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

CONTRACT BONDS

FOR CONTRACT NO. C203579

WBS

12CR.10551.12, 12CR.20551.19 STATE FUNDED

COUNTY OF

LINCOLN

THIS IS THE

ROADWAY CONTRACT

ROUTE NUMBER

<u>US 321</u>

LENGTH

19.710 MILES

LOCATION

US-321 SB FROM BRIDGE #269 TO NORTH OF NC-27 AND 6 SECTIONS

OF SECONDARY ROADS.

CONTRACTOR

BLYTHE CONSTRUCTION, INC.

ADDRESS

P.O. BOX 31635

CHARLOTTE, NC 28231

BIDS OPENED

JULY 15, 2014

CONTRACT EXECUTION ____AUG

AUG 2 1 2014

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

PROPOSAL

DATE AND TIME OF BID OPENING: JUL

JULY 15, 2014 AT 2:00 PM

CONTRACT ID

C203579

WBS

12CR.10551.12, 12CR.20551.19

FEDERAL-AID NO. STATE FUNDED

COUNTY

LINCOLN

T.I.P. NO.

MILES

19.710

ROUTE NO.

US 321

LOCATION

US-321 SB FROM BRIDGE #269 TO NORTH OF NC-27 AND 6 SECTIONS

OF SECONDARY ROADS.

TYPE OF WORK

MILLING, RESURFACING & SHOULDER RECONSTRUCTION.

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. C203579 IN LINCOLN COUNTY, NORTH CAROLINA

| Date | 20 |
|------------------|----------------|
| DEPARTMENT OF TR | RANSPORTATION, |
| RALEIGH, NORT | H CAROLINA |

The Bidder has carefully examined the location of the proposed work to be known as Contract No. C203579; 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. C203579 in Lincoln 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.

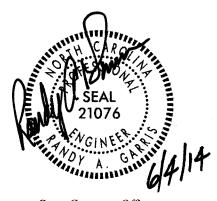
The published volume entitled North Carolina Department of Transportation, Raleigh, Standard Specifications for Roads and Structures, January 2012 with all amendments and supplements thereto, is by reference incorporated into and made a part of this contract; that, except as herein modified, all the 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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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 August 25, 2014.

The completion date for this contract is May 30, 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)

108

SPI G14 B

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

Monday through Friday 7:00 a.m. – 8:30 a.m. 4:30 p.m. – 6:00 p.m.

Also, the Contractor shall not narrow or close a lane of traffic on **Any Map**, detain and /or alter the traffic flow on or during 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 7:00 a.m. December 31st and 7:00 p.m. January 2nd. If New Year's Day is on a Friday, Saturday, Sunday or Monday, then until 7:00 p.m. the following Tuesday.
- 3. For Easter, between the hours of 7:00 a.m. Thursday and 7:00 p.m. Monday.
- 4. For **Memorial Day**, between the hours of **7:00 a.m.** Friday and **7:00 p.m.** Tuesday.

- 5. For **Independence Day**, between the hours of **7:00 a.m.** the day before Independence Day and **7:00 p.m.** the day after Independence Day.
 - If **Independence Day** is on a Friday, Saturday, Sunday or Monday, then between the hours of **7:00 a.m.** the Thursday before Independence Day and **7:00 p.m.** the Tuesday after Independence Day.
- 6. For Labor Day, between the hours of 7:00 a.m. Friday and 7:00 p.m. Tuesday.
- 7. For **Thanksgiving Day**, between the hours of 7:00 a.m. Tuesday and 7:00 p.m. Monday.
- 8. For **Christmas**, between the hours of **7:00 a.m.** the Friday before the week of Christmas Day and **7:00 p.m.** the following Tuesday after the week of Christmas Day.

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 are not 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 herein and place traffic in the existing traffic pattern.

The liquidated damages are Five Hundred Dollars (\$500.00) per hour.

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

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.

MAJOR CONTRACT ITEMS:

(2-19-02) 104 SPI G28

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

| | Line # | Description |
|---|--------|---|
| - | 10 | Asphalt Concrete Surface Course, Type S9.5B |
| | 12 | Asphalt Concrete Surface Course, Type S9.5C |

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).

| Line# | Description |
|------------|-----------------------------|
| 25 thru 33 | Long-Life Pavement Markings |
| .35 | Permanent Pavement Markers |

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 \$ 2.9971 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 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:

| <u>Fiscal Year</u> | | Progress (% of Dollar Value) |
|--------------------|---------------------|------------------------------|
| 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 <u>not</u> 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

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 5.0 %
 - (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 6.0 %
 - (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 <u>all</u> 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[®].

- (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 (2nd and 3rd 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. 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 <u>not</u> 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.
- 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.
- 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.

LOCATING EXISTING UNDERGROUND UTILITIES:

 $\overline{(3-20-12)}$

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)

06

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.

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.

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:

 $\overline{(9-18-12)}$

SP1 G185

Revise the 2012 Standard Specifications as follows:

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

PROJECT SPECIAL PROVISIONS

ROADWAY

SHOULDER RECONSTRUCTION PER SHOULDER MILE

(1-18-00) (Rev 11-16-10)

R1 R07 B (REV.)

Description

This work consists of reconstructing each shoulder (including median shoulders as applicable) in accordance with Roadway Standard Nos. 560.01 and 560.02 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. This work shall be performed immediately after the resurfacing operations are complete as directed by the Engineer.

Materials

The Contractor shall use Aggregate Shoulder Borrow (ASB) which meets the following gradation on all maps unless otherwise directed by the Engineer.

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

Construction Methods

Obtain material from within the project limits or approved borrow source. Material 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 for 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, seeding and mulching and for all labor, tools, equipment, and incidentals necessary to complete the work. Where ASB is used, seeding and mulching will not be required.

Incidental Stone Base will be measured and paid for as provided in Article 545-6 of the *Standard Specifications*. If ASB is used for Incidental Stone Base, payment will be made for Aggregate Shoulder Borrow.

Payment will be made under:

Pay Item
Shoulder Reconstruction
Aggregate Shoulder Borrow

Pay Unit Shoulder Mile 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.

| TABLE 605-1 APPLICATION RATES FOR TACK COAT | | |
|---|--------------------|--|
| Target Rate (gal/sy) | | |
| Existing Surface | Emulsified Asphalt | |
| 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.

| TABLE 605-2 APPLICATION TEMPERATURE FOR TACK COAT | | |
|--|-------------|--|
| Asphalt Material Temperature Range | | |
| 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%20 Mix%20Asphalt%20Approved%20List.pdf

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

| TABLE 610-1 DESIGN MIXING TEMPERATURE AT THE ASPHALT PLANT ^A | | | | |
|--|------------------------------|-------------|--|--|
| Binder Grade | WMA JMF Temperature Range | | | |
| 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:

| TABLE 610-5 PLACEMENT TEMPERATURES FOR ASPHALT | | | |
|--|---|--|--|
| Asphalt Concrete Mix Type | Asphalt Concrete Mix Type Minimum Surface and Air Temperature | | |
| 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:

| TABLE 650-1 OGAFC GRADATION CRITERIA | | | | |
|--|-----------|--------------------|--------------------|--|
| Grading Requirements Total Percent Passing | | | | |
| Sieve Size (mm) | Type FC-1 | Type FC-1 Modified | Type FC-2 Modified | |
| 19.0 | <u> </u> | _ | 100 | |
| 12.5 | 100 | 100 | 80 - 100 | |
| 9.50 | 75 - 100 | 75 - 100 | 55 - 80 | |
| 4.75 | 25 - 45 | 25 - 45 | 15 - 30 | |
| 2.36 | 5 - 15 | 5 - 15 | 5 - 15 | |
| 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)

600

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 \$ 580.67 per ton.

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

ASPHALT CONCRETE SURFACE COURSE COMPACTION:

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

SP6 R49R

Compact the asphalt surface course on this project in accordance with Subarticle 610-9 of the 2012 Standard Specifications and the following provision:

Perform the first rolling with a steel wheel roller followed by rolling with a self-propelled pneumatic tired roller with the final rolling by a steel wheel roller.

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.

TRENCHING FOR BASE COURSE:

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

610

SP6 R79AR

Perform all trenching necessary to place the asphalt concrete base 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 base course on the same day that the base course is to be placed. If the base 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 base 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 Base Course*, *Type* .

ASPHALT CONCRETE SURFACE COURSE, TYPE xxx (Leveling Course):

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

610

SP6 R85R

Place a leveling course of Asphalt Concrete Surface Course, Type ____ at locations shown on the sketch maps and as directed by the Engineer. The rate of this leveling course is not established but will be determined by allowing the screed to drag the high points of the section. It is anticipated that some map numbers will be leveled from beginning to end while others may only require a leveling course for short sections.

The Asphalt Concrete Surface Course, Type __ (Leveling Course) shall meet the requirements of Section 610 of the 2012 Standard Specifications except payment will be made at the contract unit price per ton for Asphalt Concrete Surface Course, Type (Leveling Course).

PATCHING EXISTING PAVEMENT (Div. 12 SP)

(REV.)

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, and pavement removal, as directed by the Engineer.

Construction Methods

The Contractor's attention is directed to the fact that all patching of existing pavement performed under this contract shall be performed with the use of a milling machine. This machine shall have a minimum cutting width of 36", be of sufficient size and capacity to perform the work. The machine shall have been designed and built exclusively for pavement milling operations and shall have sufficient power, traction and stability to accurately maintain depth of cut and slope. Multiple passes may be required to remove deteriorated pavement.

Milling width and depth will be varied by Engineer's representative to accomplish desired results. Payment will be made for the area delineated by the Engineer. Any overages resulting from equipment limitations will not be compensated.

Patching of existing pavement includes but is not limited to the **milling** of the existing pavement to a neat vertical joint and uniform line; the removal and disposal of pavement, base, and subgrade material as approved or directed by the Engineer; the coating of the area to be repaired with a tack coat; and the replacement of the removed material with asphalt plant mix.

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, then use Asphalt Surface Course in the top 1.25 inches of the patch.

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

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.

Method of Measurement

The quantity of patching existing pavement to be paid for will be the actual number of tons of asphalt plant mix, complete in place, which 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.

Basis of Payment

The quantity of patching existing pavement, measured as provided above, will be paid for at the contract unit price per ton for "Patching Existing Pavement".

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 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.

Any provisions included in the contract in the form of project special provisions or in any other form which provide 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

PATCHING EXISTING MILLED RUMBLE STRIPS:

In order to completely fill in the depressed areas, the Contractor shall patch the existing milled rumble strips prior to paving operations as directed by the Engineer.

Patch material shall meet the requirements of Section 610 of the Standard Specifications for Asphalt Concrete Surface Course, Type S4.75A.

No separate payment will be made for Patching Existing Milled Rumble Strips as the cost of such work shall be incidental to other paying items in the contract.

ASPHALT CONCRETE SURFACE COURSE, TYPE S4.75A:

(2-21-12) (Rev. 6-19-12)

610 1012

SP1 6-09

Revise the 2012 Standard Specifications as follows:

Page 6-21, Table 610-2, SUPERPAVE AGGREGATE GRADATION CRITERIA, add the following:

| | Mix Type (Nominal l | Max. Aggregate Size) | |
|----------------------|---|--|--|
| Standard Sieves (mm) | 4.75 mm | | |
| | Min. | Max. | |
| 50.0 | The second control of | The state of the s | |
| 37.5 | _ | _ | |
| 25.0 | • | | |
| 19.0 | - | - | |
| 12.5 | 100.0 | - | |
| 9.50 | 95.0 | 100.0 | |
| 4.75 | 90.0 | 100.0 | |
| 2.36 | - | - | |
| 1.18 | 30.0 | 60.0 | |
| 0.600 | | · - | |
| 0.300 | • | - | |
| 0.150 | _ | - | |
| 0.075 | 6.0 | 12.0 | |

Page 6-22, Table 610-3, SUPERPAVE MIX DESIGN CRITERIA, add the following:

| Mix | Design ESALs | Binder PG | Le | oaction vels m @ | Max. Rut | VMA | olumetri VTM | c Propert VFA | ies %G _{mm} |
|--------|-----------------------|--------------|-----------|------------------------|---------------|-----------|-----------------|------------------|-------------------------|
| Type | millions Grad | Grade | N_{ini} | N _{des} | Depth (mm) | % Min. | V/a | Min Max. | @ N _{ini} |
| S4.75A | For Pilot Program: | 64-22 | 6 | . 50 | - | 16.0 | 4.0 - 6.0 | 65 - 80 | ≤91.5 |

Page 6-22, Table 610-3, SUPERPAVE MIX DESIGN CRITERIA, replace line 4, note C, with the following:

C. TSR for Type S4.75A and Type B25.0 mixes is 80% minimum.

Page 6-23, Table 610-5, PLACEMENT TEMPERATURES FOR ASPHALT, replace "SF9.5A, S9.5B" in the "Asphalt Concrete Mix Type" column with "S4.75A, SF9.5A and S9.5B".

Page 6-28, Table 610-6, SUPERPAVE DENSITY REQUIREMENTS, add the following:

| Superpave Mix Type | Minimum % of G _{mm} (Maximum Specific Gravity) |
|--------------------|---|
| S4.75A | 85.0(a) |

(a) Compaction to the above specified density will be required when the S4.75A mix is applied at a rate of 100 lb/sy or greater.

Page 10-26, Subarticle 1012-1(B)(4), FLAT AND ELONGATED PIECES, replace line 44, "for Types SF9.5A and S9.5B.", with the following:

"for Types S4.75A, SF9.5A and S9.5B."

Page 10-27, Table 1012-1, AGGREGATE CONSENSUS PROPERTIES, add the following:

| Mix Type | Coarse Aggregate Angularity | Fine Aggregate Angularity % Minimum | Sand Equivalent % Minimum | Flat & Elongated 5:1 Ratio % Maximum |
|-------------|-----------------------------------|---|------------------------------|--------------------------------------|
| Test Method | ASTM D 5821 | AASHTO T 304 | AASHTO T 176 | ASTM D 4791 |
| S4.75A | - | 40 | 40 | - |

ADJUSTMENT OF MANHOLES, METER BOXES, AND VALVE BOXES:

7-1-95 (REV.)

The Contractor's attention is directed to Article 858-3 of the *Standard Specifications*. Cast iron or steel fittings (rings) will **not** be permitted for the adjustment of manholes, meter boxes, and valve boxes on this project.

Make adjustments to manholes on this project using high early strength, rapid set (grout, mortar, or concrete) **that is black in color** as approved by the Engineer. Bag mixes must be approved by the Engineer before use.

When milling roadway all existing manhole frames, rings, valve boxes, and meter boxes shall be removed and those areas covered with steel plates capable of carrying traffic. Once the asphalt surface course has been placed, the steel plate shall be removed and all manholes, meter boxes, and valve boxes shall be adjusted to finish grade of the new pavement.

All manhole adjustments shall be completed within fourteen (14) calendar days from the time the paving is completed.

DETECTABLE WARNINGS TO RETROFIT EXISTING CURB RAMPS:

(10-21-03) (Rev. 8-16-11)

848

SP8 R125

Description

Construct detectable warnings consisting of raised truncated domes to retrofit existing curb ramps in accordance with the plan details, Section 848 of the 2012 Standard Specifications, the requirements of the 28 CFR Part 36 ADA Standards for Accessible Design and these provisions.

Materials

Detectable warning for retrofitting existing curb ramps shall consist of raised truncated domes. The description, size and spacing shall conform to Section 848 of the 2012 Standard Specifications.

Use material for detectable warning systems as shown herein. Material and coating specifications must be stated in the Manufacturers Type 3 Certification and all Detectable Warning systems must be on the NCDOT Approved Products List.

Install detectable warnings created from one of the following materials: precast concrete blocks or bricks, clay paving brick, gray or ductile iron castings, mild steel, stainless steel, and engineered plastics, rubber or composite tile. Only one material type for detectable warning will be permitted per project, unless otherwise approved by the Engineer.

- (A) Detectable Warnings shall consist of a base with integrated raised truncated domes, and when constructed of precast concrete they shall conform to the material requirements of Article 848-2 of the 2012 Standard Specifications.
- (B) Detectable Warnings shall consist of a base with integrated raised truncated domes, and may be comprised of other materials including, but not limited to, clay paving brick, gray iron or ductile iron castings, mild steel, stainless steel, and engineered plastics, rubber or composite tile, which are applied directly to the curb ramps by incorporating into or attaching to the existing ramp floor. The material shall have an integral color throughout the thickness of the material. The detectable warning shall include fasteners, anchors, or adhesives for attachment in the existing ramp and shall be furnished as a system from the manufacturer.

Prior to installation, the Contractor shall submit to the Engineer assembling instructions from the manufacturer for each type of system used in accordance with Article 105-2 of the 2012 Standard Specifications. The system shall be furnished as a kit containing all consumable materials and consumable tools, required for the application. They shall be capable of being affixed to or anchored in the concrete curb ramp, including green concrete (concrete that has set but not appreciably hardened). The system shall be solvent free and contain no volatile organic compounds (VOC). The static coefficient of friction shall be 0.8 or greater when measured on top of the truncated domes and when measured between the domes in accordance with ASTM C1028 (dry and wet). The

system shall be resistant to deterioration due to exposure to sunlight, water, salt or adverse weather conditions and impervious to degradation by motor fuels, lubricants and antifreeze.

(C) When steel or gray iron or ductile iron casting products are provided, only products that meet the requirements of Subarticle 106-1(B) of the 2012 Standard Specifications may be used. Submit to the Engineer a Type 6 Certification, catalog cuts and installation procedures at least 30 days prior to installation for all.

Construction Methods

- (A) Prior to placing detectable warnings in existing concrete curb ramps, saw cut to the full depth of the concrete, for other material remove as necessary, and adjust the existing subgrade to the proper grade and in accordance with Article 848-3 of the 2012 Standard Specifications.
- (B) Install all detectable warning to retrofit existing curb ramps in accordance with the manufacturer's recommendations.

Measurement and Payment

Retrofit Existing Curb Ramps with detectable warnings constructed of any type material will be paid as the actual number of retrofitted curb ramps, completed and accepted. Such price and payment will be full compensation for excavating and backfilling; sawing, repairing and replacing portions of the existing curb ramp within the pay limits for retrofit shown on the detail; pavement repairs; furnishing and placing detectable warnings, construction joints and removing and disposing of portions of the existing curb ramp when required and for all materials, labor, equipment, tools and incidentals necessary to complete the work.

Payment will be made under:

Pay Item

*

Retrofit Existing Curb Ramp

Pay Unit

Each

DETECTABLE WARNINGS FOR PROPOSED CURB RAMPS:

(6-15-10) (Rev. 8-16-11)

848

SP8 R126

Description

Construct detectable warnings consisting of integrated raised truncated domes on proposed concrete curb ramps in accordance with the 2012 Standard Specifications, plan details, the requirements of the 28 CFR Part 36 ADA Standards for Accessible Design and this provision.

Materials

Detectable warning for proposed curb ramps shall consist of integrated raised truncated domes. The description, size and spacing shall conform to Section 848 of the 2012 Standard Specifications.

Use material for detectable warning systems as shown herein. Material and coating specifications must be stated in the Manufacturers Type 3 Certification and all Detectable Warning systems must be on the NCDOT Approved Products List.

Install detectable warnings created from one of the following materials: precast concrete blocks or bricks, clay paving brick, gray or ductile iron castings, mild steel, stainless steel, and engineered plastics, rubber or composite tile. Only one material type for detectable warning will be permitted per project, unless otherwise approved by the Engineer.

- (A) Detectable Warnings shall consist of a base with integrated raised truncated domes, and when constructed of precast concrete they shall conform to the material requirements of Article 848-2 of the 2012 Standard Specifications.
- (B) Detectable Warnings shall consist of a base with integrated raised truncated domes, and may be comprised of other materials including, but not limited, to clay paving brick, gray iron or ductile iron castings, mild steel, stainless steel, and engineered plastics, rubber or composite tile, which are cast into the concrete of the curb ramps. The material shall have an integral color throughout the thickness of the material. The detectable warning shall include fasteners or anchors for attachment in the concrete and shall be furnished as a system from the manufacturer.

Prior to installation, the Contractor shall submit to the Engineer assembling instructions from the manufacturer for each type of system used in accordance with Article 105-2 of the 2012 Standard Specifications. The system shall be furnished as a kit containing all consumable materials and consumable tools, required for the application. They shall be capable of being affixed to or anchored in the concrete curb ramp, including green concrete (concrete that has set but not appreciably hardened). The system shall be solvent free and contain no volatile organic compounds (VOC). The static coefficient of friction shall be 0.8 or greater when measured on top of the truncated domes and when measured between the domes in accordance with ASTM C1028 (dry and wet). The system shall be resistant to deterioration due to exposure to sunlight, water, salt or adverse weather conditions and impervious to degradation by motor fuels, lubricants and antifreeze.

(C) When steel or gray iron or ductile iron casting products are provided, only products that meet the requirements of Subarticle 106-1(B) of the 2012 Standard Specifications may be used. Submit to the Engineer a Type 6 Certification, catalog cuts and installation procedures at least 30 days prior to installation for all.

Construction Methods

- (A) Prior to placing detectable warnings in proposed concrete curb ramps, adjust the existing subgrade to the proper grade and in accordance with Article 848-3 of the 2012 Standard Specifications.
- (B) Install all detectable warning in proposed concrete curb ramps in accordance with the manufacturer's recommendations.

Measurement and Payment

Detectable Warnings installed for construction of proposed curb ramps will not be paid for separately. Such payment will be included in the price bid for *Concrete Curb Ramps*.

MATERIALS:

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:

| | | | REA | TA UIREMEI | BLE 1000 NTS FOR | | RETE | | | | |
|-------------------------------------|---|---|---------------------------|---|-----------------------------------|---|---------------------|----------------|--|---------------|--------------|
| Class of Concrete Min. Comp. | | Maximum Water-Cement Ratio | | | | | sistency . Slump | Cement Content | | | |
| | Ain. Comp. Strength at 28 days | | Air-Entrained Concrete | | Non Air- Entrained Concrete | | Non- Vibrated | Vibrated | | Non- Vibrated | |
| | X , a | Rounded Aggregate | Angular Aggre- gate | Rounded Aggregate | Angular Aggre- gate | Vibrated | Non- | Min. | Max. | Min. | Max. |
| Units | psi | Listano de la referenza di serromano con constante di | | | <u> </u> | inch | inch | lb/cy | lb/cy | lb/cy | lb/cy |
| 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 7-9 wet | - | - | 640 | 800 |
| Α | 3,000 | 0.488 | 0.532 | 0.550 | 0.594 | 3.5 | 4 | 564 | - | 602 | - |
| В | 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 7 day | 0.400 | 0.400 | | - | 6 | - | 658 | - | - | - |
| Flowable Fill excavatable | 150 max. 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 650 flexural, design only | 0.559 | 0.559 | Commission in the contract of the commission of | - | 1.5 slip form 3.0 hand place | _ | 526 | The second secon | | - |
| 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:

| weight | Lignt | (M) | 100 | ARC | ABC - 100 75- | 9 | 14M | 78M | 67 - 100 | 6M 100 | 57M - 100 95- | 57 - 100 95- | 5 - 100 90- | 467M 100 95 | 4 100 90- 20- 100 55 | Std. 2" 1 1" Size # 2" 1/2" 1" | | A (|
|--|----------|-----|---------------------------|-----|--|-------------------|---|---|--|------------|------------------------|--|-----------------------------|-------------------|-------------------------|--------------------------------|---------------------------------------|--|
| | 1 | | | | 7 7 | 1 | ı | 100 | 90- 100 | 90- 100 | , Q , | , 0 , |)- 20-)0 55 | 35- 70 |)- 5 0-15 | 3/4" | | AGGREGATE GRADATION - COARSE AGGREGATE |
| | 100 | 79 | 45- | 'n | 55 <u>-</u> | ı | | 98 - 100 | F | 20- 55 | 25- 45 | 25- 60 | 0-10 | • | | 1/2" | Percentage of Total by Weight Passing | ATE (|
| 100 | 7 80- | | | | ı | 100 | 100 | 75- 100 | 20 <u>-</u> 55 | 0-20 | • | 1 | 0-5 | 0-30 | 0-5 | 3/8" | tage o | GRAD |
| 40 | 5- 40 | 40 | 20- | 3 | 35 <u>-</u> 55 | 85- 100 | 35- 70 | 20- 45 | 0-10 | 0-8 | 0-10 | 0-10 | ı | 0-5 | ı | # | f Tota | ATIC |
| The second secon | 0-20 | | • | | | 10 - 40 | 5-20 | 0-15 | 0-5 | • | 0-5 | 0-5 | ı | 1 | 1 | # | l by V | N-C |
| | 1 | 25 | ç | > | 25- 45 | 1 | ı | 1 | | 1 | | ı | ı | 1 | ı | #10 | Veigh | OAR |
| | 0-10 | | | | 1 | 0-10 | 0-8 | 1 | . 1 | 1 | ı | 1 | ı | ı | • | #16 | t Passi | SE AC |
| | 1 | | ı | | 30 30 | • | ı | ı | 1 | ı | • | ı | ı | 1 | • | #40 | ing | GRE |
| | 0-2.5 | 126 | , <u>-</u> | > | 4- 12 B | Α | Α | Α | A | Α | A | A | A | > | Α | #200 | | GATI |
| | AST | | Maintenance Stabilization | | Aggregate Base Course, Aggregate Stabilization | AST | Aspnant Plant Mix, AST, Weep Hole Drains, Str. Concrete | Asphalt Plant Mix, AST, Str. Conc, Weep Hole Drains | AST, Str. Concrete, Asphalt Plant Mix | AST | AST, Concrete Pavement | AST, Str. Concrete, Shoulder Drain, Sediment Control Stone | AST, Sediment Control Stone | Asphalt Plant Mix | Asphalt Plant Mix | Remarks | | |

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:

| N. C. | | | BLE 1056-1 LE REQUIR | EMENTS | | |
|---|--|-----------------------------------|--|-----------------------------------|---|---------------|
| Property | | Requ | uirement (MA | ARV ^A) | | |
| Troperty | Type 1 Type 2 | | Type 3 ^B | Type 4 | Type 5 ^C | Test |
| Typical Application | Shoulder Drains | Under Rip Rap | Temporary Silt Fence | Soil Stabilization | Temporary Walls | Method |
| Elongation (MD & CD) | ≥ 50% | ≥ 50% | ≤ 25% | < 50% | < 50% | ASTM D4632 |
| Grab Strength (MD & CD) | | | 100 lb | | - | ASTM D4632 |
| Tear Strength (MD & CD) | Table 1 ^D , Class 3 | Table 1 ^D , Class 1 | —————————————————————————————————————— | Table 1 ^D , Class 3 | - | ASTM D4533 |
| Puncture Strength | ORAC THE THE PROPERTY OF THE P | | | | | ASTM D6241 |
| Ultimate Tensile Strength (MD & CD) | - | - | • | - | 2,400 lb/ft (unless required otherwise in the contract) | ASTM D4595 |
| Permittivity | 1 | e 2 ^D , | | | 0.20 sec ⁻¹ | ASTM D4491 |
| Apparent Opening Size | 15% to 50% in Situ Soil Passing No. 200 ^E | | Table 7 ^D | Table 5 ^D | No. 30 ^E | ASTM D4751 |
| UV Stability | rassing. | 1NO. ZUU | | , | 70% | ASTM |

| (Retained | | | PHONORICAL PROPERTY OF THE PRO | D4355 |
|-----------|--|---|--|-------|
| Strength) | | 1 | | |

- **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:

| TABLE 1078-1 REQUIREMENTS FOR CONCRETE | | | | | | | |
|---|---|---|--|--|--|--|--|
| Property | 28 Day Design Compressive Strength 6,000 psi or less | 28 Day Design Compressive Strength greater than 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:

| 441 | Maximum Water Absorption (%) | Min. Compressive Strength of 2" mortar cubes at 7 days | Min. Compressive Strength of 2". mortar cubes at 24 hours | Tensile Elongation at 7 days (%) | Minimum Tensile Strength at 7 days (psi) | Pot Life (Minutes) | Speed (RPM) | Spindle No. | Viscosity-Poises at 77°F ± 2°F | Property | |
|--------------------------------|------------------------------|--|---|----------------------------------|--|--------------------|-------------|-------------|--------------------------------|------------|---|
| Min. Bond Strength Slant Shear | ion (%) | gth of ays | gth of lours | ıys (%) | gth at | | | | ± 2°F | | |
| 1,500 | 1.5 | 5,000 (Neat) | 3,000 (Neat) | 30 min. | 1,500 | 20-50 | | • | Ge] | Type 1 | Properties |
| 1,500 | 1.0 | • | 4,000- | 30 min. | 2,000 | 30-60 | 20 | 3 | 10-30 | Type 2 | Table 1081-1 Properties of Mixed Epoxy Resin Systems |
| 2,000 | 1.0 | \ 1 | 6,000- | 2-5 | 4,000 | 20-50 | 20 | 4 | 25-75 | Type 3 | 081-1 poxy Resin |
| 2,000 | 1.5 | ı | 6,000 (Neat) | 2-5 | 4,000 | 5-50 | 1 | ŀ | Ge] | Type 3A | Systems |
| 1,500 | 1.0 | ı | 3,000 | 5-15 | 1,500 | 40-80 | 10 | . , 4 | 40-150 | Type 4A | |
| 1,500 | 1.0 | 5,000 | 3,000 | 5-15 | 1,500 | 40-80 | 10 | 4 | 40-150 | Type 4B | |
| 1,500 | 1.0 | ı | 6,000 | 2-5 | 4,000 | 20-60 | 50 | 2 | 1-6 | Type 5 | |

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:

| TABLE 1092-3 MINIMUM COEFFICIENT OF RETROREFLECTION FOR NC GRADE A (Candelas Per Lux Per Square Meter) | | | | | | | | | |
|--|-------------------------------|-------|--------|-------|-----|------|-----------------------------|-----------------------|--|
| 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 | |

TRUCK MOUNTED CHANGEABLE MESSAGE SIGNS:

(8-21-12)

101.02

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.

WORK ZONE TRAFFIC CONTROL GENERAL REQUIREMENTS

TEMPORARY TRAFFIC CONTROL (TTC):

(7-16-13) (Rev. 7-15-14)

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.

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.

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".
- 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*. 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, 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.

Payment will be made under:

Pay Item Pay Unit

Temporary Traffic Control Lump Sum
Work Zone Advance/General Warning Signing Square Foot

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.

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,

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 In

E27CE30E1DFC442...

4/29/2014



STABILIZATION REQUIREMENTS:

(11-4-11) S-3

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:

(West)

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.

Shoulder and Median Areas

| August 1 - | June 1 | May 1 - September 1 | | | |
|------------|--------------------|---------------------|---------------------------|--|--|
| 20# | Kentucky Bluegrass | 20# | Kentucky Bluegrass | | |
| 75# | Hard Fescue | 75# | Hard Fescue | | |
| 25# | Rye Grain | 10# | German or Browntop Millet | | |
| 500# | Fertilizer | 500# | Fertilizer | | |
| 4000# | Limestone | 4000# | Limestone | | |

Areas Beyond the Mowing Pattern, Waste and Borrow Areas

| August 1 - | August 1 - June 1 | | eptember 1 |
|------------|--------------------|-------|---------------------------|
| 100# | Tall Fescue | 100# | Tall Fescue |
| 15# | Kentucky Bluegrass | 15# | Kentucky Bluegrass |
| 30# | Hard Fescue | 30# | Hard Fescue |
| 25# | Rye Grain | 10# | German or Browntop Millet |
| 500# | Fertilizer | 500# | Fertilizer |
| 4000# | Limestone | 4000# | Limestone |

Approved Tall Fescue Cultivars

| 2 nd 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 | |

Approved Kentucky Bluegrass Cultivars

| Alpine | Bariris | Envicta | Rugby |
|---------|------------|-------------|----------|
| Apollo | Bedazzled | Impact | Rugby II |
| Arcadia | Bordeaux | Kenblue | Showcase |
| Arrow | Champagne | Midnight | Sonoma |
| Award | Chicago II | Midnight II | |

Approved Hard Fescue Cultivars

| Chariot | Nordic | Rhino | Warwick |
|----------|------------|------------|---------|
| Firefly | Oxford | Scaldis II | |
| Heron | Reliant II | Spartan II | |
| Minotaur | Reliant IV | Stonehenge | |

On cut and fill slopes 2:1 or steeper add 20# Sericea Lespedeza 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.

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 <u>NOT</u> 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 <u>found</u> pure seed and <u>found</u> 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:

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

Kobe Lespedeza Korean Lespedeza Weeping Lovegrass

Carpetgrass

Bermudagrass
Browntop Millet

German Millet – Strain R Clover – Red/White/Crimson

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 Japanese Millet Reed Canary Grass

Pensacola Bahiagrass

Zoysia

Creeping Red Fescue

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

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".

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.

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.

I WENT I FIVE CENTS (\$7.25) per nour

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.

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.

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.

County: Lincoln

| Line # | Item Number | Sec # | Description | Quantity | Unit Cost | Amount |
|-----------|--------------|---------------------------------------|--|---|-----------|----------|
| | | ı | ROADWAY ITEMS | | | |
| 0004 | | | | | | |
| 0001 | 0000100000-N | 800 | MOBILIZATION | Lump Sum | L.S. | |
| 0002 | 0255000000-E | SP | GENERIC GRADING ITEM AGGREGATE SHOULDER BORROW | 1,990 | | |
| ** | | | | TON | | |
| 0003 | 1220000000-E | 545 | INCIDENTAL STONE BASE | 380 TON | | |
| 0004 | 1245000000-E | SP | SHOULDER RECONSTRUCTION | 38.3 | | <u>.</u> |
| | | | | SMI | | |
| 0005 | 1297000000-E | 607 | MILLING ASPHALT PAVEMENT, ***" DEPTH | 4,550 SY | | |
| | | | (1-1/2") | 31 | • | |
| 0006 | 1297000000-E | 607 | | 7,700 | | |
| | | | DEPTH (3") | SY | | |
| 0007 | 1297000000-E | 607 | MILLING ASPHALT PAVEMENT, ***" | 96,500 | | |
| | 1257000000 E | 007 | DEPTH (3/4") | SY | | |
| | | · · · · · · · · · · · · · · · · · · · | | *************************************** | | |
| 8000 | 1330000000-Е | 607 | INCIDENTAL MILLING | 5,825 SY | | |
| 0009 | 1489000000-E | 610 | ASPHALT CONC BASE COURSE, TYPE | | | |
| | | | B25.0B | TON | | |
| 0010 | 1519000000-E | 610 | ASPHALT CONC SURFACE COURSE, | 16,235 | | |
| | | | TYPE S9.5B | TON | | |
| 0011 | 1520000000-E | SP | ASPHALT CONC SURFACE COURSE, TYPE S9.5B (LEVELING COURSE) | 2,550 | | |
| | | | TTPE 39.30 (LEVELING COURSE) | TON | | |
| 0012 | 1523000000-E | 610 | ASPHALT CONC SURFACE COURSE, TYPE S9.5C | 9,766 | | |
| | | | | TON | | |
| 0013 | 1524000000-E | SP | ASPHALT CONC SURFACE COURSE, TYPE S9.5C (LEVELING COURSE) | 1,000 TON | | |
| | | | | | | |
| 0014 | 1575000000-Е | 620 | ASPHALT BINDER FOR PLANT MIX | 1,818 TON | | |
| 0015 | 1704000000-E | SP | PATCHING EXISTING PAVEMENT | 4,750 | | |
| | | ~ | | TON | | ** |
| 0016 | 1840000000-E | 665 | MILLED RUMBLE STRIPS (ASPHALT CONCRETE) | 53,500 L F | | |
| | | | | | | |
| 0017 | 2600000000-N | SP | RETROFIT EXISTING CURB RAMP | 9 . EA | | |
| | | | | · | | |

County: Lincoln

| Line # | Item Number | Sec # | Description | Quantity | Unit Cost | Amount |
|-----------|--------------|------------|---|---------------|-----------|--------|
| | | | | | | |
| 0018 | 2605000000-N | 848 | CONCRETE CURB RAMP | 5 EA | | |
| 0019 | 2815000000-N | 858 | ADJUSTMENT OF DROP INLETS | 3 EA | | |
| 0020 | 2830000000-N | 858 | ADJUSTMENT OF MANHOLES | 6 EA | | |
| 0021 | 2845000000-N | 858 858 | ADJUSTMENT OF METER BOXES OR VALVE BOXES | 5 EA | | |
| 0022 | 4413000000-E | SP | WORK ZONE ADVANCE/GENERAL WARNING SIGNING | 1,908 SF | | |
| 0023 | 4457000000-N | SP | TEMPORARY TRAFFIC CONTROL | Lump Sum | L.S. | |
| 0024 | 4510000000-N | SP | LAW ENFORCEMENT | 30 HR | | |
| 0025 | 4685000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS) | 10,200 LF | | |
| 0026 | 4686000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS) | 15,250 LF | | |
| 0027 | 4688000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) | 63,000 LF | | · |
| 0028 | 4690000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (6", 120 MILS) | 7,500 LF | | |
| 0029 | 4697000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS) | 300 LF | | |
| 0030 | 4700000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS) | 1,750 LF | | |
| 0031 | 4710000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS) | 360 LF | | |
| 0032 | 4721000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS) | 6 EA | | |
| 0033 | 4725000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) | 22 EA | | |
| 0034 | 4810000000-E | 1205 | PAINT PAVEMENT MARKING LINES (4") | 561,800 LF | | |

Jun 02, 2014 1:13 pm

1313/Jun02/Q870158.3/D99727100000/E35

ITEMIZED PROPOSAL FOR CONTRACT NO. C203579

Page 3 of 3

County: Lincoln

Line Item Number Sec Description Quantity Unit Cost Amount

0035 4905000000-N 1253 SNOWPLOWABLE PAVEMENT MARKERS 550
EA

Total Amount Of Bid For Entire Project :

Vendor 1 of 4: BLYTHE CONSTRUCTION, INC. (3655) Call Order 007 (Proposal: C203579)

Bid Information

County: LINCOLN

Address: P.O. Box 31635

Charlotte, NC, 28231

Signature Check: JAMES_PAUL_McBRYDE_3655

Time Bid Received: July 15, 2014 01:03 PM

Amendment Count: 0

Bidding Errors: None.

MBE GOAL SET 5.0

Bid Checksum: 702CC9D7

Time Total: \$0.00

Bid Total: \$2,976,331.00

Items Total: \$2,976,331.00

MBE GOAL MET 5.0

WBE GOAL SET 6.0

WBE GOAL MET 6.0

Vendor 1 of 4: BLYTHE CONSTRUCTION, INC. (3655) Call Order 007 (Proposal: C203579)

Bid Bond Information

Projects:

Counties:

Bond ID: SNC14629249

Paid by Check: No

Bond Percent: 5%

Bond Maximum:

State of Incorporation:

Agency Execution Date: 6/18/2014 4

Surety Name: surety2000

Bond Agency Name: Travelers Casualty and Surety

Company of America

Vendor 3655's Bid Information for Call 007, Letting L140715, 07/15/14

Blythe Construction, Inc. (3655) Call Order 007 (Proposal ID C203579)

LIST OF MBE PARTICIPANTS

VENDOR DBE NAME

WORK

CERT

NUMBER ADDRESS

CODE TYPE OF WORK

TYPE AMOUNT

10869 MB SK HAULING LLC

Sub

^{148,817.00} Committed

188 DOUBLE SPRING LANE , LEXINGTON, NC 27295

TOTAL: \$148,817.00

5.00%

Vendor 3655's Bid Information for Call 007, Letting L140715, 07/15/14

Blythe Construction, Inc. (3655) Call Order 007 (Proposal ID C203579)

LIST OF WBE PARTICIPANTS

VENDOR DBE NAME

WORK

CERT

NUMBER ADDRESS

CODE TYPE OF WORK

TYPE AMOUNT

4761 WB TRAFFIC CONTROL SAFETY SERVICES

22,000.00

Committed

POST OFFICE BOX 24511 , WINSTON-SALEM, NC 27114

Sub Sub

156,687.25

Committed

4221 WB MORETZ HAULING, INC

4596 MACEDONIA CHRUCH ROAD , VALE, NC 281688709

TOTAL: \$178,687.25

6.00%

Vendor 3655's Bid Information for Call 007, Letting L140715, 07/15/14

Blythe Construction, Inc. (3655) Call Order 007 (Proposal ID C203579)

Miscelleneous Data Info - Contractor Responses:

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 acknowleges 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: SNC14629249

Surety Registry Agency: surety2000

Verified?: Yes

Surety Agency: Travelers Casualty and Surety Company of America

Bond Execution Date: 6/18/2014 4

Bond Amount: \$148,816.55 (Five Percent of Bid)

State of NC Date: 06-17-14 Dept of Transportation Revised:

Contract ID: C203579 Project(s): STATE FUNDED

Letting Date: 07-15-14 Call Order: 007 Bidder: 3655 - Blythe Construction, Inc.

| + | | | | | + |
|------|-------------|---|-----------|-----------------------------|---|
| Line | Item | 1 | Approx. | Unit Price Bid Amount | 1 |
| No. | Description | 1 | Quantity | | 1 |
| 1 | | 1 | and Units | Dollars Cts Dollars Ct | 1 |

Section 0001 ROADWAY ITEMS

| 1 | Alt Group | | | | |
|-----------|---|---------------|---------------------------|-------------------------------|---------------------------|
| 0001 | 0000100000-N MOBILIZATIO | LUMP | | LUMP | 29,500.00 |
| | 0255000000-E GENERIC GRADING ITEM AGGREGATE SHOULDER BORROW | TON | 1,990.000 1,990.000 | | 39,800.00 39,800.00 |
| | 1220000000-E INCIDENTAL STONE BASE | TON | 380.000 380.000 | 1.00000 | 380.00 |
| | 1245000000-E SHOULDER RECONSTRUCTION | SMI | 38.300 38.300 | 1,350.00000 1,350.00000 | 51,705.00 51,705.00 |
| | 1297000000-E MILLING ASPHALT PAVEMENT, ***"DEPTH (1-1/2") | SY | 4,550.000 | 2.55000 | 11,602.50 |
| 10006 | 1297000000-E MILLING ASPHALT PAVEMENT, ***"DEPTH (3") | SY | 7,700.000 | 3.50000 | 26,950.00 |
| | 1297000000-E MILLING ASPHALT PAVEMENT, ***"DEPTH (3/4") | SY | 96,500.000 | 0.90000 | 86,850.00 |
| | 133000000-E INCIDENTAL MILLING | SY | 5,825.000 | 7.00000 | 40,775.00 |
| 10009 | 1489000000-E ASPHALT CONC BASE COURSE, TYPE B25.0B | TON | 850.000 | 55.00000 | 46,750.00 |
| - | 1519000000-E ASPHALT CONC SURFACE COURSE, TYPE S9.5B | TON | 16,235.000 | 32.00000 | |

State of NC Date: 06-17-14 Dept of Transportation Revised:

Contract ID: C203579 Project(s): STATE FUNDED

Letting Date: 07-15-14 Call Order: 007 Bidder: 3655 - Blythe Construction, Inc.

| + Line | • | Approx. | Unit Price | Bid Amount |
|---------------|--|-------------------------------------|------------------------|--------------|
| No. + | Description | Quantity and Units | Dollars Cts | Dollars Ct |
| 0011 | 1520000000-E ASPHALT CONC SURFACE COURSE, TYPE S9.5B (LEVELING COURSE) | 2,550.000 2,550.000 TON | 34.00000 | 86,700.00 |
| 0012 | 1523000000-E ASPHALT CONC SURFACE COURSE, TYPE S9.5C | 9,766.000 TON | 32.00000 | 312,512.00 |
| 0013 | 1524000000-E ASPHALT CONC SURFACE COURSE, TYPE S9.5C (LEVELING COURSE) | 1,000.000 1,000.000 TON | 34.00000 | 34,000.00 |
| - | 1575000000-E ASPHALT BINDER FOR PLANT MIX | | 623.00000 | 1,132,614.00 |
| | 1704000000-E PATCHING EXISTING PAVEMENT | 4,750.000 TON | 65.00000 | 308,750.00 |
| 0016 | 1840000000-E MILLED RUMBLE STRIPS (ASPHALT CONCRETE) | 53,500.000 LF | 0.10000 | 5,350.00 |
| | 2600000000-N RETROFIT EXISTING CURB RAMP | | 385.00000 | 3,465.00 |
| • | 2605000000-N CONCRETE CURB RAMP | | 1,370.00000 | 6,850.00 |
| | 2815000000-N ADJUSTMENT OF DROP INLETS | 3.000 | | 2,850.00 |
| | 2830000000-N ADJUSTMENT OF MANHOLES | | 850.00000 | 5,100.00 |
| 0021 | 2845000000-N ADJUSTMENT OF METER BOXES OR VALVE BOXES | • | 820.00000 | 4,100.00 |

State of NC Date: 06-17-14 Dept of Transportation Revised:

Contract ID: C203579

Project(s): STATE FUNDED

Letting Date: 07-15-14 Call Order: 007 Bidder: 3655 - Blythe Construction, Inc.

| Line No. | • | | rox. tity | Unit Price | |
|-------------|--|-------------------------|--------------|---------------------|--------------------|
| | İ | and Units | | Dollars Cts | Dollars Ct |
| 0022 | 4413000000-E WORK ZONE ADVANCE/GENERAL WARNING SIGNING | 1 SF | ,908.000 | | 9,540.00 |
| | 4457000000-N TEMPORARY TRAFFIC CONTROL | LUMP | | LUMP | 50,000.00 |
| | 4510000000-n LAW ENFORCEMENT | HR | 30.000 | | 900.00 |
| 0025 | 4685000000-E THERMOPLAST IC PAVEMENT MARKINGLINES (4", 90 MILS) | | ,200.000 | 0.65000 | 6,630.00 |
| 0026 | 4686000000-E THERMOPLAST IC PAVEMENT MARKING LINES (4", 120 MILS) | 15 | ,250.000 | | 10,675.00 |
| 0027 | 4688000000-E THERMOPLAST IC PAVEMENT MARKINGLINES (6", 90 MILS) | 63 | ,000.000 | | 53,550.00 |
| 0028 | 4690000000-E THERMOPLAST IC PAVEMENT MARKINGLINES (6", 120 MILS) | | ,500.000 | 1.00000 | 7,500.00 |
| 0029 | 4697000000-E THERMOPLAST IC PAVEMENT MARKINGLINES (8", 120 MILS) | • | 300.000 | 2.50000 | 750.00 |
| 0030 | 4700000000-E THERMOPLAST IC PAVEMENT MARKINGLINES (12", 90 MILS) | • | ,750.000 | 1.75000 | 3,062.50 |
| 0031 | 4710000000-E THERMOPLAST IC PAVEMENT MARKINGLINES (24", 120 MILS) | | 360.000 | 7.00000 | 2,520.00 |
| 0032 | 4721000000-E THERMOPLAST IC PAVEMENT MARKINGCHARACTER (120 MILS) | EA | 6.000 | 125.00000 | 750.00 750.00 |

State of NC

Date: 06-17-14 Dept of Transportation Revised:

Contract ID: C203579

Project(s): STATE FUNDED

Letting Date: 07-15-14 Call Order: 007 Bidder: 3655 - Blythe Construction, Inc.

| • | | Approx. | Unit Price | Bid Amount | |
|---|------------------|-------------------------|-----------------|--------------|--|
| No. Description | 1 | Quantity and Units | Dollars Cts | Dollars Ct | |
| 4725000000-E THERMOPLAS' 0033 IC PAVEMENT MARKINGSYMBO | • | | 125.00000 | 2,750.00 | |
| 4810000000-E PAINT 0034 PAVEMENT MARKING LINES (4") | LF | 561,800.000 | 0.10000 | 56,180.00 | |
| 4905000000-n SNOWPLOWAB 0035 E PAVEMENT MARKERS | L EA | 550.000 | 28.00000 | 15,400.00 | |
| | | | | 2,976,331.00 | |
| | | | | 2,976,331.00 | |

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 acknowleges 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:06-17-14

PAGE: 7

PROPOSAL: C203579

LETTING: L140715 CALL: 007

VENDOR: 3655 Blythe Construction, Inc.

| LINE ITEM NO. NO. | ITEM DESC. | UNIT SUBCONTRACTOR TYPE QUANTITY | SUBCONTRACTOR UNIT PRICE | EXTENDED AMOUNT |
|---|--|---|--|--|
| MBE SUBCONTRACTOR: Will Use Quote: Ye | | JLING LLC | | · · · · · · · · · · · · · · · · · · · |
| 0002 0255000000-E 0005 1297000000-E 0006 1297000000-E 0007 1297000000-E 0008 1330000000-E 0012 1523000000-E 0015 1704000000-E | GENERIC GRAD MILL ASP PVM MILL ASP PVM MILL ASP PVM INCIDENTAL M ASP CONC SUR PATCHING EXI | 4 SY 4550.000 4 SY 7700.000 4 SY 96500.000 4 SY 5825.000 8 TON 4640.000 | 6.10000 0.67000 1.38000 0.32000 0.78000 7.00000 11.60000 | 12139.00 3048.50 10626.00 30880.00 4543.50 32480.00 55100.00 |

MBE COMMITMENT TOTAL FOR SUBCONTRACTOR:

148,817.00 **Committed**

TOTAL MBE COMMITMENT FOR VENDOR:

Entered: 5.00% or 148817.00 Required: 5.00% or 148816.55

<GOAL MET>

NORTH CAROLINA STATE DEPARTMENT OF TRANSPORTATION DATE:06-17-14 WBE COMMITMENT ITEMS

PAGE: 8

PROPOSAL: C203579

LETTING: L140715 CALL: 007

VENDOR: 3655 Blythe Construction, Inc.

LINE ITEM

ITEM

UNIT SUBCONTRACTOR SUBCONTRACTOR EXTENDED NO. NO. DESC. TYPE QUANTITY UNIT PRICE AMOUNT

WBE SUBCONTRACTOR: 4761 TRAFFIC CONTROL SAFETY SERVICES, INC.

Will Use Quote: Yes

0023 4457000000-N TEMP TRAFFIC LS

1.000 22000.00000 22000.00

WBE COMMITMENT TOTAL FOR SUBCONTRACTOR:

22,000.00 Committed

WBE SUBCONTRACTOR: 4221 MORETZ HAULING, INC

Will Use Quote: Yes

0012 1523000000-E ASP CONC SUR TON 5126.000 0010 1519000000-E ASP CONC SUR TON 16235.000

7.00000 35882.00 6.65000 107962.75

0009 1489000000-E ASP CONC BAS TON 850.000

8.05000

6842.50

0013 1524000000-E ASP CONC SUR TON

1000.000

6.00000

6000.00

WBE COMMITMENT TOTAL FOR SUBCONTRACTOR:

156,687.25 **Committed**

TOTAL WBE COMMITMENT FOR VENDOR:

Entered: 6.00% or 178687.25 Required: 6.00% or 178579.86

<GOAL MET>

This Bid contains 0 amendment files

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 |
|-----------|--------|------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Jul 29, 2014 12:25 pm

North Carolina Department Of Transportation

Page: 1 of 3

Contract Item Sheets For C203579

| | Sec # | Description | Quantity Unit | Unit Bid Price | Amount Bid |
|--|----------|--|------------------|-------------------|---------------|
| | | ROADWAY ITEMS | | | |
| | 800 | MOBILIZATION | Lump Sum LS | 29,500.00 | 29,500.00 |
| | SP | GENERIC GRADING ITEM AGGREGATE SHOULDER BORROW | 1,990 TON | 20.00 | 39,800.00 |
| | 545 | INCIDENTAL STONE BASE | 380 TON | 1.00 | 380.00 |
| | SP | SHOULDER RECONSTRUCTION | 38.3 SMI | 1,350.00 | 51,705.00 |
| | 607 | MILLING ASPHALT PAVEMENT, ***" DEPTH (1-1/2") | 4,550 SY | 2.55 | 11,602.50 |
| | 607 | MILLING ASPHALT PAVEMENT, ***" DEPTH (3") | 7,700 SY | 3.50 | 26,950.00 |
| | 607 | MILLING ASPHALT PAVEMENT, ***" DEPTH (3/4") | 96,500 SY | 0.90 | 86,850.00 |
| | 607 | INCIDENTAL MILLING | 5,825 SY | 7.00 | 40,775.00 |
| | 610 | ASPHALT CONC BASE COURSE, TYPE B25.0B | 850 TON | 55.00 | 46,750.00 |
| | 610 | ASPHALT CONC SURFACE COURSE, TYPE S9.5B | 16,235 TON | 32.00 | 519,520.00 |
| - | SP | ASPHALT CONC SURFACE COURSE, TYPE S9.5B (LEVELING COURSE) | 2,550 TON | 34.00 | 86,700.00 |
| ************************************** | 610 | ASPHALT CONC SURFACE COURSE, TYPE S9.5C | 9,766 TON | 32.00 | 312,512.00 |
| | SP | ASPHALT CONC SURFACE COURSE, TYPE S9.5C (LEVELING COURSE) | 1,000 TON | 34.00 | 34,000.00 |
| | 620 | ASPHALT BINDER FOR PLANT MIX | 1,818 TON | 623.00 | 1,132,614.00 |
| | SP | PATCHING EXISTING PAVEMENT | 4,750 TON | 65.00 | 308,750.00 |
| | 665 | MILLED RUMBLE STRIPS (ASPHALT CONCRETE) | 53,500 LF | 0.10 | 5,350.00 |
| ************* | SP | RETROFIT EXISTING CURB RAMP | 9 EA | 385.00 | 3,465.00 |
| | 848 | CONCRETE CURB RAMP | 5 EA | 1,370.00 | 6,850.00 |

0034 4810000000-E

| Jul 2 | 29, 2014 12:25 pm North Carolina Department Of Transportation Page: 2 of 3 | | | | | |
|-----------|--|----------|---|------------------|-------------------|---------------|
| | | | Contract Item Sheets For C20 | 3579 | | |
| Line # | ItemNumber | Sec # | Description | Quantity Unit | Unit Bid Price | Amount Bid |
| 0019 | 2815000000-N | 858 | ADJUSTMENT OF DROP INLETS | 3 EA | 950.00 | 2,850.00 |
| 0020 | 283000000-N | 858 | ADJUSTMENT OF MANHOLES | 6 EA | 850.00 | 5,100.00 |
| 0021 | 2845000000-N | 858 | ADJUSTMENT OF METER BOXES OR VALVE BOXES | 5 EA | 820.00 | 4,100.00 |
| 0022 | 4413000000-E | SP | WORK ZONE ADVANCE/GENERAL WARNING SIGNING | 1,908 SF | 5.00 | 9,540.00 |
| 0023 | 4457000000-N | SP | TEMPORARY TRAFFIC CONTROL | Lump Sum LS | 50,000.00 | 50,000.00 |
| 0024 | 4510000000-N | SP | LAW ENFORCEMENT | 30 HR | 30.00 | 900.00 |
| 0025 | 4685000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS) | 10,200 LF | 0.65 | 6,630.00 |
| 0026 | 4686000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS) | 15,250 LF | 0.70 | 10,675.00 |
| 0027 | 4688000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) | 63,000 LF | 0.85 | 53,550.00 |
| 0028 | 4690000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (6", 120 MILS) | 7,500 LF | 1.00 | 7,500.00 |
| 0029 | 4697000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS) | 300 LF | 2.50 | 750.00 |
| 0030 | 4700000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS) | 1,750 LF | 1.75 | 3,062.50 |
| 0031 | 4710000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS) | 360 LF | 7.00 | 2,520.00 |
| 0032 | 4721000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS) | 6 EA | 125.00 | 750.00 |
| 0033 | 4725000000-E | 1205 | THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS) | 22 EA | 125.00 | 2,750.00 |

561,800

LF

0.10

56,180.00

1205 PAINT PAVEMENT MARKING LINES (4")

Jul 29, 2014 12:25 pm

North Carolina Department Of Transportation

Page: 3 of 3

Contract Item Sheets For C203579

| Line # | itemNumber | Sec # | Description | Quantity Unit | Unit Bid Price | Amount Bid |
|-----------|--------------|----------|-------------------------------|------------------|-------------------|----------------|
| 0035 | 4905000000-N | 1253 | SNOWPLOWABLE PAVEMENT MARKERS | 550 EA | 28.00 | 15,400.00 |
| | | | TOTAL AMOUNT OF BID FOR ENTIR | F PROJECT | | \$2.976.331.00 |

1225/Jul29/Q870158.3/D99727100000/E35

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

| | Blythe Cons | turction, Inc. |
|--------|--|---|
| | | ne of Corporation |
| | P.O. Box 31635, Ch | arlotte, NC 28231 |
| Attest | And Address Ad | s as Prequalified By By |
| | Secretary/Assistant Secretary | President/Vice President/Assistant Vice President |
| | Select appropriate title | Select appropriate title |
| | | |
| La | wrence G. Schmidt, II, Asst. Sec. | Alan M. Cahill, President & CEO |
| | Print or type Signer's name | Print or type Signer's name |
| | | |

CORPORATE SEAL

AFFIDAVIT MUST BE NOTARIZED

Subscribed and sworn to before me this the

| 5 day of august 20/4. |
|---|
| Sugarge & Prince Signature of Notary Public |
| Signature of Notary Public |
| of County County |
| State of Morth Carolina |
| My Commission Expires: $4/10/15$ |
| My Collinssion Expires. 1/10/13 |

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.

County Lincoln

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.

| I | | | | |
|---|----------------------|----------------|-------------|---------------------|
| | Check here if an | explanation is | attached to | this certification. |

Contract No.

C203579

County

Lincoln

ACCEPTED BY THE DEPARTMENT OF TRANSPORTATION

Contract Officer

1/21/14 Data

Date

Execution of Contract and Bonds Approved as to Form:

Attorney General

Signature Sheet (Bid - Acceptance by Department)

Contract No. County

| C203579 | | |
|---------|--|------|
| Lincoln | | |

Rev 5-17-11

CONTRACT PAYMENT BOND

| Date of Payment Bond Execution | July 30, 2014 |
|--------------------------------|--|
| Name of Principal Contractor | Blythe Construction, Inc. |
| Name of Surety: | Travelers Casualty and Surety Company of America |
| Name of Contracting Body: | North Carolina Department of Transportation |
| | Raleigh, North Carolina |
| Amount of Bond: | \$2,976,331.00 |
| Contract ID No.: | C203579 |
| County Name: | Lincoln |

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 PAYMENT BOND

| Affix Seal | of Surety | Company |
|------------|-----------|---------|
| | | |

Travelers Casualty and Surety Company of America
Print or type Surety Company Name

By Joseph D. Johnson, Jr.

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

Signature of Attorney-in-Fact

Jeann H. Behant
Signature of Witness

JoAnn H. Bebout

Print or type Signer's name

801 N. Orange Avenue, Suite 510 Orlando, Florida 32801

Address of Attorney-in-Fact

| Contract | No. |
|----------|-----|
| County | |

| C203579 | |
|---------|--|
| Lincoln | |

Rev 5-17-11

CONTRACT PAYMENT BOND

CORPORATION

SIGNATURE OF CONTRACTOR (Principal)

| Blythe Construction, Inc. Full name of Corporation |
|--|
| Turname of Corporation |
| P.O. Box 31635, Charlotte, North Carolina 28231 Address as prequalified By Signature of President, Vice President, Assistant Vice President Select appropriate title |
| Alan M. Cahill, President & CEO Print or type Signer's name |
| Attest Attest Signature of Secretary, Assistant Secretary Select appropriate title Lawrence G. Schmidt, II, Asst. Sec. Print or type Signer's name |



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company Travelers Casualty and Surety Company Travelers Casualty and Surety Company of America United States Fidelity and Guaranty Company

Attorney-In Fact No.

216555

Certificate No. 003314524

KNOW ALL MEN BY THESE PRESENTS: That St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company and St. Paul Mercury Insurance Company are corporations duly organized under the laws of the State of Minnesota, that Farmington Casualty Company, Travelers Casualty and Surety Company, and Travelers Casualty and Surety Company of America are corporations duly organized under the laws of the State of Connecticut, that United States Fidelity and Guaranty Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Todd L. Johnson, Joseph D. Johnson Jr., and Francis T. O'Reardon

| of the City of Orlando | | , State of | Florida | | their true and lawf | al Attorney(s)-in-Fact, |
|---|--|--|--|--|--|---|
| each in their separate capacity if other writings obligatory in the contracts and executing or guaran | nature thereof on behalf of t nteeing bonds and undertaking | ve, to sign, execute he Companies in ags required or per | e, seal and acknowled their business of gua mitted in any action | dge any and all bonds, re ranteeing the fidelity of s or proceedings allowed | ecognizances, conditi persons, guaranteein l by law. | onal undertakings and ng the performance of |
| Any and all consents required by release of retained percentages | and/or final estimates. | | | C) | | |
| IN WITNESS WHEREOF, the day of October | ,2009 | | signed and their corp | orate seals to be hereto | affixed, this | 29th |
| | Farmington Casualty Co Fidelity and Guaranty In Fidelity and Guaranty In St. Paul Fire and Marin St. Paul Guardian Insur | nsurance Compa nsurance Underw e Insurance Com | riters, Inc. | Travelers Casualty Travelers Casualty | Insurance Company and Surety Compa and Surety Compa lity and Guaranty C | ny ny of America |
| 1982 | MCORPORATED TO | FANCE OF THE PARTY | REAL S | DRAP CONN. AL S | HARTORD S | INCOPPORATED TO THE PARTY AND |
| State of Connecticut City of Hartford ss. | | | Ву: | George W The | ompson, senior vice Pre | sident |
| On this the himself to be the Senior Vice Pre Inc., St. Paul Fire and Marine I Company, Travelers Casualty an executed the foregoing instrument | nsurance Company, St. Paud Surety Company of Amer | lty Company, Fid Il Guardian Insura ica, and United S | elity and Guaranty Is ance Company, St. Is ates Fidelity and Gu | Paul Mercury Insurance paranty Company, and the | elity and Guaranty In Company, Travelers hat he, as such, bein | surance Underwriters, Casualty and Surety g authorized so to do, |
| In Witness Whereof, I hereunto My Commission expires the 30th | • | AC.TETA | | Ma | Marie C. Tetreault, No | <u>theoult</u> |

58440-4-09 Printed in U.S.A.

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Assistant Vice President, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kori M. Johanson, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company, Travelers Casualty and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

Kori M. Johanson Assistant Secretary



















To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

Contract No. County

| C203579 | | |
|---------|------|--|
| Lincoln | | |

Rev 5-17-11

CONTRACT PERFORMANCE BOND

| Date of Performance Bond Execution: | July 30, 2014 |
|-------------------------------------|--|
| Name of Principal Contractor: | Blythe Construction, Inc. |
| Name of Surety: | Travelers Casualty and Surety Company of America |
| Name of Contracting Body: | North Carolina Department of Transportation |
| | Raleigh, North Carolina |
| Amount of Bond: | \$2,976,331.00 |
| Contract ID No.: | C203579 |
| County Name: | Lincoln |

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 |

C203579 Lincoln

Rev 5-17-11

CONTRACT PERFORMANCE BOND

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|-----|------|------|-------|--------|-----|-------------|-----|----|
| AII | u | seui | o_I | Sureir | ∕ (| ωom | vun | ν |

Travelers Casualty and Surety Company of America

Print or type Surety Company Name

By Joseph D. Johnson, Jr.

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

Signature of Attorney-in-Fact

Jeann H. Belieut
Signature of Witness

JoAnn H. Bebout

Print or type Signer's name

801 N. Orange Avenue, Suite 510 Orlando, Florida 32801

Address of Attorney-in-Fact

| Contract | No. |
|----------|-----|
| County | |

| C203579 | | | |
|---------|--|--|--|
| Lincoln | | | |

Rev 5-17-11

CONTRACT PERFORMANCE BOND

CORPORATION

| SIGNATURE OF CONTRACTOR (Principal) | | | | |
|--|--|--|--|--|
| | | | | |
| Blythe Construction, Inc. | | | | |
| Full name of Corporation | | | | |
| 1 | | | | |
| | | | | |
| P. O. Box 31635, Charlotte, North Carolina 28231 | | | | |
| Address as prequalified By | | | | |
| Signature of President, Vice President, Assistant Vice President Select appropriate title | | | | |
| Select appropriate title | | | | |
| | | | | |
| | | | | |
| | | | | |
| THE REPORT OF TH | | | | |
| Alan M. Cahill, President & CEO | | | | |
| Print or type Signer's name | | | | |
| | | | | |
| | | | | |
| | | | | |
| Affix Corporate Seal | | | | |
| | | | | |
| Attest 65 hlts | | | | |
| Signature of Secretary. Assistant Secretary | | | | |
| Select appropriate title | | | | |
| | | | | |
| | | | | |
| | | | | |
| Lawrence G. Schmidt, II, Asst. Sec. | | | | |
| Lawrence G. Schmidt, II, Asst. Sec. Print or type Signer's name | | | | |



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company Travelers Casualty and Surety Company Travelers Casualty and Surety Company of America United States Fidelity and Guaranty Company

Attorney-In Fact No.

216555

Certificate No. 003314525

KNOW ALL MEN BY THESE PRESENTS: That St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company and St. Paul Mercury Insurance Company are corporations duly organized under the laws of the State of Minnesota, that Farmington Casualty Company, Travelers Casualty and Surety Company, and Travelers Casualty and Surety Company of America are corporations duly organized under the laws of the State of Connecticut, that United States Fidelity and Guaranty Company is a corporation duly organized under the laws of the State of Maryland, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Todd L. Johnson, Joseph D. Johnson Jr., and Francis T. O'Reardon

| of the City of Orlando | | , State of | Florida | | , their true and lawful | l Attornev(s)-in-Fact. |
|--|-----------------------------|------------------|---|--|--------------------------|--|
| each in their separate capacity if more | | | | | | |
| other writings obligatory in the nature | | | | | | g the performance of |
| contracts and executing or guaranteein | g bonds and undertakings | required or peri | nitted in any actions | or proceedings allowed | l by law. | |
| Any and all consents required by the | Department of Transpor | tation, or the C | orlando-Orange Co | unty Expressway Aut | hority, State of Flori | da, incident to the |
| release of retained percentages and/o | or linal estimates. | W | 1 | | | |
| IN WITNESS WHEREOF, the Comp | panies have caused this ins | strument to be s | gned and their corpo | rate seals to be hereto a | affixed, this | 29th |
| day of October 2 | | Brown Co. | | | | |
| | * | | 10 M | | | |
| Far | mington Casualty Comp | anv | V 30V | St. Paul Mercury I | nsurance Company | |
| Fid | elity and Guaranty Insu | rance Compan | v () | • | and Surety Compar | ıy |
| Fid | lelity and Guaranty Insu | rance Underwi | iters, Inc. | Travelers Casualty | and Surety Compar | ny of America |
| | Paul Fire and Marine In | - | any | United States Fidel | ity and Guaranty Co | ompany. |
| St. | Paul Guardian Insuranc | e Company | | | | |
| 1982 | MCORPORATED 1951 | | PORATOR OF CORPOR | SURATE OF SURATE AND SURATE OF SURAT | Super Cooks | SE TY AND SE |
| State of Connecticut | | | D | Leave | JA JA | _ |
| City of Hartford ss. | | | Ву: | George W Tho | mpson, Senior Vice Pres | ident |
| City of Hardord 33. | | | | / George W Tho | impsoin, demoi vice ries | ident |
| On this the 29th day | of October | 20 | 09 hefore me | personally appeared C | George W Thompson | who acknowledged |
| himself to be the Senior Vice President | | Company, Fide | | | | |
| Inc., St. Paul Fire and Marine Insuran Company, Travelers Casualty and Sura | nce Company, St. Paul G | luardian Insura | ice Company, St. Pa | aul Mercury Insurance | Company, Travelers | Casualty and Surety |
| executed the foregoing instrument for t | he purposes therein conta | ined by signing | on behalf of the corp | porations by himself as | a duly authorized offi | cer. |
| | | | | | | |
| | | C TETO | | | | |
| Y 3370. | | SECTION | | $\mathcal{M}_{\mathbf{a}}$ | sin a 7 | treault |
| In Witness Whereof, I hereunto set m | • | 13 (MINN) | <u> -</u> | 11/0 | | evium of |
| My Commission expires the 30th day of |)1 June, 2011. | TA COBLIC | */ | • | Marie C. Tetreault, Nota | ry Public |

58440-4-09 Printed in U.S.A.

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kori M. Johanson, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which 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 30th day of

_, 20. <u>14</u>

Kori M. Johanson Assistant Secretary



















To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at www.travelersbond.com. Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.