalt                             | 0.06 ± 0.01                 |
| Concrete                                               | 0.08 ± 0.01                 |

Apply tack coat at a temperature within the ranges shown in Table 605-2. Tack coat shall not be overheated during storage, transport or at application.

| <b>TABLE 605-2<br/>APPLICATION TEMPERATURE FOR TACK COAT</b> |                          |
|--------------------------------------------------------------|--------------------------|
| <b>Asphalt Material</b>                                      | <b>Temperature Range</b> |
| Asphalt Binder, Grade PG 64-22                               | 350 - 400°F              |
| Emulsified Asphalt, Grade RS-1H                              | 130 - 160°F              |
| Emulsified Asphalt, Grade CRS-1                              | 130 - 160°F              |
| Emulsified Asphalt, Grade CRS-1H                             | 130 - 160°F              |
| Emulsified Asphalt, Grade HFMS-1                             | 130 - 160°F              |
| Emulsified Asphalt, Grade CRS-2                              | 130 - 160°F              |

**Page 6-7, Article 609-3 FIELD VERIFICATION OF MIXTURE AND JOB MIX FORMULA ADJUSTMENTS**, lines 35-37, delete the second sentence of the second paragraph.

**Page 6-18, Article 610-1 DESCRIPTION**, lines 40-41, delete the last sentence of the last paragraph.

**Page 6-19, Subarticle 610-3(A) Mix Design-General**, line 5, add the following as the first paragraph:

Warm mix asphalt (WMA) is allowed for use at the Contractor's option in accordance with the NCDOT Approved Products List for WMA Technologies available at:

**<https://connect.ncdot.gov/resources/Materials/MaterialsResources/Warm%20Mix%20Asphalt%20Approved%20List.pdf>**

**Page 6-21, Subarticle 610-3(C) Job Mix Formula (JMF)**, replace Table 610-1 with the following:

| <b>Binder Grade</b> | <b>HMA<br/>JMF Temperature</b> | <b>WMA<br/>JMF Temperature Range</b> |
|---------------------|--------------------------------|--------------------------------------|
| PG 64-22            | 300°F                          | 225 - 275°F                          |
| PG 70-22            | 315°F                          | 240 - 290°F                          |
| PG 76-22            | 335°F                          | 260 - 310°F                          |

**A.** The mix temperature, when checked in the truck at the roadway, shall be within plus 15° and minus 25° of the temperature specified on the JMF.

**Page 6-21, Subarticle 610-3(C) Job Mix Formula (JMF)**, lines 4-6, delete first sentence of the second paragraph. Line 7, in the second sentence of the second paragraph, replace "275°F" with "275°F or greater."

**Page 6-22, Article 610-4 WEATHER, TEMPERATURE AND SEASONAL LIMITATIONS FOR PRODUCING AND PLACING ASPHALT MIXTURES**, lines 15-17, replace the second sentence of the first paragraph with the following:

Do not place asphalt material when the air or surface temperatures, measured at the location of the paving operation away from artificial heat, do not meet Table 610-5.

**Page 6-23, Article 610-4 WEATHER, TEMPERATURE AND SEASONAL LIMITATIONS FOR PRODUCING AND PLACING ASPHALT MIXTURES**, replace Table 610-5 with the following:

| <b>TABLE 610-5<br/>PLACEMENT TEMPERATURES FOR ASPHALT</b> |                                            |
|-----------------------------------------------------------|--------------------------------------------|
| <b>Asphalt Concrete Mix Type</b>                          | <b>Minimum Surface and Air Temperature</b> |
| B25.0B, C                                                 | 35°F                                       |
| I19.0B, C, D                                              | 35°F                                       |
| SF9.5A, S9.5B                                             | 40°F                                       |
| S9.5C, S12.5C                                             | 45°F                                       |
| S9.5D, S12.5D                                             | 50°F                                       |

**Page 6-26, Article 610-7 HAULING OF ASPHALT MIXTURE**, lines 22-23, in the fourth sentence of the first paragraph replace “so as to overlap the top of the truck bed and” with “to”.

**Page 6-41, Subarticle 650-3(B) Mix Design Criteria**, replace Table 650-1 with the following:

| <i>Sieve Size (mm)</i> | <i>Type FC-1</i> | <i>Type FC-1 Modified</i> | <i>Type FC-2 Modified</i> |
|------------------------|------------------|---------------------------|---------------------------|
| 19.0                   | -                | -                         | 100                       |
| 12.5                   | 100              | 100                       | <b>80 - 100</b>           |
| 9.50                   | 75 - 100         | 75 - 100                  | 55 - <b>80</b>            |
| 4.75                   | 25 - 45          | 25 - 45                   | 15 - <b>30</b>            |
| 2.36                   | 5 - 15           | 5 - 15                    | <b>5 - 15</b>             |
| 0.075                  | 1.0 - 3.0        | 1.0 - 3.0                 | 2.0 - 4.0                 |

**Page 6-50, Table 660-1 MATERIAL APPLICATION RATES AND TEMPERATURES**, lines 1-2, replace Note A in Table 660-1 with the following:

- A. Use No. 6M, No. 67, No. 5 and No. 78M aggregate for retreatment before an asphalt overlay on existing pavement based on the width of the cracks in the existing pavement. Choose No. 78M for sections of roadway where the average width of existing cracks is 1/4" or less in width, No. 67 for sections of roadway where the average width of existing cracks are 1/4" to 5/8" in width and choose No. 5 for sections of roadway where the existing crack widths are greater than 5/8".

**SHOULDER WEDGE:**

(9-20-11) (Rev. 8-21-12)

610

SP6 R03R

Revise the *2012 Standard Specifications* as follows:

**Page 6-26, Article 610-8**, add the following after line 43:

Attach a device, mounted on screed of paving equipment, capable of constructing a shoulder wedge with an angle of 30 degrees plus or minus 4 degrees along the outside edge of the roadway, measured from the horizontal plane in place after final compaction on the final surface course. Use an approved mechanical device which will form the asphalt mixture to produce a wedge with uniform texture, shape and density while automatically adjusting to varying heights.

Payment for use of this device will be incidental to the other pay items in the contract.

**ASPHALT BINDER CONTENT OF ASPHALT PLANT MIXES:**

(11-21-00) (Rev. 7-17-12)

609

SP6 R15

The approximate asphalt binder content of the asphalt concrete plant mixtures used on this project will be as follows:

|                                      |              |      |
|--------------------------------------|--------------|------|
| Asphalt Concrete Base Course         | Type B 25.0  | 4.4% |
| Asphalt Concrete Intermediate Course | Type I 19.0  | 4.8% |
| Asphalt Concrete Surface Course      | Type S 4.75A | 6.8% |
| Asphalt Concrete Surface Course      | Type SA-1    | 6.8% |



|                                 |              |      |
|---------------------------------|--------------|------|
| Asphalt Concrete Surface Course | Type SF 9.5A | 6.7% |
| Asphalt Concrete Surface Course | Type S 9.5   | 6.0% |
| Asphalt Concrete Surface Course | Type S 12.5  | 5.6% |

The actual asphalt binder content will be established during construction by the Engineer within the limits established in the *2012 Standard Specifications*.

**ASPHALT PLANT MIXTURES:**

(7-1-95)

609

SP6 R20

Place asphalt concrete base course material in trench sections with asphalt pavement spreaders made for the purpose or with other equipment approved by the Engineer.

**PRICE ADJUSTMENT - ASPHALT BINDER FOR PLANT MIX:**

(11-21-00)

620

SP6 R25

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

The base price index for asphalt binder for plant mix is **\$611.92** per ton.

This base price index represents an average of F.O.B. selling prices of asphalt binder at supplier's terminals on **August 1, 2014**.

**FINAL SURFACE TESTING NOT REQUIRED:**

(5-18-04) (Rev. 5-15-12)

610

SP6 R45

Final surface testing is not required on this project.

**RESURFACING EXISTING BRIDGES:**

(7-1-95) (Rev. 8-21-12)

SP6 R61AR

The Contractor's attention is directed to the fact that he will be required to resurface the bridges on this project if directed by the Engineer.

Place the surface so as to follow a grade line set by the Engineer with the minimum thickness as shown on the sketch herein or as directed by the Engineer. State Forces will make all necessary repairs to the bridge floors prior to the time that the Contractor places the proposed surfacing. Give the Engineer at least 15 days notice prior to the expected time to begin operations so that State Forces will have sufficient time to complete their work.

At all bridges that are not to be resurfaced, taper out the proposed resurfacing layer adjacent to the bridges to insure a proper tie-in with the bridge surface.

**PAVING DRIVEWAYS AND MAILBOX TURNOUTS:**

(8-21-12)

610

SP6 R70BR (REV.)

Condition, prime, and surface all **existing paved** driveway and mailbox turnouts as directed by the Engineer. Place pavement on driveway and mailbox turnouts of the same material as used on the main line and in depths directed by the Engineer. Widen the pavement on curves as directed by the Engineer.

**TRENCHING FOR INTERMEDIATE COURSE:**

(7-1-95) (Rev. 8-21-12)

610

SP6 R79BR

Perform all trenching necessary to place the asphalt concrete intermediate course widening in accordance with the typical sections, at locations shown on the sketch maps, and as directed by the Engineer.

Perform the trenching for the intermediate course on the same day that the intermediate course is to be placed. If the intermediate course cannot be placed on the same day the trench section is excavated, backfill the trench with earth material and compact it to the satisfaction of the Engineer. Once the trench is open, perform backfilling and re-opening of the trench at no cost to the Department.

The Contractor will be restricted to widening one side of the project at a time unless otherwise permitted by the Engineer. In widening, operate equipment and conduct operations in the same direction as the flow of traffic.

Density tests may be taken every 2,000 feet in the widened areas as directed by the Engineer. Shape and compact the subgrade in the widened areas to the satisfaction of the Engineer. Compact the asphalt concrete intermediate course in the widened areas in accordance with the provisions of Article 610-9 of the *2012 Standard Specifications*.

Place the excavated material from trenching operation on the adjacent shoulder area as directed by the Engineer. Cut adequate weep holes in the excavated material to provide for adequate drainage as directed by the Engineer. Remove all excavated material from all drives to provide ingress and egress to abutting properties and from in front of mailboxes and paper boxes. Saw a neat edge and remove all asphalt and/or concrete driveways, and existing asphalt widening, as directed by the Engineer, to the width of the widening and dispose of any excavated concrete or asphalt materials. Properly reconnect driveways.

Upon completion of the paving operation, backfill the trench to the satisfaction of the Engineer. Properly dispose of any excess material remaining after this operation.

No direct payment will be made for trenching, sawing, and removal of driveways, depositing material on shoulder area, backfilling trench, or removal of spoil material, as the cost of this work shall be included in the bid unit price per ton for *Asphalt Concrete Intermediate Course*, Type \_\_\_\_.

**PATCHING EXISTING PAVEMENT:**

(1-15-02) (Rev.12-18-12)

610

SP6 R88R

**Description**

The Contractor's attention is directed to the fact that there are areas of existing pavement on this project that will require repair prior to resurfacing. Patch the areas that, in the opinion of the Engineer, need repairing. The areas to be patched will be delineated by the Engineer prior to the Contractor performing repairs.

**Materials**

The patching consists of Asphalt Concrete Base Course, Asphalt Concrete Intermediate Course, Asphalt Concrete Surface Course, or a combination of base, binder and surface course.

**Construction Methods**

Remove existing pavement at locations directed by the Engineer in accordance with Section 250 of the *2012 Standard Specifications*.

Place Asphalt Concrete Base Course, in lifts not exceeding 5.5 inches. Utilize compaction equipment suitable for compacting patches as small as 3.5 feet by 6 feet on each lift. Use an approved compaction pattern to achieve proper compaction. If patched pavement is to be open to traffic for more than 48 hours prior to overlay, use Asphalt Surface Course in the top 1.5 inches of the patch.

Schedule operations so that all areas where pavement has been removed will be repaired on the same day of the pavement removal and all lanes of traffic restored.

**Measurement and Payment**

*Patching Existing Pavement* will be measured and paid as the actual number of tons of asphalt plant mix complete in place that has been used to make completed and accepted repairs. The asphalt plant mixed material will be measured by being weighed in trucks on certified platform scales or other certified weighing devices. The above price and payment will be full compensation for all work covered by this provision, including but not limited to removal and disposal of all types of pavement; furnishing and applying tack coat; furnishing, placing, and compacting of asphalt plant mix; furnishing of asphalt binder for the asphalt plant mix; and furnishing scales.

Patching Existing Pavement will be considered a minor item. Any provisions included in the contract that provides for adjustments in compensation due to variations in the price of asphalt binder will not be applicable to payment for the work covered by this provision.

Payment will be made under:

**Pay Item**  
Patching Existing Pavement

**Pay Unit**  
Ton

**MATERIALS:**

(2-21-12) (Rev. 5-20-14)

1000, 1002, 1005, 1024, 1050, 1056, 1074, 1078, 1080, 1081, 1086, 1084, 1087, 1092

SP10 R01

Revise the 2012 *Standard Specifications* as follows:

**Page 10-1, Article 1000-1, DESCRIPTION, lines 9-10,** replace the last sentence of the first paragraph with the following:

Type IL, IP, IS or IT blended cement may be used instead of Portland cement.

**Page 10-1, Article 1000-1, DESCRIPTION, line 14,** add the following:

Use materials which do not produce a mottled appearance through rusting or other staining of the finished concrete surface.

**Page 10-5, Table 1000-1, REQUIREMENTS FOR CONCRETE,** replace with the following:

| TABLE 1000-1<br>REQUIREMENTS FOR CONCRETE |                                                  |                            |                   |                            |                   |                                 |                    |                |              |              |              |
|-------------------------------------------|--------------------------------------------------|----------------------------|-------------------|----------------------------|-------------------|---------------------------------|--------------------|----------------|--------------|--------------|--------------|
| Class of Concrete                         | Min. Comp. Strength at 28 days                   | Maximum Water-Cement Ratio |                   |                            |                   | Consistency Max. Slump          |                    | Cement Content |              |              |              |
|                                           |                                                  | Air-Entrained Concrete     |                   | Non Air-Entrained Concrete |                   | Vibrated                        | Non-Vibrated       | Vibrated       |              | Non-Vibrated |              |
|                                           |                                                  | Rounded Aggregate          | Angular Aggregate | Rounded Aggregate          | Angular Aggregate |                                 |                    | Min.           | Max.         | Min.         | Max.         |
| <i>Units</i>                              | <i>psi</i>                                       |                            |                   |                            |                   | <i>inch</i>                     | <i>inch</i>        | <i>lb/cy</i>   | <i>lb/cy</i> | <i>lb/cy</i> | <i>lb/cy</i> |
| AA                                        | 4,500                                            | 0.381                      | 0.426             | -                          | -                 | 3.5                             | -                  | 639            | 715          | -            | -            |
| AA Slip Form                              | 4,500                                            | 0.381                      | 0.426             | -                          | -                 | 1.5                             | -                  | 639            | 715          | -            | -            |
| Drilled Pier                              | 4,500                                            | -                          | -                 | 0.450                      | 0.450             | -                               | 5-7 dry<br>7-9 wet | -              | -            | 640          | 800          |
| A                                         | 3,000                                            | 0.488                      | 0.532             | 0.550                      | 0.594             | 3.5                             | 4                  | 564            | -            | 602          | -            |
| B                                         | 2,500                                            | 0.488                      | 0.567             | 0.559                      | 0.630             | 2.5                             | 4                  | 508            | -            | 545          | -            |
| B Slip Formed                             | 2,500                                            | 0.488                      | 0.567             | -                          | -                 | 1.5                             | -                  | 508            | -            | -            | -            |
| Sand Light-weight                         | 4,500                                            | -                          | 0.420             | -                          | -                 | 4                               | -                  | 715            | -            | -            | -            |
| Latex Modified                            | 3,000<br>7 day                                   | 0.400                      | 0.400             | -                          | -                 | 6                               | -                  | 658            | -            | -            | -            |
| Flowable Fill excavatable                 | 150 max.<br>at 56 days                           | as needed                  | as needed         | as needed                  | as needed         | -                               | Flow-able          | -              | -            | 40           | 100          |
| Flowable Fill non-excavatable             | 125                                              | as needed                  | as needed         | as needed                  | as needed         | -                               | Flow-able          | -              | -            | 100          | as needed    |
| Pavement                                  | 4,500 design, field<br>650 flexural, design only | 0.559                      | 0.559             | -                          | -                 | 1.5 slip form<br>3.0 hand place | -                  | 526            | -            | -            | -            |
| Precast                                   | See Table 1077-1                                 | as needed                  | as needed         | -                          | -                 | 6                               | as needed          | as needed      | as needed    | as needed    | as needed    |
| Prestress                                 | per contract                                     | See Table 1078-1           | See Table 1078-1  | -                          | -                 | 8                               | -                  | 564            | as needed    | -            | -            |

**Page 10-1, Article 1000-2, MATERIALS, line 16; Page 10-8, Subarticle 1000-7(A), MATERIALS, line 8; and Page 10-18, Article 1002-2, MATERIALS, line 9,** add the following to the table of item references:

**Item**

Type IL Blended Cement

**Section**

1024-1

Page 10-23, Table 1005-1, AGGREGATE GRADATION-COARSE AGGREGATE, replace with the following:

| TABLE 1005-1<br>AGGREGATE GRADATION - COARSE AGGREGATE |     |        |        |        |        |        |        |       |       |      |       |                   |                                                            |
|--------------------------------------------------------|-----|--------|--------|--------|--------|--------|--------|-------|-------|------|-------|-------------------|------------------------------------------------------------|
| Percentage of Total by Weight Passing                  |     |        |        |        |        |        |        |       |       |      |       |                   |                                                            |
| Std. Size #                                            | 2"  | 1 1/2" | 1"     | 3/4"   | 1/2"   | 3/8"   | #4     | #8    | #10   | #16  | #40   | #200              | Remarks                                                    |
| 4                                                      | 100 | 90-100 | 20-55  | 0-15   | -      | 0-5    | -      | -     | -     | -    | -     | A                 | Asphalt Plant Mix                                          |
| 467M                                                   | 100 | 95-100 | -      | 35-70  | -      | 0-30   | 0-5    | -     | -     | -    | -     | A                 | Asphalt Plant Mix                                          |
| 5                                                      | -   | 100    | 90-100 | 20-55  | 0-10   | 0-5    | -      | -     | -     | -    | -     | A                 | AST, Sediment Control Stone                                |
| 57                                                     | -   | 100    | 95-100 | -      | 25-60  | -      | 0-10   | 0-5   | -     | -    | -     | A                 | AST, Str. Concrete, Shoulder Drain, Sediment Control Stone |
| 57M                                                    | -   | 100    | 95-100 | -      | 25-45  | -      | 0-10   | 0-5   | -     | -    | -     | A                 | AST, Concrete Pavement                                     |
| 6M                                                     | -   | -      | 100    | 90-100 | 20-55  | 0-20   | 0-8    | -     | -     | -    | -     | A                 | AST                                                        |
| 67                                                     | -   | -      | 100    | 90-100 | -      | 20-55  | 0-10   | 0-5   | -     | -    | -     | A                 | AST, Str. Concrete, Asphalt Plant Mix                      |
| 78M                                                    | -   | -      | -      | 100    | 98-100 | 75-100 | 20-45  | 0-15  | -     | -    | -     | A                 | Asphalt Plant Mix, AST, Str. Conc. Weep Hole Drains        |
| 14M                                                    | -   | -      | -      | -      | -      | 100    | 35-70  | 5-20  | -     | 0-8  | -     | A                 | Asphalt Plant Mix, AST, Weep Hole Drains, Str. Concrete    |
| 9                                                      | -   | -      | -      | -      | -      | 100    | 85-100 | 10-40 | -     | 0-10 | -     | A                 | AST                                                        |
| ABC                                                    | -   | 100    | 75-97  | -      | 55-80  | -      | 35-55  | -     | 25-45 | -    | 14-30 | 4-12 <sup>B</sup> | Aggregate Base Course, Aggregate Stabilization             |
| ABC (M)                                                | -   | 100    | 75-100 | -      | 45-79  | -      | 20-40  | -     | 0-25  | -    | -     | 0-12 <sup>B</sup> | Maintenance Stabilization                                  |
| Light-C weight                                         | -   | -      | -      | -      | 100    | 80-100 | 5-40   | 0-20  | -     | 0-10 | -     | 0-2.5             | AST                                                        |

A. See Subarticle 1005-4(A).

B. See Subarticle 1005-4(B).

C. For Lightweight Aggregate used in Structural Concrete, see Subarticle 1014-2(E)(6).

Page 10-46, Article 1024-1, PORTLAND CEMENT, line 33, add the following as the ninth paragraph:

Use Type IL blended cement that meets AASHTO M 240, except that the limestone content is limited to between 5 and 12% by weight and the constituents shall be interground. Class F fly ash can replace a portion of Type IL blended cement and shall be replaced as outlined in Subarticle 1000-4(I) for Portland cement. For mixes that contain cement with alkali content between 0.6% and 1.0% and for mixes that contain a reactive aggregate documented by the Department, use a pozzolan in the amount shown in Table 1024-1.

**Page 10-65, Article 1050-1, GENERAL, line 41,** replace the first sentence with the following:

All fencing material and accessories shall meet Section 106.

**Page 10-73, Article 1056-1 DESCRIPTION, lines 7-8,** delete the first sentence of the second paragraph and replace with the following:

Use geotextile fabrics that are on the NCDOT Approved Products List.

**Page 10-73, Article 1056-2 HANDLING AND STORING, line 17,** replace “mechanically stabilized earth (MSE) wall faces” with “temporary wall faces”.

**Page 10-74, TABLE 1056-1 GEOTEXTILE REQUIREMENTS,** replace table with the following:

| TABLE 1056-1<br>GEOTEXTILE REQUIREMENTS |                                                                                             |                                   |                             |                                   |                                                         |             |
|-----------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------|-----------------------------------|---------------------------------------------------------|-------------|
| Property                                | Requirement (MARV <sup>A</sup> )                                                            |                                   |                             |                                   |                                                         | Test Method |
|                                         | Type 1                                                                                      | Type 2                            | Type 3 <sup>B</sup>         | Type 4                            | Type 5 <sup>C</sup>                                     |             |
| <i>Typical Application</i>              | <i>Shoulder Drains</i>                                                                      | <i>Under Rip Rap</i>              | <i>Temporary Silt Fence</i> | <i>Soil Stabilization</i>         | <i>Temporary Walls</i>                                  |             |
| Elongation (MD & CD)                    | ≥ 50%                                                                                       | ≥ 50%                             | ≤ 25%                       | < 50%                             | < 50%                                                   | ASTM D4632  |
| Grab Strength (MD & CD)                 | Table 1 <sup>D</sup> ,<br>Class 3                                                           | Table 1 <sup>D</sup> ,<br>Class 1 | 100 lb                      | Table 1 <sup>D</sup> ,<br>Class 3 | -                                                       | ASTM D4632  |
| Tear Strength (MD & CD)                 |                                                                                             |                                   | -                           |                                   | -                                                       | ASTM D4533  |
| Puncture Strength                       |                                                                                             |                                   | -                           |                                   | -                                                       | ASTM D6241  |
| Ultimate Tensile Strength (MD & CD)     | -                                                                                           | -                                 | -                           | -                                 | 2,400 lb/ft (unless required otherwise in the contract) | ASTM D4595  |
| Permittivity                            | Table 2 <sup>D</sup> ,<br>15% to 50%<br><i>in Situ</i> Soil<br>Passing No. 200 <sup>E</sup> |                                   | Table 7 <sup>D</sup>        | Table 5 <sup>D</sup>              | 0.20 sec <sup>-1</sup>                                  | ASTM D4491  |
| Apparent Opening Size                   |                                                                                             |                                   |                             |                                   | No. 30 <sup>E</sup>                                     | ASTM D4751  |
| UV Stability (Retained Strength)        |                                                                                             |                                   |                             |                                   | 70%                                                     | ASTM D4355  |

- A. MARV does not apply to elongation
- B. Minimum roll width of 36" required
- C. Minimum roll width of 13 ft required
- D. AASHTO M 288
- E. US Sieve No. per AASHTO M 92

**Page 10-115, Subarticle 1074-7(B), Gray Iron Castings, lines 10-11,** replace with the first two sentences with the following:

Supply gray iron castings meeting all facets of AASHTO M 306 excluding proof load. Proof load testing will only be required for new casting designs during the design process, and conformance to M306 loading (40,000 lbs.) will be required only when noted on the design documents.

**Page 10-126, Table 1078-1, REQUIREMENTS FOR CONCRETE,** replace with the following:

| Property                                  | 28 Day Design<br>Compressive<br>Strength<br>6,000 psi or less | 28 Day Design<br>Compressive<br>Strength<br>greater than<br>6,000 psi |
|-------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------|
| Maximum Water/Cementitious Material Ratio | 0.45                                                          | 0.40                                                                  |
| Maximum Slump without HRWR                | 3.5"                                                          | 3.5"                                                                  |
| Maximum Slump with HRWR                   | 8"                                                            | 8"                                                                    |
| Air Content (upon discharge into forms)   | 5 + 2%                                                        | 5 + 2%                                                                |

**Page 10-151, Article 1080-4 Inspection and Sampling, lines 18-22,** replace (B), (C) and (D) with the following:

- (B) At least 3 panels prepared as specified in 5.5.10 of AASHTO M 300, Bullet Hole Immersion Test.
- (C) At least 3 panels of 4"x6"x1/4" for the Elcometer Adhesion Pull Off Test, ASTM D4541.
- (D) A certified test report from an approved independent testing laboratory for the Salt Fog Resistance Test, Cyclic Weathering Resistance Test, and Bullet Hole Immersion Test as specified in AASHTO M 300.
- (E) A certified test report from an approved independent testing laboratory that the product has been tested for slip coefficient and meets AASHTO M253, Class B.

**Page 10-161, Subarticle 1081-1(A) Classifications, lines 29-33,** delete first 3 sentences of the description for Type 2 and replace with the following:

**Type 2** - A low-modulus, general-purpose adhesive used in epoxy mortar repairs. It may be used to patch spalled, cracked or broken concrete where vibration, shock or expansion and contraction are expected.

**Page 10-162, Subarticle 1081-1(A) Classifications, lines 4-7,** delete the second and third sentences of the description for Type 3A. **Lines 16-22,** delete Types 6A, 6B and 6C.

**Page 10-162, Subarticle 1081-1(B) Requirements, lines 26-30,** replace the second paragraph with the following:

For epoxy resin systems used for embedding dowel bars, threaded rods, rebar, anchor bolts and other fixtures in hardened concrete, the manufacturer shall submit test results showing that the bonding system will obtain 125% of the specified required yield strength of the fixture. Furnish certification that, for the particular bolt grade, diameter and embedment depth required, the anchor system will not fail by adhesive failure and that there is no movement of the anchor bolt.

For certification and anchorage, use 3,000 psi as the minimum Portland cement concrete compressive strength used in this test. Use adhesives that meet Section 1081.

List the properties of the adhesive on the container and include density, minimum and maximum temperature application, setting time, shelf life, pot life, shear strength and compressive strength.

**Page 10-163, Table 1081-1 Properties of Mixed Epoxy Resin Systems**, replace table with the following:

| <b>Table 1081-1</b><br><b>Properties of Mixed Epoxy Resin Systems</b> |              |         |        |              |         |         |        |
|-----------------------------------------------------------------------|--------------|---------|--------|--------------|---------|---------|--------|
| Property                                                              | Type 1       | Type 2  | Type 3 | Type 3A      | Type 4A | Type 4B | Type 5 |
| Viscosity-Poises at 77°F ± 2°F                                        | Gel          | 10-30   | 25-75  | Gel          | 40-150  | 40-150  | 1-6    |
| Spindle No.                                                           | -            | 3       | 4      | --           | 4       | 4       | 2      |
| Speed (RPM)                                                           | -            | 20      | 20     | --           | 10      | 10      | 50     |
| Pot Life (Minutes)                                                    | 20-50        | 30-60   | 20-50  | 5-50         | 40-80   | 40-80   | 20-60  |
| Minimum Tensile Strength at 7 days (psi)                              | 1,500        | 2,000   | 4,000  | 4,000        | 1,500   | 1,500   | 4,000  |
| Tensile Elongation at 7 days (%)                                      | 30 min.      | 30 min. | 2-5    | 2-5          | 5-15    | 5-15    | 2-5    |
| Min. Compressive Strength of 2" mortar cubes at 24 hours              | 3,000 (Neat) | 4,000-  | 6,000- | 6,000 (Neat) | 3,000   | 3,000   | 6,000  |
| Min. Compressive Strength of 2" mortar cubes at 7 days                | 5,000 (Neat) | -       | -      | -            | -       | 5,000   | -      |
| Maximum Water Absorption (%)                                          | 1.5          | 1.0     | 1.0    | 1.5          | 1.0     | 1.0     | 1.0    |
| Min. Bond Strength Slant Shear Test at 14 days (psi)                  | 1,500        | 1,500   | 2,000  | 2,000        | 1,500   | 1,500   | 1,500  |

**Page 10-164, Subarticle 1081-1(E) Prequalification, lines 31-33**, replace the second sentence of the first paragraph with the following:

Manufacturers choosing to supply material for Department jobs must submit an application through the Value Management Unit with the following information for each type and brand name:



**Page 10-164, Subarticle 1081-1(E)(3), line 37,** replace this subarticle with the following:

(3) Type of the material in accordance with Articles 1081-1 and 1081-4,

**Page 10-165, Subarticle 1081-1(E)(6), line 1,** in the first sentence of the first paragraph replace “AASHTO M 237” with “the specifications”.

**Page 10-165, Subarticle 1081-1(E) Prequalification, line 9-10,** delete the second sentence of the last paragraph.

**Page 10-165, Subarticle 1081-1(F) Acceptance, line 14,** in the first sentence of the first paragraph replace “Type 1” with “Type 3”.

**Page 10-169, Subarticle 1081-3(G) Anchor Bolt Adhesives,** delete this subarticle.

**Page 10-170, Article 1081-3 Hot Bitumen, line 9,** add the following at the end of Section 1081:

#### **1081-4 EPOXY RESIN ADHESIVE FOR BONDING TRAFFIC MARKINGS**

##### **(A) General**

This section covers epoxy resin adhesive for bonding traffic markers to pavement surfaces.

##### **(B) Classification**

The types of epoxies and their uses are as shown below:

**Type I** – Rapid Setting, High Viscosity, Epoxy Adhesive. This type of adhesive provides rapid adherence to traffic markers to the surface of pavement.

**Type II** – Standard Setting, High Viscosity, Epoxy Adhesive. This type of adhesive is recommended for adherence of traffic markers to pavement surfaces when rapid set is not required.

**Type III** – Rapid Setting, Low Viscosity, Water Resistant, Epoxy Adhesive. This type of rapid setting adhesive, due to its low viscosity, is appropriate only for use with embedded traffic markers.

**Type IV** – Standard Set Epoxy for Blade Deflecting-Type Plowable Markers.

##### **(C) Requirements**

Epoxies shall conform to the requirements set forth in AASHTO M 237.

##### **(D) Prequalification**

Refer to Subarticle 1081-1(E).

##### **(E) Acceptance**

Refer to Subarticle 1081-1(F).

**Page 10-173, Article 1084-2 STEEL SHEET PILES, lines 37-38,** replace first paragraph with the following:

Steel sheet piles detailed for permanent applications shall be hot rolled and meet ASTM A572 or ASTM A690 unless otherwise required by the plans. Steel sheet piles shall be coated as required by the plans. Galvanized sheet piles shall be coated in accordance with Section 1076.

Metallized sheet piles shall be metallized in accordance to the Project Special Provision

“Thermal Sprayed Coatings (Metallization)” with an 8 mil, 99.9% aluminum alloy coating and a 0.5 mil seal coating. Any portion of the metallized sheet piling encased in concrete shall receive a barrier coat. The barrier coat shall be an approved waterborne coating with a low-viscosity which readily absorbs into the pores of the aluminum thermal sprayed coating. The waterborne coating shall be applied at a spreading rate that results in a theoretical 1.5 mil dry film thickness. The manufacturer shall issue a letter of certification that the resin chemistry of the waterborne coating is compatible with the 99.9% aluminum thermal sprayed alloy and suitable for tidal water applications.

**Page 10-174, Subarticle 1086-1(B)(1) Epoxy, lines 18-24,** replace this subarticle with the following:

The epoxy shall meet Article 1081-4.

The 2 types of epoxy adhesive which may be used are Type I, Rapid Setting, and Type II, Standard Setting. Use Type II when the pavement temperature is above 60°F or per the manufacturer’s recommendations whichever is more stringent. Use Type I when the pavement temperature is between 50°F and 60°F or per the manufacturer’s recommendations whichever is more stringent. Epoxy adhesive Type I, Cold Set, may be used to attach temporary pavement markers to the pavement surface when the pavement temperature is between 32°F and 50°F or per the manufacturer’s recommendations whichever is more stringent.

**Page 10-175, Subarticle 1086-2(E) Epoxy Adhesives, line 27,** replace “Section 1081” with “Article 1081-4”.

**Page 10-177, Subarticle 1086-3(E) Epoxy Adhesives, line 22,** replace “Section 1081” with “Article 1081-4”.

**Page 10-179, Subarticle 1087-4(A) Composition, lines 39-41,** replace the third paragraph with the following:

All intermixed and drop-on glass beads shall not contain more than 75 ppm arsenic or 200 ppm lead.

**Page 10-180, Subarticle 1087-4(B) Physical Characteristics, line 8,** replace the second paragraph with the following:

All intermixed and drop-on glass beads shall comply with NCGS § 136-30.2 and 23 USC § 109(r).

**Page 10-181, Subarticle 1087-7(A) Intermixed and Drop-on Glass Beads, line 24,** add the following after the first paragraph:

Use X-ray Fluorescence for the normal sampling procedure for intermixed and drop-on beads, without crushing, to check for any levels of arsenic and lead. If any arsenic or lead is detected, the sample shall be crushed and repeat the test using X-ray Fluorescence. If the X-ray Fluorescence test shows more than a LOD of 5 ppm, test the beads using United States Environmental Protection Agency Method 6010B, 6010C or 3052 for no more than 75 ppm arsenic or 200 ppm lead.

Page 10-204, Subarticle 1092-2(A) Performance and Test Requirements, replace Table 1092-3 Minimum Coefficient of Retroreflection for NC Grade A with the following:

| Observation Angle, degrees | Entrance Angle, degrees | White | Yellow | Green | Red | Blue | Fluorescent Yellow Green | Fluorescent Yellow |
|----------------------------|-------------------------|-------|--------|-------|-----|------|--------------------------|--------------------|
| 0.2                        | -4.0                    | 525   | 395    | 52    | 95  | 30   | 420                      | 315                |
| 0.2                        | 30.0                    | 215   | 162    | 22    | 43  | 10   | 170                      | 130                |
| 0.5                        | -4.0                    | 310   | 230    | 31    | 56  | 18   | 245                      | 185                |
| 0.5                        | 30.0                    | 135   | 100    | 14    | 27  | 6    | 110                      | 81                 |
| 1.0                        | -4.0                    | 120   | 60     | 8     | 16  | 3.6  | 64                       | 48                 |
| 1.0                        | 30.0                    | 45    | 34     | 4.5   | 9   | 2    | 36                       | 27                 |

**SHOULDER AND SLOPE BORROW:**

(3-19-13)

1019

SP10 R10

Use soil in accordance with Section 1019 of the *2012 Standard Specifications*. Use soil consisting of loose, friable, sandy material with a PI greater than 6 and less than 25 and a pH ranging from 5.5 to 7.0.

Soil with a pH ranging from 4.0 to 5.5 will be accepted without further testing if additional limestone is provided in accordance with the application rates shown in Table 1019-1A. Soil type is identified during the soil analysis. Soils with a pH above 7.0 require acidic amendments to be added. Submit proposed acidic amendments to the Engineer for review and approval. Soils with a pH below 4.0 or that do not meet the PI requirements shall not be used.

| pH TEST RESULT | Sandy Soils Additional Rate (lbs. / Acre) | Silt Loam Soils Additional Rate (lbs. / Acre) | Clay Loam Soils Additional Rate (lbs. / Acre) |
|----------------|-------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| 4.0 - 4.4      | 1,000                                     | 4,000                                         | 6,000                                         |
| 4.5 - 4.9      | 500                                       | 3,000                                         | 5,000                                         |
| 5.0 - 5.4      | NA                                        | 2,000                                         | 4,000                                         |

Note: Limestone application rates shown in this table are in addition to the standard rate of 4000 lbs. / acre required for seeding and mulching.

No direct payment will be made for providing additional lime or acidic amendments for Ph adjustment.

**TRUCK MOUNTED CHANGEABLE MESSAGE SIGNS:**

(8-21-12)

1101.02

SP11 R10

Revise the *2012 Roadway Standard Drawings* as follows:

**Drawing No. 1101.02, Sheet 12, TEMPORARY LANE CLOSURES**, replace General Note #11 with the following:

11- TRUCK MOUNTED CHANGEABLE MESSAGE SIGNS (TMCMS) USED ON SHADOW VEHICLES FOR "IN LANE" ACTIVITIES SHALL BE A MINIMUM OF 43" X 73". THE DISPLAY PANEL SHALL HAVE FULL MATRIX CAPABILITY WITH

THE CAPABILITY TO PROVIDE 2 MESSAGE LINES WITH 7 CHARACTERS PER LINE WITH A MINIMUM CHARACTER HEIGHT OF 18". FOR ADDITIONAL MESSAGING, CONTACT THE WORK ZONE TRAFFIC CONTROL SECTION.

12- TMCMS USED FOR ADVANCED WARNING ON VEHICLES LOCATED ON THE SHOULDER MAY BE SMALLER THAN 43" X 73". THE DISPLAY PANEL SHALL HAVE THE CAPABILITY TO PROVIDE 2 MESSAGE LINES WITH 7 CHARACTERS PER LINE WITH A MINIMUM CHARACTER HEIGHT OF 18". FOR ADDITIONAL MESSAGING, CONTACT THE WORK ZONE TRAFFIC CONTROL SECTION.

**Drawing No. 1101.02, Sheet 13, TEMPORARY LANE CLOSURES,** replace General Note #12 with the following:

12- TRUCK MOUNTED CHANGEABLE MESSAGE SIGNS (TMCMS) USED ON SHADOW VEHICLES FOR "IN LANE" ACTIVITIES SHALL BE A MINIMUM OF 43" X 73". THE DISPLAY PANEL SHALL HAVE FULL MATRIX CAPABILITY WITH THE CAPABILITY TO PROVIDE 2 MESSAGE LINES WITH 7 CHARACTERS PER LINE WITH A MINIMUM CHARACTER HEIGHT OF 18". FOR ADDITIONAL MESSAGING, CONTACT THE WORK ZONE TRAFFIC CONTROL SECTION.

13- TMCMS USED FOR ADVANCED WARNING ON VEHICLES LOCATED ON THE SHOULDER MAY BE SMALLER THAN 43" X 73". THE DISPLAY PANEL SHALL HAVE THE CAPABILITY TO PROVIDE 2 MESSAGE LINES WITH 7 CHARACTERS PER LINE WITH A MINIMUM CHARACTER HEIGHT OF 18". FOR ADDITIONAL MESSAGING, CONTACT THE WORK ZONE TRAFFIC CONTROL SECTION.

**EROSION AND STORMWATER CONTROL FOR SHOULDER CONSTRUCTION AND RECONSTRUCTION:**

(11-16-10) (Rev. 8-21-12)

105-16, 225-2, Division 16

SP16 R03R

Land disturbing operations associated with shoulder construction/reconstruction may require erosion and sediment control/stormwater measure installation. National Pollutant Discharge Elimination System (NPDES) inspection and reporting may be required.

Erosion control measures shall be installed per the erosion control detail in any area where the vegetated buffer between the disturbed area and surface waters (streams, wetlands, or open waters) or drainage inlet is less than 10 feet. The Engineer may reduce the vegetated buffer threshold for this requirement to a value between 5 and 10 feet. Erosion control measures shall be spot checked every 14 days until permanent vegetative establishment.

In areas where shoulder construction/reconstruction includes disturbance or grading on the front slope or to the toe of fill, relocating ditch line or backslope, or removing vegetation from the ditch line or swale, NPDES inspection and monitoring are required every 14 days or within 24 hours of a rainfall event of 0.5" or greater. Maintain daily rainfall records. Install erosion control measures per detail.

In areas where the vegetated buffer is less than 10 feet between the disturbed area and waters of the State classified as High Quality Water (HQW), Outstanding Resource Water (ORW), Critical Areas, or Unique Wetlands, NPDES inspection and monitoring are required every 14 days or within 24 hours of a rainfall event of 0.5" or greater. The Engineer may reduce the vegetated

buffer threshold for this requirement to a value between 5 and 10 feet. The plans or provisions will indicate the presence of these water classifications. Maintain daily rainfall records. Install erosion control measures per detail.

Land disturbances hardened with aggregate materials receiving sheet flow are considered non-erodible.

Sites that require lengthy sections of silt fence may substitute with rapid permanent seeding and mulching as directed by the Engineer.

NPDES documentation shall be performed by a Level II Erosion and Sediment Control/Stormwater certificate holder.

Materials used for erosion control will be measured and paid as stated in the contract.

**STANDARD SPECIAL PROVISION**  
**AVAILABILITY OF FUNDS – TERMINATION OF CONTRACTS**

(5-20-08)

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 Subarticle 108-13(E) of the *2012 Standard Specifications*.

**STANDARD SPECIAL PROVISION**  
**NCDOT GENERAL SEED SPECIFICATION FOR SEED QUALITY**

(5-17-11)

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><u>Restricted Noxious<br/>Weed</u></b> | <b><u>Limitations per<br/>Lb. Of Seed</u></b> | <b><u>Restricted Noxious<br/>Weed</u></b> | <b><u>Limitations per<br/>Lb. of Seed</u></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 PROVISION****ERRATA**

(1-17-12) (Rev. 1-21-14)

Z-4

Revise the 2012 *Standard Specifications* as follows:

**Division 2**

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

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

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

**Division 3**

**Page 3-1, after line 15, Article 300-2 Materials**, replace “1032-9(F)” with “1032-6(F)”.

**Division 4**

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

**Division 6**

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

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

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

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

**Division 8**

**Page 8-23, line 10, Article 838-2 Materials**, replace “Portland Cement Concrete, Class B” with “Portland Cement Concrete, Class A”.

**Division 12**

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

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

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

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

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

**Division 15**

**Page 15-4, Subarticle 1505-3(F) Backfilling, line 26,** replace “Subarticle 235-4(C)” with “Subarticle 235-3(C)”.

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

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

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

**Division 17**

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

Revise the *2012 Roadway Standard Drawings* as follows:

**1633.01 Sheet 1 of 1, English Standard Drawing for Matting Installation,** replace “1633.01” with “1631.01”.

**STANDARD SPECIAL PROVISION****PLANT AND PEST QUARANTINES****(Imported Fire Ant, Gypsy Moth, Witchweed, And Other Noxious Weeds)**

(3-18-03) (Rev. 10-15-13)

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, 919-733-6932, or <http://www.ncagr.gov/plantind/> 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 or other noxious weeds.

**STANDARD SPECIAL PROVISION****MINIMUM WAGES**

(7-21-09)

Z-5

**FEDERAL:** The Fair Labor Standards Act provides that with certain exceptions every employer shall 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 employees, 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.

This determination of the intent of the application of this act to the contract on this project is the responsibility of the Contractor.

The Contractor shall have no claim against the Department of Transportation for any changes in the minimum wage laws, Federal or State. It is the responsibility of the Contractor to keep fully informed of all Federal and State Laws affecting his contract.

**STANDARD SPECIAL PROVISION****ON-THE-JOB TRAINING**

(10-16-07) (Rev. 5-21-13)

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. A sample agreement is available at [www.ncbowd.com/section/on-the-job-training](http://www.ncbowd.com/section/on-the-job-training).

**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.



WBS: 8CR.10761.24  
Date: August 14, 2014

## WORK ZONE TRAFFIC CONTROL GENERAL REQUIREMENTS

### TEMPORARY TRAFFIC CONTROL (TTC):

(7-16-13) (Rev. 8-14-14)

RWZ-1

Maintain traffic in accordance with Divisions 10, 11 and 12 of the *2012 Standard Specifications* and the following provisions:

Install Work Zone Advance Warning Signs in accordance with the detail drawing provided in these plans prior to beginning any other work. Use a lane closure or slow moving operation to complete the work, as necessary, unless otherwise indicated. Refer to Standard Drawing No. 1101.02, 1101.11, 1110.01, 1110.02, 1130.01, 1135.01 and 1180.01 of the *2012 Roadway Standard Drawings*. Use a moving operation only if the minimum speed maintained at all times is 3 mph with no stops that narrow or close a lane of travel. If the moving operation is progressing slower than 3 mph at any time, install a lane closure. Maintain the existing traffic pattern at all times, except in the immediate work zone where lane closures are allowed as determined by the Engineer.

Refer to attached details and Standard Drawing No. 1101.02, 1101.03, 1101.04, 1101.05, 1101.11, 1110.01, 1110.02, 1115.01, 1130.01, 1135.01, 1145.01, 1150.01, 1165.01, and 1180.01 of the *2012 Roadway Standard Drawings* when closing a lane of travel in a stationary work zone such as pavement patching resurfacing, or pavement marking removal. Properly ballasted cones and skinny drums may be used instead of drums. However, drums are required for the upstream taper portion of lane closures in all applications. The stationary work zone shall be a maximum of 1 mile in length at any given time on 2 Lane, 2 Way facilities unless otherwise approved by the Engineer. A pilot vehicle operation may be used in conjunction with flaggers and the appropriate pilot vehicle warning signing as directed by the Engineer. During periods of construction inactivity, return the traffic pattern to the existing alignment and remove or cover any work zone signs. When covering work zone signs, use an opaque material that prevents reading of the sign at night by a driver using high beam headlights. Use material, which does not damage the sign sheeting. Replace any obliterated markings as required by other sections of the *2012 Standard Specifications* and the Engineer.

When personnel and/or equipment are working on the shoulder adjacent to and within 5 feet of an open travel lane, close the nearest open travel lane using Standard Drawing No. 1101.02 of the *2012 Roadway Standard Drawings*. When personnel and/or equipment are working within a lane of travel of an undivided facility, close the lane according to the traffic control plans, *2012 Roadway Standard Drawings* or as directed by the Engineer. Conduct the work so that all personnel and/or equipment remain within the closed travel lane. Do not work simultaneously, on both sides of an open travel way, within the same location, on a two-lane, two-way road. Perform work only when weather and visibility conditions allow safe operations as directed by the Engineer.

4/21/2014

When utilizing a slow-moving operation for such items as pavement marking and marker placement, as a minimum the slow moving operation caravan shall consist of the vehicles and devices shown on the Moving Operation Caravan Details according to Roadway Standard Drawing No. 1101.02, sheet 11 of the *2012 Roadway Standard Drawings*. Traffic cones may be used when necessary to provide additional protection of wet pavement markings. Ballast all traffic cones so they will not be blown over by traffic.

WBS: 8CR.10761.24  
Date: August 14, 2014

Randolph County

## **TRAFFIC OPERATIONS:**

### **1) Drop-Off Requirements and Time Limitations:**

Do not exceed a difference of 2 inches in elevation between open lanes of traffic for nominal lifts of 1.5 inches

During a resurfacing only operation, bring all newly resurfaced lanes to the same elevation within 72 hours for nominal lifts of 1.5 inches or less of asphalt course and by the end of each work day for nominal lifts of greater than 1.5 inches of asphalt course

Backfill at a 6:1 slope up to the edge and elevation of existing pavement in areas adjacent to an open travel lane that has an edge of pavement drop-off as follows:

- (A) Drop-off that exceeds 2 inches on roadways with posted speed limits of 45 mph or greater.
- (B) Drop-off that exceeds 3 inches on roadways with posted speed limits less than 45 mph.

For drop-offs that exceed the above requirements, backfill the unacceptable drop-off with suitable compacted material, as approved by the Engineer. The material, equipment and labor associated with this operation will be at no expense to the Department. This work is not considered part of shoulder reconstruction.

### **2) Project Requirements:**

Failure to comply with the following requirements will result in a suspension of all other operations:

1. Before working on ANY MAP, the Contractor shall submit a written construction sequence for traffic control and construction lighting for ALL MAPS to the Engineer at the first pre-construction meeting and the sequence must be approved before closing a lane of traffic. The Contractor and Engineer will coordinate with the Traffic Management Unit at 919-773-2800 or Traffic Services for additional traffic control guidance, as necessary.
2. Obtain written approval of the Engineer before working in more than one location or setting up additional lane closures. The maximum length of any one lane closure is 1 mile unless otherwise directed by the Engineer.
3. Contractor shall mill and pave lanes in an order such that water shall not accumulate.
4. Traffic Control for the milling and/or paving of ramps is to be done according to Standard Drawing Number 1101.02, Sheets 9 & 10 unless otherwise approved to be closed by the Engineer. If approved, Contractor will provide plans and devices for the detour at no additional cost to the department.
5. If lane closure restrictions apply, see Special Provision, "Intermediate Contract Times and Liquidated Damages".

WBS: 8CR.10761.24  
Date: August 14, 2014

6. If milled areas are not paved back within 72 hours, the Contractor is to furnish and install the following portable signs to warn drivers of the conditions. These are to include, but not limited to "Rough Road" (W8-8), "Uneven Lanes" (W8-11), and "Grooved Pavement" (W8-15) w/ Motorcycle Plaque mounted below. These are to be dual indicated on Multi-Lane Roadways with speed limits 45 mph and greater where lateral clearance can be obtained within the median areas. These portable signs are incidental to the other items of work included in the temporary traffic control (Lump Sum) pay item.

### 3) Work Zone Signing:

#### Description

Install advance/general warning work zone signs according to the Detail Drawing provided in these plans prior to beginning of work. Install and maintain signing in accordance with the attached drawings and Divisions 11 and 12 of the *2012 Standard Specifications*.

#### (A) Installation

All stationary Advance/General warning work zone signs require notification to existing Utility owners per Article 105-8 of the 2012 Standard Specifications and Special Provision SP1 G115 within 3 to 12 full working days prior to installation.

Install all Advance/General warning work zone signs before beginning work on a particular map. If signs are installed more than seven (7) calendar days prior to the beginning of work on a particular map, cover the signs until the work begins. Install each work zone Advance/General warning sign separately and not on the same post or stand with any other sign except where an advisory speed plate or directional arrow is used.

All stationary signing is to be installed as shown on the detail drawing(s) unless otherwise directed by the Engineer. All sign locations to be verified by the Engineer prior to installation. Once the signs have been installed and accepted, any sign relocations requested by the Department will be compensated in accordance with Article 104-7. Any additional signs other than the ones shown in the drawing will be compensated in accordance with Article 104-7.

No stationary -Y- Line advance warning signage is required unless there's more than 1,000 feet of resurfacing along the -Y- line. Whenever work proceeds through an intersection, portable signs shall be used for traffic control. There will be no direct compensation for any portable signing.

If there is a period of construction inactivity longer than 14 calendar days, remove or cover advance/general warning work zone signs. Uncover advance/general warning work zone signs no more than 7 calendar days before work resumes. All other operations may be suspended upon failure to comply with the above requirements. Such suspended operations would not be resumed until the above requirements are fulfilled.

#### (B) Sign Removal

All stationary work zone signs shall be removed once the project is substantially complete. The project is substantially complete when the resurfacing operations are completed and the shoulders are brought up to the same elevation as the proposed pavement and when pavement

markings are installed. The pavement marking doesn't have to be the final marking material to be considered substantially complete. Any remaining punch list items are to be completed with portable work zone signing. There will be no compensation for any portable signing. Sign removal is a condition of final project acceptance.

#### **(C) Lane Closure Work Zone Signs**

Install any required lane closure signing needed during the life of the project in accordance with the Standard Drawing No. 1101.02, 1101.11 and 1110.02 of the *2012 Roadway Standard Drawings*. Any required portable signs for lane closures are compensated in the contract pay item for *Temporary Traffic Control*.

#### **4) Measurement and Payment:**

Temporary traffic control work, including, but not limited to installation and removal of portable signs, cones, drums, skinny drums, flaggers, AFAD's, changeable message boards, truck mounted attenuators, flashing arrow boards, and pilot vehicles will be paid at the contract lump sum price for *Temporary Traffic Control* **apply to only maps #2 thru #23**. The *Temporary Traffic Control* pay item does not include work zone advance or general warning signs. Partial payments for *Temporary Traffic Control* will be made as follows: The cumulative total of the lump sum price for temporary traffic control will be equal to the percent complete (project) as calculated for each partial pay estimate. Additional flashing arrow boards and message boards beyond those shown in the contract (**except Map #1**), detail drawings or *Roadway Standard Drawings* required by the Engineer will be paid as extra work in accordance with Article 104-7 of the Standard Specifications.

The work of satisfactorily installing and removing work zone advance and/or general warning signs, including, but not limited to, furnishing, locating, installing, covering, uncovering and removing stationary signs will be measured for each required sign and paid at the contract price for *Work Zone Advance/General Warning Signing (SF)*. Payment for *Work Zone Advance/General Warning Signing* will be limited to a maximum of 90% of the total installed quantity. The remaining 10% will be paid once all signs have been removed.

The Lump Sum price for *Temporary Traffic Control* will include the work of four (4) flaggers per operation per map being utilized at the same time on any day. If a pilot vehicle is used for an operation, the Lump Sum Price for *Temporary Traffic Control* will include the work of five (5) flaggers. The operator of a pilot vehicle will be considered one of the five flaggers.

Any additional flagging beyond the "included" amount covered in the *Temporary Traffic Control* pay item will be considered supplemental flagging and compensated at a rate of \$20.00 per hour for each additional flagger as approved by the Engineer.

TC-4

Revised 8-15-14

WBS: 8CR.10761.24  
Date: August 14, 2014

Randolph County

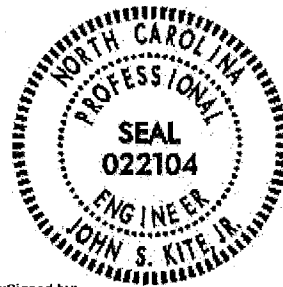
Payment will be made under:

**Pay Item**

**Pay Unit**

Temporary Traffic Control  
Work Zone Advance/General Warning Signing

Lump Sum  
Square Foot



DocuSigned by:

Steve Kite

8/14/2014

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## **RESURFACING OPERATIONS:**

(7-15-14)

RWZ-2

Coordinate the installation of items required by the contract documents and resurfacing operations such that these operations are completed in the order as agreed upon with the Engineer at the first pre-construction meeting. Refer to the Provisions, Typicals and Details unless otherwise directed by the Engineer.

Notify the Engineer 15 consecutive calendar days before resurfacing a bridge or its approaches. Patch and make repairs to bridge surface and its approaches before resurfacing occurs. Coordinate all operations on the bridge and its approaches with the Engineer.

Notify the Engineer 48 hours before resurfacing the areas of existing pavement that require patching. Patch these areas before resurfacing occurs. Allow full depth asphalt patching to cool to the point of supporting traffic without displacement or rutting before reopening closed lane. Coordinate the resurfacing operations of the patched areas with the Engineer.

Notify the Engineer 48 hours before milling or resurfacing will interfere with the existing Signal Loops. Loops may need to be placed in milled surface before resurfacing occurs. Coordinate all signal loop operations with the Engineer.

For partial or wheel track milling operations on two-way, two-lane facilities, mill and pave back by the end of each work day. For Partial or wheel track milling operation on multi-lane facilities, the lane being milled may be left closed and paved back within 72 hours.

The following options are available during Resurfacing and milling operations on two-way, two-lane facilities when the entire roadway or entire lane is to be milled:

- (A) Mill a single lane and pave back by the end of each work day.
- (B) Mill the entire width of roadway and pave back within 72 hours.

The following options are available during Resurfacing and milling operations on multi-lane facilities when all lanes or a single lane in one direction are to be milled:

- (A) Mill a single lane and pave back by the end of each work day.
- (B) Mill the entire width of pavement for all lanes to be milled in any direction daily and pave back within 72 hours.

Slope the pavement at the beginning and ending of the daily milling operation as directed by the Engineer. Sweep and remove all milled material from the roadway as soon as the daily milling operation is completed. Continue milling operations until the particular section of roadway being milled is complete. Remove any existing pavement adjacent to the milled area that has been damaged and replace with patch material as directed by the Engineer.

Operate equipment and conduct operations in the same direction as the flow of traffic. Maintain vehicular access in accordance with Article 1101-05 of the *2012 Standard Specifications* using suitable backfill material approved by the Engineer.

## TC-6

Provide appropriate lighting in accordance with Section 1413 of the *2012 Standard Specifications*.

### **Milled Rumble Strips:**

When utilized, milled rumble strips shall be installed in accordance with the *2012 Standard Specifications* and the 2012 Roadway Standard Drawing 665.01.

## **PAVEMENT MARKINGS AND MARKERS:**

(7-15-14)

RWZ-3

### **Markings: All Facilities**

Pavement markings shall be installed in accordance with Standard Drawings 1205.01 through 1205.13 of the *2012 Roadway Standard Drawings* and Section 1205 of the *2012 Standard Specifications* with the exception of the 15 day edge line replacement requirement for two-lane, two-way roadways as described in Subarticle 1205-3(D) of the *2012 Standard Specifications*. For all two-lane, two-way facilities, edge lines can be replaced within 30 calendar days after they have been obliterated.

Type 3 Cold Applied Plastic may be used in lieu of Type 2 Cold Applied Plastic. If Type 3 Cold Applied Plastic is used, it shall be paid for using the Type 2 Cold Applied Plastic pay item.

Unless otherwise specified, Heated-in-Place Thermoplastic may be used in lieu of Extruded Thermoplastic for stop bars, symbols, characters and diagonals. If Heated-in-Place Thermoplastic is used, it shall be paid for using the Extruded Thermoplastic pay item.

Unless otherwise specified, Heated-in-Place Thermoplastic may be used in lieu of Cold Applied Plastic for stop bars, symbols, characters and diagonals on asphalt or concrete roadways. If Heated-in-Place Thermoplastic is used, it shall be paid for using the Cold Applied Plastic pay item.

### **Markers: All Facilities**

Remove existing pavement markers in preparation for paving. Repair any pavement damage due to existing pavement marker removal prior to the end of the work day. Dispose of existing pavement markers as directed by the Engineer. No direct payment will be made for this work as it will be incidental to the paving operation.

Install permanent pavement markers within 60 calendar days after completing the resurfacing on each map. Pavement markers shall be installed in accordance with Standard Drawing 1205.12 and Standard Drawings 1250.01 through 1253.01 of the *2012 Roadway Standard Drawings* and Sections 1250 through 1253 of the *2012 Standard Specifications*.

### **Markings and Markers: All Facilities**

Review and record the existing pavement markings and markers before resurfacing. Re-establish the new pavement markings and markers using the record of existing markings in conjunction with the *2012 Roadway Standard Drawings* unless otherwise directed by the engineer. Have existing or proposed "passing zones" reviewed by the engineer before installation. Submit the record of the existing pavement markings seven calendar days before the obliteration of any pavement markings.

Mainline pavement shall not be left milled, unmarked or uneven at the end of a paving season. If the Contractor begins any map and does not complete within the seasonal restrictions,



## TC-8

including placement of final pavement markings or permanent markers, the Contractor shall be responsible for, at his expense, Paint in accordance with Article 1205-08 and Temporary Markers in accordance with Section 1251 of the *2012 Standard Specifications*.

## **Law Enforcement:**

(02/06/2013)

### **Description**

Furnish Law Enforcement Officers and marked Law Enforcement vehicles to direct traffic in accordance with the contract.

### **Construction Methods**

Use uniformed Law Enforcement Officers and marked Law Enforcement vehicles equipped with blue lights mounted on top of the vehicle, and Law Enforcement vehicle emblems to direct or control traffic as required by the plans or by the Engineer.

### **Measurement and Payment**

Law Enforcement will be measured and paid for in the actual number of hours that each Law Enforcement Officer is provided during the life of the project as approved by the Engineer. There will be no direct payment for marked Law Enforcement vehicles as they are considered incidental to the pay item.

Payment will be made under:

### **Pay Item**

Law Enforcement

### **Pay Unit**

Hour

DocuSigned by:

*John Steven Kite Jr*

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4/29/2014



**STABILIZATION REQUIREMENTS:**

(11-4-11)

S-2

Stabilization for this project shall comply with the time frame guidelines as specified by the NCG-010000 general construction permit effective August 3, 2011 issued by the North Carolina Department of Environment and Natural Resources Division of Water Quality. Temporary or permanent ground cover stabilization shall occur within 7 calendar days from the last land-disturbing activity, with the following exceptions in which temporary or permanent ground cover shall be provided in 14 calendar days from the last land-disturbing activity:

- Slopes between 2:1 and 3:1, with a slope length of 10 ft. or less
- Slopes 3:1 or flatter, with a slope of length of 50 ft. or less
- Slopes 4:1 or flatter

The stabilization timeframe for High Quality Water (HQW) Zones shall be 7 calendar days with no exceptions for slope grades or lengths. High Quality Water Zones (HQW) Zones are defined by North Carolina Administrative Code 15A NCAC 04A.0105 (25). Temporary and permanent ground cover stabilization shall be achieved in accordance with the provisions in this contract and as directed.

**SEEDING AND MULCHING:****(East Crimp)**

The kinds of seed and fertilizer, and the rates of application of seed, fertilizer, and limestone, shall be as stated below. During periods of overlapping dates, the kind of seed to be used shall be determined. All rates are in pounds per acre.

**All Roadway Areas**

|       |                       |       |                         |
|-------|-----------------------|-------|-------------------------|
| 50#   | Tall Fescue           | 50#   | Tall Fescue             |
| 10#   | Centipede             | 10#   | Centipede               |
| 25#   | Bermudagrass (hulled) | 35#   | Bermudagrass (unhulled) |
| 500#  | Fertilizer            | 500#  | Fertilizer              |
| 4000# | Limestone             | 4000# | Limestone               |

**Waste and Borrow Locations**

|       |                       |       |                         |
|-------|-----------------------|-------|-------------------------|
| 75#   | Tall Fescue           | 75#   | Tall Fescue             |
| 25#   | Bermudagrass (hulled) | 35#   | Bermudagrass (unhulled) |
| 500#  | Fertilizer            | 500#  | Fertilizer              |
| 4000# | Limestone             | 4000# | Limestone               |

Note: 50# of Bahiagrass may be substituted for either Centipede or Bermudagrass only upon Engineer's request.

## Approved Tall Fescue Cultivars

|                            |                        |              |                    |
|----------------------------|------------------------|--------------|--------------------|
| 2 <sup>nd</sup> Millennium | Duster                 | Magellan     | Rendition          |
| Avenger                    | Endeavor               | Masterpiece  | Scorpion           |
| Barlexas                   | Escalade               | Matador      | Shelby             |
| Barlexas II                | Falcon II, III, IV & V | Matador GT   | Signia             |
| Barrera                    | Fidelity               | Millennium   | Silverstar         |
| Barrington                 | Finesse II             | Montauk      | Southern Choice II |
| Biltmore                   | Firebird               | Mustang 3    | Stetson            |
| Bingo                      | Focus                  | Olympic Gold | Tarheel            |
| Bravo                      | Grande II              | Padre        | Titan Ltd          |
| Cayenne                    | Greenkeeper            | Paraiso      | Titanium           |
| Chapel Hill                | Greystone              | Picasso      | Tomahawk           |
| Chesapeake                 | Inferno                | Piedmont     | Tacer              |
| Constitution               | Justice                | Pure Gold    | Trooper            |
| Chipper                    | Jaguar 3               | Prospect     | Turbo              |
| Coronado                   | Kalahari               | Quest        | Ultimate           |
| Coyote                     | Kentucky 31            | Rebel Exeda  | Watchdog           |
| Davinci                    | Kitty Hawk             | Rebel Sentry | Wolfpack           |
| Dynasty                    | Kitty Hawk 2000        | Regiment II  |                    |
| Dominion                   | Lexington              | Rembrandt    |                    |

On cut and fill slopes 2:1 or steeper Centipede shall be applied at the rate of 5 pounds per acre and add 20# of Sericea Lespedeza from January 1 - December 31.

Fertilizer shall be 10-20-20 analysis. A different analysis of fertilizer may be used provided the 1-2-2 ratio is maintained and the rate of application adjusted to provide the same amount of plant food as a 10-20-20 analysis and as directed.

All areas seeded and mulched shall be tacked with asphalt. Crimping of straw in lieu of asphalt tack shall not be allowed on this project.

### **CRIMPING STRAW MULCH:**

Crimping shall be required on this project adjacent to any section of roadway where traffic is to be maintained or allowed during construction. In areas within six feet of the edge of pavement, straw is to be applied and then crimped. After the crimping operation is complete, an additional application of straw shall be applied and immediately tacked with a sufficient amount of undiluted emulsified asphalt.

Straw mulch shall be of sufficient length and quality to withstand the crimping operation.

Crimping equipment including power source shall be subject to the approval of the Engineer providing that maximum spacing of crimper blades shall not exceed 8".

**WATTLE:**

(10-19-10) (Rev. 1-17-12)

1060,1630,1631

T1

**Description**

Wattles are tubular products consisting of excelsior fibers encased in synthetic netting. Wattles are used on slopes or channels to intercept runoff and act as a velocity break. Wattles are to be placed at locations shown on the plans or as directed. Installation shall follow the detail provided in the plans and as directed. Work includes furnishing materials, installation of wattles, matting installation, and removing wattles.

**Materials**

Wattle shall meet the following specifications:

|                                    |                                  |
|------------------------------------|----------------------------------|
| 100% Curled Wood(Excelsior) Fibers |                                  |
| Minimum Diameter                   | 12 in.                           |
| Minimum Density                    | 2.5 lb/ft <sup>3</sup> +/- 10%   |
| Net Material                       | Synthetic                        |
| Net Openings                       | 1 in. x 1 in.                    |
| Net Configuration                  | Totally Encased                  |
| Minimum Weight                     | 20 lb. +/- 10% per 10 ft. length |

Stakes shall be used as anchors.

Provide hardwood stakes a minimum of 2-ft. long with a 2" x 2" nominal square cross section. One end of the stake must be sharpened or beveled to facilitate driving down into the underlying soil.

Matting shall meet the requirements of Article 1060-8 of the *2012 Standard Specifications*, or shall meet specifications provided elsewhere in this contract.

Provide staples made of 0.125" diameter new steel wire formed into a *u* shape not less than 12" in length with a throat of 1" in width.

**Construction Methods**

Wattles shall be secured to the soil by wire staples approximately every 1 linear foot and at the end of each section of wattle. A minimum of 4 stakes shall be installed on the downstream side of the wattle with a maximum spacing of 2 linear feet along the wattle, and according to the detail. Install a minimum of 2 stakes on the upstream side of the wattle according to the detail provided in the plans. Stakes shall be driven into the ground a minimum of 10" with no more than 2" projecting from the top of the wattle. Drive stakes at an angle according to the detail provided in the plans.

Only install wattle(s) to a height in ditch so flow will not wash around wattle and scour ditch slopes and according to the detail provided in the plans and as directed. Overlap adjoining sections of wattles a minimum of 6".

Installation of matting shall be in accordance with the detail provided in the plans, and in accordance with Article 1631-3 of the *2012 Standard Specifications*, or in accordance with specifications provided elsewhere in this contract.

The Contractor shall maintain the wattles until the project is accepted or until the wattles are removed, and shall remove and dispose of silt accumulations at the wattles when so directed in accordance with the requirements of Section 1630 of the *2012 Standard Specifications*.

**Measurement and Payment**

*Wattle* will be measured and paid for by the actual number of linear feet of wattles which are installed and accepted. Such price and payment will be full compensation for all work covered by this section, including, but not limited to, furnishing all materials, labor, equipment and incidentals necessary to install the *Wattle*.

Matting will be measured and paid for in accordance with Article 1631-4 of the *2012 Standard Specifications*, or in accordance with specifications provided elsewhere in this contract.

Payment will be made under:

**Pay Item**

Wattle

**Pay Unit**

Linear Foot

County : Randolph

| Line #        | Item Number  | Sec # | Description                                                  | Quantity       | Unit Cost | Amount |
|---------------|--------------|-------|--------------------------------------------------------------|----------------|-----------|--------|
| ROADWAY ITEMS |              |       |                                                              |                |           |        |
| 0001          | 0000100000-N | 800   | MOBILIZATION                                                 | Lump Sum       | L.S.      |        |
| 0002          | 0106000000-E | 230   | BORROW EXCAVATION                                            | 226<br>CY      |           |        |
| 0003          | 0255000000-E | SP    | GENERIC GRADING ITEM<br>AGGREGATE SHOULDER BORROW            | 4,541.2<br>TON |           |        |
| 0004          | 1220000000-E | 545   | INCIDENTAL STONE BASE                                        | 65<br>TON      |           |        |
| 0005          | 1243000000-E | SP    | SHOULDER CONSTRUCTION                                        | 2.6<br>SMI     |           |        |
| 0006          | 1245000000-E | SP    | SHOULDER RECONSTRUCTION                                      | 45.74<br>SMI   |           |        |
| 0007          | 1297000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>DEPTH<br>(14")             | 3,345<br>SY    |           |        |
| 0008          | 1297000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>DEPTH<br>(2")              | 2,388<br>SY    |           |        |
| 0009          | 1297000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>DEPTH<br>(3")              | 9,620<br>SY    |           |        |
| 0010          | 1308000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>TO *****<br>(0" TO 1-1/2") | 6,425<br>SY    |           |        |
| 0011          | 1308000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>TO *****<br>(0" TO 3")     | 32,848<br>SY   |           |        |
| 0012          | 1308000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>TO *****<br>(0" TO 4-1/2") | 50,908<br>SY   |           |        |
| 0013          | 1308000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>TO *****<br>(1-1/2" TO 3") | 2,650<br>SY    |           |        |
| 0014          | 1308000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>TO *****<br>(3" TO 6")     | 21,138<br>SY   |           |        |
| 0015          | 1330000000-E | 607   | INCIDENTAL MILLING                                           | 14,349<br>SY   |           |        |
| 0016          | 1491000000-E | 610   | ASPHALT CONC BASE COURSE, TYPE<br>B25.0C                     | 1,050<br>TON   |           |        |

County : Randolph

| Line # | Item Number  | Sec # | Description                                         | Quantity      | Unit Cost | Amount |
|--------|--------------|-------|-----------------------------------------------------|---------------|-----------|--------|
| 0017   | 1498000000-E | 610   | ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B       | 1,813<br>TON  |           |        |
| 0018   | 1503000000-E | 610   | ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C       | 763<br>TON    |           |        |
| 0019   | 1523000000-E | 610   | ASPHALT CONC SURFACE COURSE, TYPE S9.5C             | 16,613<br>TON |           |        |
| 0020   | 1525000000-E | 610   | ASPHALT CONC SURFACE COURSE, TYPE SF9.5A            | 25,910<br>TON |           |        |
| 0021   | 1575000000-E | 620   | ASPHALT BINDER FOR PLANT MIX                        | 2,890<br>TON  |           |        |
| 0022   | 1704000000-E | SP    | PATCHING EXISTING PAVEMENT                          | 3,260<br>TON  |           |        |
| 0023   | 1771000000-E | 660   | ASPHALT SURFACE TREATMENT, MAT COAT, #6M STONE      | 63,350<br>SY  |           |        |
| 0024   | 2800000000-N | 858   | ADJUSTMENT OF CATCH BASINS                          | 4<br>EA       |           |        |
| 0025   | 2815000000-N | 858   | ADJUSTMENT OF DROP INLETS                           | 6<br>EA       |           |        |
| 0026   | 2830000000-N | 858   | ADJUSTMENT OF MANHOLES                              | 27<br>EA      |           |        |
| 0027   | 2845000000-N | 858   | ADJUSTMENT OF METER BOXES OR VALVE BOXES            | 13<br>EA      |           |        |
| 0028   | 4413000000-E | SP    | WORK ZONE ADVANCE/GENERAL WARNING SIGNING           | 2,160<br>SF   |           |        |
| 0029   | 4457000000-N | SP    | TEMPORARY TRAFFIC CONTROL                           | Lump Sum      | L.S.      |        |
| 0030   | 4510000000-N | SP    | LAW ENFORCEMENT                                     | 440<br>HR     |           |        |
| 0031   | 4685000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)  | 6,666<br>LF   |           |        |
| 0032   | 4686000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS) | 56,680<br>LF  |           |        |
| 0033   | 4695000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)  | 1,165<br>LF   |           |        |
| 0034   | 4697000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS) | 1,567<br>LF   |           |        |



County : Randolph

| Line # | Item Number  | Sec # | Description                                          | Quantity        | Unit Cost | Amount |
|--------|--------------|-------|------------------------------------------------------|-----------------|-----------|--------|
| 0035   | 4705000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS) | 250<br>LF       |           |        |
| 0036   | 4710000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS) | 1,812<br>LF     |           |        |
| 0037   | 4721000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)  | 54<br>EA        |           |        |
| 0038   | 4725000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)      | 200<br>EA       |           |        |
| 0039   | 4810000000-E | 1205  | PAINT PAVEMENT MARKING LINES (4")                    | 1,149,186<br>LF |           |        |
| 0040   | 4820000000-E | 1205  | PAINT PAVEMENT MARKING LINES (8")                    | 5,211<br>LF     |           |        |
| 0041   | 4835000000-E | 1205  | PAINT PAVEMENT MARKING LINES (24")                   | 2,320<br>LF     |           |        |
| 0042   | 4840000000-N | 1205  | PAINT PAVEMENT MARKING CHARACTER                     | 24<br>EA        |           |        |
| 0043   | 4845000000-N | 1205  | PAINT PAVEMENT MARKING SYMBOL                        | 604<br>EA       |           |        |
| 0044   | 4900000000-N | 1251  | PERMANENT RAISED PAVEMENT MARKERS                    | 696<br>EA       |           |        |
| 0045   | 4905000000-N | 1253  | SNOWPLOWABLE PAVEMENT MARKERS                        | 1,695<br>EA     |           |        |
| 0046   | 5255000000-N | 1413  | PORTABLE LIGHTING                                    | Lump Sum        | L.S.      |        |
| 0047   | 6000000000-E | 1605  | TEMPORARY SILT FENCE                                 | 20<br>LF        |           |        |
| 0048   | 6071010000-E | SP    | WATTLE                                               | 75<br>LF        |           |        |
| 0049   | 6084000000-E | 1660  | SEEDING & MULCHING                                   | 1.51<br>ACR     |           |        |
| 0050   | 7444000000-E | 1725  | INDUCTIVE LOOP SAWCUT                                | 11,644<br>LF    |           |        |
| 0051   | 4400000000-E | 1110  | WORK ZONE SIGNS (STATIONARY)                         | 839<br>SF       |           |        |
| 0052   | 4405000000-E | 1110  | WORK ZONE SIGNS (PORTABLE)                           | 896<br>SF       |           |        |

County : Randolph

| Line # | Item Number  | Sec # | Description                                   | Quantity | Unit Cost | Amount |
|--------|--------------|-------|-----------------------------------------------|----------|-----------|--------|
| 0053   | 4410000000-E | 1110  | WORK ZONE SIGNS (BARRICADE MOUNTED)           | 280      | SF        |        |
| 0054   | 4415000000-N | 1115  | FLASHING ARROW BOARD                          | 3        | EA        |        |
| 0055   | 4420000000-N | 1120  | PORTABLE CHANGEABLE MESSAGE SIGN              | 4        | EA        |        |
| 0056   | 4422000000-N | 1120  | PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM) | 8        | DAY       |        |
| 0057   | 4430000000-N | 1130  | DRUMS                                         | 300      | EA        |        |
| 0058   | 4445000000-E | 1145  | BARRICADES (TYPE III)                         | 144      | LF        |        |
| 0059   | 4450000000-N | 1150  | FLAGGER                                       | 40       | HR        |        |
| 0060   | 4480000000-N | 1165  | TMA                                           | 2        | EA        |        |
| 0061   | 4650000000-N | 1251  | TEMPORARY RAISED PAVEMENT MARKERS             | 750      | EA        |        |

1101/Aug15/Q1509990.05/D204450110000/E61

Total Amount Of Bid For Entire Project :

**Vendor 1 of 6: APAC - ATLANTIC, INC. THOMPSON ARTHUR  
DIVISION (4315)  
Call Order 003 (Proposal: C203608)**

**Bid Information**

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**Proposal County:** RANDOLPH

**Vendor Address:** PO Box 21088  
Greensboro , North Carolina , 27420

**Signature Check:** Clarence\_O\_Brickey\_4315

**Time Bid Received:** August 26, 2014 01:50 PM

**Amendment Count:** 1

**Bid Checksum:** 191BFABE

**Bid Total:** \$4,717,441.25

**Items Total:** \$4,717,441.25 ✓

**Time Total:** \$0.00

**Bidding Errors:**

None.

MBE Goal Set 2.0

MBE Goal Met 2.0

WBE Goal Set 2.0

WBE Goal Met 2.0

Vendor 4315's Bid Information for Call 003, Letting L140826, 08/26/14

APAC-Atlantic, Inc. Thompson Arthur Divsion (4315)  
Call Order 003 (Proposal ID C203608)

#### LIST OF MBE PARTICIPANTS

| VENDOR<br>NUMBER | DBE NAME<br>ADDRESS                                                | WORK<br>CODE TYPE OF WORK | CERT<br>TYPE AMOUNT |           |
|------------------|--------------------------------------------------------------------|---------------------------|---------------------|-----------|
| 4906 MB          | W. G. LEWIS TRUCKING, INC<br>1323 PENNY RD. , HIGH POINT, NC 27265 |                           | Sub 96,000.00       | Committed |
|                  |                                                                    |                           | TOTAL: \$96,000.00  |           |
|                  |                                                                    |                           | 2.04%               |           |

Vendor 4315's Bid Information for Call 003, Letting L140826, 08/26/14

APAC-Atlantic, Inc. Thompson Arthur Divsion (4315)  
Call Order 003 (Proposal ID C203608)

#### LIST OF WBE PARTICIPANTS

| VENDOR<br>NUMBER | DBE NAME<br>ADDRESS                                                                 | WORK<br>CODE TYPE OF WORK | CERT<br>TYPE AMOUNT |           |
|------------------|-------------------------------------------------------------------------------------|---------------------------|---------------------|-----------|
| 9602 WB          | CAROLINA TRANSPORT OF GREENSBOR<br>347 SOUTH CHERRY STREET , KERNERSVILLE, NC 27284 |                           | Sub 30,778.50       | Committed |
| 8066             | ASPHALT PAVING CO. OF GREENSBOR<br>WB 4349 US 220 NORTH , SUMMERFIELD, NC 27358     |                           | Sub 11,659.50       | Committed |
| 12814            | GARNER-MURPHY CONSTRUCTION, INC<br>WB 130 CHUCK GARNER TRAIL , GRAHAM, NC 27253     |                           | Sub 11,827.20       | Committed |
| 10186            | SLM CONSTRUCTION, INC.<br>WB 513 WHITE SMITH ROAD , PITTSBORO, NC 27312             |                           | Sub 31,690.00       | Committed |
| 11234            | TOM CAT TRUCKING INC<br>WB 4162 KIVETT DRIVE , JAMESTOWN, NC 27282                  |                           | Sub 10,000.00       | Committed |
|                  |                                                                                     |                           | TOTAL: \$95,955.20  |           |
|                  |                                                                                     |                           | 2.03%               |           |

Vendor 4315's Bid Information for Call 003, Letting L140826, 08/26/14

APAC-Atlantic, Inc. Thompson Arthur Divsion (4315)  
Call Order 003 (Proposal ID C203608)

Miscellaneous Data Info - Contractor Responses:

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#### NON-COLLUSION AND DEBARMENT CERTIFICATION

Explanation of the prospective bidder that is unable to certify to any of the statements in this certification:

Explanation:  
NOT ANSWERED  
NOT ANSWERED  
NOT ANSWERED  
NOT ANSWERED

#### AWARD LIMITS ON MULTIPLE PROJECTS

By answering YES to this statement, the bidder acknowledges that they are using

the award limits on multiple projects. No

It is the desire of the Bidder to be awarded contracts, the value of which  
will not exceed a total of NOT ANSWERED for those  
projects indicated herein, for which bids will be opened on (MM/DD/YY)

The Award Limits shall apply to the following projects:

| Contract Number | County |
|-----------------|--------|
| NOT ANSWERED    |        |
| NOT ANSWERED    |        |
| NOT ANSWERED    |        |
| NOT ANSWERED    |        |
| NOT ANSWERED    |        |
| NOT ANSWERED    |        |

Bid Bond Data Info - Contractor Responses:

=====

BondID: SNC14450131  
Surety Registry Agency: surety2000  
Verified?: Yes  
Surety Agency: Liberty Mutual Insurance Company  
Bond Execution Date: 8/21/2014 5  
Bond Amount: \$235,872.06 (Five Percent of Bid)

State of NC  
Dept of Transportation

Date: 08-12-14  
Revised: 08-15-14

Contract ID: C203608 Project(s): STATE FUNDED  
Letting Date: 08-26-14 Call Order: 003  
Bidder: 4315 - APAC-Atlantic, Inc. Thompson Arthur Divsion

| Line<br>No.                | Item<br>Description                                                | Approx.<br>Quantity<br>and Units | Unit Price<br>Dollars   Cts | Bid Amount<br>Dollars  Ct |
|----------------------------|--------------------------------------------------------------------|----------------------------------|-----------------------------|---------------------------|
| Section 0001 ROADWAY ITEMS |                                                                    |                                  |                             |                           |
| Alt Group                  |                                                                    |                                  |                             |                           |
| 0001                       | 0000100000-N MOBILIZATION                                          | LUMP                             | LUMP                        | 60,000.00                 |
| 0002                       | 0106000000-E BORROW EXCAVATION                                     | 226.000<br>CY                    | 15.00000                    | 3,390.00                  |
| 0003                       | 0255000000-E GENERIC GRADING ITEM AGGREGATE                        | 4,541.200<br>TON                 | 15.00000                    | 68,118.00                 |
| 0004                       | 1220000000-E INCIDENTAL STONE BASE                                 | 65.000<br>TON                    | 34.00000                    | 2,210.00                  |
| 0005                       | 1243000000-E SHOULDER CONSTRUCTION                                 | 2.600<br>SMI                     | 1,800.00000                 | 4,680.00                  |
| 0006                       | 1245000000-E SHOULDER RECONSTRUCTION                               | 45.740<br>SMI                    | 1,200.00000                 | 54,888.00                 |
| 0007                       | 1297000000-E MILLING ASPHALT PAVEMENT, ***"DEPTH (14")             | 3,345.000<br>SY                  | 11.70000                    | 39,136.50                 |
| 0008                       | 1297000000-E MILLING ASPHALT PAVEMENT, ***"DEPTH (2")              | 2,388.000<br>SY                  | 2.00000                     | 4,776.00                  |
| 0009                       | 1297000000-E MILLING ASPHALT PAVEMENT, ***"DEPTH (3")              | 9,620.000<br>SY                  | 1.80000                     | 17,316.00                 |
| 0010                       | 1308000000-E MILLING ASPHALT PAVEMENT, ***"TO ***** (0" TO 1-1/2") | 6,425.000<br>SY                  | 1.25000                     | 8,031.25                  |
| 0011                       | 1308000000-E MILLING ASPHALT PAVEMENT, ***"TO ***** (0" TO 3")     | 32,848.000<br>SY                 | 1.40000                     | 45,987.20                 |

State of NC  
Dept of Transportation

Date: 08-12-14  
Revised: 08-15-14

Contract ID: C203608

Project(s): STATE FUNDED

Letting Date: 08-26-14 Call Order: 003

Bidder: 4315 - APAC-Atlantic, Inc. Thompson Arthur Division

| Line<br>No. | Item<br>Description                                                        | Approx.<br>Quantity<br>and Units | Unit Price<br>Dollars   Cts | Bid Amount<br>Dollars   Ct |
|-------------|----------------------------------------------------------------------------|----------------------------------|-----------------------------|----------------------------|
| 0012        | 1308000000-E MILLING<br>ASPHALT PAVEMENT, ****"TO<br>*****" (0" TO 4-1/2") | 50,908.000<br>SY                 | 2.00000                     | 101,816.00                 |
| 0013        | 1308000000-E MILLING<br>ASPHALT PAVEMENT, ****"TO<br>*****" (1-1/2" TO 3") | 2,650.000<br>SY                  | 2.45000                     | 6,492.50                   |
| 0014        | 1308000000-E MILLING<br>ASPHALT PAVEMENT, ****"TO<br>*****" (3" TO 6")     | 21,138.000<br>SY                 | 2.70000                     | 57,072.60                  |
| 0015        | 1330000000-E INCIDENTAL<br>MILLING                                         | 14,349.000<br>SY                 | 6.00000                     | 86,094.00                  |
| 0016        | 1491000000-E ASPHALT<br>CONC BASE COURSE, TYPE<br>B25.0C                   | 1,050.000<br>TON                 | 36.00000                    | 37,800.00                  |
| 0017        | 1498000000-E ASPHALT<br>CONC INTERMEDIATE<br>COURSE, TYPE I19.0B           | 1,813.000<br>TON                 | 38.00000                    | 68,894.00                  |
| 0018        | 1503000000-E ASPHALT<br>CONC INTERMEDIATE<br>COURSE, TYPE I19.0C           | 763.000<br>TON                   | 37.00000                    | 28,231.00                  |
| 0019        | 1523000000-E ASPHALT<br>CONC SURFACE COURSE,<br>TYPE S9.5C                 | 16,613.000<br>TON                | 37.00000                    | 614,681.00                 |
| 0020        | 1525000000-E ASPHALT<br>CONC SURFACE COURSE,<br>TYPE SF9.5A                | 25,910.000<br>TON                | 36.00000                    | 932,760.00                 |
| 0021        | 1575000000-E ASPHALT<br>BINDER FOR PLANT MIX                               | 2,890.000<br>TON                 | 575.00000                   | 1,661,750.00               |
| 0022        | 1704000000-E PATCHING<br>EXISTING PAVEMENT                                 | 3,260.000<br>TON                 | 87.00000                    | 283,620.00                 |
| 0023        | 1771000000-E ASPHALT<br>SURFACE TREATMENT,<br>MATCOAT, #6M STONE           | 63,350.000<br>SY                 | 1.28000                     | 81,088.00                  |

State of NC  
Dept of Transportation

Date: 08-12-14  
Revised: 08-15-14

Contract ID: C203608

Project(s): STATE FUNDED

Letting Date: 08-26-14 Call Order: 003

Bidder: 4315 - APAC-Atlantic, Inc. Thompson Arthur Division

| Line<br>No. | Item<br>Description                                                      | Approx.<br>Quantity<br>and Units | Unit Price<br>Dollars   Cts | Bid Amount<br>Dollars   Ct |
|-------------|--------------------------------------------------------------------------|----------------------------------|-----------------------------|----------------------------|
| 0024        | 2800000000-N ADJUSTMENT<br>OF CATCH BASINS                               | 4.000<br>EA                      | 489.00000                   | 1,956.00                   |
| 0025        | 2815000000-N ADJUSTMENT<br>OF DROP INLETS                                | 6.000<br>EA                      | 489.00000                   | 2,934.00                   |
| 0026        | 2830000000-N ADJUSTMENT<br>OF MANHOLES                                   | 27.000<br>EA                     | 489.00000                   | 13,203.00                  |
| 0027        | 2845000000-N ADJUSTMENT<br>OF METER BOXES OR VALVE<br>BOXES              | 13.000<br>EA                     | 469.00000                   | 6,097.00                   |
| 0028        | 4413000000-E WORK ZONE<br>ADVANCE/GENERAL<br>WARNING SIGNING             | 2,160.000<br>SF                  | 3.85000                     | 8,316.00                   |
| 0029        | 4457000000-N TEMPORARY<br>TRAFFIC CONTROL                                | LUMP                             | LUMP                        | 24,000.00                  |
| 0030        | 4510000000-N LAW<br>ENFORCEMENT                                          | 440.000<br>HR                    | 20.00000                    | 8,800.00                   |
| 0031        | 4685000000-E THERMOPLAST<br>IC PAVEMENT MARKING LINES<br>(4", 90 MILS)   | 6,666.000<br>LF                  | 0.50000                     | 3,333.00                   |
| 0032        | 4686000000-E THERMOPLAST<br>IC PAVEMENT MARKING LINES<br>(4", 120 MILS)  | 56,680.000<br>LF                 | 0.90000                     | 51,012.00                  |
| 0033        | 4695000000-E THERMOPLAST<br>IC PAVEMENT MARKING LINES<br>(8", 90 MILS)   | 1,165.000<br>LF                  | 3.00000                     | 3,495.00                   |
| 0034        | 4697000000-E THERMOPLAST<br>IC PAVEMENT MARKING LINES<br>(8", 120 MILS)  | 1,567.000<br>LF                  | 3.00000                     | 4,701.00                   |
| 0035        | 4705000000-E THERMOPLAST<br>IC PAVEMENT MARKING LINES<br>(16", 120 MILS) | 250.000<br>LF                    | 6.00000                     | 1,500.00                   |



State of NC  
Dept of Transportation

Date: 08-12-14  
Revised: 08-15-14

Contract ID: C203608

Project(s): STATE FUNDED

Letting Date: 08-26-14 Call Order: 003

Bidder: 4315 - APAC-Atlantic, Inc. Thompson Arthur Division

| Line<br>No. | Item<br>Description                                                        | Approx.<br>Quantity<br>and Units | Unit Price<br>Dollars   Cts | Bid Amount<br>Dollars   Ct |
|-------------|----------------------------------------------------------------------------|----------------------------------|-----------------------------|----------------------------|
| 0036        | 4710000000-E THERMOPLAST<br>IC PAVEMENT MARKING LINES<br>(24", 120 MILS)   | 1,812.000<br>LF                  | 8.00000                     | 14,496.00                  |
| 0037        | 4721000000-E THERMOPLAST<br>IC PAVEMENT<br>MARKING CHARACTER (120<br>MILS) | 54.000<br>EA                     | 75.00000                    | 4,050.00                   |
| 0038        | 4725000000-E THERMOPLAST<br>IC PAVEMENT MARKING SYMBOL<br>(90 MILS)        | 200.000<br>EA                    | 105.00000                   | 21,000.00                  |
| 0039        | 4810000000-E PAINT<br>PAVEMENT MARKING LINES<br>(4")                       | 1,149,186.000<br>LF              | 0.10000                     | 114,918.60                 |
| 0040        | 4820000000-E PAINT<br>PAVEMENT MARKING LINES<br>(8")                       | 5,211.000<br>LF                  | 0.30000                     | 1,563.30                   |
| 0041        | 4835000000-E PAINT<br>PAVEMENT MARKING LINES<br>(24")                      | 2,320.000<br>LF                  | 3.00000                     | 6,960.00                   |
| 0042        | 4840000000-N PAINT<br>PAVEMENT MARKING<br>CHARACTER                        | 24.000<br>EA                     | 25.00000                    | 600.00                     |
| 0043        | 4845000000-N PAINT<br>PAVEMENT MARKING SYMBOL                              | 604.000<br>EA                    | 25.00000                    | 15,100.00                  |
| 0044        | 4900000000-N PERMANENT<br>RAISED PAVEMENT<br>MARKERS                       | 696.000<br>EA                    | 6.00000                     | 4,176.00                   |
| 0045        | 4905000000-N SNOWPLOWABL<br>E PAVEMENT MARKERS                             | 1,695.000<br>EA                  | 21.00000                    | 35,595.00                  |
| 0046        | 5255000000-N PORTABLE<br>LIGHTING                                          | LUMP                             | LUMP                        | 4,000.00                   |

State of NC  
Dept of Transportation

Date: 08-12-14  
Revised: 08-15-14

Contract ID: C203608 Project(s): STATE FUNDED  
Letting Date: 08-26-14 Call Order: 003  
Bidder: 4315 - APAC-Atlantic, Inc. Thompson Arthur Divsion

| Line<br>No. | Item<br>Description                                              | Approx.<br>Quantity<br>and Units | Unit Price<br>Dollars   Cts | Bid Amount<br>Dollars   Ct |
|-------------|------------------------------------------------------------------|----------------------------------|-----------------------------|----------------------------|
| 0047        | 6000000000-E TEMPORARY<br>SILT FENCE                             | 20.000<br>LF                     | 5.00000                     | 100.00                     |
| 0048        | 6071010000-E WATTLE                                              | 75.000<br>LF                     | 6.00000                     | 450.00                     |
| 0049        | 6084000000-E SEEDING &<br>MULCHING                               | 1.510<br>ACR                     | 2,000.00000                 | 3,020.00                   |
| 0050        | 7444000000-E INDUCTIVE<br>LOOP SAWCUT                            | 11,644.000<br>LF                 | 4.50000                     | 52,398.00                  |
| 0051        | 4400000000-E WORK ZONE<br>SIGNS (STATIONARY)                     | 839.000<br>SF                    | 3.90000                     | 3,272.10                   |
| 0052        | 4405000000-E WORK ZONE<br>SIGNS (PORTABLE)                       | 896.000<br>SF                    | 5.20000                     | 4,659.20                   |
| 0053        | 4410000000-E WORK ZONE<br>SIGNS (BARRICADE<br>MOUNTED)           | 280.000<br>SF                    | 4.30000                     | 1,204.00                   |
| 0054        | 4415000000-N FLASHING<br>ARROW BOARD                             | 3.000<br>EA                      | 1,000.00000                 | 3,000.00                   |
| 0055        | 4420000000-N PORTABLE<br>CHANGEABLE MESSAGE SIGN                 | 4.000<br>EA                      | 2,000.00000                 | 8,000.00                   |
| 0056        | 4422000000-N PORTABLE<br>CHANGEABLE MESSAGE SIGN<br>(SHORT TERM) | 8.000<br>DAY                     | 38.00000                    | 304.00                     |
| 0057        | 4430000000-N DRUMS                                               | 300.000<br>EA                    | 41.00000                    | 12,300.00                  |
| 0058        | 4445000000-E BARRICADES<br>(TYPE III)                            | 144.000<br>LF                    | 9.00000                     | 1,296.00                   |

State of NC  
Dept of Transportation

Date: 08-12-14  
Revised: 08-15-14

Contract ID: C203608 Project(s): STATE FUNDED

Letting Date: 08-26-14 Call Order: 003

Bidder: 4315 - APAC-Atlantic, Inc. Thompson Arthur Divsion

| Line<br>No. | Item<br>Description                       | Approx.<br>Quantity<br>and Units | Unit Price<br>Dollars   Cts | Bid Amount<br>Dollars   Ct |
|-------------|-------------------------------------------|----------------------------------|-----------------------------|----------------------------|
| 0059        | 4450000000-N FLAGGER                      | 40.000                           | 20.00000                    | 800.00                     |
|             |                                           | HR                               |                             |                            |
| 0060        | 4480000000-N TMA                          | 2.000                            | 1,500.00000                 | 3,000.00                   |
|             |                                           | EA                               |                             |                            |
| 0061        | 4650000000-N TEMPORARY<br>RAISED PAVEMENT | 750.000                          | 4.00000                     | 3,000.00                   |
|             | MARKERS                                   | EA                               |                             |                            |
|             | Section 0001 Total                        |                                  |                             | 4,717,441.25               |
|             | Bid Total                                 |                                  |                             | 4,717,441.25               |

NON-COLLUSION AND DEBARMENT CERTIFICATION

The bidder certifies that neither he, nor any official, agent or employee of the bidder has entered into any agreement, participated in any collusion, or otherwise taken any action which is in restraint of free competitive bidding in connection with this bid, and that the bidder intends to do the work with its own bonafide employees or subcontractors and is not bidding for the benefit of another contractor. In addition, submitting this electronic bid constitutes the bidder's certification of Status under penalty of perjury under the laws of the United States and in accordance with the Debarment Certification on file with the Department.

By submitting this bid, the bidder certifies to the best of his knowledge and belief that he and his principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records; making false statements; or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph b. of this certification; and
- d. Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Where the prospective bidder is unable to certify to any of the statements in this certification, the bidder shall submit an explanation in the blanks provided herein. The explanation will not necessarily result in denial of participation in a contract.

Explanation:

NOT ANSWERED

NOT ANSWERED

NOT ANSWERED

NOT ANSWERED

If the prequalified bidder's status changes, he shall immediately submit a new fully executed non-collusion affidavit and debarment certification with an explanation of the change to the Contract Office prior to submitting the bid.

Failure to furnish a certification or an explanation will be grounds for rejection of a bid

AWARD LIMITS ON MULTIPLE PROJECTS

By answering YES to this statement, the bidder acknowledges that they are using the award limits on multiple projects. No

A bidder who desires to bid on more than one project on which bids are to be opened on the same date, and who also desires to avoid receiving an award of more projects than he is equipped to handle, may bid on any number of projects but may limit the total amount of work awarded to him on selected projects by completing the AWARD LIMITS ON MULTIPLE PROJECTS.

The Award Limits on Multiple Projects must be filled in on each project bid for which the Bidder desires protection.

It is the desire of the Bidder to be awarded contracts, the value of which will not exceed a total of NOT ANSWERED for those

projects indicated herein, for which bids will be opened on (MM/DD/YY)

The Award Limits shall apply to the following projects:

| Contract Number | County |
|-----------------|--------|
| NOT ANSWERED    |        |
| NOT ANSWERED    |        |
| NOT ANSWERED    |        |
| NOT ANSWERED    |        |
| NOT ANSWERED    |        |
| NOT ANSWERED    |        |

It is agreed that if I am (we are) the low Bidder(s) on indicated projects, the total value of which is more than the above stipulated award limits, the Board of Transportation will award me (us) projects from among those indicated that have a total value not to exceed the award limit and will result in the lowest total bids to the Department of Transportation.

NORTH CAROLINA STATE DEPARTMENT OF TRANSPORTATION  
MBE COMMITMENT ITEMS

DATE:08-12-14  
PAGE: 9

PROPOSAL: C203608  
LETTING: L140826 CALL: 003  
VENDOR: 4315 APAC-Atlantic, Inc. Thompson Arthur Division

| LINE | ITEM | ITEM  | UNIT | SUBCONTRACTOR | SUBCONTRACTOR | EXTENDED |
|------|------|-------|------|---------------|---------------|----------|
| NO.  | NO.  | DESC. | TYPE | QUANTITY      | UNIT PRICE    | AMOUNT   |

MBE SUBCONTRACTOR: 4906 W. G. LEWIS TRUCKING, INC  
Will Use Quote: Yes

|      |              |                  |           |         |          |
|------|--------------|------------------|-----------|---------|----------|
| 0020 | 1525000000-E | ASP CONC SUR TON | 24000.000 | 4.00000 | 96000.00 |
|      | Haul Only    |                  |           |         |          |

|                                         |           |           |
|-----------------------------------------|-----------|-----------|
| MBE COMMITMENT TOTAL FOR SUBCONTRACTOR: | 96,000.00 | Committed |
|-----------------------------------------|-----------|-----------|

|                                  |           |            |          |
|----------------------------------|-----------|------------|----------|
| TOTAL MBE COMMITMENT FOR VENDOR: | Entered:  | 2.04% or   | 96000.00 |
|                                  | Required: | 2.00% or   | 94348.82 |
|                                  |           | <GOAL MET> |          |

NORTH CAROLINA STATE DEPARTMENT OF TRANSPORTATION  
WBE COMMITMENT ITEMS

DATE:08-12-14  
PAGE: 10

PROPOSAL: C203608  
LETTING: L140826 CALL: 003  
VENDOR: 4315 APAC-Atlantic, Inc. Thompson Arthur Divsion

| LINE NO. | ITEM NO. | ITEM DESC. | UNIT TYPE | SUBCONTRACTOR QUANTITY | SUBCONTRACTOR UNIT PRICE | EXTENDED AMOUNT |
|----------|----------|------------|-----------|------------------------|--------------------------|-----------------|
|----------|----------|------------|-----------|------------------------|--------------------------|-----------------|

WBE SUBCONTRACTOR: 9602 CAROLINA TRANSPORT OF GREENSBORO INC  
Will Use Quote: Yes

|      |              |                  |  |          |          |          |
|------|--------------|------------------|--|----------|----------|----------|
| 0021 | 1575000000-E | ASP FOR PLAN TON |  | 2890.000 | 10.65000 | 30778.50 |
|      |              | Liquid Haul Only |  |          |          |          |

WBE COMMITMENT TOTAL FOR SUBCONTRACTOR: 30,778.50 Committed

WBE SUBCONTRACTOR: 8066 ASPHALT PAVING CO. OF GREENSBORO, INC.  
Will Use Quote: Yes

|      |              |                     |  |           |         |          |
|------|--------------|---------------------|--|-----------|---------|----------|
| 0020 | 1525000000-E | ASP CONC SUR TON    |  | 25910.000 | 0.45000 | 11659.50 |
|      |              | Sand Stockpile Haul |  |           |         |          |

WBE COMMITMENT TOTAL FOR SUBCONTRACTOR: 11,659.50 Committed

WBE SUBCONTRACTOR: 12814 GARNER-MURPHY CONSTRUCTION, INC.  
Will Use Quote: Yes

|      |              |                          |  |           |         |         |
|------|--------------|--------------------------|--|-----------|---------|---------|
| 0019 | 1523000000-E | ASP CONC SUR TON         |  | 16613.000 | 0.40000 | 6645.20 |
|      |              | Sand Stockpile Haul only |  |           |         |         |
| 0020 | 1525000000-E | ASP CONC SUR TON         |  | 25910.000 | 0.20000 | 5182.00 |
|      |              | Sand Stockpile haul only |  |           |         |         |

WBE COMMITMENT TOTAL FOR SUBCONTRACTOR: 11,827.20 Committed

WBE SUBCONTRACTOR: 10186 SLM CONSTRUCTION, INC.  
Will Use Quote: Yes

|      |              |                        |  |        |            |          |
|------|--------------|------------------------|--|--------|------------|----------|
| 0001 | 0000100000-N | MOBILIZATION LS        |  | 1.000  | 7500.00000 | 7500.00  |
|      |              | Lowering of structures |  |        |            |          |
| 0024 | 2800000000-N | ADJ CATCH BA EA        |  | 4.000  | 489.00000  | 1956.00  |
| 0025 | 2815000000-N | ADJ DROP INL EA        |  | 6.000  | 489.00000  | 2934.00  |
| 0026 | 2830000000-N | ADJ MANHOLES EA        |  | 27.000 | 489.00000  | 13203.00 |
| 0027 | 2845000000-N | ADJ METER OR EA        |  | 13.000 | 469.00000  | 6097.00  |

WBE COMMITMENT TOTAL FOR SUBCONTRACTOR: 31,690.00 Committed

WBE SUBCONTRACTOR: 11234 TOM CAT TRUCKING INC  
Will Use Quote: Yes

|      |              |                  |  |          |         |          |
|------|--------------|------------------|--|----------|---------|----------|
| 0003 | 0255000000-E | GENERIC GRAD TON |  | 2500.000 | 4.00000 | 10000.00 |
|------|--------------|------------------|--|----------|---------|----------|

WBE COMMITMENT TOTAL FOR SUBCONTRACTOR: 10,000.00 Committed

TOTAL WBE COMMITMENT FOR VENDOR:

Entered: 2.03% or 95955.20  
Required: 2.00% or 94348.82  
<GOAL MET>



THIS PROPOSAL CONTAINS THE FOLLOWING ERRORS/WARNINGS (IF ANY)

This Bid contains 1 amendment files

00001 08-15-14 ADD, MODIFY & DELETE ITEMS

Electronic Bid Submission

By submitting this bid electronically, I hereby acknowledge that all requirements included in the hard copy proposal, addendum, amendments, plans, standard specifications, supplemental specifications and special provisions are part of the bid and contract. Further, I acknowledge that I have read, understand, accept, acknowledge and agree to comply with all statements in this electronic bid.

I Hereby certify that I have the authority to submit this bid.

Signature

Agency

Date

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## Contract Item Sheets For C203608

| Line #               | ItemNumber   | Sec # | Description                                                  | Quantity Unit  | Unit Bid Price | Amount Bid |
|----------------------|--------------|-------|--------------------------------------------------------------|----------------|----------------|------------|
| <b>ROADWAY ITEMS</b> |              |       |                                                              |                |                |            |
| 0001                 | 0000100000-N | 800   | MOBILIZATION                                                 | Lump Sum<br>LS | 60,000.00      | 60,000.00  |
| 0002                 | 0106000000-E | 230   | BORROW EXCAVATION                                            | 226<br>CY      | 15.00          | 3,390.00   |
| 0003                 | 0255000000-E | SP    | GENERIC GRADING ITEM<br>AGGREGATE SHOULDER BORROW            | 4,541.2<br>TON | 15.00          | 68,118.00  |
| 0004                 | 1220000000-E | 545   | INCIDENTAL STONE BASE                                        | 65<br>TON      | 34.00          | 2,210.00   |
| 0005                 | 1243000000-E | SP    | SHOULDER CONSTRUCTION                                        | 2.6<br>SMI     | 1,800.00       | 4,680.00   |
| 0006                 | 1245000000-E | SP    | SHOULDER RECONSTRUCTION                                      | 45.74<br>SMI   | 1,200.00       | 54,888.00  |
| 0007                 | 1297000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>DEPTH<br>(14")             | 3,345<br>SY    | 11.70          | 39,136.50  |
| 0008                 | 1297000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>DEPTH<br>(2")              | 2,388<br>SY    | 2.00           | 4,776.00   |
| 0009                 | 1297000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>DEPTH<br>(3")              | 9,620<br>SY    | 1.80           | 17,316.00  |
| 0010                 | 1308000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>TO *****<br>(0" TO 1-1/2") | 6,425<br>SY    | 1.25           | 8,031.25   |
| 0011                 | 1308000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>TO *****<br>(0" TO 3")     | 32,848<br>SY   | 1.40           | 45,987.20  |
| 0012                 | 1308000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>TO *****<br>(0" TO 4-1/2") | 50,908<br>SY   | 2.00           | 101,816.00 |
| 0013                 | 1308000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>TO *****<br>(1-1/2" TO 3") | 2,650<br>SY    | 2.45           | 6,492.50   |
| 0014                 | 1308000000-E | 607   | MILLING ASPHALT PAVEMENT, ****<br>TO *****<br>(3" TO 6")     | 21,138<br>SY   | 2.70           | 57,072.60  |
| 0015                 | 1330000000-E | 607   | INCIDENTAL MILLING                                           | 14,349<br>SY   | 6.00           | 86,094.00  |
| 0016                 | 1491000000-E | 610   | ASPHALT CONC BASE COURSE, TYPE<br>B25.0C                     | 1,050<br>TON   | 36.00          | 37,800.00  |

## Contract Item Sheets For C203608

| Line # | ItemNumber   | Sec # | Description                                         | Quantity Unit | Unit Bid Price | Amount Bid   |
|--------|--------------|-------|-----------------------------------------------------|---------------|----------------|--------------|
| 0017   | 1498000000-E | 610   | ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B       | 1,813 TON     | 38.00          | 68,894.00    |
| 0018   | 1503000000-E | 610   | ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C       | 763 TON       | 37.00          | 28,231.00    |
| 0019   | 1523000000-E | 610   | ASPHALT CONC SURFACE COURSE, TYPE S9.5C             | 16,613 TON    | 37.00          | 614,681.00   |
| 0020   | 1525000000-E | 610   | ASPHALT CONC SURFACE COURSE, TYPE SF9.5A            | 25,910 TON    | 36.00          | 932,760.00   |
| 0021   | 1575000000-E | 620   | ASPHALT BINDER FOR PLANT MIX                        | 2,890 TON     | 575.00         | 1,661,750.00 |
| 0022   | 1704000000-E | SP    | PATCHING EXISTING PAVEMENT                          | 3,260 TON     | 87.00          | 283,620.00   |
| 0023   | 1771000000-E | 660   | ASPHALT SURFACE TREATMENT, MAT COAT, #6M STONE      | 63,350 SY     | 1.28           | 81,088.00    |
| 0024   | 2800000000-N | 858   | ADJUSTMENT OF CATCH BASINS                          | 4 EA          | 489.00         | 1,956.00     |
| 0025   | 2815000000-N | 858   | ADJUSTMENT OF DROP INLETS                           | 6 EA          | 489.00         | 2,934.00     |
| 0026   | 2830000000-N | 858   | ADJUSTMENT OF MANHOLES                              | 27 EA         | 489.00         | 13,203.00    |
| 0027   | 2845000000-N | 858   | ADJUSTMENT OF METER BOXES OR VALVE BOXES            | 13 EA         | 469.00         | 6,097.00     |
| 0028   | 4413000000-E | SP    | WORK ZONE ADVANCE/GENERAL WARNING SIGNING           | 2,160 SF      | 3.85           | 8,316.00     |
| 0029   | 4457000000-N | SP    | TEMPORARY TRAFFIC CONTROL                           | Lump Sum LS   | 24,000.00      | 24,000.00    |
| 0030   | 4510000000-N | SP    | LAW ENFORCEMENT                                     | 440 HR        | 20.00          | 8,800.00     |
| 0031   | 4685000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)  | 6,666 LF      | 0.50           | 3,333.00     |
| 0032   | 4686000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS) | 56,680 LF     | 0.90           | 51,012.00    |
| 0033   | 4695000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)  | 1,165 LF      | 3.00           | 3,495.00     |
| 0034   | 4697000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS) | 1,567 LF      | 3.00           | 4,701.00     |

## Contract Item Sheets For C203608

| Line # | ItemNumber   | Sec # | Description                                          | Quantity Unit | Unit Bid Price | Amount Bid |
|--------|--------------|-------|------------------------------------------------------|---------------|----------------|------------|
| 0035   | 4705000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS) | 250 LF        | 6.00           | 1,500.00   |
| 0036   | 4710000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS) | 1,812 LF      | 8.00           | 14,496.00  |
| 0037   | 4721000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)  | 54 EA         | 75.00          | 4,050.00   |
| 0038   | 4725000000-E | 1205  | THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)      | 200 EA        | 105.00         | 21,000.00  |
| 0039   | 4810000000-E | 1205  | PAINT PAVEMENT MARKING LINES (4")                    | 1,149,186 LF  | 0.10           | 114,918.60 |
| 0040   | 4820000000-E | 1205  | PAINT PAVEMENT MARKING LINES (8")                    | 5,211 LF      | 0.30           | 1,563.30   |
| 0041   | 4835000000-E | 1205  | PAINT PAVEMENT MARKING LINES (24")                   | 2,320 LF      | 3.00           | 6,960.00   |
| 0042   | 4840000000-N | 1205  | PAINT PAVEMENT MARKING CHARACTER                     | 24 EA         | 25.00          | 600.00     |
| 0043   | 4845000000-N | 1205  | PAINT PAVEMENT MARKING SYMBOL                        | 604 EA        | 25.00          | 15,100.00  |
| 0044   | 4900000000-N | 1251  | PERMANENT RAISED PAVEMENT MARKERS                    | 696 EA        | 6.00           | 4,176.00   |
| 0045   | 4905000000-N | 1253  | SNOWPLOWABLE PAVEMENT MARKERS                        | 1,695 EA      | 21.00          | 35,595.00  |
| 0046   | 5255000000-N | 1413  | PORTABLE LIGHTING                                    | Lump Sum LS   | 4,000.00       | 4,000.00   |
| 0047   | 6000000000-E | 1605  | TEMPORARY SILT FENCE                                 | 20 LF         | 5.00           | 100.00     |
| 0048   | 6071010000-E | SP    | WATTLE                                               | 75 LF         | 6.00           | 450.00     |
| 0049   | 6084000000-E | 1660  | SEEDING & MULCHING                                   | 1.51 ACR      | 2,000.00       | 3,020.00   |
| 0050   | 7444000000-E | 1725  | INDUCTIVE LOOP SAWCUT                                | 11,644 LF     | 4.50           | 52,398.00  |
| 0051   | 4400000000-E | 1110  | WORK ZONE SIGNS (STATIONARY)                         | 839 SF        | 3.90           | 3,272.10   |
| 0052   | 4405000000-E | 1110  | WORK ZONE SIGNS (PORTABLE)                           | 896 SF        | 5.20           | 4,659.20   |

## Contract Item Sheets For C203608

| Line # | ItemNumber   | Sec # | Description                                   | Quantity Unit | Unit Bid Price | Amount Bid |
|--------|--------------|-------|-----------------------------------------------|---------------|----------------|------------|
| 0053   | 4410000000-E | 1110  | WORK ZONE SIGNS (BARRICADE MOUNTED)           | 280 SF        | 4.30           | 1,204.00   |
| 0054   | 4415000000-N | 1115  | FLASHING ARROW BOARD                          | 3 EA          | 1,000.00       | 3,000.00   |
| 0055   | 4420000000-N | 1120  | PORTABLE CHANGEABLE MESSAGE SIGN              | 4 EA          | 2,000.00       | 8,000.00   |
| 0056   | 4422000000-N | 1120  | PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM) | 8 DAY         | 38.00          | 304.00     |
| 0057   | 4430000000-N | 1130  | DRUMS                                         | 300 EA        | 41.00          | 12,300.00  |
| 0058   | 4445000000-E | 1145  | BARRICADES (TYPE III)                         | 144 LF        | 9.00           | 1,296.00   |
| 0059   | 4450000000-N | 1150  | FLAGGER                                       | 40 HR         | 20.00          | 800.00     |
| 0060   | 4480000000-N | 1165  | TMA                                           | 2 EA          | 1,500.00       | 3,000.00   |
| 0061   | 4650000000-N | 1251  | TEMPORARY RAISED PAVEMENT MARKERS             | 750 EA        | 4.00           | 3,000.00   |

TOTAL AMOUNT OF BID FOR ENTIRE PROJECT

\$4,717,441.25 ✓

0816/Sep08/Q1509990.05/D204450110000/E61

C203608

Contract No. \_\_\_\_\_  
County Randolph

Rev. 5-19-11

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

The Contractor being duly sworn, solemnly swears (or affirms) that neither he, nor any official, agent or employee has entered into any agreement, participated in any collusion, or otherwise taken any action which is in restraint of free competitive bidding in connection with this Contract, that the Contractor has not been convicted of violating *N.C.G.S. § 133-24* within the last three years, and that the Contractor intends to do the work with its own bonafide employees or subcontractors and did not bid for the benefit of another contractor.

By submitting this Execution of Contract, Non-Collusion Affidavit and Debarment Certification, the Contractor is certifying his status under penalty of perjury under the laws of the United States in accordance with the Debarment Certification attached, provided that the Debarment Certification also includes any required statements concerning exceptions that are applicable.

*N.C.G.S. § 133-32* and Executive Order 24 prohibit the offer to, or acceptance by, any State Employee of any gift from anyone with a contract with the State, or from any person seeking to do business with the State. By execution of any response in this procurement, you attest, for your entire organization and its employees or agents, that you are not aware that any such gift has been offered, accepted, or promised by any employees of your organization.

**SIGNATURE OF CONTRACTOR**APAC-Atlantic, Inc. Thompson-Arthur Division

Full name of Corporation

PO Box 21088, Greensboro, NC 27420

Address as Prequalified

Attest

Leonard D. Conway  
Secretary/Assistant Secretary  
Select appropriate title

By

Clarence O. Brickey  
President/Vice President/Assistant Vice President  
Select appropriate title

Leonard D. Conway

Print or type Signer's name

Clarence O. Brickey

Print or type Signer's name

**CORPORATE SEAL****AFFIDAVIT MUST BE NOTARIZED**

Subscribed and sworn to before me this the

11<sup>th</sup> day of Sept 2014

Betty T. Eppert  
Signature of Notary Public

**NOTARY SEAL**of Randolph CountyState of North CarolinaMy Commission Expires: 4/11/16

## DEBARMENT CERTIFICATION

Conditions for certification:

1. The prequalified bidder shall provide immediate written notice to the Department if at any time the bidder learns that his certification was erroneous when he submitted his debarment certification or explanation filed with the Department, or has become erroneous because of changed circumstances.
2. The terms *covered transaction*, *debarred*, *suspended*, *ineligible*, *lower tier covered transaction*, *participant*, *person*, *primary covered transaction*, *principal*, *proposal*, and *voluntarily excluded*, as used in this provision, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. A copy of the Federal Rules requiring this certification and detailing the definitions and coverages may be obtained from the Contract Officer of the Department.
3. The prequalified bidder agrees by submitting this form, that he will not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in NCDOT contracts, unless authorized by the Department.
4. For Federal Aid projects, the prequalified bidder further agrees that by submitting this form he will include the Federal-Aid Provision titled *Required Contract Provisions Federal-Aid Construction Contract (Form FHWA PR 1273)* provided by the Department, without subsequent modification, in all lower tier covered transactions.
5. The prequalified bidder may rely upon a certification of a participant in a lower tier covered transaction that he is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless he knows that the certification is erroneous. The bidder may decide the method and frequency by which he will determine the eligibility of his subcontractors.
6. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this provision. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
7. Except as authorized in paragraph 6 herein, the Department may terminate any contract if the bidder knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available by the Federal Government.

### DEBARMENT CERTIFICATION

The prequalified bidder certifies to the best of his knowledge and belief, that he and his principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records; making false statements; or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph b. of this certification; and
- d. Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- e. Will submit a revised Debarment Certification immediately if his status changes and will show in his bid proposal an explanation for the change in status.

If the prequalified bidder cannot certify that he is not debarred, he shall provide an explanation with this submittal. An explanation will not necessarily result in denial of participation in a contract.

Failure to submit a non-collusion affidavit and debarment certification will result in the prequalified bidder's bid being considered non-responsive.

☐

Check here if an explanation is attached to this certification.



Contract No. C203608

County Randolph

ACCEPTED BY THE  
DEPARTMENT OF TRANSPORTATION



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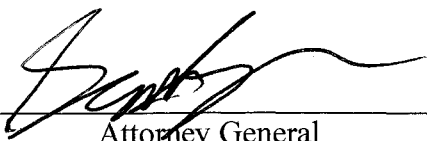
Contract Officer



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Date

Execution of Contract and Bonds  
Approved as to Form:



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Attorney General

Contract No.  
County

C203608  
RANDOLPH

Rev 5-17-11

### CONTRACT PAYMENT BOND

|                                |                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------|
| Date of Payment Bond Execution | <u>SEPTEMBER 8, 2014</u>                                                             |
| Name of Principal Contractor   | <u>APAC - ATLANTIC, INC. - THOMPSON-ARTHUR DIVISION</u>                              |
| Name of Surety:                | <u>LIBERTY MUTUAL INSURANCE COMPANY</u>                                              |
| Name of Contracting Body:      | <u>North Carolina Department of Transportation</u><br><u>Raleigh, North Carolina</u> |
| Amount of Bond:                | <u>\$4,717,441.25</u>                                                                |
| Contract ID No.:               | <u>C203608</u>                                                                       |
| County Name:                   | <u>RANDOLPH</u>                                                                      |

KNOW ALL MEN BY THESE PRESENTS, That we, the PRINCIPAL CONTRACTOR (hereafter, PRINCIPAL) and SURETY above named, are held and firmly bound unto the above named Contracting Body, hereinafter called the Contracting Body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal entered into a certain contract with the Contracting Body, numbered as shown above and hereto attached:

NOW THEREFORE, if the principal shall promptly make payment to all persons supplying labor and material in the prosecution of the work provided for in said contract, and any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the surety being hereby waived, then this obligation to be void; otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Contract No.  
County

**C203608**  
**RANDOLPH**

Rev 5-17-11

## CONTRACT PAYMENT BOND

*Affix Seal of Surety Company*

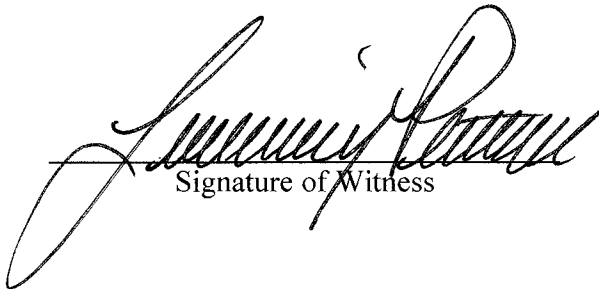
**LIBERTY MUTUAL INSURANCE COMPANY**

Print or type Surety Company Name

By **TINA DAVIS**

Print, stamp or type name of Attorney-in-Fact

  
Signature of Attorney-in-Fact

  
Signature of Witness

**LINDSEY PLATTNER**

Print or type Signer's name

**15 W. SOUTH TEMPLE, STE. 700**  
**SALT LAKE CITY, UT 84101**

Address of Attorney-in-Fact

Contract No.  
County

**C203608**  
**RANDOLPH**

Rev 5-17-11

## CONTRACT PAYMENT BOND

### CORPORATION

SIGNATURE OF CONTRACTOR (Principal)

**APAC - ATLANTIC, INC. - THOMPSON-ARTHUR DIVISION**

Full name of Corporation

**P.O. BOX 21088, GREENSBORO, NC 27401**

Address as prequalified

By



Signature of President, ~~Vice President~~, Assistant Vice President

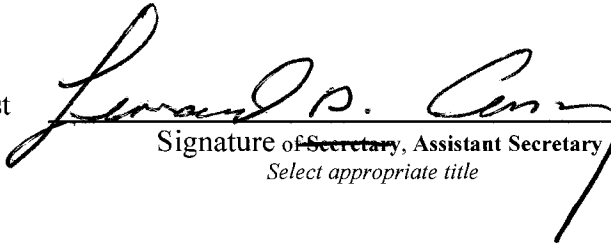
Select appropriate title

Clarence O. Brickey

Print or type Signer's name

*Affix Corporate Seal*

Attest



Signature of ~~Secretary~~, Assistant Secretary

Select appropriate title

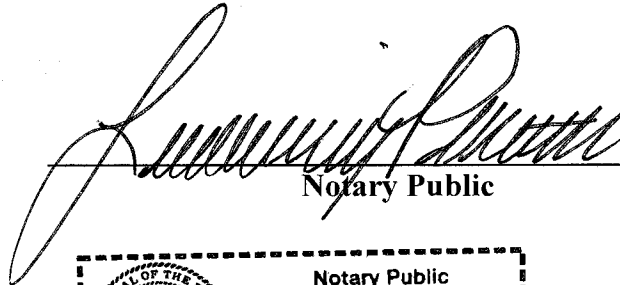
**Leonard D. Conway**

Print or type Signer's name

## SURETY ACKNOWLEDGMENT

STATE OF UTAH                    }  
COUNTY OF SALT LAKE    } **SS**

On this 8TH day of SEPTEMBER, 2014, before me personally came TINA DAVIS to me known, who, being by me duly sworn, did depose and say that she is an Attorney-In-Fact of LIBERTY MUTUAL INSURANCE COMPANY the corporation described in and which executed the within instrument; that she knows the corporate seal of said corporation, that the seal affixed to the within instrument is such corporate seal, and that she signed the said instrument and affixed the said seal as Attorney-In-Fact of the Board of Directors of said corporation and by authority of this office under the Standing Resolutions thereof.

  
\_\_\_\_\_  
Notary Public



**THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.**

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 6668676

American Fire and Casualty Company  
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company  
West American Insurance Company

**POWER OF ATTORNEY**

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire; that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts; and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Lindsey Plattner; Lisa Hall; Tina Davis

all of the city of Salt Lake City, state of UT each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 1st day of August, 2014.

American Fire and Casualty Company  
The Ohio Casualty Insurance Company  
Liberty Mutual Insurance Company  
West American Insurance Company

By: David M. Carey  
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss  
COUNTY OF MONTGOMERY

On this 1st day of August, 2014, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



By: Teresa Pastella  
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

**ARTICLE IV – OFFICERS** – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

**ARTICLE XIII – Execution of Contracts** – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

**Certificate of Designation** – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

**Authorization** – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Gregory W. Davenport, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 8TH day of SEPTEMBER, 20 14.

By: Gregory W. Davenport  
Gregory W. Davenport, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

Contract No.  
County

**C203608**  
**RANDOLPH**

Rev 5-17-11

## CONTRACT PERFORMANCE BOND

Date of Performance Bond Execution: SEPTEMBER 8, 2014

Name of Principal Contractor: APAC - ATLANTIC, INC. - THOMPSON-ARTHUR DIVISION

Name of Surety: LIBERTY MUTUAL INSURANCE COMPANY

Name of Contracting Body: North Carolina Department of Transportation  
Raleigh, North Carolina

Amount of Bond: \$4,717,441.25

Contract ID No.: C203608

County Name: RANDOLPH

KNOW ALL MEN BY THESE PRESENTS, That we, the PRINCIPAL CONTRACTOR (hereafter, PRINCIPAL) and SURETY above named, are held and firmly bound unto the above named Contracting Body, hereinafter called the Contracting Body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal entered into a certain contract with the Contracting Body, numbered as shown above and hereto attached:

NOW THEREFORE, if the principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the Contracting Body, with or without notice to the Surety, and during the life of any guaranty required under the contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the surety being hereby waived, then this obligation to be void; otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above-bound parties have executed this instrument under their several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Contract No.  
County

**C203608**  
**RANDOLPH**

Rev 5-17-11

### CONTRACT PERFORMANCE BOND

*Affix Seal of Surety Company*

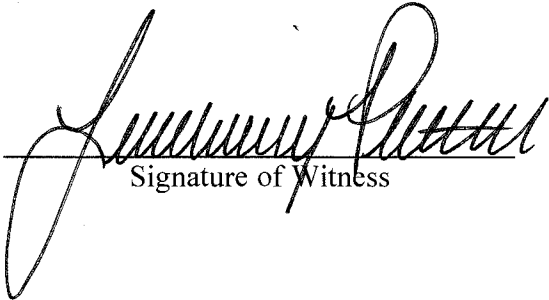
**LIBERTY MUTUAL INSURANCE COMPANY**

Print or type Surety Company Name

By **TINA DAVS**

Print, stamp or type name of Attorney-in-Fact

  
Signature of Attorney-in-Fact

  
Signature of Witness

**LINDSEY PLATTNER**

Print or type Signer's name

**15 W. SOUTH TEMPLE, STE. 700**  
**SALT LAKE CITY, UT 84101**

Address of Attorney-in-Fact



Contract No.  
County

**C203608**  
**RANDOLPH**

Rev 5-17-11

**CONTRACT PERFORMANCE BOND**

**CORPORATION**

SIGNATURE OF CONTRACTOR (Principal)

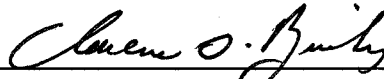
**APAC - ATLANTIC, INC. - THOMPSON-ARTHUR DIVISION**

Full name of Corporation

**P.O. BOX 21088, GREENSBORO, NC 27415**

Address as prequalified

By



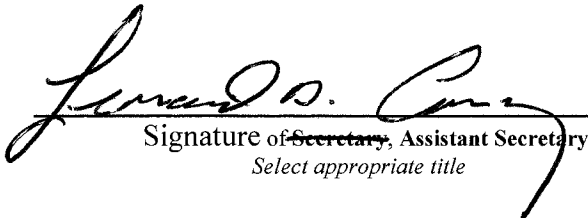
Signature of President, ~~Vice President, Assistant Vice President~~  
Select appropriate title

Clarence O. Brickey

Print or type Signer's name

*Affix Corporate Seal*

Attest



Signature of ~~Secretary~~, Assistant Secretary  
Select appropriate title

**Leonard D. Conway**

Print or type Signer's name

**THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.**

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 6668674

American Fire and Casualty Company  
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company  
West American Insurance Company

**POWER OF ATTORNEY**

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Lindsey Plattner; Lisa Hall; Tina Davis

all of the city of Salt Lake City, state of UT each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 1st day of August, 2014.

American Fire and Casualty Company  
The Ohio Casualty Insurance Company  
Liberty Mutual Insurance Company  
West American Insurance Company

By: David M. Carey  
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA ss  
COUNTY OF MONTGOMERY

On this 1st day of August, 2014, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Insurance Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.

By: Teresa Pastella  
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

**ARTICLE IV – OFFICERS – Section 12. Power of Attorney.** Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

**ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings.** Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

**Certificate of Designation –** The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

**Authorization –** By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Gregory W. Davenport, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 8TH day of SEPTEMBER, 2014.

By: Gregory W. Davenport  
Gregory W. Davenport, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.