



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

July 3, 2024

Addendum No. 2

RE: Contract # C204878

WBS # 34165.3.6, 34165.3.7

FEDERAL-AID NO. 0026024, 0026025

Buncombe County (I-2513AA, I-2513AB)

I-40 FROM EAST OF SR-1224 TO PAVEMENT JOINT WEST OF SR-3412,
AND I-26, I-40 AT I-40/US 19/23 INTERCHANGES IMPROVEMENTS

July 16, 2024 Letting

To Whom It May Concern:

Reference is made to the plans and proposal furnished to you on this project.

The following revision has been made to the Utility Construction plans.

Sheet No.	Revision
UC-08	Updated to reflect the current Final Survey file and no bridge replacement.

Please void the above listed Sheet in your Plans and staple the revised Sheet thereto.

The following revisions have been made to the proposal.

Page No.	Revision
Proposal Cover	Note added that reads "Includes Addendum No. 2 Dated 07-03-2024".
Table of Contents	Updated to reflect changes below.
G-8	The Project Special Provision entitled SPECIALTY ITEMS has been updated to reflect new pay item below.
G-21 thru G-51	The Project Special Provision entitled DISADVANTAGED BUSINESS ENTERPRISE has been revised. Please refer to DBE Regular Dealer/Distributor Affirmation Form found at this location: USDOT Regular Dealer/Distributor Affirmation Form (ncdot.gov) to be completed by the prime bidder.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT
1591 MAIL SERVICE CENTER
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900
Fax: (919) 250-4127
Customer Service: 1-877-368-4968

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

Website: www.ncdot.gov

Please void the above listed existing Pages in your proposal and staple the revised Pages thereto.

On the item sheets the following pay item revision has been made:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0455-6071010000-E 1642	WATTLE	NEW ITEM	200 LF

The Contractor's bid must include this pay item revision.

The electronic bidding file has been updated to reflect this revision. Please download the Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:

52C46046381F443...

Ronald E. Davenport, Jr., PE
State Contract Officer

RED/cms
Attachments

cc: Mr. Wiley W. Jones III, PE
Mr. Tim Anderson, PE
Mr. Ken Kennedy, PE
Mr. Malcolm Bell
Mr. Forrest Dungan, PE
Ms. Jaci Kincaid
Mr. Jon Weathersbee, PE
Project File (2)

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

PROPOSAL

INCLUDES ADDENDUM No. 2 DATED 07-03-2024

DATE AND TIME OF BID OPENING: **Jul 16, 2024 AT 02:00 PM**

CONTRACT ID C204878
WBS 34165.3.6, 34165.3.7

FEDERAL-AID NO. 0026024, 0026025
COUNTY BUNCOMBE
T.I.P NO. I-2513AA, I-2513AB
MILES 2.750
ROUTE NO.
LOCATION I-40 FROM EAST OF SR-1224 TO PAVEMENT JOINT WEST OF SR-3412,
AND I-26, I-40 AT I-40/US 19/23 INTERCHANGES IMPROVEMENTS
TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNALS, AND STRUCTURES.

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 & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

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SPECIALTY ITEMS:

(7-1-95)(Rev. 1-16-24)

108-6

SP1 G37

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

Line #	Description
128-140	Guardrail
141-146	Fencing
156-193	Signing
217-220, 224-227	Long-Life Pavement Markings
229-231	Removable Tape
239	Permanent Pavement Markers
240-263, 265-273	Lighting
274-303	Utility Construction
304-342, 455	Erosion Control
343-416, 453-454	Signals/ITS System

FUEL PRICE ADJUSTMENT:

(11-15-05)(Rev. 1-16-24)

109-8

SP1 G43

Page 1-82, Article 109-8, FUEL PRICE ADJUSTMENTS, add the following:

The base index price for DIESEL #2 FUEL is \$ **2.6456** per gallon. Where any of the following are included as pay items in the contract, they will be eligible for fuel price adjustment.

PAYOUT SCHEDULE:

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

108

SP1 G57

Submit an Anticipated Monthly Payout Schedule prior to beginning construction. The Anticipated Monthly Payout Schedule will be used by the Department to monitor funding levels for this project. Include a monthly percentage breakdown (in terms of the total contract amount) of the work anticipated to be completed. The schedule should begin with the date the Contractor plans to begin construction and end with the anticipated completion date. Submit updates of the Anticipated Monthly Payout Schedule on March 15, June 15, September 15, and December 15 of each calendar year until project acceptance. Submit the original Anticipated Monthly Payout Schedule and all subsequent updates to the Resident Engineer with a copy to the State Construction Engineer at 1 South Wilmington Street, 1543 Mail Service Center, Raleigh, NC 27699-1543.

SCHEDULE OF ESTIMATED COMPLETION PROGRESS:

(7-15-08)(Rev. 1-16-24)

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>	<u>Progress (% of Dollar Value)</u>
2025	(7/01/24 - 6/30/25) 32% of Total Amount Bid
2026	(7/01/25 - 6/30/26) 31% of Total Amount Bid
2027	(7/01/26 - 6/30/27) 20% of Total Amount Bid
2028	(7/01/27 - 6/30/28) 14% of Total Amount Bid
2029	(7/01/28 - 6/30/29) 3% of Total Amount Bid

The Contractor shall also furnish his own progress schedule in accordance with Article 108-2 of the *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.

DISADVANTAGED BUSINESS ENTERPRISE:

(10-16-07)(Rev. 5-9-24)

102-15(J)

SP1 G61

Description

The purpose of this Special Provision is to carry out the U.S. Department of Transportation's policy of ensuring nondiscrimination in the award and administration of contracts financed in whole or in part with Federal funds. This provision is guided by 49 CFR Part 26.

Definitions

Additional DBE Subcontractors - Any DBE submitted at the time of bid that will not be used to meet the DBE goal. No submittal of a Letter of Intent is required.

Committed DBE Subcontractor - Any DBE submitted at the time of bid that is being used to meet the DBE goal by submission of a Letter of Intent. Or any DBE used as a replacement for a previously committed DBE firm.

Contract Goal Requirement - The approved DBE participation at time of award, but not greater than the advertised contract goal.

DBE Goal - A portion of the total contract, expressed as a percentage, that is to be performed by committed DBE subcontractor(s).

Disadvantaged Business Enterprise (DBE) - A firm certified as a Disadvantaged Business Enterprise through the North Carolina Unified Certification Program.

Goal Confirmation Letter - Written documentation from the Department to the bidder confirming the Contractor's approved, committed DBE participation along with a listing of the committed DBE firms.

Manufacturer - A firm that owns (or leases) and operates or maintains a factory or establishment that produces on the premises, the materials or supplies obtained by the Contractor. A firm that makes minor modifications to the materials, supplies, articles, or equipment is not a manufacturer.

Regular Dealer - A firm that owns (or leases), and operates a store, warehouse, or other establishment in which the materials or supplies required for the performance of the contract are bought, kept in sufficient quantities, 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, concrete or concrete products, gravel, stone, asphalt and petroleum products need not keep such products in stock, if it owns and operates distribution equipment for the products. Any supplement of regular dealers' own distribution equipment shall be by a long-term operating lease and not on an ad hoc or contract-by-contract basis.

Distributor - A firm that engages in the regular sale or lease of the items specified by the contract. A distributor assumes responsibility for the items it purchases once they leave the point of origin (e.g., a manufacturer's facility), making it liable for any loss or damage not covered by the carrier's insurance.

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

North Carolina Unified Certification Program (NCUCP) - A program that provides comprehensive services and information to applicants for DBE certification, such that an applicant is required to apply only once for a DBE certification that will be honored by all recipients of USDOT funds in the state and not limited to the Department of Transportation only. The Certification Program is 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.

Forms and Websites Referenced in this Provision

DBE Payment Tracking System - On-line system in which the Contractor enters the payments made to DBE 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 DBE firms working on the project. This form is for paper bid projects only.
<https://connect.ncdot.gov/business/Turnpike/Documents/Form%20DBE-IS%20Subcontractor%20Payment%20Information.pdf>

RF-1 DBE Replacement Request Form - Form for replacing a committed DBE.
<https://connect.ncdot.gov/projects/construction/Construction%20Forms/DBE%20MBE%20WBE%20Replacement%20Form%20and%20Instructions.pdf>

SAF Subcontract Approval Form - Form required for approval to sublet the contract.
<https://connect.ncdot.gov/projects/construction/Construction%20Forms/SAF%20Form%20-%20Subcontract%20Approval%20Form%20Revised%2004-19.xlsm>

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

Letter of Intent - Form signed by the Contractor and the DBE subcontractor, manufacturer or regular dealer that affirms that a portion of said contract is going to be performed by the signed DBE for the estimated amount (based on quantities and unit prices) listed at the time of bid.
<http://connect.ncdot.gov/letting/LetCentral/Letter%20of%20Intent%20to%20Perform%20as%20a%20Subcontractor.pdf>

Listing of DBE Subcontractors Form - Form for entering DBE subcontractors on a project that will meet this DBE goal. This form is for paper bids only.
[http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/08%20DBE%20Subcontractors%20\(Federal\).docx](http://connect.ncdot.gov/municipalities/Bid%20Proposals%20for%20LGA%20Content/08%20DBE%20Subcontractors%20(Federal).docx)

Subcontractor Quote Comparison Sheet - Spreadsheet for showing all subcontractor quotes in the work areas where DBEs 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>

DBE Regular Dealer/Distributor Affirmation Form – Form is used to make a preliminary counting determination for each DBE listed as a regular dealer or distributor to assess its eligibility for 60 or 40 percent credit, respectively of the cost of materials or supplies based on its demonstrated capacity and intent to perform as a regular dealer or distributor, as defined in section 49 CFR 26.55 under the contract at issue. A Contractor will submit the completed form with the Letter of Intent. <https://connect.ncdot.gov/projects/construction/Construction%20Forms/DBE%20Regular%20Dealer-Distributor%20Affirmation%20Form%20-%20USDOT%202024.pdf>

DBE Goal

The following DBE goal for participation by Disadvantaged Business Enterprises is established for this contract:

Disadvantaged Business Enterprises **5.0 %**

- (A) *If the DBE goal is more than zero*, the Contractor shall exercise all necessary and reasonable steps to ensure that DBEs participate in at least the percent of the contract as set forth above as the DBE goal.
- (B) *If the DBE goal is zero*, the Contractor shall make an effort to recruit and use DBEs during the performance of the contract. Any DBE 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 DBE certified shall be used to meet the DBE goal. The Directory can be found at the following link. [https:// www.ebs.nc.gov/VendorDirectory/default.html](https://www.ebs.nc.gov/VendorDirectory/default.html)

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

Listing of DBE Subcontractors

At the time of bid, bidders shall submit all DBE participation that they anticipate to use during the life of the contract. Only those identified to meet the DBE goal will be considered committed, even though the listing shall include both committed DBE subcontractors and additional DBE subcontractors. Additional DBE subcontractor participation submitted at the time of bid will be used toward the Department's overall race-neutral goal. Only those firms with current DBE certification at the time of bid opening will be acceptable for listing in the bidder's submittal of DBE participation. The Contractor shall indicate the following required information:

- (A) Electronic Bids

Bidders shall submit a listing of DBE participation in the appropriate section of the electronic submittal file.

- (1) Submit the names and addresses of DBE firms identified to participate in the contract. If the bidder uses the updated listing of DBE firms shown in the electronic submittal file, the bidder may use the dropdown menu to access the name and address of the DBE firm.
 - (2) Submit the contract line numbers of work to be performed by each DBE firm. When no figures or firms are entered, the bidder will be considered to have no DBE participation.
 - (3) The bidder shall be responsible for ensuring that the DBE 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 DBE's participation will not count towards achieving the DBE goal.
- (B) Paper Bids
- (1) *If the DBE goal is more than zero,*
 - (a) Bidders, at the time the bid proposal is submitted, shall submit a listing of DBE participation, including the names and addresses on *Listing of DBE 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 DBE participation for the contract.
 - (b) If bidders have no DBE participation, they shall indicate this on the *Listing of DBE 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 DBE 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 DBE 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 DBE's participation will not count towards achieving the corresponding goal.
 - (2) *If the DBE goal is zero,* entries on the *Listing of DBE Subcontractors* are not required for the zero goal, however any DBE participation that is achieved during the project shall be reported in accordance with requirements contained elsewhere in the special provision.

DBE Prime Contractor

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

For example, if the DBE goal is 45% and the DBE bidder will only perform 40% of the contract work, the prime will list itself at 40%, and the additional 5% shall be obtained through additional DBE participation with DBE subcontractors or documented through a good faith effort.

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

Written Documentation – Letter of Intent

The bidder shall submit written documentation for each DBE that will be used to meet the DBE goal of the contract, indicating the bidder's commitment to use the DBE in the contract. This documentation shall be submitted on the Department's form titled *Letter of Intent*.

The documentation shall be received in the office of the State Contractor Utilization Engineer or at DBE@ncdot.gov no later than 10:00 a.m. 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 10:00 a.m. on the next official state business day.

If the bidder fails to submit the Letter of Intent from each committed DBE to be used toward the DBE goal, or if the form is incomplete (i.e. both signatures are not present), the DBE participation will not count toward meeting the DBE goal. If the lack of this participation drops the commitment below the DBE goal, the Contractor shall submit evidence of good faith efforts, completed in its entirety, to the State Contractor Utilization Engineer or DBE@ncdot.gov no later than 10:00 a.m. on the eighth calendar day following opening of 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 10:00 a.m. on the next official state business day.

Submission of Good Faith Effort

If the bidder fails to meet or exceed the DBE goal, the apparent lowest responsive bidder shall submit to the Department documentation of adequate good faith efforts made to reach the DBE goal.

A hard copy and an electronic copy of this information shall be received in the office of the State Contractor Utilization Engineer or at DBE@ncdot.gov no later than 10:00 a.m. on the sixth calendar day following opening of 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 10:00 a.m.

on the next official state business day. If the Contractor cannot send the information electronically, then one complete set and 5 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 DBE 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 DBE 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 DBE participation. Adequate good faith efforts also mean that the bidder actively and aggressively sought DBE 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 goal 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 DBEs 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 DBEs to respond to the solicitation. Solicitation shall provide the opportunity to DBEs within the Division and surrounding Divisions where the project is located. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
- (B) Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved.
 - (1) Where appropriate, break out contract work items into economically feasible units to facilitate DBE 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 DBE goal when the work to be sublet includes potential for DBE participation (2nd and 3rd tier subcontractors).
- (C) Providing interested DBEs 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 DBEs. It is the bidder's responsibility to

make a portion of the work available to DBE subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs 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 DBEs to perform the work.

- (2) A bidder using good business judgment would consider a number of factors in negotiating with subcontractors, including DBE 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 DBEs is not in itself sufficient reason for a bidder's failure to meet the contract DBE goal, as long as such costs are reasonable. Also, the ability or desire of a prime contractor to perform the work of a contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Bidding contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.
- (E) Not rejecting DBEs 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 DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or bidder.
- (G) Making efforts to assist interested DBEs 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 DBEs. Contact within 7 days from the bid opening the Business Opportunity and Work Force Development Unit at BOWD@ncdot.gov to give notification of the bidder's inability to get DBE quotes.
- (I) Any other evidence that the bidder submits which shows that the bidder has made reasonable good faith efforts to meet the DBE 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 DBE goal.
- (2) The bidders' past performance in meeting the DBE goals.

- (3) The performance of other bidders in meeting the DBE goal. For example, when the apparent successful bidder fails to meet the DBE goal, but others meet it, you may reasonably raise the question of whether, with additional reasonable efforts the apparent successful bidder could have met the goal. If the apparent successful bidder fails to meet the DBE goal, but meets or exceeds the average DBE 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 DBE goal can be met or that an adequate good faith effort has been made to meet the DBE goal.

Non-Good Faith Appeal

The State Prequalification 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 Prequalification Engineer. The appeal shall be made within 2 business days of notification of the determination of non-good faith.

Counting DBE Participation Toward Meeting DBE Goal

(A) Participation

The total dollar value of the participation by a committed DBE will be counted toward the contract goal requirement. The total dollar value of participation by a committed DBE will be based upon the value of work performed by the DBE and the actual payments to DBE firms by the Contractor.

(B) Joint Checks

Prior notification of joint check use shall be required when counting DBE 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 DBE may enter into subcontracts. Work that a DBE subcontracts to another DBE firm may be counted toward the contract goal requirement. Work that a DBE subcontracts to a non-DBE firm does not count toward the contract goal requirement. If a DBE 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 DBE is not performing a commercially useful function. The DBE may present evidence to rebut this presumption to the Department. The Department's decision on the

rebuttal of this presumption is subject to review by the Federal Highway Administration but is not administratively appealable to USDOT.

(D) Joint Venture

When a DBE 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 DBE in the joint venture, that portion of the total dollar value being a distinct clearly defined portion of work that the DBE performs with its forces.

(E) Manufacturer, Regular Dealer, Distributor

A Contractor may count toward its DBE requirement 40 percent of its expenditures for materials or supplies (including transportation costs) from a DBE distributor, 60 percent of its expenditures for materials or supplies (including transportation costs) from a DBE regular dealer and 100 percent of such expenditures obtained from a DBE manufacturer.

A Contractor may count toward its DBE requirement the following expenditures to DBE firms that are not manufacturers, regular dealers or distributors:

- (1) The fees or commissions charged by a DBE 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 DBE, which is neither a manufacturer, regular dealer, nor a distributor count the entire amount of fees or commissions charged that the Department deems to be reasonable, including transportation charges for the delivery of materials or supplies. Do not count any portion of the cost of the materials and supplies themselves.

A Contractor will submit a completed *DBE Regular Dealer/Distributor Affirmation Form* with the Letter of Intent to the State Contractor Utilization Engineer or DBE@ncdot.gov. The State Contractor Utilization Engineer will make a preliminary assessment as to whether a DBE supplier has the demonstrated capacity to perform a commercially useful function (CUF) on a contract-by-contract basis *prior* to its participation.

Commercially Useful Function

(A) DBE Utilization

The Contractor may count toward its contract goal requirement only expenditures to DBEs that perform a commercially useful function in the work of a contract. A DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by performing, managing, and supervising the work involved. To perform a commercially useful function, the DBE 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 DBE 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 performing and the DBE credit claimed for its performance of the work, and any other relevant factors.

(B) DBE Utilization in Trucking

The following factors will be used to determine if a DBE trucking firm is performing a commercially useful function:

- (1) The DBE 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 DBE goals.
- (2) The DBE shall itself own and operate at least one fully licensed, insured, and operational truck used on the contract.
- (3) The DBE 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 DBE may subcontract the work to another DBE firm, including an owner-operator who is certified as a DBE. The DBE who subcontracts work to another DBE receives credit for the total value of the transportation services the subcontracted DBE provides on the contract.
- (5) The DBE may also subcontract the work to a non-DBE firm, including from an owner-operator. The DBE who subcontracts the work to a non-DBE is entitled to credit for the total value of transportation services provided by the non-DBE subcontractor not to exceed the value of transportation services provided by DBE-owned trucks on the contract. Additional participation by non-DBE 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 DBE and the Contractor will not count towards the DBE contract requirement.
- (6) A DBE may lease truck(s) from an established equipment leasing business open to the general public. The lease must indicate that the DBE 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 DBE, so long as the lease gives the DBE absolute priority for use of the leased truck. This type of lease may count toward the DBE's credit as long as the driver is under the DBE's payroll.

- (7) Subcontracted/leased trucks shall display clearly on the dashboard the name of the DBE 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.

DBE Replacement

When a Contractor has relied on a commitment to a DBE subcontractor (or an approved substitute DBE subcontractor) to meet all or part of a contract goal requirement, the contractor shall not terminate the DBE subcontractor or any portion of its work 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 DBE subcontractor, a non-DBE subcontractor, or with the Contractor's own forces or those of an affiliate.

The Contractor must give notice in writing both by certified mail and email to the DBE subcontractor, with a copy to the Engineer of its intent to request to terminate a DBE subcontractor or any portion of its work, and the reason for the request. The Contractor must give the DBE subcontractor five (5) business days to respond to the Contractor's Notice of Intent to Request Termination and/or Substitution. If the DBE subcontractor objects to the intended termination/substitution, the DBE, within five (5) business days must advise the Contractor and the Department of the reasons why the action should not be approved. The five-day notice period shall begin on the next business day after written notice is provided to the DBE subcontractor.

A committed DBE subcontractor may only be terminated or any portion of its work after receiving the Department's written approval based upon a finding of good cause for the proposed termination and/or substitution. Good cause does not exist if the Contractor seeks to terminate a DBE or any portion of its work that it relied upon to obtain the contract so that the Contractor can self-perform the work for which the DBE was engaged, or so that the Contractor can substitute another DBE or non-DBE contractor after contract award. For purposes of this section, good cause shall include the following circumstances:

- (a) The listed DBE subcontractor fails or refuses to execute a written contract;
- (b) The listed DBE subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Provided, however, that good cause does not exist if the failure or refusal of the DBE subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the prime contractor;
- (c) The listed DBE subcontractor fails or refuses to meet the prime contractor's reasonable, nondiscriminatory bond requirements;
- (d) The listed DBE subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
- (e) The listed DBE subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant to 2 CFR parts 180, 215 and 1200 or applicable State law;
- (f) The listed DBE subcontractor is not a responsible contractor;
- (g) The listed DBE voluntarily withdraws from the project and provides written notice of withdrawal;
- (h) The listed DBE is ineligible to receive DBE credit for the type of work required;
- (i) A DBE owner dies or becomes disabled with the result that the listed DBE contractor is unable to complete its work on the contract; and

- (j) Other documented good cause that compels the termination of the DBE subcontractor.

The Contractor shall comply with the following for replacement of a committed DBE:

(A) Performance Related Replacement

When a committed DBE is terminated for good cause as stated above, an additional DBE that was submitted at the time of bid may be used to fulfill the DBE commitment. A good faith effort will only be required for removing a committed DBE if there were no additional DBEs submitted at the time of bid to cover the same amount of work as the DBE that was terminated.

If a replacement DBE is not found that can perform at least the same amount of work as the terminated DBE, 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 DBEs that their interest is solicited in contracting the work defaulted by the previous DBE or in subcontracting other items of work in the contract.
- (2) Efforts to negotiate with DBEs for specific subbids including, at a minimum:
 - (a) The names, addresses, and telephone numbers of DBEs who were contacted.
 - (b) A description of the information provided to DBEs regarding the plans and specifications for portions of the work to be performed.
- (3) A list of reasons why DBE quotes were not accepted.
- (4) Efforts made to assist the DBEs contacted, if needed, in obtaining bonding or insurance required by the Contractor.

(B) Decertification Replacement

- (1) When a committed DBE 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 DBE 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 but not the overall goal.
 - (i) If the DBE's ineligibility is caused solely by its having exceeded the size standard during the performance of the contract. The Department may continue to count participation equal to the remaining work performed by the decertified firm which will count toward the contract goal requirement and overall goal.

- (ii) If the DBE's ineligibility is caused solely by its acquisition by or merger with a non-DBE during the performance of the contract. The Department may not continue to count the portion of the decertified firm's performance on the contract remaining toward either the contract goal or the overall goal, even if the Contractor has executed a subcontract with the firm or the Department has executed a prime contract with the DBE that was later decertified.
- (2) When a committed DBE is decertified prior to the Department receiving the SAF (*Subcontract Approval Form*) for the named DBE firm, the Contractor shall take all necessary and reasonable steps to replace the DBE subcontractor with another DBE subcontractor to perform at least the same amount of work to meet the DBE goal requirement. If a DBE 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).

All requests for replacement of a committed DBE firm shall be submitted to the Engineer for approval on Form RF-1 (*DBE 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.

Changes in the Work

When the Engineer makes changes that result in the reduction or elimination of work to be performed by a committed DBE, 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 DBE based upon the Contractor's commitment, the DBE shall participate in additional work to the same extent as the DBE 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 DBEs 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 DBE, the Contractor shall seek participation by DBEs 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 DBE, the Contractor shall seek additional participation by DBEs equal to the reduced DBE 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 DBE subcontractor. The Department reserves the right to require copies of actual subcontract agreements involving DBE 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 DBE 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 DBE credit.

Reporting Disadvantaged Business Enterprise Participation

The Contractor shall provide the Engineer with an accounting of payments made to all DBE 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 DBEs, 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-DBE lessees shall evaluate the value of services provided during the month of the reporting period only.

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

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

Failure to Meet Contract Requirements

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

CERTIFICATION FOR FEDERAL-AID CONTRACTS:

(3-21-90)

SP1 G85

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

- (A) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (B) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, *Disclosure Form to Report Lobbying*, in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by *Section 1352, Title 31, U.S. Code*. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

RESTRICTIONS ON ITS EQUIPMENT AND SERVICES:

(11-17-20)

SP01 G090

All telecommunications, video or other ITS equipment or services installed or utilized on this project must be in conformance with UNIFORM ADMINISTRATIVE REQUIREMENTS, COST PRINCIPLES, AND AUDIT REQUIREMENTS FOR FEDERAL AWARDS **2 CFR, § 200.216** **Prohibition on certain telecommunications and video surveillance services or equipment.**

USE OF UNMANNED AIRCRAFT SYSTEM (UAS):

(8-20-19)

SP1 G092

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

Prior to beginning operations, the Contractor shall complete the NCDOT UAS – Flight Operation Approval Form and submit it to the Engineer for approval. All UAS operations shall be approved by the Engineer prior to beginning the operations.

All contractors or subcontractors operating UAS shall have UAS specific general liability insurance to cover all operations under this contract.

The use of UAS is at the Contractor's discretion. No measurement or payment will be made for the use of UAS. In the event that the Department directs the Contractor to utilize UAS, payment will be in accordance with Article 104-7 Extra Work.

EQUIPMENT IDLING GUIDELINES:

(1-19-21)

107

SP1 G096

Exercise reduced fuel consumption and reduced equipment emissions during the construction of all work associated with this contract. Employees engaged in the construction of this project should turn off vehicles when stopped for more than thirty (30) minutes and off-highway equipment should idle no longer than fifteen (15) consecutive minutes.

These guidelines for turning off vehicles and equipment when idling do not apply to:

1. Idling when queuing.
2. Idling to verify the vehicle is in safe operating condition.
3. Idling for testing, servicing, repairing or diagnostic purposes.
4. Idling necessary to accomplish work for which the vehicle was designed (such as operating a crane, mixing concrete, etc.).
5. Idling required to bring the machine system to operating temperature.
6. Emergency vehicles, utility company, construction, and maintenance vehicles where the engines must run to perform needed work.
7. Idling to ensure safe operation of the vehicle.
8. Idling when the propulsion engine is providing auxiliary power for other than heating or air conditioning. (such as hydraulic systems for pavers)
9. When specific traffic, safety, or emergency situations arise.
10. If the ambient temperature is less than 32 degrees Fahrenheit. Limited idling to provide for the safety of vehicle occupants (e.g. to run the heater).

11. If the ambient temperature is greater than 90 degrees Fahrenheit. Limited idling to provide for the safety of vehicle occupants of off-highway equipment (e.g. to run the air conditioning) no more than 30 minutes.
12. Diesel powered vehicles may idle for up to 30 minutes to minimize restart problems.

Any vehicle, truck, or equipment in which the primary source of fuel is natural gas or electricity is exempt from the idling limitations set forth in this special provision.

U.S. DEPARTMENT OF TRANSPORTATION HOTLINE:

(11-22-94)

108-5

SP1 G100

To report bid rigging activities call: **1-800-424-9071**

The U.S. Department of Transportation (DOT) operates the above toll-free hotline Monday through Friday, 8:00 a.m. to 5:00 p.m. eastern time. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the hotline to report such activities.

The hotline is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and abuse is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

SUBSURFACE INFORMATION:

(7-1-95)

450

SP1 G112 C

Subsurface information is available on the roadway and structure portions of this project.

PORTABLE CONCRETE BARRIER - (Partial Payments for Materials):

(7-1-95)(Rev. 1-16-24)

1170-4

SP1 G121

When so authorized by the Engineer, partial materials payments will be made up to 95 percent of the delivered cost of portable concrete barrier, provided that these materials have been delivered on the project and stored in an acceptable manner, and further provided the documents listed in Subarticle 109-5(C) of the *Standard Specifications* have been furnished to the Engineer.

The provisions of Subarticle 109-5(B) of the *Standard Specifications* will apply to the portable concrete barrier.

REMOVABLE PAVEMENT MARKINGS - (Partial Payments for Materials):

(7-1-95)(Rev. 1-16-24)

1205-10

SP1 G124

When so authorized by the Engineer, partial materials payments will be made up to 95 percent of the delivered cost of pavement marking tape, provided that these materials have been delivered on or in the vicinity of the project, stored in an acceptable manner, not to exceed the shelf life recommended by the manufacturer, and further provided the documents listed in Subarticle 109-5(C) of the *Standard Specifications* have been furnished to the Engineer.

The Contractor shall be responsible for the material and the satisfactory performance of the material when used in the work.

The provisions of Article 109-6 of the *Standard Specifications* will not apply to removable pavement marking materials.

MAINTENANCE OF THE PROJECT:

(11-20-07)(Rev. 1-16-24)

104-10

SP1 G125

Revise the *Standard Specifications* as follows:

Page 1-35, Article 104-10 Maintenance of the Project, line 3, add the following after the first sentence of the first paragraph:

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

Page 1-35, Article 104-10 MAINTENANCE OF THE PROJECT, line 8, add the following as the last sentence of the first paragraph:

The Contractor shall perform weekly inspections of guardrail and guiderail and shall report damages to the Engineer on the same day of the weekly inspection. *Where damaged guardrail or guiderail is repaired or replaced as a result of maintaining the project in accordance with this article, such repair or replacement shall be performed within 7 consecutive calendar days of such inspection report.*

Page 1-35, Article 104-10 MAINTENANCE OF THE PROJECT, lines 20-22, replace the last sentence of the last paragraph with the following:

The Contractor will not be directly compensated for any maintenance operations necessary, except for maintenance of guardrail/guiderail, as this work will be considered incidental to the work covered by the various contract items. The provisions of Article 104-7, Extra Work, and Article 104-8, Compensation and Record Keeping will apply to authorized maintenance of guardrail/guiderail. Performance of weekly inspections of guardrail/guiderail, and the damage reports required as described above, will be considered to be an incidental part of the work being paid for by the various contract items.

COOPERATION BETWEEN CONTRACTORS:

(7-1-95)(Rev. 1-16-24)

105-7

SP1 G133

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

HO-0002A (C204556 - US-74 Broadband Infrastructure Project from Asheville to Wilmington) is located within the project limits. HO-0002A is currently under construction and not anticipated to be complete prior to the letting of this project.

I-2513AC (I-26 / I-40 / I-240 Interchange to SR 3548) is located adjacent to this project. I-2513AC is anticipated for a November 19, 2024 Letting.

I-4700 (C204266 - I-26 from NC-280 to I-40) is located adjacent to this project. I-4700 is currently under construction and not anticipated to be complete prior to the letting of this project.

I-5888B (I-40 Interstate Maintenance Project from MP 37 to MP 44) is located within the project limits. I-5888B is anticipated for a February 16, 2027 Letting.

I-5889B (C204726 - I-40 from MP 45.25 to MP 50) is located adjacent to this project. I-5889B is currently under construction and not anticipated to be complete prior to the letting of this project.

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

BID DOCUMENTATION:

(1-1-02) (Rev.8-18-15)

103

SP1 G142

General

The successful Bidder (Contractor) shall submit the original, unaltered bid documentation or a certified copy of the original, unaltered bid documentation used to prepare the bid for this contract to the Department within 10 days after receipt of notice of award of contract. Such documentation shall be placed in escrow with a banking institution or other bonded document storage facility selected by the Department.

The Department will not execute the contract until the original, unaltered bid documentation or a certified copy of the original, unaltered bid documentation has been received by the Department.

Terms

Bid Documentation - Bid Documentation shall mean all written information, working papers, computer printouts, electronic media, charts, and all other data compilations which contain or reflect information, data, and calculations used by the Bidder in the preparation of the bid. The term *bid documentation* includes, but is not limited to, contractor equipment rates, contractor overhead rates, labor rates, efficiency or productivity factors, arithmetical calculations, and quotations from subcontractors and material suppliers to the extent that such rates and quotations were used by the Bidder in formulating and determining the bid. The term *bid documentation* also includes any manuals, which are standard to the industry used by the Bidder in determining the bid. Such manuals may be included in the bid documentation by reference. Such reference shall include the name and date of the publication and the publisher. *Bid Documentation* does not include bid documents provided by the Department for use by the Bidder in bidding on this project. The Bid Documentation can be in the form of electronic submittal (i.e. thumb drive) or paper. If the Bidder elects to submit the Bid Documentation in electronic format, the Department requires a backup submittal (i.e. a second thumb drive) in case one is corrupted.

Contractor's Representative - Officer of the Contractor's company; if not an officer, the Contractor shall supply a letter signed and notarized by an officer of the Contractor's company, granting permission for the representative to sign the escrow agreement on behalf of the Contractor.

Escrow Agent - Officer of the select banking institution or other bonded document storage facility authorized to receive and release bid documentation.

Escrow Agreement Information

A draft copy of the Escrow Agreement will be mailed to the Bidder after the notice of award for informational purposes. The Bidder and Department will sign the actual Escrow Agreement at the time the bid documentation is delivered to the Escrow Agent.

Failure to Provide Bid Documentation

The Bidder's failure to provide the original, unaltered bid documentation or a certified copy of the original, unaltered bid documentation within 10 days after the notice of award is received may be just cause for rescinding the award of the contract and may result in the removal of the Bidder from the Department's list of qualified bidders for a period of up to 180 days. Award may then be made to the next lowest responsible bidder or the work may be readvertised and constructed under the contract or otherwise, as the Department may decide.

Submittal of Bid Documentation

- (A) Appointment – Email specs@ncdot.gov or call 919.707.6900 to schedule an appointment.
- (B) Delivery - A representative of the Bidder shall deliver the original, unaltered bid documentation or a certified copy of the original, unaltered bid documentation to the Department, in a container suitable for sealing, within 10 days after the notice of award is received.
- (C) Packaging – The container shall be no larger than 15.5 inches in length by 12 inches wide by 11 inches high and shall be water resistant. The container shall be clearly marked on the face and the back of the container with the following information: Bid Documentation, Bidder's Name, Bidder's Address, Date of Escrow Submittal, Contract Number, TIP Number if applicable, and County.

Affidavit

Bid documentation will be considered a certified copy if the Bidder includes an affidavit stating that the enclosed documentation is an EXACT copy of the original documentation used by the Bidder to determine the bid for this project. The affidavit shall also list each bid document with sufficient specificity so a comparison may be made between the list and the bid documentation to ensure that all of the bid documentation listed in the affidavit has been enclosed for escrow. The affidavit shall attest that the affiant has personally examined the bid documentation, that the affidavit lists all of the documents used by the Bidder to determine the bid for this project, and that all bid documentation has been included. The affidavit shall be signed by a chief officer of the company, have the person's name and title typed below the signature, and the signature shall be notarized at the bottom of the affidavit.

Verification

Upon delivery of the bid documentation, the Department's Contract Officer and the Bidder's representative will verify the accuracy and completeness of the bid documentation compared to the affidavit. Should a discrepancy exist, the Bidder's representative shall immediately furnish the Department's Contract Officer with any other needed bid documentation. The Department's Contract Officer upon determining that the bid documentation is complete will, in the presence of the Bidder's representative, immediately place the complete bid documentation and affidavit in the container and seal it. Both parties will deliver the sealed container to the Escrow Agent for placement in a safety deposit box, vault, or other secure accommodation.

Confidentiality of Bid Documentation

The bid documentation and affidavit in escrow are, and will remain, the property of the Bidder. The Department has no interest in, or right to, the bid documentation and affidavit other than to verify the contents and legibility of the bid documentation unless the Contractor gives written notice of intent to file a claim, files a written claim, files a written and verified claim, or initiates litigation against the Department. In the event of such written notice of intent to file a claim, filing of a written claim, filing a written and verified claim, or initiation of litigation against the Department, or receipt of a letter from the Contractor authorizing release, the bid documentation and affidavit may become the property of the Department for use in considering any claim or in litigation as the Department may deem appropriate.

Any portion or portions of the bid documentation designated by the Bidder as a *trade secret* at the time the bid documentation is delivered to the Department's Contract Officer shall be protected from disclosure as provided by *G.S. 132-1.2*.

Duration and Use

The bid documentation and affidavit shall remain in escrow until 60 calendar days from the time the Contractor receives the final estimate; or until such time as the Contractor:

- (A) Gives written notice of intent to file a claim,
- (B) Files a written claim,
- (C) Files a written and verified claim,
- (D) Initiates litigation against the Department related to the contract; or
- (E) Authorizes in writing its release.

Upon the giving of written notice of intent to file a claim, filing a written claim, filing a written and verified claim, or the initiation of litigation by the Contractor against the Department, or receipt of a letter from the Contractor authorizing release, the Department may obtain the release and custody of the bid documentation.

The Bidder certifies and agrees that the sealed container placed in escrow contains all of the bid documentation used to determine the bid and that no other bid documentation shall be relevant or material in litigation over claims brought by the Contractor arising out of this contract.

Release of Bid Documentation to the Contractor

If the bid documentation remains in escrow 60 calendar days after the time the Contractor receives the final estimate and the Contractor has not filed a written claim, filed a written and verified claim, or has not initiated litigation against the Department related to the contract, the Department will instruct the Escrow Agent to release the sealed container to the Contractor.

The Contractor will be notified by certified letter from the Escrow Agent that the bid documentation will be released to the Contractor. The Contractor or his representative shall retrieve the bid documentation from the Escrow Agent within 30 days of the receipt of the certified letter. If the Contractor does not receive the documents within 30 days of the receipt of the certified letter, the Department will contact the Contractor to determine final dispersion of the bid documentation.

Payment

The cost of the escrow will be borne by the Department. There will be no separate payment for all costs of compilation of the data, container, or verification of the bid documentation. Payment at the various contract unit or lump sum prices in the contract will be full compensation for all such costs.

TWELVE MONTH GUARANTEE:

(7-15-03)

108

SP1 G145

- (A) The Contractor shall guarantee materials and workmanship against latent and patent defects arising from faulty materials, faulty workmanship or negligence for a period of twelve months following the date of final acceptance of the work for maintenance and shall replace such defective materials and workmanship without cost to the Department. The Contractor will not be responsible for damage due to faulty design, normal wear and tear, for negligence on the part of the Department, and/or for use in excess of the design.
- (B) Where items of equipment or material carry a manufacturer's guarantee for any period in excess of twelve months, then the manufacturer's guarantee shall apply for that particular piece of equipment or material. The Department's first remedy shall be through the manufacturer although the Contractor is responsible for invoking the warranted repair work with the manufacturer. The Contractor's responsibility shall be limited to the term of the manufacturer's guarantee. NCDOT would be afforded the same warranty as provided by the Manufacturer.

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

Appropriate provisions of the payment and/or performance bonds shall cover this guarantee for the project.

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

EROSION AND SEDIMENT CONTROL/STORMWATER CERTIFICATION:

(1-16-07) (Rev 12-15-20)

105-16, 225-2, 16

SP1 G180

General

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

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

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

Roles and Responsibilities

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

- (a) Oversee the work of subcontractors so that appropriate erosion and sediment control/stormwater preventive measures are conformed to at each stage of the work.
 - (b) Prepare the required National Pollutant Discharge Elimination System (NPDES) Inspection Record and submit to the Engineer.
 - (c) Attend all weekly or monthly construction meetings to discuss the findings of the NPDES inspection and other related issues.
 - (d) Implement the erosion and sediment control/stormwater site plans requested.
 - (e) Provide any needed erosion and sediment control/stormwater practices for the Contractor's temporary work not shown on the plans, such as, but not limited to work platforms, temporary construction, pumping operations, plant and storage yards, and cofferdams.
 - (f) Acquire applicable permits and comply with requirements for borrow pits, dewatering, and any temporary work conducted by the Contractor in jurisdictional areas.
 - (g) Conduct all erosion and sediment control/stormwater work in a timely and workmanlike manner.
 - (h) Fully perform and install erosion and sediment control/stormwater work prior to any suspension of the work.
 - (i) Coordinate with Department, Federal, State and Local Regulatory agencies on resolution of erosion and sediment control/stormwater issues due to the Contractor's operations.
 - (j) Ensure that proper cleanup occurs from vehicle tracking on paved surfaces or any location where sediment leaves the Right-of-Way.
 - (k) Have available a set of erosion and sediment control/stormwater plans that are initialed and include the installation date of Best Management Practices. These practices shall include temporary and permanent groundcover and be properly updated to reflect necessary plan and field changes for use and review by Department personnel as well as regulatory agencies.
- (2) Requirements set forth under the NPDES Permit - The Department's NPDES Stormwater permit (NCS000250) outlines certain objectives and management measures pertaining to construction activities. The permit references *NCG010000, General Permit to Discharge Stormwater* under the NPDES, and states that the Department shall incorporate the applicable requirements into its delegated Erosion and Sediment Control Program for construction activities disturbing one or more acres of land. The Department further incorporates these requirements on all contracted bridge and culvert work at jurisdictional waters, regardless of size. Some of the requirements are, but are not limited to:
- (a) Control project site waste to prevent contamination of surface or ground waters of the state, i.e. from equipment operation/maintenance, construction materials, concrete washout, chemicals, litter, fuels, lubricants, coolants, hydraulic fluids, any other petroleum products, and sanitary waste.
 - (b) Inspect erosion and sediment control/stormwater devices and stormwater discharge outfalls at least once every 7 calendar days and within 24 hours after a rainfall event equal to or greater than 1.0 inch that occurs within a 24

- hour period. Additional monitoring may be required at the discretion of Division of Water Resources personnel if the receiving stream is 303(d) listed for turbidity and the project has had documented problems managing turbidity.
- (c) Maintain an onsite rain gauge or use the Department's Multi-Sensor Precipitation Estimate website to maintain a daily record of rainfall amounts and dates.
 - (d) Maintain erosion and sediment control/stormwater inspection records for review by Department and Regulatory personnel upon request.
 - (e) Implement approved reclamation plans on all borrow pits, waste sites and staging areas.
 - (f) Maintain a log of turbidity test results as outlined in the Department's Procedure for Monitoring Borrow Pit Discharge.
 - (g) Provide secondary containment for bulk storage of liquid materials.
 - (h) Provide training for employees concerning general erosion and sediment control/stormwater awareness, the Department's NPDES Stormwater Permit NCS000250 requirements, and the applicable requirements of the *General Permit, NCG010000*.
 - (i) Report violations of the NPDES permit to the Engineer immediately who will notify the Division of Water Quality Regional Office within 24 hours of becoming aware of the violation.
- (3) Quality Control Program - Maintain a quality control program to control erosion, prevent sedimentation and follow provisions/conditions of permits. The quality control program shall:
- (a) Follow permit requirements related to the Contractor and subcontractors' construction activities.
 - (b) Ensure that all operators and subcontractors on site have the proper erosion and sediment control/stormwater certification.
 - (c) Notify the Engineer when the required certified erosion and sediment control/stormwater personnel are not available on the job site when needed.
 - (d) Conduct the inspections required by the NPDES permit.
 - (e) Take corrective actions in the proper timeframe as required by the NPDES permit for problem areas identified during the NPDES inspections.
 - (f) Incorporate erosion control into the work in a timely manner and stabilize disturbed areas with mulch/seed or vegetative cover on a section-by-section basis.
 - (g) Use flocculants approved by state regulatory authorities where appropriate and where required for turbidity and sedimentation reduction.
 - (h) Ensure proper installation and maintenance of temporary erosion and sediment control devices.
 - (i) Remove temporary erosion or sediment control devices when they are no longer necessary as agreed upon by the Engineer.
 - (j) The Contractor's quality control and inspection procedures shall be subject to review by the Engineer. Maintain NPDES inspection records and make records available at all times for verification by the Engineer.

(B) *Certified Foreman* - At least one Certified Foreman shall be onsite for each type of work listed herein during the respective construction activities to control erosion, prevent sedimentation and follow permit provisions:

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

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

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

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

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

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

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

Preconstruction Meeting

Furnish the names of the *Certified Erosion and Sediment Control/Stormwater Supervisor, Certified Foremen, Certified Installers* and *Certified Designer* and notify the Engineer of changes in certified personnel over the life of the contract within 2 days of change.

Ethical Responsibility

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

Revocation or Suspension of Certification

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

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

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

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

A certificant has the right to appeal any adverse action which results in suspension or permanent revocation of certification by responding, in writing, to the Chief Engineer within 10 calendar days after receiving notice of the proposed adverse action.

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

Failure to appeal within 10 calendar days will result in the proposed adverse action becoming effective on the date specified on the certified notice. Failure to appeal within the time specified

will result in a waiver of all future appeal rights regarding the adverse action taken. The certificant will not be allowed to perform duties associated with the certification during the appeal process.

The Chief Engineer will hear the appeal and make a decision within 7 days of hearing the appeal. Decision of the Chief Engineer will be final and will be made in writing to the certificant.

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

Measurement and Payment

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

PROCEDURE FOR MONITORING BORROW PIT DISCHARGE:

(2-20-07) (Rev. 1-16-24)

105-16, 230, 801

SP1 G181

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

If during any operating day, the downstream water quality exceeds the standard, the Contractor shall do all of the following:

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

During the Environmental Assessment required by Article 230-4 of the *Standard Specifications*, the Contractor shall define the point at which the discharge enters into the State's surface waters and the appropriate sampling locations. Sampling locations shall include points upstream and downstream from the point at which the discharge enters these waters. Upstream sampling location shall be located so that it is not influenced by backwater conditions and represents natural

background conditions. Downstream sampling location shall be located at the point where complete mixing of the discharge and receiving water has occurred.

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

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

The Contractor shall use the *NCDOT Turbidity Reduction Options for Borrow Pits Matrix*, available at <https://connect.ncdot.gov/resources/roadside/FieldOperationsDocuments/TurbidityReductionOptionSheet.pdf> to plan, design, construct, and maintain BMPs to address water quality standards. Tier I Methods include stilling basins which are standard compensatory BMPs. Other Tier I methods are noncompensatory and shall be used when needed to meet the stream turbidity standards. Tier II Methods are also noncompensatory and are options that may be needed for protection of rare or unique resources or where special environmental conditions exist at the site which have led to additional requirements being placed in the DWQ's 401 Certifications and approval letters, Isolated Wetland Permits, Riparian Buffer Authorization or a DOT Reclamation Plan's Environmental Assessment for the specific site. Should the Contractor exhaust all Tier I Methods on a site exclusive of rare or unique resources or special environmental conditions, Tier II Methods may be required by regulators on a case by case basis per supplemental agreement.

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

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

NOTES TO CONTRACTOR:

Lighting used for nighttime construction shall be limited to what is necessary to maintain safety standards. Temporary lighting shall be indirect in nature and shall not project into adjacent forested areas or over the water surface of Hominy Creek.

Nighttime construction within 50' of Hominy Creek between April 1 and October 15 shall only be permitted for causeway construction, drilled shafts, concrete pours and traffic shifts.

All construction equipment shall be refueled above the 100-year base flood elevation, plus a foot freeboard, of Ragsdale Creek and Trent Branch, and be protected with secondary containment. During crucial periods of construction and demolition, when the drill rig and crane cannot be moved, the drill rig and crane can be refueled while inside the 100-year floodplain provided that spill response materials (such as spill blankets and fueling diapers) are used during refueling. Hazardous materials, fuel, lubrication oils, or other chemicals shall be stored above the 100-year base flood elevation plus a foot of freeboard.

Areas used for borrow or construction by-products will not be located within wetlands or the 100-year base flood elevation, plus a foot freeboard, of Ragsdale Creek and Trent Branch.

The contractor shall meet with NCDOT personnel and USFWS representatives after the execution of the contract and prior to commencement of construction activities. At this time the project will be reviewed along with the project commitments. The USFWS shall be afforded the opportunity to provide education on the effects of artificial lighting, noise and construction on nearby wildlife habitat and behavior.

The contractor shall report any dead bats found on the construction site to the Engineer. The Engineer will inform the USFWS.

In accordance with 36 CFR 800.11(a), If the NCDOT identifies additional cultural resource(s) during construction activities, all work shall be halted within the limits of the resource(s) and the Engineer will contact the FHWA and SHPO. The NCDOT and FHWA will initiate the appropriate agency and / or Tribal coordination required for a determination of eligibility or recovery effort. If after consultation between agencies and concurring parties additional mitigation is deemed necessary, the NCDOT, in consultation with agencies and concurring parties, will develop and implement appropriate protection / mitigation measures for the resources. Inadvertent or accidental discovery of human remains will be handled in accordance with North Carolina General Statutes 65 and 70.

County: BUNCOMBE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEM						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0001000000-E	200	CLEARING & GRUBBING .. ACRE(S)	Lump Sum	L.S.	
0004	0008000000-E	200	SUPPLEMENTARY CLEARING & GRUBBING	3 ACR		
0005	0022000000-E	225	UNCLASSIFIED EXCAVATION	179,900 CY		
0006	0036000000-E	225	UNDERCUT EXCAVATION	19,110 CY		
0007	0106000000-E	230	BORROW EXCAVATION	16,350 CY		
0008	0127000000-N	235	EMBANKMENT SETTLEMENT GAUGES	6 EA		
0009	0134000000-E	240	DRAINAGE DITCH EXCAVATION	5,310 CY		
0010	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	55,850 SY		
0011	0163000000-E	250	REMOVAL OF EXISTING CONCRETE PAVEMENT	68,000 SY		
0012	0192000000-N	260	PROOF ROLLING	18 HR		
0013	0195000000-E	265	SELECT GRANULAR MATERIAL	2,650 CY		
0014	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	14,250 SY		
0015	0223000000-E	275	ROCK PLATING	5,200 SY		
0016	0225000000-E	SP	REINFORCED SOIL SLOPES	1,375 SY		
0017	0234000000-E	SP	GENERIC GRADING ITEM ENGINEERED SOIL MEDIA	255 CY		

County: BUNCOMBE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	0241000000-E	SP	GENERIC GRADING ITEM ZOYSIA SOD	750 SY		
0019	0248000000-N	SP	GENERIC GRADING ITEM SPECIAL BRIDGE APPROACH FILL, STA 21+50.52 -Y5RPA-	Lump Sum	L.S.	
0020	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STA 18+21.12 -Y5RPA-	Lump Sum	L.S.	
0021	0255000000-E	SP	GENERIC GRADING ITEM WASHED COARSE AGGREGATE (STD SIZE NO 57)	143 TON		
0022	0314000000-E	SP	SELECT MATERIAL, CLASS ***** (IV)	65 TON		
0023	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	1,460 TON		
0024	0321000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	4,710 SY		
0025	0342000000-E	310	*** SIDE DRAIN PIPE (30")	116 LF		
0026	0342000000-E	310	*** SIDE DRAIN PIPE (36")	16 LF		
0027	0342000000-E	310	*** SIDE DRAIN PIPE (48")	124 LF		
0028	0343000000-E	310	15" SIDE DRAIN PIPE	1,512 LF		
0029	0344000000-E	310	18" SIDE DRAIN PIPE	292 LF		
0030	0345000000-E	310	24" SIDE DRAIN PIPE	192 LF		
0031	0348000000-E	310	*** SIDE DRAIN PIPE ELBOWS (15")	25 EA		
0032	0348000000-E	310	*** SIDE DRAIN PIPE ELBOWS (18")	4 EA		
0033	0348000000-E	310	*** SIDE DRAIN PIPE ELBOWS (24")	5 EA		
0034	0348000000-E	310	*** SIDE DRAIN PIPE ELBOWS (30")	2 EA		

County: BUNCOMBE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	92 LF		
0036	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	32 LF		
0037	0384000000-E	310	30" RC PIPE CULVERTS, CLASS III	12 LF		
0038	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	5,800 LF		
0039	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	1,668 LF		
0040	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	340 LF		
0041	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	8 LF		
0042	0576000000-E	310	*** CS PIPE CULVERTS, ***** THICK (84", 0.168")	64 LF		
0043	0582000000-E	310	15" CS PIPE CULVERTS, 0.064" THICK	68 LF		
0044	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (60", 0.875")	196 LF		
0045	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (66", 0.875")	176 LF		
0046	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (60", 0.875")	196 LF		
0047	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (66", 0.875")	176 LF		
0048	0986000000-E	SP	GENERIC PIPE ITEM 15" REHABILITATION CIPP LINER	68 LF		
0049	0986000000-E	SP	GENERIC PIPE ITEM 18" REHABILITATION CIPP LINER	260 LF		
0050	0986000000-E	SP	GENERIC PIPE ITEM 6" HDPE NONPERFORATED	33 LF		

County: BUNCOMBE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0051	0986000000-E	SP	GENERIC PIPE ITEM 6" HDPE PERFORATED	210 LF		
0052	0986000000-E	SP	GENERIC PIPE ITEM 6" HDPE PIPE	30 LF		
0053	0986000000-E	SP	GENERIC PIPE ITEM 8" HDPE PIPE	190 LF		
0054	0992000000-E	SP	GENERIC PIPE ITEM 6" CLEANOUT	11 EA		
0055	0992000000-E	SP	GENERIC PIPE ITEM 6" CLEANOUT CAP (THREADED)	11 EA		
0056	0992000000-E	SP	GENERIC PIPE ITEM 6" HDPE 45-DEGREE BEND	1 EA		
0057	0992000000-E	SP	GENERIC PIPE ITEM 6" HDPE CROSS	2 EA		
0058	0992000000-E	SP	GENERIC PIPE ITEM 6" X 6" X 6" HDPE TEE	4 EA		
0059	0995000000-E	340	PIPE REMOVAL	4,877 LF		
0060	0996000000-N	350	PIPE CLEAN OUT	6 EA		
0061	1011000000-N	500	FINE GRADING	Lump Sum	L.S.	
0062	1099500000-E	505	SHALLOW UNDERCUT	2,000 CY		
0063	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	40,100 TON		
0064	1110000000-E	510	STABILIZER AGGREGATE	1,000 TON		
0065	1112000000-E	505	GEOTEXTILE FOR SUBGRADE STABILIZATION	86,225 SY		
0066	1121000000-E	520	AGGREGATE BASE COURSE	5,413 TON		
0067	1220000000-E	545	INCIDENTAL STONE BASE	250 TON		

County: BUNCOMBE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0068	1275000000-E	600	PRIME COAT	106 GAL		
0069	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	11,900 SY		
0070	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 3")	18,200 SY		
0071	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 9")	2,150 SY		
0072	1330000000-E	607	INCIDENTAL MILLING	2,680 SY		
0073	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	38,335 TON		
0074	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	15,300 TON		
0075	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	2,280 TON		
0076	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	7,830 TON		
0077	1524200000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5D	13,050 TON		
0078	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	2,915 TON		
0079	1577000000-E	620	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	855 TON		
0080	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	2,500 TON		
0081	1839140000-E	661	ULTRA-THIN BONDED WEARING COURSE	1,490 TON		
0082	1840000000-E	665	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	59,720 LF		
0083	1847000000-E	710	***** PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (14")	78,100 SY		

County: BUNCOMBE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0084	1858000000-E	710	***** PORT CEM CONC PAVEMENT, RAMPS (WITH DOWELS) (12")	7,100 SY		
0085	1858000000-E	710	***** PORT CEM CONC PAVEMENT, RAMPS (WITH DOWELS) (14")	4,000 SY		
0086	1891000000-E	SP	GENERIC PAVING ITEM NEXT GENERATION CONCRETE SURFACE (NGCS) GRINDING	88,100 SY		
0087	1920000000-E	724	NONWOVEN GEOTEXTILE INTERLAYER	19,000 SY		
0088	1924000000-N	725	FIELD LABORATORY RENTAL, PORT CEM CONC PAVEMENT	Lump Sum	L.S.	
0089	2022000000-E	815	SUBDRAIN EXCAVATION	1,612 CY		
0090	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	7,200 SY		
0091	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	1,210 CY		
0092	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	7,200 LF		
0093	2070000000-N	815	SUBDRAIN PIPE OUTLET	15 EA		
0094	2077000000-E	815	6" OUTLET PIPE	90 LF		
0095	2099000000-E	816	SHOULDER DRAIN	11,300 LF		
0096	2110000000-E	816	4" SHOULDER DRAIN PIPE	11,300 LF		
0097	2121000000-E	816	4" OUTLET PIPE FOR SHOULDER DRAINS	270 LF		
0098	2132000000-N	816	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	5 EA		
0099	2190000000-N	828	TEMPORARY STEEL PLATE COVERS FOR MASONRY DRAINAGE STRUCTURE	6 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0100	2209000000-E	838	ENDWALLS	6 CY		
0101	2220000000-E	838	REINFORCED ENDWALLS	12.5 CY		
0102	2253000000-E	840	PIPE COLLARS	6.32 CY		
0103	2275000000-E	SP	FLOWABLE FILL	331 CY		
0104	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	103 EA		
0105	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	116.03 LF		
0106	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	1 EA		
0107	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	11 EA		
0108	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	4 EA		
0109	2396000000-N	840	FRAME WITH COVER, STD 840.54	9 EA		
0110	2407000000-N	840	STEEL FRAME WITH TWO GRATES, STD 840.37	75 EA		
0111	2473000000-N	SP	GENERIC DRAINAGE ITEM CONVERT EXISTING TRAFFIC BEARING CATCH BASIN TO TRAFFIC BEARING JUCTION BOX	1 EA		
0112	2473000000-N	SP	GENERIC DRAINAGE ITEM PVC/HDPE DRAINAGE STRUCTURE	2 EA		
0113	2473000000-N	SP	GENERIC DRAINAGE ITEM TRASH RACK FOR RISER	1 EA		
0114	2489000000-E	SP	GENERIC DRAINAGE ITEM POLYPROPYLENE NONWOVEN GEOTEXTILE FABRIC	410 SY		
0115	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	680 LF		
0116	2556000000-E	846	SHOULDER BERM GUTTER	7,090 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0117	2577000000-E	846	CONCRETE EXPRESSWAY GUTTER	5,760 LF		
0118	2591000000-E	848	4" CONCRETE SIDEWALK	20 SY		
0119	2605000000-N	848	CONCRETE CURB RAMPS	1 EA		
0120	2619000000-E	850	4" CONCRETE PAVED DITCH	1,220 SY		
0121	2627000000-E	852	4" CONCRETE ISLAND COVER	371 SY		
0122	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	90 SY		
0123	2703000000-E	854	CONCRETE BARRIER, TYPE ***** (SINGLE SLOPE)	420 LF		
0124	2710000000-N	854	CONCRETE BARRIER TRANSITION SECTION	6 EA		
0125	2724000000-E	857	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	4,485 LF		
0126	2815000000-N	858	ADJUSTMENT OF DROP INLETS	5 EA		
0127	2905000000-N	859	CONVERT EXISTING DROP INLET TO JUNCTION BOX	1 EA		
0128	3001000000-N	SP	IMPACT ATTENUATOR UNITS, TYPE TL-3	2 EA		
0129	3030000000-E	862	STEEL BEAM GUARDRAIL	22,325 LF		
0130	3135000000-N	862	W-TR STEEL BEAM GUARDRAIL TRANSITION SECTIONS	6 EA		
0131	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	20 EA		
0132	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	10 EA		
0133	3287000000-N	862	GUARDRAIL END UNITS, TYPE TL-3	9 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0134	3288000000-N	862	GUARDRAIL END UNITS, TYPE TL-2	2 EA		
0135	3317000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE B-77	16 EA		
0136	3360000000-E	863	REMOVE EXISTING GUARDRAIL	22,530 LF		
0137	3380000000-E	862	TEMPORARY STEEL BEAM GUARDRAIL	3,550 LF		
0138	3387000000-N	862	TEMPORARY GUARDRAIL ANCHOR UNITS, TYPE ***** (B-77)	1 EA		
0139	3389150000-N	862	TEMPORARY GUARDRAIL END UNITS, TYPE ***** (CAT-1)	5 EA		
0140	3389150000-N	862	TEMPORARY GUARDRAIL END UNITS, TYPE ***** (TL-3)	1 EA		
0141	3500000000-E	866	WOVEN WIRE FENCE, *** FABRIC (47")	8,300 LF		
0142	3506000000-E	866	4" TIMBER FENCE POSTS, ***** LONG (8')	495 EA		
0143	3512000000-E	866	5" TIMBER FENCE POSTS, ***** LONG (8')	195 EA		
0144	3536000000-E	866	CHAIN LINK FENCE, 48" FABRIC	780 LF		
0145	3542000000-E	866	METAL LINE POSTS FOR 48" CHAIN LINK FENCE	65 EA		
0146	3548000000-E	866	METAL TERMINAL POSTS FOR 48" CHAIN LINK FENCE	10 EA		
0147	3628000000-E	876	RIP RAP, CLASS I	1,690 TON		
0148	3635000000-E	876	RIP RAP, CLASS II	5,750 TON		
0149	3649000000-E	876	RIP RAP, CLASS B	195 TON		
0150	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	7,975 SY		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0151	3832000000-E	SP	RAILROAD TRACK TO BE REMOVED	120 TF		
0152	3880000000-E	SP	GENERIC TRACKWORK ITEM RAILROAD TRACK TO BE INSTALLED	120 TF		
0153	3884000000-N	SP	GENERIC TRACKWORK ITEM CROSSTIE	85 EA		
0154	3884000000-N	SP	GENERIC TRACKWORK ITEM CROSSTIE DISPOSAL	85 EA		
0155	3885000000-E	SP	GENERIC TRACKWORK ITEM BALLAST	118 TON		
0156	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN (D)	2 SF		
0157	4048000000-E	902	REINFORCED CONCRETE SIGN FOUNDATIONS	15 CY		
0158	4054000000-E	902	PLAIN CONCRETE SIGN FOUNDATIONS	3 CY		
0159	4057000000-E	SP	OVERHEAD FOOTING	375 CY		
0160	4060000000-E	903	SUPPORTS, BREAKAWAY STEEL BEAM	10,453 LB		
0161	4066000000-E	903	SUPPORTS, SIMPLE STEEL BEAM	4,642 LB		
0162	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	1,118 LF		
0163	4080000000-N	903	SUPPORTS, BARRIER (LARGE)	3 EA		
0164	4096000000-N	904	SIGN ERECTION, TYPE D	1 EA		
0165	4102000000-N	904	SIGN ERECTION, TYPE E	33 EA		
0166	4108000000-N	904	SIGN ERECTION, TYPE F	7 EA		
0167	4109000000-N	904	SIGN ERECTION, TYPE *** (OVERHEAD) (A)	9 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0168	4109000000-N	904	SIGN ERECTION, TYPE *** (OVERHEAD) (B)	2 EA		
0169	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	19 EA		
0170	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	3 EA		
0171	4114000000-N	904	SIGN ERECTION, MILEMARKERS	10 EA		
0172	4116000000-N	904	SIGN ERECTION, OVERLAY (GROUND MOUNTED)	1 EA		
0173	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (A)	2 EA		
0174	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (D)	2 EA		
0175	4116450000-N	904	SIGN ERECTION, LOGO MILEAGE PANEL TO SIGN	18 EA		
0176	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (11+00 -Y- WB)	Lump Sum	L.S.	
0177	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (23+00 -Y- EB)	Lump Sum	L.S.	
0178	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (32+50 -Y-)	Lump Sum	L.S.	
0179	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (39+00 -L1- EB LT)	Lump Sum	L.S.	
0180	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (43+50 -Y- LT)	Lump Sum	L.S.	
0181	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (49+00 -L1- WB)	Lump Sum	L.S.	
0182	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (58+00 -L1- WB)	Lump Sum	L.S.	

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0183	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (62+50 -Y- LT)	Lump Sum	L.S.	
0184	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (65+00 -Y-)	Lump Sum	L.S.	
0185	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (78+00 -Y- LT)	Lump Sum	L.S.	
0186	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (90+50 -Y-)	Lump Sum	L.S.	
0187	4138000000-N	907	DISPOSAL OF SUPPORT, STEEL BEAM	4 EA		
0188	4149000000-N	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD	9 EA		
0189	4152000000-N	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	19 EA		
0190	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	48 EA		
0191	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	4 EA		
0192	4234000000-N	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)	11 EA		
0193	4360000000-N	SP	GENERIC SIGNING ITEM SIGN ERECTION, RELOCATE, LOGO BUSINESS PANEL	34 EA		
0194	4402000000-E	SP	HIGH VISIBILITY STATIONARY SIGNS	1,362 SF		
0195	4407000000-E	SP	HIGH VISIBILITY PORTABLE SIGNS	640 SF		
0196	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	60 SF		
0197	4415000000-N	1115	FLASHING ARROW BOARD	16 EA		
0198	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	10 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0199	4422000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)	210 DAY		
0200	4423000000-N	SP	WORK ZONE DIGITAL SPEED LIMIT SIGNS	12 EA		
0201	4424000000-N	SP	WORK ZONE PRESENCE LIGHTING	42 EA		
0202	4432000000-N	SP	HIGH VISIBILITY DRUMS	750 EA		
0203	4434000000-N	1140	SEQUENTIAL FLASHING WARNING LIGHTS	48 EA		
0204	4445000000-E	1145	BARRICADES (TYPE III)	200 LF		
0205	4455000000-N	1150	FLAGGER	40 DAY		
0206	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	10 EA		
0207	4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	19 EA		
0208	4480000000-N	1165	TMA	8 EA		
0209	4485000000-E	1170	PORTABLE CONCRETE BARRIER	54,910 LF		
0210	4490000000-E	1170	PORTABLE CONCRETE BARRIER (ANCHORED)	2,250 LF		
0211	4500000000-E	1170	REMOVE AND RESET PORTABLE CONCRETE BARRIER	43,330 LF		
0212	4510000000-N	1190	LAW ENFORCEMENT	1,700 HR		
0213	4570000000-E	SP	TEMPORARY GLARE SCREEN	8,500 LF		
0214	4600000000-N	SP	GENERIC TRAFFIC CONTROL ITEM CONNECTED LANE CLOSURE SYSTEM	12 EA		
0215	4600000000-N	SP	GENERIC TRAFFIC CONTROL ITEM CONTRACTOR FURNISHED, TEMP GUIDE SIGN (TYPE A & B) SYSTEM	10 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0216	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	515 EA		
0217	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	4,170 LF		
0218	4709000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	162 LF		
0219	4720000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)	80 EA		
0220	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	60 EA		
0221	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	480 LF		
0222	4840000000-N	1205	PAINT PAVEMENT MARKING CHARACTER	70 EA		
0223	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	35 EA		
0224	4846000000-E	1205	POLYUREA PAVEMENT MARKING LINES (***, ***) MILS) (12", 20 MILS)	12,817 LF		
0225	4846000000-E	1205	POLYUREA PAVEMENT MARKING LINES (***, ***) MILS) (4", 20 MILS)	441 LF		
0226	4846000000-E	1205	POLYUREA PAVEMENT MARKING LINES (***, ***) MILS) (6", 20 MILS)	82,877 LF		
0227	4846000000-E	1205	POLYUREA PAVEMENT MARKING LINES (***, ***) MILS) (8", 20 MILS)	42 LF		
0228	4847300000-N	1205	IN LANE ROUTE SHIELDS	21 EA		
0229	4847400000-E	SP	WORK ZONE PERFORMANCE PAVEMENT MARKING LINES, 4"	3,000 LF		
0230	4847500000-E	SP	WORK ZONE PERFORMANCE PAVEMENT MARKING LINES, 6"	257,900 LF		
0231	4847600000-E	SP	WORK ZONE PERFORMANCE PAVEMENT MARKING LINES, 12"	26,100 LF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0232	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	950 LF		
0233	4855000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (6")	189,800 LF		
0234	4865000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (12")	18,500 LF		
0235	4870000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (24")	300 LF		
0236	4875000000-N	1205	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	70 EA		
0237	4880000000-E	1205	CURING COMPOUND REMOVAL, LINES	40,650 LF		
0238	4885000000-N	1205	CURING COMPOUND REMOVAL, SYMBOLS & CHARACTERS	12 EA		
0239	4905100000-N	1253	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	2,417 EA		
0240	5015000000-E	1401	120' HIGH MOUNT STANDARD	1 EA		
0241	5020000000-N	1401	PORTABLE DRIVE UNIT	1 EA		
0242	5025000000-E	SP	HIGH MOUNT FOUNDATIONS	9 CY		
0243	5030000000-N	SP	HIGH MOUNT LUMINAIRES ***** (560W LED)	8 EA		
0244	5050000000-N	1404	LIGHT STANDARDS, TYPE MTLT ***** (45' SA, 15' ARM)	48 EA		
0245	5070000000-N	SP	STANDARD FOUNDATION ***** (R1)	46 EA		
0246	5070000000-N	SP	STANDARD FOUNDATION ***** (R2)	2 EA		
0247	5080000000-N	SP	LIGHT STANDARD LUMINAIRES, TYPE ***** (RDW, 150W LED)	48 EA		
0248	5120000000-N	1407	ELECTRIC SERVICE POLE ***** (30' CLASS 4)	2 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0249	5125000000-E	1407	ELECTRIC SERVICE LATERAL ***** (3 #1/0 USE)	50 LF		
0250	5145000000-N	1408	LIGHT CONTROL EQUIPMENT, TYPE RW ***** TYPE RW 240/480V	1 EA		
0251	5150000000-E	1409	ELECTRICAL DUCT, TYPE **, SIZE ***** (TL, 3")	230 LF		
0252	5150000000-E	1409	ELECTRICAL DUCT, TYPE **, SIZE ***** (TL, 4")	360 LF		
0253	5155000000-E	1409	ELECTRICAL DUCT, TYPE BD, SIZE ***** (2")	430 LF		
0254	5155000000-E	1409	ELECTRICAL DUCT, TYPE BD, SIZE ***** (3")	30 LF		
0255	5170000000-E	1410	** #8 W/G FEEDER CIRCUIT (2)	500 LF		
0256	5175000000-E	1410	** #6 W/G FEEDER CIRCUIT (2)	1,825 LF		
0257	5185000000-E	1410	** #2 W/G FEEDER CIRCUIT (2)	560 LF		
0258	5205000000-E	1410	** #8 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1-1/2")	7,885 LF		
0259	5210000000-E	1410	** #6 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1-1/2")	8,116 LF		
0260	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (CS36)	2 EA		
0261	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (HM18)	1 EA		
0262	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (IG18)	14 EA		
0263	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (LS18)	48 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0264	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0265	5260000000-N	SP	GENERIC LIGHTING ITEM ELECTRICAL CONDUIT SYSTEM AT 20+16.70 -Y5RPA-	Lump Sum	L.S.	
0266	5270000000-N	SP	GENERIC LIGHTING ITEM CONTROL NODE	56 EA		
0267	5270000000-N	SP	GENERIC LIGHTING ITEM FORMED OPENING	1 EA		
0268	5270000000-N	SP	GENERIC LIGHTING ITEM RELOCATE CONTROL SYSTEM	1 EA		
0269	5270000000-N	SP	GENERIC LIGHTING ITEM REMOVE 100' HIGH MAST STANDARD FOUNDATION	1 EA		
0270	5270000000-N	SP	GENERIC LIGHTING ITEM REMOVE 100' HIGH MOUNT LIGHT STANDARD	1 EA		
0271	5270000000-N	SP	GENERIC LIGHTING ITEM REMOVE CONTROL SYSTEM	1 EA		
0272	5270000000-N	SP	GENERIC LIGHTING ITEM REMOVE LIGHT STANDARD FOUNDATION	31 EA		
0273	5270000000-N	SP	GENERIC LIGHTING ITEM REMOVE SINGLE ARM LIGHT STANDARD	31 EA		
0274	5319000000-E	1505	CLASS B CONCRETE FOR ENCASING UTILITY LINES	23 CY		
0275	5325000000-E	1510	*** WATER LINE (18")	9 LF		
0276	5325200000-E	1510	2" WATER LINE	36 LF		
0277	5325600000-E	1510	6" WATER LINE	87 LF		
0278	5327400000-E	1510	24" WATER LINE	703 LF		
0279	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	9,400 LB		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0280	5536000000-E	1515	2" VALVE	1 EA		
0281	5559400000-E	1515	24" VALVE	2 EA		
0282	5691300000-E	1520	8" SANITARY GRAVITY SEWER	1,419 LF		
0283	5691700000-E	1520	18" SANITARY GRAVITY SEWER	1,152 LF		
0284	5768000000-N	1520	SANITARY SEWER CLEAN-OUT	3 EA		
0285	5768500000-E	1520	SEWER SERVICE LINE	139 LF		
0286	5769000000-E	1520	DUCTILE IRON SEWER PIPE FITTINGS	85 LB		
0287	5775000000-E	1525	4' DIA UTILITY MANHOLE	10 EA		
0288	5776000000-E	1525	5' DIA UTILITY MANHOLE	5 EA		
0289	5781000000-E	1525	UTILITY MANHOLE WALL 4' DIA	90 LF		
0290	5798000000-E	1530	ABANDON **** UTILITY PIPE (4")	142 LF		
0291	5800000000-E	1530	ABANDON 6" UTILITY PIPE	100 LF		
0292	5801000000-E	1530	ABANDON 8" UTILITY PIPE	1,382 LF		
0293	5804000000-E	1530	ABANDON 12" UTILITY PIPE	93 LF		
0294	5810000000-E	1530	ABANDON 16" UTILITY PIPE	87 LF		
0295	5811000000-E	1530	ABANDON 18" UTILITY PIPE	1,846 LF		
0296	5816000000-N	1530	ABANDON UTILITY MANHOLE	8 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0297	5828000000-N	1530	REMOVE UTILITY MANHOLE	4 EA		
0298	5835000000-E	1540	*** ENCASEMENT PIPE (48")	347 LF		
0299	5836000000-E	1540	24" ENCASEMENT PIPE	440 LF		
0300	5836400000-E	1540	36" ENCASEMENT PIPE	880 LF		
0301	5872500000-E	1550	BORE AND JACK OF *** (24")	440 LF		
0302	5872500000-E	1550	BORE AND JACK OF *** (36")	880 LF		
0303	5872500000-E	1550	BORE AND JACK OF *** (48")	347 LF		
0304	6000000000-E	1605	TEMPORARY SILT FENCE	27,170 LF		
0305	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	1,080 TON		
0306	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	4,770 TON		
0307	6012000000-E	1610	SEDIMENT CONTROL STONE	3,820 TON		
0308	6015000000-E	1615	TEMPORARY MULCHING	71.5 ACR		
0309	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	3,500 LB		
0310	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	18 TON		
0311	6024000000-E	1622	TEMPORARY SLOPE DRAINS	1,990 LF		
0312	6029000000-E	SP	SAFETY FENCE	800 LF		
0313	6030000000-E	1630	SILT EXCAVATION	14,950 CY		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0314	6036000000-E	1631	MATTING FOR EROSION CONTROL	132,300 SY		
0315	6037000000-E	1629	COIR FIBER MAT	100 SY		
0316	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	235 SY		
0317	6042000000-E	1632	1/4" HARDWARE CLOTH	9,050 LF		
0318	6043000000-E	1644	LOW PERMEABILITY GEOTEXTILE	500 SY		
0319	6045000000-E	SP	*** TEMPORARY PIPE (24")	80 LF		
0320	6045000000-E	SP	*** TEMPORARY PIPE (36")	100 LF		
0321	6069000000-E	1638	STILLING BASINS	140 CY		
0322	6070000000-N	1639	SPECIAL STILLING BASINS	8 EA		
0323	6071002000-E	1642	FLOCCULANT	2,985 LB		
0324	6071012000-E	1642	COIR FIBER WATTLE	3,560 LF		
0325	6071014000-E	1642	COIR FIBER WATTLE BARRIER	11,658 LF		
0326	6071030000-E	1640	COIR FIBER BAFFLE	2,325 LF		
0327	6071050000-E	1644	*** SKIMMER (1-1/2")	9 EA		
0328	6071050000-E	1644	*** SKIMMER (2")	2 EA		
0329	6084000000-E	1660	SEEDING & MULCHING	51 ACR		
0330	6087000000-E	1660	MOWING	45 ACR		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0331	6090000000-E	1661	SEED FOR REPAIR SEEDING	750 LB		
0332	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	2 TON		
0333	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	1,200 LB		
0334	6108000000-E	1665	FERTILIZER TOPDRESSING	36 TON		
0335	6111000000-E	SP	IMPERVIOUS DIKE	175 LF		
0336	6114500000-N	1667	SPECIALIZED HAND MOWING	95 MHR		
0337	6114800000-N	SP	MANUAL LITTER REMOVAL	25 MHR		
0338	6114900000-E	SP	LITTER DISPOSAL	4 TON		
0339	6117000000-N	1675	RESPONSE FOR EROSION CONTROL	100 EA		
0340	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	10 EA		
0341	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION CLEANOUT	1,026 EA		
0342	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION, TYPE 1	342 EA		
0343	7060000000-E	1705	SIGNAL CABLE	3,225 LF		
0344	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	18 EA		
0345	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	3 EA		
0346	7252000000-E	1710	MESSENGER CABLE (1/4")	50 LF		
0347	7264000000-E	1710	MESSENGER CABLE (3/8")	800 LF		

County: BUNCOMBE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0348	7279000000-E	1715	TRACER WIRE	17,600 LF		
0349	7288000000-E	1715	PAVED TRENCHING (*****) (1, 2")	75 LF		
0350	7288000000-E	1715	PAVED TRENCHING (*****) (2, 2")	50 LF		
0351	7300000000-E	1715	UNPAVED TRENCHING (*****) (1, 2")	800 LF		
0352	7300000000-E	1715	UNPAVED TRENCHING (*****) (2, 2")	75 LF		
0353	7300000000-E	1715	UNPAVED TRENCHING (*****) (3, 1-1/4")	10,950 LF		
0354	7301000000-E	1715	DIRECTIONAL DRILL (*****) (1, 2")	600 LF		
0355	7301000000-E	1715	DIRECTIONAL DRILL (*****) (2, 2")	375 LF		
0356	7301000000-E	1715	DIRECTIONAL DRILL (*****) (3, 1-1/4")	1,100 LF		
0357	7312000000-N	1716	JUNCTION BOX (***** (SPECIAL OVER-SIZED OMC)	3 EA		
0358	7312000000-N	1716	JUNCTION BOX (***** (SPECIAL OVERSIZED)	1 EA		
0359	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	5 EA		
0360	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	5 EA		
0361	7360000000-N	1720	WOOD POLE	4 EA		
0362	7372000000-N	1721	GUY ASSEMBLY	8 EA		
0363	7420000000-E	1722	2" RISER WITH WEATHERHEAD	3 EA		
0364	7430000000-N	1722	HEAT SHRINK TUBING RETROFIT KIT	5 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0365	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	2,000 LF		
0366	7456100000-E	1726	LEAD-IN CABLE (14-2)	3,825 LF		
0367	7481000000-N	SP	SITE SURVEY	2 EA		
0368	7481240000-N	SP	CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT	3 EA		
0369	7481260000-N	SP	EXTERNAL LOOP EMULATOR PROCESSING UNIT	1 EA		
0370	7516000000-E	1730	COMMUNICATIONS CABLE (** FIBER) (144)	17,550 LF		
0371	7516000000-E	1730	COMMUNICATIONS CABLE (** FIBER) (48)	600 LF		
0372	7516000000-E	1730	COMMUNICATIONS CABLE (** FIBER) (96)	17,550 LF		
0373	7528000000-E	1730	DROP CABLE	950 LF		
0374	7540000000-N	1731	SPLICE ENCLOSURE	3 EA		
0375	7541000000-N	1731	MODIFY SPLICE ENCLOSURE	5 EA		
0376	7552000000-N	1731	INTERCONNECT CENTER	8 EA		
0377	7566000000-N	1733	DELINEATOR MARKER	35 EA		
0378	7568000000-N	SP	FURNISH FIBER-OPTIC RESTORATION KIT	1 EA		
0379	7575160000-E	1734	REMOVE EXISTING COMMUNICATIONS CABLE	3,225 LF		
0380	7575170000-E	1738	BACK PULL FIBER OPTIC CABLE	825 LF		
0381	7588000000-N	SP	METAL POLE WITH SINGLE MAST ARM	1 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0382	7590000000-N	SP	METAL POLE WITH DUAL MAST ARM	1 EA		
0383	7613000000-N	SP	SOIL TEST	5 EA		
0384	7614100000-E	SP	DRILLED PIER FOUNDATION	24 CY		
0385	7631000000-N	SP	MAST ARM WITH METAL POLE DESIGN	2 EA		
0386	7636000000-N	1745	SIGN FOR SIGNALS	6 EA		
0387	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	1 EA		
0388	7744000000-N	1751	DETECTOR CARD (TYPE 170)	7 EA		
0389	7960000000-N	SP	METAL POLE FOUNDATION REMOVAL	1 EA		
0390	7972000000-N	SP	METAL POLE REMOVAL	1 EA		
0391	7980000000-N	SP	GENERIC SIGNAL ITEM 5/8" X 10' GROUNDING ELECTRODE	4 EA		
0392	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV CAMERA LOWERING SYSTEM	1 EA		
0393	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV WOOD POLE	1 EA		
0394	7980000000-N	SP	GENERIC SIGNAL ITEM DIGITAL CCTV CAMERA ASSEMBLY	7 EA		
0395	7980000000-N	SP	GENERIC SIGNAL ITEM DMS ACCESS LADDER	2 EA		
0396	7980000000-N	SP	GENERIC SIGNAL ITEM DMS PEDESTAL STRUCTURE	2 EA		
0397	7980000000-N	SP	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN (TYPE 2C)	2 EA		
0398	7980000000-N	SP	GENERIC SIGNAL ITEM ELECTRONIC MARKER BALL	33 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0399	7980000000-N	SP	GENERIC SIGNAL ITEM EQUIPMENT CABINET DISCONNECT	4 EA		
0400	7980000000-N	SP	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH	10 EA		
0401	7980000000-N	SP	GENERIC SIGNAL ITEM FIELD EQUIPMENT CABINET	3 EA		
0402	7980000000-N	SP	GENERIC SIGNAL ITEM ITS HUB CABINET	1 EA		
0403	7980000000-N	SP	GENERIC SIGNAL ITEM ITS HUB CABINET BASE EXTENDER	1 EA		
0404	7980000000-N	SP	GENERIC SIGNAL ITEM ITS HUB CABINET FOUNDATION	1 EA		
0405	7980000000-N	SP	GENERIC SIGNAL ITEM LIMITED ACCESS FACILITIES - JUNCTION BOX (OVER-SIZED)	24 EA		
0406	7980000000-N	SP	GENERIC SIGNAL ITEM LIMITED ACCESS FACILITIES - JUNCTION BOX (SPECIAL OVERSIZED)	8 EA		
0407	7980000000-N	SP	GENERIC SIGNAL ITEM LIMITED ACCESS FACILITIES - JUNCTION BOX (STANDARD SIZE)	6 EA		
0408	7980000000-N	SP	GENERIC SIGNAL ITEM METER BASE/DISCONNECT COMBINATION PANEL	1 EA		
0409	7980000000-N	SP	GENERIC SIGNAL ITEM PROTECTIVE COATING FOR DUAL MAST ARM POLE (BLACK)	1 EA		
0410	7980000000-N	SP	GENERIC SIGNAL ITEM PROTECTIVE COATING FOR SINGLE MAST ARM POLE (BLACK)	1 EA		
0411	7980000000-N	SP	GENERIC SIGNAL ITEM PROTECTIVE COATING FOR TYPE II SIGNAL PEDESTAL (BLACK)	1 EA		
0412	7980000000-N	SP	GENERIC SIGNAL ITEM RELOCATE TEMPORARY CAMERA SENSOR UNIT	3 EA		
0413	7980000000-N	SP	GENERIC SIGNAL ITEM VARIABLE SPEED DRILL	1 EA		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0414	7990000000-E	SP	GENERIC SIGNAL ITEM #4 SOLID BARE GROUNDING CONDUCTOR	500 LF		
0415	7990000000-E	SP	GENERIC SIGNAL ITEM 3-WIRE COPPER FEEDER CONDUCTORS	200 LF		
0416	7990000000-E	SP	GENERIC SIGNAL ITEM 4-WIRE COPPER FEEDER CONDUCTORS	350 LF		
0455	6071010000-E	1642	WATTLE	200 LF		
CULVERT ITEMS						
0417	8130000000-N	414	BOX CULVERT EXCAVATION, STA ***** (24+63.79 -RPC-)	Lump Sum	L.S.	
0418	8130000000-N	414	BOX CULVERT EXCAVATION, STA ***** (59+50.00 -Y-)	Lump Sum	L.S.	
0419	8133000000-E	414	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT	222 TON		
0420	8196000000-E	420	CLASS A CONCRETE (CULVERT)	432.4 CY		
0421	8245000000-E	425	REINFORCING STEEL (CULVERT)	53,984 LB		
WALL ITEMS						
0422	3575000000-E	SP	GENERIC FENCING ITEM BLACK VINYL COATED CHAIN LINK FENCE, 48" FABRIC	780 LF		
0423	8801000000-E	SP	MSE RETAINING WALL NO **** (W1002)	13,710 SF		
0424	8801000000-E	SP	MSE RETAINING WALL NO **** (W602)	6,450 SF		
0425	8802010000-E	SP	SOIL NAIL RETAINING WALLS	14,175 SF		
0426	8802014000-E	SP	SOLDIER PILE RETAINING WALLS	5,050 SF		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0427	8802015100-N	SP	SOIL NAIL VERIFICATION TESTS	6 EA		
0428	8802015110-N	SP	SOIL NAIL PROOF TESTS	29 EA		
0429	8832000000-N	SP	GENERIC RETAINING WALL ITEM APPLICATION OF SOUND BARRIER WALL COATING	Lump Sum	L.S.	
0430	8847000000-E	SP	GENERIC RETAINING WALL ITEM ARCHITECTURAL CONCRETE SURFACE TREATMENT	39,385 SF		
0431	8847000000-E	SP	GENERIC RETAINING WALL ITEM ARCHITECTURAL SURFACE TREATMENT (SOUND BARRIER WALL NO -NW5A-)	58,152 SF		
0432	8847000000-E	SP	GENERIC RETAINING WALL ITEM ARCHITECTURAL SURFACE TREATMENT (SOUND BARRIER WALL NO -NW5B-)	53,208 SF		
0433	8847000000-E	SP	GENERIC RETAINING WALL ITEM ARCHITECTURAL SURFACE TREATMENT (SOUND BARRIER WALL NO -NW5C-)	23,703 SF		
0434	8847000000-E	SP	GENERIC RETAINING WALL ITEM SOUND BARRIER WALL -NW5A-	34,985 SF		
0435	8847000000-E	SP	GENERIC RETAINING WALL ITEM SOUND BARRIER WALL -NW5B-	33,440 SF		
0436	8847000000-E	SP	GENERIC RETAINING WALL ITEM SOUND BARRIER WALL -NW5C-	1,605 SF		
STRUCTURE ITEMS						
0437	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (20+16.70 -Y5RPA-)	Lump Sum	L.S.	
0438	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	10,401 SF		
0439	8161000000-E	420	GROOVING BRIDGE FLOORS	10,102 SF		
0440	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	221.9 CY		

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Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0441	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (20+16.70 -Y5RPA-)	Lump Sum	L.S.	
0442	8217000000-E	425	REINFORCING STEEL (BRIDGE)	27,601 LB		
0443	8274000000-E	430	MODIFIED 63" PRESTRESSED CONC GIRDERS	1,092.5 LF		
0444	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 12 X 53)	19 EA		
0445	8328400000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** GALVANIZED STEEL PILES (PP 24 X 0.50)	14 EA		
0446	8364000000-E	450	HP 12 X 53 STEEL PILES	1,390 LF		
0447	8385200000-E	450	PP ** X **** GALVANIZED STEEL PILES (24 X 0.50)	1,005 LF		
0448	8394000000-N	450	DYNAMIC PILE TESTING	2 EA		
0449	8503000000-E	460	CONCRETE BARRIER RAIL	643.4 LF		
0450	8531000000-E	462	4" SLOPE PROTECTION	1,374 SY		
0451	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0452	8706000000-N	SP	EXPANSION JOINT SEALS	Lump Sum	L.S.	
0453	8727000000-N	SP	ELECTRICAL CONDUIT SYSTEM FOR SIGNALS AT STA ***** (20+16.70 -Y5RPA-)	Lump Sum	L.S.	
0454	8727000000-N	SP	ELECTRICAL CONDUIT SYSTEM FOR SIGNALS AT STA ***** (36+00.00 -L1 EB-)	Lump Sum	L.S.	

SEE SHEET UC-14
FOR WATER LINE 1 PROFILE

5' OF 18" WATER LINE
(DI RJ, PC 250)

703' OF 24" WATER LINE
(DI RJ, PC 250)

347' OF 48" ENCASEMENT PIPE
347' BORE AND JACK OF 48" STEEL
(STEEL ENCASEMENT, 0.625" THICK)

MATCHLINE -Y WB- STA 18+50 - SEE SHEET UC-7

4' OF 18" WATER LINE
(DI RJ, PC 250)

NOTE:
THE ESTIMATED QUANTITY OF DUCTILE IRON
WATER PIPE FITTINGS ON THIS PLAN SHEET
IS 9000 POUNDS. THE ACTUAL QUANTITY AND
TYPE OF FITTINGS WILL VARY BASED ON
FIELD CONDITIONS.

24" X 18" REDUCER

1-24" VALVE
(BV, 250# WP)

765' OF ABANDON 18" UTILITY PIPE

1-2" VALVE

36' OF 2" WATER LINE
(PVC RJ, SDR 21)

1-24" VALVE
(BV, 250# WP)

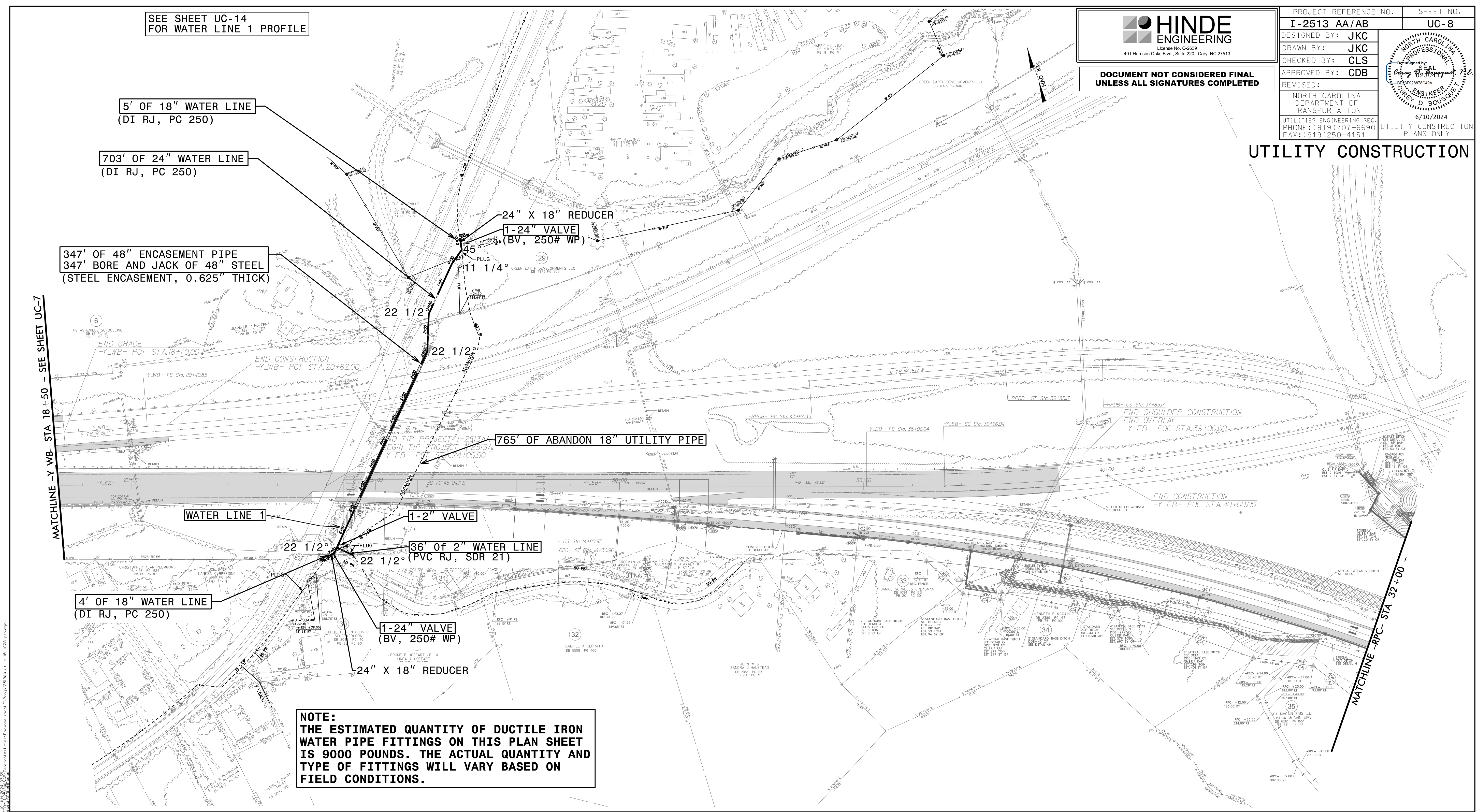
24" X 18" REDUCER

HINDE ENGINEERING
License No. C-2639
401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

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UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO. I-2513 AA/AB	SHEET NO. UC-8
DESIGNED BY: JKC	
DRAWN BY: JKC	
CHECKED BY: CLS	
APPROVED BY: CDB	
REVISED:	6/10/2024
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



MATCHLINE -RPC- STA 32+00

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