



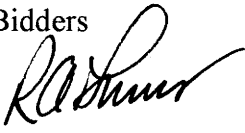
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

February 20, 2007

NOTICE TO: All Prospective Bidders

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

Re: Disadvantaged Business Enterprise (DBE) Provision

Beginning with the March 20, 2007 letting, the project special provision titled **"DISADVANTAGED BUSINESS ENTERPRISE"** is being revised for all contracts utilizing Federal funds.

The Contractor's attention is directed to the fact that one of the changes requires additional information to be submitted to the Department prior to the award of a contract.

As such, this new requirement under section titled **Listing of DBE Subcontractors**, paragraph (C) requires the apparent lowest responsive bidder to submit written documentation of the bidder/offeror's commitment to use a DBE subcontractor whose participation it submits to meet a contract goal and written confirmation from each DBE, listed in the proposal, indicating their participation in the contract. This documentation will be submitted on the Department's form titled **"Letter of Intent to Perform as a Subcontractor"** and shall be received in the office of the State Contractor Utilization Engineer no later than 12:00 noon of the sixth day following opening of bids.

Attached for your convenience is a copy of the project special provision titled "Disadvantaged Business Enterprise" and a copy of the form titled "Letter of Intent to Perform as a Subcontractor".

The form "Letter of Intent to Perform as a Subcontractor" is located at the following link.
<http://www.ncdot.org/doh/preconstruct/ps/contracts/letting.html>

If you have any questions, I can be reached at (919) 250-4124.

DISADVANTAGED BUSINESS ENTERPRISE:

3-20-07

SP1 G61

Policy

It is the policy of the North Carolina Department of Transportation that Disadvantaged Business Enterprises (DBEs) as defined in *49 CFR Part 26* shall have the opportunity to participate in the performance of contracts financed in whole or in part by Federal Funds in order to create a level playing field on which DBEs can compete fairly.

Obligation

The Contractor, subcontractor, and sub-recipient shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of *49 CFR Part 26* in the award and administration of federally assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the Department deems necessary.

Definitions

Commitment - The DBE participation submitted by the prime contractor during the bidding process. Once the Department accepts the commitment, the commitment becomes the contract requirement.

Committed DBE - Any DBE listed on the DBE commitment list at the time of bid submission or any DBE utilized as a replacement for a DBE firm listed on the commitment list.

Department - North Carolina Department of Transportation

Disadvantaged Business Enterprise (DBE) – A firm certified through the North Carolina Unified Certification Program in accordance with *49 CFR Part 26*.

Goal - The DBE participation specified herein.

Manufacturer - a firm that operates or maintains a factory or establishment that produces on the premises the materials or supplies obtained by the Contractor.

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

North Carolina Unified Certification Program - A program that provides one-stop shopping to applicants for 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.

USDOT - United States Department of Transportation, including the Office of the Secretary, the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), and the Federal Aviation Administration (FAA).

Goal

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

Disadvantaged Business Enterprises **(number) %**

The Contractor shall exercise all necessary and reasonable steps to ensure that Disadvantaged Business Enterprises participate in at least the percent of the contract as set forth above as the goal.

Listing of DBE Subcontractors

(A) Bidders shall submit a listing of DBE participation in the appropriate section of Expedite, the bidding software of Bid Express®. Only those DBE firms with current certification are considered acceptable for listing in the bidder's submittal of DBE participation. The Contractor shall indicate the following required information:

- (1) The names and addresses of DBE firms committed to participate in the contract. In the event the Bidder uses the updated listing of DBE firms shown in Expedite, the Bidder may use the dropdown menu to access the name and address of the DBE firm.
- (2) 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.

(B) If the DBE participation submitted in the bid by the apparent lowest responsive bidder does not meet or exceed the DBE contract goal, the apparent lowest responsive bidder shall submit to the Department documentation of its good faith efforts made to reach the contract goal. One complete set and 9 copies of this information shall be received in the office of the State Contractor Utilization Engineer no later than 12:00 noon of the sixth day following opening of bids. 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 as necessary to demonstrate compliance with the factors listed below which the Department considers in judging good faith efforts. This documentation may include written subcontractor quotations, telephone log notations of verbal quotations, or other types of quotation documentation.

The following factors are used to determine if the bidder has made adequate good faith effort:

- (1) Whether the bidder attended any pre-bid meetings that were scheduled by the Department to inform DBEs of subcontracting opportunities.
- (2) Whether the bidder provided solicitations through all reasonable and available means (e.g. advertising in newspapers owned and targeted to the Disadvantaged)

at least 10 days prior to bid opening. Whether the bidder provided written notice to all DBEs listed in the NCDOT Directory of Transportation Firms, within the Divisions and surrounding Divisions where the project is located, that specialize in the areas of work (as noted in the DBE Directory) that the bidder will be subletting.

- (3) Whether the bidder followed up initial solicitations of interests by contacting DBEs to determine with certainty whether they were interested. If a reasonable amount of DBEs within the targeted Divisions do not provide an intent to quote or no DBEs specialize in the subcontracted areas, the bidder shall notify DBEs outside of the targeted Divisions that specialize in the subcontracted areas, as well as call the Contract Compliance Manager in the Office of Civil Rights to give notification of the bidder's inability to get DBE quotes.
- (4) Whether the bidder selected portions of the work to be performed by DBEs in order to increase the likelihood of meeting the contract goals. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the Bidder might otherwise perform these work items with its own forces.
- (5) Whether the bidder provided interested DBEs with adequate and timely information about the plans, specifications and requirements of the contract.
- (6) Whether the bidder negotiated in good faith with interested DBEs not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities. Any rejection should be so noted in writing with a description as to why an agreement could not be reached.
- (7) Whether quotations were received from interested DBE firms but rejected as unacceptable without sound reasons why the quotations were considered unacceptable. The fact that the DBE firms quotation for the work is not the lowest quotation received will not in itself be considered as a sound reason for rejecting the quotation as unacceptable. The fact that the bidder has the ability and/or desire to perform the contract work with its own forces will not be considered as sound reason for rejecting a DBE quote. Nothing in this provision shall be construed to require the Bidder to accept unreasonable quotes in order to satisfy contract goals.
- (8) Whether the bidder specifically negotiated 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.
- (9) Whether the bidder made any efforts and/or offered assistance to interested DBEs in obtaining the necessary equipment, supplies, materials, insurance, and/or bonding to satisfy the work requirements in the bid proposal.
- (10) Any other evidence that the bidder submits which show that the bidder has made reasonable good faith efforts to meet the contract goal.

In the event a bidder is the apparent lowest responsive bidder on more than one project within the same letting located in the same geographic area of the state, as a part of the

good faith effort the Department will consider allowing the bidder to combine the DBE participation as long as the overall goal value of the combined projects is achieved.

- (C) The bidder will be required to submit written documentation of the bidder/offeror's commitment to use a DBE subcontractor whose participation it submits to meet a contract goal and written confirmation from each DBE, listed in the proposal, indicating their participation in the contract. This documentation will be submitted on the Department's form titled "Letter of Intent to Perform as a Subcontractor" and shall be received in the office of the State Contractor Utilization Engineer no later than 12:00 noon of the sixth day following opening of bids.

If the bidder fails to submit written confirmation from each committed DBE, listed in the proposal, indicating their participation in the contract, the bidder shall submit information to satisfy the Department that sufficient good faith efforts have been made to meet the contract goals. The following factors are used to determine if the bidder has made adequate good faith effort to obtain written confirmation from committed DBEs indicating their participation in the contract:

- (1) Whether the apparent lowest responsive bidder, within 30 hours following bid opening, provided each DBE listed in the proposal written notification that it is participating in the contract and attaching the required forms for execution,
- (2) Whether the bidder, within 48 hours following bid opening, followed up initial notification by contacting each DBE to confirm receipt of the written documentation and to confirm the firms intent to execute and return the forms,
- (3) Whether the bidder provided each DBE with adequate and timely information about the forms,
- (4) Copies of written quotations received from each DBE listed in the proposal for which written confirmation from DBE indicating their participation in the contract is not provided and
- (5) Any other evidence that the bidder submits which show that the bidder has made reasonable good faith efforts to obtain written confirmation from DBEs indicating their participation in the contract.
- (6) If the participation supported by Letters of Intent to Perform as a Subcontractor does not meet or exceed the contract goal the bidder shall submit the information documenting good faith in accordance with item (B) of this section.

- (D) Where the bidder fails to provide the required information in the required timeframe, the Department may impose one or more of the following sanctions:

- (1) disqualify the Contractor and any affiliated companies from further bidding for a period of time of no more than 90 days from the date of disqualification as established in notification by certified mail,
- (2) disqualify the Contractor and any affiliated companies from award of all contracts for which bids have been received and opened,
- (3) disqualify the Contractor from the contract in question.

- (E) When the apparent lowest responsive bidder fails to submit sufficient participation by DBE firms to meet the contract goal and upon a determination by the Goal Compliance Committee based upon the information submitted that the apparent lowest responsive bidder failed to make sufficient reasonable efforts to meet the contract goal, the bidder will be offered the opportunity to meet in person for administrative reconsideration. A committee appointed by the Department will hear administrative reconsideration. Members of this committee will be officials that did not take part in the original determination by the Goal Compliance Committee. The bidder will have the opportunity to present written documentation or argument concerning the issue of whether it met the goal or made an adequate good faith effort. The bidder will receive a written decision on the reconsideration, including the basis for finding. The result of the reconsideration process will not be administratively appealable to the USDOT.

In the event that 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 submits participation to meet the contract goal or documents that adequate good faith efforts have been made to meet the goal.

Directory of Transportation Firms

Real-time information about firms doing business with the Department and firms that are certified through North Carolina's Unified Certification Program is available in the Directory of Transportation Firms. The Directory can be accessed by the link on the Department's homepage or by entering <http://apps.dot.state.nc.us/vendor/directory> in the address bar of your web browser.

The Directory allows the display to be customized and the firms listed to be filtered by attributes, including work types, certification type and desired work area. The list can be printed or downloaded as a Microsoft Excel file. Firms identified as DBE certified in the Directory can be utilized to meet the contract goals.

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

Replacement of DBE

The Contractor shall not terminate a committed DBE subcontractor for convenience or perform the work with its own forces or those of an affiliate. If the Contractor fails to demonstrate reasonable efforts to replace a committed DBE firm that does not perform as intended or completes the work with its own forces without the Engineer's approval, the Contractor may be disqualified from further bidding for a period of up to 6 months.

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

(A) Performance Related

When a DBE is terminated or fails to complete its work on the contract for any reason, the Contractor shall take all necessary, reasonable steps to replace the DBE subcontractor with another DBE subcontractor to perform at least the same amount of work as the DBE that was terminated. The Contractor is encouraged to first attempt to find another DBE firm to do the same work as the DBE that was being terminated.

To demonstrate necessary, reasonable good faith efforts, the Contractor shall document the steps he has taken to replace any DBE subcontractor who is unable to perform successfully with another DBE subcontractor. Such documentation shall include but not be limited to the following:

- (1) Copies of written notification to DBEs that their interest is solicited in subcontracting the work defaulted by the previous DBE subcontractor 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) For each DBE contacted but rejected as unqualified, the reasons for the Contractor's conclusion.
- (4) Efforts made to assist the DBEs contacted, if needed, in obtaining bonding or insurance required by the Contractor.

(B) Decertification

- (1) When a committed DBE is decertified by the Department after a Request for Subcontract has been received by the Department, the Department will not require the Prime 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 commitment.
- (2) When a committed DBE is decertified prior to the Department receiving a Request for Subcontract for the named DBE firm, the Prime 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 contract goal or demonstrate that it has made a good faith effort to do so.

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 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.

Counting DBE Participation Toward Meeting the DBE Goal

- (A) If a firm is determined to be an eligible DBE firm, the total dollar value of the participation by the DBE will be counted toward the contract commitment. The total dollar value of participation by a certified DBE will be based upon the value of work actually performed by the DBE and the actual payments to DBE firms by the Contractor.
- (B) When a DBE performs as a participant in a joint venture, the Contractor may count toward its DBE goal 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.
- (C)
 - (1) The Contractor may count toward its DBE goal only expenditures to DBEs that perform a commercially useful function in the work of a contract. A DBE is considered to perform a commercially useful function when it is responsible for execution of a distinct element of the work of a contract and carrying out its responsibilities by actually performing, managing, and supervising the work involved. 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 actually performing and the DBE credit claimed for its performance of the work, and other relevant factors.
 - (2) Consistent with normal industry practices, a DBE may enter into subcontracts. Work that a DBE subcontracts to another DBE firm may be counted toward the contract goal. Work that a DBE subcontracts to a non-DBE firm does not count toward the contract goal. 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 normal industry practices, the DBE shall be presumed not to be performing a commercially useful function. The DBE may present evidence to rebut this presumption to the Department for commercially useful functions. 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.
 - (3) The following factors will be used to determine if a DBE trucking firm is performing a commercially useful function.
 - (a) 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 cannot be a contrived arrangement for the purpose of meeting DBE goals.
 - (b) The DBE shall itself own and operate at least one fully licensed, insured, and operational truck used on the contract.

- (c) 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.
 - (d) The DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The DBE who leases trucks from another DBE receives credit for the total value of the transportation services the lessee DBE provides on the contract.
 - (e) The DBE may also lease trucks from a non-DBE firm, including from an owner-operator. The DBE who leases trucks from a non-DBE is entitled to credit for the total value of transportation services provided by non-DBE lessees not to exceed the value of transportation services provided by DBE-owned trucks on the contract. Additional participation by non-DBE lessees receives credit only for the fee or commission it receives as a result of the lease arrangement.
 - (f) For purposes of this paragraph, a lease shall indicate that the DBE has exclusive use of and control over the truck. This 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. Leased trucks shall display the name and identification number of the DBE.
- (D) A contractor may count toward its DBE goal 60 percent of its expenditures for materials and supplies required to complete the contract and obtained from DBE regular dealer and 100 percent of such expenditures to a DBE manufacturer.
- (E) A contractor may count toward its DBE goal the following expenditures to DBE firms that are not manufacturers or regular dealers:
- (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) The fees or commissions charged for assistance in the procurement of the materials and supplies, or for transportation charges for the delivery of materials or supplies required on a job site (but not the cost of the materials and supplies themselves), provided the fees are not from a manufacturer or regular dealer and provided the fees are determined to be reasonable and not excessive as compared with fees customarily allowed for similar services.

Reports

All requests for subcontracts involving DBE subcontractors shall be accompanied by a certification executed by both the Prime Contractor and the DBE subcontractor attesting to the agreed upon unit prices and extensions for the affected contract items. This information shall be supplied on the Department Form RS-1-D unless otherwise approved by the Engineer. In any event, the Department reserves the right to require copies of actual subcontract agreements involving DBE subcontractors.

Within 30 days of entering into an agreement with a DBE for materials, supplies or services, not otherwise documented by a Request for Subcontract as specified above, the Contractor shall furnish the Engineer a copy of the agreement. The documentation should also indicate the percentage (60% or 100%) of expenditures claimed for DBE credit.

All certifications will be considered a part of the project records, and consequently will be subject to penalties under Federal Law associated with falsifications of records related to projects.

Reporting Disadvantaged Business Enterprise Participation

The Contractor shall provide the Engineer with an accounting of payments made to Disadvantaged Business Enterprise firms, including material suppliers, 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 (1) withholding of money due in the next partial pay estimate; or (2) removal of an approved contractor from the prequalified bidders list or the removal of other entities from the approved subcontractors list.

The Contractor shall report the accounting of payments through the Department's DBE Payment Tracking System, which is a web based application. The system can be accessed through the following web link: <https://apps.dot.state.nc.us/Vendor/PaymentTracking/>. The Contractor shall also provide the Engineer an affidavit attesting the accuracy of the information submitted in the Payment Tracking System. This too shall be submitted for any given month by the end of the following month.

Contractors reporting transportation services provided by non-DBE lessees in accordance with item (C)(3)(e) above shall evaluate the value of services provided during the month of the reporting period only.

Prior to payment of the final estimate, the Contractor shall furnish an accounting of total payment to each DBE. A responsible fiscal officer of the payee contractor, subcontractor, or second tier subcontractor who can attest to the date and amounts of the payments shall certify that the accounting is correct

While each contractor (prime, subcontractor, 2nd tier subcontractor) is responsible for accurate accounting of payments to DBEs, it shall be the prime contractors responsibility to report all monthly and final payment information in the Tracking System.

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 working on any DOT project until the required information is submitted.



LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

CONTRACT:	NAME OF BIDDER:
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The undersigned intends to perform work in connection with the above contract upon execution of the bid and subsequent award of contract by the Board of Transportation as:

Name of MBE/WBE/DBE Subcontractor _____

Address _____

City _____ State _____ Zip _____

Please check all that apply:

Minority Business Enterprise (MBE) _____

Women Business Enterprise (WBE) _____

Disadvantaged Business Enterprise (DBE) _____

The MBE /WBE /DBE status of the above named subcontractor is certified by the North Carolina Department of Transportation. The above named subcontractor is prepared to perform the described work listed on the attached MBE/WBE/DBE Commitment Items sheet, in connection with the above contract upon execution of the bid and subsequent award of contract by the Board of Transportation. The above named subcontractor is prepared to perform the described work at the estimated Commitment Total for Subcontractor Price identified on the MBE/WBE/DBE Commitment Items sheet and amount indicated below.

Commitment Total based on estimated Unit Prices and Quantities on the "attached" MBE/WBE/DBE Commitment Items sheet. Amount \$ (dollar amount from MBE/WBE/DBE Commitment Items sheet)

The above named bidder and subcontractor mutually accepts the Commitment Total estimated for the Unit Prices and Quantities. This commitment total is based on estimated quantities only and most likely will vary up or down as the project is completed. Final compensation will be based on actual quantities of work performed and accepted during the pursuance of work. The above listed amount represents the entire dollar amount quoted based on these estimated quantities. No conversations, verbal agreements, and/or other forms of non-written representations shall serve to add, delete, or modify the terms as stated.

This document shall not serve in any manner as an actual subcontract between the two parties. A separate subcontractor agreement will describe in detail the contractual obligations of the bidder and the MBE/WBE/DBE subcontractor.

Affirmation

The above named MBE/ WBE/ DBE subcontractor affirms that it will perform the portion(s) of the contract for the estimated dollar value as stated above.

Name of MBE/ WBE/ DBE Subcontractor

Name of Bidder

Signature / Title

Signature / Title

Date

Date



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

December 19 2006

MEMORANDUM TO: Prospective Bidders
FROM: R.A. Garnis, P.E. *R.A. Garnis*
Contract Officer
SUBJECT: Erosion and Sediment Control/ Stormwater Certification Training

As you are aware, the Department has implemented two of the three phases of Erosion and Sediment Control/ Stormwater Certification for DOT, CEI, and Contractor's personnel. The purpose of this memo is to outline the goals for the Department and identify Contractor and CEI personnel impacted. North Carolina State University's Department of Biological and Agricultural Engineering will administer the certification program. The certification includes classroom instruction and satisfactory completion of an examination. Candidates may waive the classroom instruction and attend the examination only

Three (3) levels of certification are planned:

- Level III will target contractor's, CEI's, and PEF's designers who prepare or oversee the preparation of erosion and sediment control and stormwater pollution prevention plans and reclamation plans. The workshop for Level III is a two-day fast paced class for engineers and advanced level technicians who design or prepare elements of the design for the aforementioned plans. New engineering analysis methods for erosion prediction and design will be presented as well as hydrologic and hydraulic engineering principles. The implementation date for Level III is January 2008 and plans submitted after that date will be accompanied with the Level III certification number of the designer. **Registration for Level III workshops will begin in spring 2007**
- Level II will target CEI TT's serving as the chief or lead inspector on a project. Also, Level II will target contractor's/subcontractor's site manager for grading operations; bridge/culvert operations over rivers/streams; and utility operations involving earth disturbance. One Level II site manager for each crew was required on all projects that have erosion control plans beginning with the January 17 2006 letting. Although Level II has already been implemented on projects that have erosion control plans, certification training will be offered on an as needed basis in 2007 **Early registration encouraged.**

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
CHIEF ENGINEER'S OFFICE
1537 MAIL SERVICE CENTER

TELEPHONE: 919-733-7621
FAX: 919-733-4141

WEBSITE: WWW.DOH.DOT.STATE.NC.US

LOCATION:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH NC

- Level I will target Installers/Inspectors involved with the installation and inspection of temporary and permanent erosion and sediment control/stormwater bid items. Candidates are: contractor's/subcontractor's foreman on an Erosion Control/Stormwater BMP Installation Crew, Pipe Installation Crew within jurisdictional areas, or Seeding and Mulching Crew and CEI TT's inspecting erosion control/stormwater bid items. One Level I installer for each crew will be required on all projects that have erosion control plans beginning with the January 16, 2007 letting. Please note, a Level II site manager may substitute in the crew in the absence of a Level I Installer. Although Level I has already been implemented on projects that have erosion control plans, certification training will be offered in early 2007 and then afterwards on an as needed basis. **Early registration encouraged.**

To obtain detailed information regarding the certification program, review locations for Level I, II, and III classes or registration, or view the project special provision included in contracts, please visit the certification website at: www.bae.ncsu.edu/workshops/dot/index.html

Those wishing to sponsor a certification training class and examination with 50 or more candidates can contact NCSU at the above website.

Questions not addressed on the website may be directed to Ted Sherrod of the Roadside Environmental Unit at tsherrod@dot.state.nc.us or by phone at (919) 733-2920.

RAG/TMS

cc: Ellis Powell, P.E., State Construction Engineer
Don Lee, CPESC, State Roadside Environmental Engineer



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

August 22, 2006

NOTICE TO: All Invitation to Bid Recipients
FROM: R. A. Garriss, P.E. *R.A. Garriss*
Contract Officer
SUBJECT: Release of Bid Tabulation Prior to Project Award

At the request of the Associated General Contractors (AGC) the Department will no longer post on the internet or make printed distribution of bid tabulations until after a project is awarded.

The AGC's request is a result of their concern about release of unit prices on projects in which bids are rejected and the disadvantage that could be created when the project is re-advertised.

Therefore, beginning with the August 15, 2006 Highway letting bid tabulations will not be posted on the internet or an external distribution made until after the project has been awarded. Projects that are rejected will not be part of the information posted or distributed.

If you have any questions, I can be reached at (919) 250-4124.

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
INVITATION TO BID**

ELECTRONIC BIDS FOR THE CONSTRUCTION OF THE FOLLOWING PROJECTS WILL BE PUBLICLY READ IN ROOM 156-A/B, THE PROJECT SERVICES LARGE CONFERENCE ROOM, LOCATED IN BUILDING B AT 1020 BIRCH RIDGE DRIVE, RALEIGH, N.C. AT **2:00 PM ON MARCH 20, 2007**. NO ELECTRONIC BIDS WILL BE RECEIVED AFTER 2:00 PM.

BIDS SHALL BE SUBMITTED IN ACCORDANCE WITH THE SPECIAL PROVISION TITLED "ON-LINE ELECTRONIC BIDDING" CONTAINED IN EACH PROPOSAL FORM.

1. THE BIDDER SHALL PURCHASE A PROPOSAL FOR EACH PROJECT FOR WHICH HE INTENDS TO SUBMIT A BID IN RESPONSE TO THIS INVITATION TO BID.

2. A BID BOND OR BID DEPOSIT IN THE AMOUNT OF 5% OF THE TOTAL AMOUNT BID WILL BE REQUIRED. THE BIDDER SHALL SUBMIT AN ELECTRONIC BID BOND WITH EACH ELECTRONIC BID SUBMITTAL UNLESS HE ELECTS TO FURNISH A BID DEPOSIT.

3. UPON RECEIPT OF AWARD LETTER, THE SUCCESSFUL BIDDER SHALL FURNISH A PROPERLY EXECUTED EXECUTION OF CONTRACT, NON-COLLUSION AFFIDAVIT AND DEBARMENT CERTIFICATION, AND EXECUTED PAYMENT AND PERFORMANCE BONDS FOR EACH CONTRACT. AFFIDAVIT FORMS AND BOND FORMS ARE AVAILABLE AS PART OF THE CONTRACT EXECUTION FORMS AT THE FOLLOWING WEBSITE
<http://www.ncdot.org/doh/construction/ps/contracts/letting.html>.

ALL QUESTIONS RELATED TO PROJECTS DURING THE ADVERTISEMENT PERIOD SHALL BE ADDRESSED TO THE STATE CONTRACT OFFICER AT 919-250-4124.

THE MINIMUM WAGE FOR LABOR WILL BE SHOWN IN THE PROPOSAL FORM FOR FEDERAL AID PROJECTS.

CONTRACTOR'S LICENSE: A GENERAL CONTRACTOR'S LICENSE IS REQUIRED IN ORDER TO SUBMIT A BID ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000.00 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. FOR ADDITIONAL INFORMATION OR TO MAKE APPLICATION FOR A LICENSE, APPLY TO THE EXECUTIVE SECRETARY OF THE CONTRACTOR LICENSING BOARD, P.O. BOX 17187, RALEIGH, NC 27619, (919-571-4183).

PREQUALIFYING TO BID: ALL PROSPECTIVE BIDDERS SHALL BE PREQUALIFIED WITH THE DEPARTMENT OF TRANSPORTATION PRIOR TO SUBMITTING A BID. CONTRACTORS WHO ARE NOT PREQUALIFIED MAY OBTAIN INFORMATION AND FORMS FOR PREQUALIFYING FROM THE CONTRACTUAL SERVICES UNIT, DIVISION OF HIGHWAYS, DEPARTMENT OF TRANSPORTATION, 1509 MAIL SERVICE CENTER, RALEIGH, N. C., 27699-1509. ALL REQUIRED PREQUALIFICATION STATEMENTS AND DOCUMENTS SHALL BE FILED WITH THE CONTRACTUAL SERVICES UNIT AT LEAST FOUR WEEKS PRIOR TO THE DATE OF OPENING BIDS.

THE DEPARTMENT OF TRANSPORTATION HEREBY NOTIFIES ALL BIDDERS THAT IT WILL AFFIRMATIVELY INSURE THAT IN ANY CONTRACT ENTERED INTO PURSUANT TO THIS INVITATION TO BID, MINORITY BUSINESS ENTERPRISES WILL BE AFFORDED FULL OPPORTUNITY TO SUBMIT BIDS IN RESPONSE TO THIS INVITATION AND WILL NOT BE DISCRIMINATED AGAINST ON THE GROUNDS OF RACE, COLOR, SEX, OR NATIONAL ORIGIN IN COMPENSATION TO THIS AWARD.

PROPOSAL FORMS AT **\$25.00** EACH, PLANS (SMALL SIZE) AT **\$40.00** PER SET, PLANS (LARGE SIZE) AT **\$100.00** PER SET, AND CROSS-SECTIONS AT **\$40.00** PER SET, PLUS SALES TAX FOR N.C. RESIDENTS, MAY BE OBTAINED BY TELEPHONING (919-250-4124), FAXING (919-250-4127), OR WRITING TO: PLANS AND PROPOSALS, PROJECT SERVICES UNIT, DEPARTMENT OF TRANSPORTATION, 1591 MAIL SERVICE CENTER, RALEIGH, N.C., 27699-1591. THESE CHARGES ARE NOT DEPOSITS AND WILL NOT BE REFUNDED. ALL ORDERS FOR PROPOSAL FORMS, PLANS AND CROSS-SECTIONS DELIVERED IN NORTH CAROLINA ARE SUBJECT TO 7% SALES TAX. ORDERS MAILED TO OUT OF STATE CONTRACTORS ARE NOT SUBJECT TO SALES TAX. MAKE ALL CHECKS PAYABLE TO THE "**N.C. DEPARTMENT OF TRANSPORTATION**".

THE RIGHT IS RESERVED TO REJECT ANY OR ALL BIDS.

**TODAY'S DATE IS FEBRUARY 20, 2007.
BY ORDER OF THE DEPARTMENT OF TRANSPORTATION
(THE WORK WILL CONSIST APPROXIMATELY AS SHOWN ON THE FOLLOWING SHEETS)**

(Revised on 21Mar2006)

REVIEW OF PLANS AND PROPOSALS IN DIVISION OFFICE

IN ORDER TO FACILITATE AND ENCOURAGE THE INVOLVEMENT OF MINORITY BUSINESS ENTERPRISES IN THE HIGHWAY CONSTRUCTION PROCESS, IT IS THE POLICY OF THE DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, THAT A SET OF PLANS AND PROPOSAL FOR EACH PROJECT TO BE LET WILL BE MAINTAINED FOR REVIEW BY ANY CONTRACTOR INTERESTED IN BIDDING UPON OR QUOTING WORK IN AN ADVERTISED PROJECT.

THE PROPOSALS AND PLANS WILL BE AVAILABLE FOR REVIEW BEGINNING TWO WEEKS PRIOR TO THE DATE OF BID OPENING IN THE DIVISION OFFICE WHICH WILL ADMINISTER THE CONTRACT. THE DEPARTMENT WILL, UPON REQUEST, MAKE AVAILABLE FROM ITS STAFF A PERSON TO EXPLAIN THE PROPOSED PROJECT AND TO ANSWER GENERAL QUESTIONS RELATING TO THE PROJECT. THE PLANS AND PROPOSALS CAN BE REVIEWED ANY TIME MONDAY THRU FRIDAY, EXCLUDING HOLIDAYS, BETWEEN THE HOURS OF 8:00 A.M. AND 4:30 P.M. IN THE DIVISION OFFICE. IN ORDER TO HAVE A MEMBER OF THE STAFF EXPLAIN THE PROJECT AND/OR ANSWER GENERAL QUESTIONS PERTAINING TO THE PROJECT, PRIOR APPOINTMENTS MUST BE MADE BY CALLING THE APPROPRIATE DIVISION OFFICE.

FOLLOWING ARE THE LOCATIONS AND TELEPHONE NUMBERS OF THE OFFICES IN WHICH THE PLANS AND PROPOSALS WILL BE MADE AVAILABLE, REFERENCE SHOULD BE MADE TO THE SHEETS CONTAINING THE INDIVIDUAL PROJECT QUANTITIES TO DETERMINE WHICH DIVISION OFFICE WILL ADMINISTER THE CONTRACT.

<u>DIV NO.</u>	<u>DIVISION ENGINEER</u>	<u>LOCATION</u>	<u>TOWN</u>	<u>TELEPHONE</u>
00001	Anthony W Roper, PE	113 AIRPORT DRIVE, SUITE 100	EDENTON	(252) 482-7977
00002	C. E. Lassiter, Jr., PE	PO BOX 1587	GREENVILLE	(252) 830-3490
00003	H. Allen Pope, PE	124 DIVISION DRIVE	WILMINGTON	(910) 251-5724
00004	Richard E Greene, Jr., PE	PO BOX 3165	WILSON	(252) 237-6164
00005	J. Wally Bowman, PE	2612 NORTH DUKE STREET	DURHAM	(919) 560-6851
00006	Terry R Gibson, PE	PO BOX 1150	FAYETTEVILLE	(910) 486-1493
00007	James M Mills, PE	PO BOX 14996	GREENSBORO	(336) 334-3192
00008	Tim Johnson, PE	PO BOX 1067	ABERDEEN	(910) 944-2344
00009	S. Pat Ivey, PE	375 SILAS CREEK PARKWAY	WINSTON-SALEM	(336) 703-6500
00010	Barry S Moose	716 WEST MAIN STREET	ALBEMARLE	(704) 982-0101
00011	Michael A Pettyjohn, PE	PO BOX 250	NORTH WILKESBORO	(336) 667-9111
00012	Michael L Holder, PE	PO BOX 47	SHELBY	(704) 480-5400
00013	Jay J Swain, PE	PO BOX 3279	ASHEVILLE	(828) 251-6171
00014	Joel B Setzer, PE	253 WEBSTER ROAD	SYLVA	(828) 586-2141

===== SUMMARY OF PROPOSALS =====

Bid Letting Number L070320

RPN	Contract Id	WBS	County	Length	JobType
004	C201741	1CR.10661.7 ETC.	NORTHAMPTON	6.840 MI	MILLING & RESURFACING.
005	C201600	33521.3.1	LENOIR	0.152 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
006	C200855	32594.3.1	SAMPSON	0.170 KM	GRADING, DRAINAGE, PAVING & STRUCTURE.
007	C200957	33073.3.1	EDGEcombe, HALIFAX	0.606 MI	GRADING, DRAINAGE, PAVING & STRUCTURES.
008	C201636	33216.3.1	JOHNSTON	0.158 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
009	C201513	39914.3.1	NASH	0.000 MI	RENOVATION OF REST AREA.
010	C201744	34934.3.3	WAKE	0.606 MI	WIDENING, GRADING, DRAINAGE, PAVING, SIGNALS, & CULVERT.
011	C201739	37670 ETC.	DURHAM	5.160 MI	MILLING, RESURFACING, HOT IN PLACE & SHLDR RECONSTRUCTION.
012	C201245	35023.3.1	CUMBERLAND	0.371 MI	WIDENING, GRADING, DRAINAGE, PAVING, & CURB & GUTTER.
013	C201590	38733.3.1	MECKLENBURG	3.700 MI	RESURFACING.
014	C201671	37840	MCDOWELL	0.920 MI	GRADING, DRAINAGE, PAVING & STRUCTURES.
015	C201476	39079.3.2	BUNCOMBE	0.000 MI	COMPUTERIZED SIGNAL SYSTEM.
016	C201281	37735.3.1	JACKSON	3.313 MI	GRADING, DRAINAGE, PAVING, & GUARDRAIL REHAB.

Bid Letting Number L070417

RPN	Contract Id	WBS	County	Length	JobType
001	C201225	34345.3.13 ETC.	GUILFORD, RANDOLPH	5.301 KM	WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURE.
*002	C201275	34345.3.15	GUILFORD	4.941 KM	GRADING, DRAINAGE, PAVING & STRUCTURE.
003	C201715	34345.3.13 ETC.	GUILFORD, RANDOLPH	10.242 KM	GRADING, DRAINAGE, PAVING & STRUCTURE.

***NOTE: THE COST OF PLANS HAS CHANGED FOR THE NOTATED PROJECT:
 SMALL PLANS \$60.00 PER SET
 CROSS SECTIONS \$60.00 PER SET
 LARGE PLANS \$200.00 PER SET**

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L070320 004

CONTRACT ID : C201741 1CR.10661.7

DIV OFFICE EDENTON

LENGTH = 6.840 MI

COUNTY : NORTHAMPTON

MILLING & RESURFACING.

MBE GOAL 2.0% WBE 4.0% COMPLETION DATE : OCT 31 2007

NC-35 FROM US-158 TO SR-1337 & NC-308 FROM US-258 TO BERTIE COUNTY LINE.

ROADWAY ITEMS

Lump Sum	LS	SY	DESCRIPTION
	LS		MOBILIZATION
7,000	SY		MILLING ASPHALT PAVEMENT, **** DEPTH (1" TO 3")
8,250	TON		ASPHALT CONC SURFACE COURSE, TYPE S9.5B
495	TON		ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
3	EA		RETROFIT EXISTING WHEELCHAIR RAMPS
7	EA		ADJUSTMENT OF MANHOLES
15	EA		ADJUSTMENT OF METER BOXES OR VALVE BOXES
72,231	LF		THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
22,436	LF		THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
50	LF		THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
180	LF		THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)
26,298	LF		THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
4	EA		THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
1	EA		THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
72,231	LF		PAINT PAVEMENT MARKING LINES (4")
459	EA		PERMANENT RAISED PAVEMENT MARKERS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070320 005

CONTRACT ID : C201600 33521.3.1

DIV OFFICE GREENVILLE

LENGTH = 0.152 MI

COUNTY : LENOIR

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 5.0% COMPLETION DATE : DEC 31 2007

BRIDGE OVER MOSELEY CREEK & APPROACHES ON SR-1515.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (16+12.50)
Lump Sum	LS	GRADING
1	ACR	SUPPLEMENTARY CLEARING & GRUB- BING
300	CY	UNDERCUT EXCAVATION
400	CY	SELECT GRANULAR MATERIAL
400	SY	FABRIC FOR SOIL STABILIZATION
5	TON	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRS
40	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK
100	TON	INCIDENTAL STONE BASE
100	SY	INCIDENTAL MILLING
310	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
360	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
37	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
25	CY	SUBDRAIN EXCAVATION
20	CY	SUBDRAIN FINE AGGREGATE
100	LF	6" PERFORATED SUBDRAIN PIPE
3	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS
1	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
6	LF	6" OUTLET PIPE (SUBDRAINS)
2	EA	MASONRY DRAINAGE STRUCTURES
0.16	LF	MASONRY DRAINAGE STRUCTURES
2	EA	FRAME WITH TWO GRATES, STD 840.29
300	LF	SHOULDER BERM GUTTER
575	LF	STEEL BM GUARDRAIL
5	EA	ADDITIONAL GUARDRAIL POSTS
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
4	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77
5	TON	RIP RAP, CLASS B
165	SY	FILTER FABRIC FOR DRAINAGE
410	SF	WORK ZONE SIGNS (STATIONARY)
57	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
64	LF	BARRICADES (TYPE III)
8,000	LF	PAINT PAVEMENT MARKING LINES (4")
10	EA	PERMANENT RAISED PAVEMENT MARKERS
725	LF	TEMPORARY SILT FENCE
50	TON	STONE FOR EROSION CONTROL, CLASS A
55	TON	STONE FOR EROSION CONTROL, CLASS B
115	TON	SEDIMENT CONTROL STONE
1.5	ACR	TEMPORARY MULCHING
50	LB	SEED FOR TEMPORARY SEEDING
0.25	TON	FERTILIZER FOR TEMPORARY SEED- ING
50	LF	TEMPORARY SLOPE DRAINS
3	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
300	LF	SAFETY FENCE
50	CY	SILT EXCAVATION
175	SY	MATTING FOR EROSION CONTROL
500	LF	1/4" HARDWARE CLOTH
2	ACR	SEEDING & MULCHING
1	ACR	MOWING
50	LB	SEED FOR REPAIR SEEDING
0.25	TON	FERTILIZER FOR REPAIR SEEDING
50	LB	SEED FOR SUPPLEMENTAL SEEDING
1.25	TON	FERTILIZER TOPDRESSING
2	HR	SPECIALIZED HAND MOWING

8	EA	RESPONSE FOR EROSION CONTROL
0.1	ACR	REFORESTATION

STRUCTURE ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (16+12.50-L-)
1	EA	PDA TESTING
1	EA	PDA ASSISTANCE
Lump Sum	LS	UNCLASSIFIED STRUCTURE EXCAVA- TION AT STATION ***** (16+12.50-L-)
36.6	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (16+12.50-L-)
6,230	LB	REINFORCING STEEL (BRIDGE)
600	LF	HP12X53 STEEL PILES
455	LF	HP12X53 GALVANIZED STEEL PILES
7	EA	PILE REDRIVES
165.5	LF	CONCRETE BARRIER RAIL
229	TON	RIP RAP CLASS II (2'-0" THICK)
255	SY	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	ELASTOMERIC BEARINGS
991.5	LF	3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID**L070320 006****CONTRACT ID : C200855 32594.3.1****DIV OFFICE WILMINGTON****LENGTH = 0.170 KM****COUNTY : SAMPSON****GRADING, DRAINAGE, PAVING & STRUCTURE.****DBE GOAL 6.0% COMPLETION DATE : DEC 01 2007****BRIDGE OVER BLACK RIVER & APPROACHES ON NC-411 AT CLEAR RUN WEST OF HARRELLS.****ROADWAY ITEMS**

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	GENERIC MISCELLANEOUS ITEM ROADWAY CONSTRUCTION

STRUCTURE ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (51+98.000 -LREV-)
435	M3	UNCLASSIFIED STRUCTURE EXCAVA- TION
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (51+98.000 -LREV-)
122	M	305MM PRESTRESSED CONC PILES
260	M	PP *** X ***** STEEL PILES (610MM X 12.7MM)
457	MTN	PLAIN RIP RAP, CLASS ** (I)
Lump Sum	LS	CONSTRUCTION OF SUBSTRUCTURE
Lump Sum	LS	CONSTRUCTION OF SUPERSTRUCTURE
4	EA	GENERIC STRUCTURE ITEM PDA ASSISTANCE
4	EA	GENERIC STRUCTURE ITEM PDA TESTING
31	EA	GENERIC STRUCTURE ITEM PILE REDRIVES
15	EA	GENERIC STRUCTURE ITEM PIPE PILE PLATES

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070320 007

CONTRACT ID : C200957 33073.3.1

DIV OFFICE WILSON

LENGTH = 0.606 MI

COUNTY : EDGEcombe, HALIFAX

GRADING, DRAINAGE, PAVING & STRUCTURES.

DBE GOAL 7.0% COMPLETION DATE : JUN 01 2009

BRIDGES OVER FISHING CREEK & OVERFLOW AND APPROACHES ON US-301.

ROADWAY ITEMS					
			2,150	LF	STEEL BM GUARDRAIL
			2	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS
			10	EA	ADDITIONAL GUARDRAIL POSTS
			8	EA	GUARDRAIL ANCHOR UNITS, TYPE III
			6	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
			570	LF	REMOVE EXISTING GUARDRAIL
			2,300	TON	PLAIN RIP RAP, CLASS II
			13	TON	PLAIN RIP RAP, CLASS B
			4,071	SY	FILTER FABRIC FOR DRAINAGE
			2	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
			151	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
			36	LF	SUPPORTS, WOOD
			5	EA	SIGN ERECTION, TYPE D
			2	EA	SIGN ERECTION, TYPE E
			1	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)
			2	EA	RELOCATE SIGN, TYPE ***** (E)
			1	EA	DISPOSAL OF SUPPORT, WOOD
			18	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
			4	EA	DISPOSAL OF SIGN SYSTEM, WOOD
			1	EA	DISPOSAL OF SUPPORT, U-CHANNEL
			104	SF	WORK ZONE SIGNS (STATIONARY)
			192	SF	WORK ZONE SIGNS (PORTABLE)
			20	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
			2	EA	WARNING FLAG SETS
			129	EA	DRUMS
			100	EA	CONES
			48	LF	BARRICADES (TYPE III)
			160	HR	FLAGGER
			4	EA	TEMPORARY CRASH CUSHIONS
			3	EA	RESET TEMPORARY CRASH CUSHIONS
			246	LF	PORTABLE CONCRETE BARRIER
			463	LF	PORTABLE CONCRETE BARRIER (ANCHORED)
			1,606	LF	PORTABLE CONCRETE BARRIER (DRAINAGE)
			1,852	LF	REMOVABLE TAPE PAVEMENT MARKING LINES (4")
			194	EA	TEMPORARY RAISED PAVEMENT MARKERS
			5,474	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
			7,039	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
			76	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
			1	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
			22,095	LF	PAINT PAVEMENT MARKING LINES (4")
			1,852	LF	POLYUREA PAVEMENT MARKING LINES (4")
			97	EA	PERMANENT RAISED PAVEMENT MARKERS
			5,725	LF	TEMPORARY SILT FENCE
			150	TON	STONE FOR EROSION CONTROL, CLASS A
			375	TON	STONE FOR EROSION CONTROL, CLASS B
			465	TON	SEDIMENT CONTROL STONE
			8	ACR	TEMPORARY MULCHING
			300	LB	SEED FOR TEMPORARY SEEDING
			1.25	TON	FERTILIZER FOR TEMPORARY SEEDING
			50	LF	TEMPORARY SLOPE DRAINS
			2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
			4,000	LF	SAFETY FENCE
			1,870	CY	SILT EXCAVATION
			3,500	SY	MATTING FOR EROSION CONTROL
			220	LF	1/4" HARDWARE CLOTH
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CLEARING & GRUBBING .. ACRE(S)			
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING			
2,100	CY	UNCLASSIFIED EXCAVATION			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (20+32.50)			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (29+15.00)			
4,000	CY	UNDERCUT EXCAVATION			
31,100	CY	BORROW EXCAVATION			
4	EA	EMBANKMENT SETTLEMENT GAUGES			
180	CY	DRAINAGE DITCH EXCAVATION			
7,550	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT			
13,400	CY	SELECT GRANULAR MATERIAL			
3,000	SY	FABRIC FOR SOIL STABILIZATION			
3,000	SF	TEMPORARY SHORING			
1,200	TON	SELECT MATERIAL, CLASS ***** (VI)			
62	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS			
140	LF	18" SIDE DRAIN PIPE			
72	LF	15" RC PIPE CULVERTS, CLASS III			
64	LF	18" RC PIPE CULVERTS, CLASS III			
112	LF	24" RC PIPE CULVERTS, CLASS III			
190	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK			
4	EA	15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK			
132	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B, INSTALLED BY BORING & JACKING (18", 0.500")			
156	LF	PIPE REMOVAL			
3	EA	PIPE CLEAN-OUT			
Lump Sum	LS	FINE GRADING			
400	TON	AGGREGATE BASE COURSE			
200	TON	INCIDENTAL STONE BASE			
350	SY	INCIDENTAL MILLING			
1,790	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C			
1,990	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C			
1,590	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C			
171	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22			
96	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22			
23	EA	RIGHT OF WAY MARKERS			
45	CY	SUBDRAIN EXCAVATION			
34	CY	SUBDRAIN FINE AGGREGATE			
200	LF	6" PERFORATED SUBDRAIN PIPE			
6	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS			
1	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET			
6	LF	6" OUTLET PIPE (SUBDRAINS)			
1.105	CY	PIPE COLLARS			
0.13	CY	PIPE PLUGS			
55	CY	FLOWABLE FILL			
10	EA	MASONRY DRAINAGE STRUCTURES			
1	LF	MASONRY DRAINAGE STRUCTURES			
1	EA	FRAME WITH GRATE, STD 840.24			
9	EA	FRAME WITH TWO GRATES, STD 840.29			
1	EA	CONCRETE APRON FOR DROP INLETS			
225	LF	SHOULDER BERM GUTTER			
1	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX			

12	EA	SPECIAL STILLING BASINS
9.5	ACR	SEEDING & MULCHING
5	ACR	MOWING
100	LB	SEED FOR REPAIR SEEDING
0.25	TON	FERTILIZER FOR REPAIR SEEDING
200	LB	SEED FOR SUPPLEMENTAL SEEDING
7.25	TON	FERTILIZER TOPDRESSING
5	HR	SPECIALIZED HAND MOWING
8	EA	GENERIC EROSION CONTROL ITEM RESPONSE FOR EROSION CONTROL

STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (20+32.50 -L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (20+32.50 -L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (29+15.00 -L-)
83.97	LF	4'-0" DIA DRILLED PIERS IN SO IL
49.7	LF	4'-0" DIA DRILLED PIERS NOT IN SOIL
87.65	LF	PERMANENT STEEL CASING FOR 4'-0" DIA DRILLED PIER
2	EA	SID INSPECTION
2	EA	CROSSHOLE SONIC LOGGING
1,630	CY	UNCLASSIFIED STRUCTURE EXCAVA- TION
15,678	SF	REINFORCED CONCRETE DECK SLAB
16,822	SF	GROOVING BRIDGE FLOORS
208.6	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (20+32.50 -L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (29+15.00 -L-)
47,258	LB	REINFORCING STEEL (BRIDGE)
5,400	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
1,347.5	LF	45" PRESTRESSED CONCRETE GIR- DERS
197,900	LS	APPROX LBS STRUCTURAL STEEL
1,210	LF	HP12X53 STEEL PILES
630	LF	HP14X73 STEEL PILES
Lump Sum	LS	GALVANIZING STEEL PILES AT STA ***** (29+15.00 -L-)
725	LF	CONCRETE BARRIER RAIL
928	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)
1,030	SY	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	ELASTOMERIC BEARINGS
Lump Sum	LS	EVAZOTE JOINT SEALS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070320 008

CONTRACT ID : C201636 33216.3.1

DIV OFFICE WILSON

LENGTH = 0.158 MI

COUNTY : JOHNSTON

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 5.0% COMPLETION DATE : DEC 31 2007

BRIDGE OVER BUFFALO CREEK & APPROACHES ON SR-1718 (STOTT'S MILL RD).

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (17+98.00)
1	ACR	SUPPLEMENTARY CLEARING & GRUB- BING
50	CY	UNDERCUT EXCAVATION
Lump Sum	LS	GRADING
3,770	CY	BORROW EXCAVATION
250	CY	DRAINAGE DITCH EXCAVATION
20	TON	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRS
56	LF	15" SIDE DRAIN PIPE
40	LF	18" SIDE DRAIN PIPE
32	LF	15" RC PIPE CULVERTS, CLASS III
56	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK
2	EA	15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK
68	LF	PIPE REMOVAL
50	TON	INCIDENTAL STONE BASE
405	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
310	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
40	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
14	EA	RIGHT OF WAY MARKERS
2	EA	MASONRY DRAINAGE STRUCTURES
2	EA	FRAME WITH TWO GRATES, STD 840.29
188	LF	SHOULDER BERM GUTTER
600	LF	STEEL BM GUARDRAIL
50	LF	STEEL BM GUARDRAIL, SHOP CURVED
5	EA	ADDITIONAL GUARDRAIL POSTS
1	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1
3	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
4	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77
55	TON	RIP RAP, CLASS B
445	SY	FILTER FABRIC FOR DRAINAGE
4	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
459	SF	WORK ZONE SIGNS (STATIONARY)
119	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
15	EA	DRUMS
15	EA	CONES
96	LF	BARRICADES (TYPE III)
6,680	LF	PAINT PAVEMENT MARKING LINES (4")
19	EA	PERMANENT RAISED PAVEMENT MARKERS
550	LF	TEMPORARY SILT FENCE
150	TON	STONE FOR EROSION CONTROL, CLASS A
180	TON	STONE FOR EROSION CONTROL, CLASS B
60	TON	SEDIMENT CONTROL STONE
0.5	ACR	TEMPORARY MULCHING
50	LB	SEED FOR TEMPORARY SEEDING
0.25	TON	FERTILIZER FOR TEMPORARY SEED- ING
60	LF	TEMPORARY SLOPE DRAINS
2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
175	LF	SAFETY FENCE
560	CY	SILT EXCAVATION
675	SY	MATTING FOR EROSION CONTROL
400	SY	PERMANENT SOIL REINFORCEMENT MAT
40	LF	1/4" HARDWARE CLOTH

150	LF	COIR FIBER BAFFLES
0.5	ACR	SEEDING & MULCHING
0.5	ACR	MOWING
50	LB	SEED FOR REPAIR SEEDING
0.25	TON	FERTILIZER FOR REPAIR SEEDING
50	LB	SEED FOR SUPPLEMENTAL SEEDING
0.5	TON	FERTILIZER TOPDRESSING
2	HR	SPECIALIZED HAND MOWING
8	EA	RESPONSE FOR EROSION CONTROL
0.1	ACR	REFORESTATION

STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (17+98.00 -L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (17+98.00 -L-)
38	LF	3'-6" DIA DRILLED PIERS IN SOIL
38	LF	3'-6" DIA DRILLED PIERS NOT IN SOIL
40	LF	PERMANENT STEEL CASING FOR 3'-6" DIA DRILLED PIER
2	EA	SID INSPECTION
1	EA	CROSSHOLE SONIC LOGGING
Lump Sum	LS	UNCLASSIFIED STRUCTURE EXCAVA- TION AT STATION ***** (17+98.00 -L-)
78.4	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (17+98.00 -L-)
23,517	LB	REINFORCING STEEL (BRIDGE)
2,445	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
175	LF	HP12X53 STEEL PILES
234.92	LF	CONCRETE BARRIER RAIL
910	TON	RIP RAP CLASS II (2'-0" THICK)
1,012	SY	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	ELASTOMERIC BEARINGS
1,292.04	LF	3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070320 009

CONTRACT ID : C201513 39914.3.1

DIV OFFICE WILSON

LENGTH = 0.000 MI

COUNTY : NASH

RENOVATION OF REST AREA.

DBE GOAL 3.0% COMPLETION DATE : FEB 26 2008

I-95 REST AREA BUILDINGS, GROUNDS, & PARKING FACILITIES.

ROADWAY ITEMS				
		Lump Sum	LS	GENERIC REST AREA ITEM ELECTRICAL CONSTRUCTION FOR THE NBL/SBL VENDING BUILDING
		Lump Sum	LS	GENERIC REST AREA ITEM ELECTRICAL INSTALLATION FOR THE NBL/SBL REST AREA SERVICE BUILDING
		Lump Sum	LS	GENERIC REST AREA ITEM GENERAL CONSTRUCTION OF NBL/SBL REST AREA BUILDING
		Lump Sum	LS	GENERIC REST AREA ITEM GENERAL CONSTRUCTION OF NBL/SBL VENDING BUILDING
		Lump Sum	LS	GENERIC REST AREA ITEM HEAT & AC CONSTRUCTION FOR THE NBL/SBL VENDING BUILDING
		Lump Sum	LS	GENERIC REST AREA ITEM HEAT & AC INSTALLATION FOR THE NBL/SBL REST AREA SERVICE BLDG
		Lump Sum	LS	GENERIC REST AREA ITEM LANDSCAPE CLEARING & GRUBBING
		Lump Sum	LS	GENERIC REST AREA ITEM LANDSCAPE GRADING
		Lump Sum	LS	GENERIC REST AREA ITEM PLUMBING CONSTRUCTION FOR THE NBL/SBL VENDING BUILDING
		Lump Sum	LS	GENERIC REST AREA ITEM PLUMBING INSTALLATION FOR THE NBL/SBL REST AREA SERVICE BUILDING
		15	LF	GENERIC REST AREA ITEM 1/2" PVC WATER PIPE, SCH-80
		1,743	LF	GENERIC REST AREA ITEM 2" SLEEVE FOR U/G ELECTRICAL /PHONE SERVICE (SCH 40 PVC)
		295	LF	GENERIC REST AREA ITEM 3" PVC WATER PIPE, SCH-80
		175	LF	GENERIC REST AREA ITEM 3/4" PVC WATER PIPE, SCH-80
		415	LF	GENERIC REST AREA ITEM 4" PVC WATER PIPE, SCH-80
		452	LF	GENERIC REST AREA ITEM 4" PVC/ABS -DWV DRAIN PIPE, SCH 40
		395	LF	GENERIC REST AREA ITEM 6" PVC GRAVITY SEWER LINE, SDR-35
		350	LF	GENERIC REST AREA ITEM 6" PVC/ABS-DWV DRAIN PIPE, SCH 40
		1,168	LF	GENERIC REST AREA ITEM BRICK BANDING/BRICK EDGING
		76	LF	GENERIC REST AREA ITEM BRICK CHEEKWALLS
		120	LF	GENERIC REST AREA ITEM BRICK SEATWALL
		76	LF	GENERIC REST AREA ITEM HANDRAILS
		200	LF	GENERIC REST AREA ITEM LANDSCAPE METAL EDGING
		40	LF	GENERIC REST AREA ITEM PVC WATER PIPE REPAIR, SCH 80
		2,284	LF	GENERIC REST AREA ITEM TREE PROTECTION FENCE
		5	CY	GENERIC REST AREA ITEM MULCH FOR PATH
Lump Sum	LS			MOBILIZATION
1.5	ACR			GENERIC MISCELLANEOUS ITEM SEEDING & MULCHING OF REST AREA LAWN
9	TON			#57 STONE
1	EA			MASONRY DRAINAGE STRUCTURES
1	EA			FRAME WITH TWO GRATES, STD 840.16
767	LF			2'-6" CONCRETE CURB & GUTTER
6	EA			CONCRETE WHEELCHAIR RAMPS
2,732	SY			GENERIC PAVING ITEM 4" CONCRETE PAVEMENT
1,450	LF			GENERIC FENCING ITEM CHAIN LINK FENCE, 72" FABRIC
2	EA			GENERIC FENCING ITEM DOUBLE GATE, 72" HIGH, 8' WIDE, 16' OPENING
24	TON			BOULDERS
75	SY			FILTER FABRIC FOR DRAINAGE
1	EA			GENERIC UTILITY ITEM 1/2" GATE VALVE & BOX
2	EA			GENERIC UTILITY ITEM 3" GATE VALVE & BOX
1	EA			GENERIC UTILITY ITEM 3/4" GATE VALVE & BOX
2	EA			GENERIC UTILITY ITEM 4" GATE VALVE & BOX
5	EA			GENERIC UTILITY ITEM 4" SANITARY SEWER CLEAN-OUT
525	LF			TEMPORARY SILT FENCE
40	TON			STONE FOR EROSION CONTROL, CLASS A
50	TON			STONE FOR EROSION CONTROL, CLASS B
20	TON			SEDIMENT CONTROL STONE
0.5	ACR			TEMPORARY MULCHING
20	LF			1/4" HARDWARE CLOTH
0.5	ACR			SEEDING & MULCHING
0.25	TON			FERTILIZER TOPDRESSING
336	CY			MULCH FOR PLANTING
2,385	SY			POSTEMERGENT HERBICIDAL TREATMENT FOR PLANT BEDS
2,385	SY			PREEMERGENT HERBICIDAL TREATMENT FOR PLANT BEDS
4.8	CY			CONCRETE STEPS
2,144	CY			TOPSOIL
15	EA			GENERIC REST AREA ITEM 4" STORM DRAIN CLEANOUT
42	EA			GENERIC REST AREA ITEM BLUESTONE PAVER
3	EA			GENERIC REST AREA ITEM CONNECTION TO SEWER MANHOLE/SEWER LINE
2	EA			GENERIC REST AREA ITEM FLAGPOLE
4	EA			GENERIC REST AREA ITEM FLAGPOLE LIGHT
1	EA			GENERIC REST AREA ITEM PERGOLA PICNIC SHELTER, SINGLE HC PICNIC TABLE
1	EA			GENERIC REST AREA ITEM PICNIC SHELTER WITH HC PICNIC TABLE
5	EA			GENERIC REST AREA ITEM RELOCATE PAYPHONE & PEDESTAL
5	EA			GENERIC REST AREA ITEM RELOCATE POST TOP LIGHT & POLE
2	EA			GENERIC REST AREA ITEM RELOCATION OF VENDING BUILDING
1	EA			GENERIC REST AREA ITEM TEMPORARY RELOCATION OF VENDING BUILDING (ON SITE)
10	EA			GENERIC REST AREA ITEM WASTE CONTAINER
Lump Sum	LS			GENERIC REST AREA ITEM DEMOLITION

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L070320 010

CONTRACT ID : C201744 34934.3.3

DIV OFFICE DURHAM

LENGTH = 0.606 MI

COUNTY : WAKE

WIDENING, GRADING, DRAINAGE, PAVING, SIGNALS, & CULVERT.

MBE GOAL 4.0% WBE 4.0% COMPLETION DATE : AUG 15 2008

SR-3015 (AIRPORT BLVD) FROM NC-54 TO MCCRIMMON PKWY AT MORRISVILLE.

ROADWAY ITEMS					
			8	EA	CONCRETE WHEELCHAIR RAMPS
			350	SY	6" CONCRETE DRIVEWAY
			70	SY	4" CONCRETE PAVED DITCH
			40	EA	ADJUSTMENT OF MANHOLES
			40	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
			115	TON	RIP RAP, CLASS I
			75	TON	RIP RAP, CLASS B
			745	SY	FILTER FABRIC FOR DRAINAGE
			1	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
			353	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
			8	EA	SIGN ERECTION, TYPE E
			3	EA	SIGN ERECTION, TYPE F
			2	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (TYPE E)
			20	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
			588	SF	WORK ZONE SIGNS (STATIONARY)
			148	SF	WORK ZONE SIGNS (PORTABLE)
			219	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
			1	EA	FLASHING ARROW PANELS, TYPE C
			9	EA	CHANGEABLE MESSAGE SIGN
			184	LF	BARRICADES (TYPE III)
			600	MD	FLAGGER
			4	EA	TEMPORARY CRASH CUSHIONS
			1,000	LF	PORTABLE CONCRETE BARRIER
			798	LF	WATER FILLED BARRIER
			1,809	LF	RESET WATER FILLED BARRIER
			60	HR	POLICE
			647	EA	TEMPORARY RAISED PAVEMENT MARKERS
			636	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
			11,290	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
			315	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
			157	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
			16	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
			31	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
			66,251	LF	PAINT PAVEMENT MARKING LINES (4")
			2,465	LF	PAINT PAVEMENT MARKING LINES (8")
			405	LF	PAINT PAVEMENT MARKING LINES (24")
			24	EA	PAINT PAVEMENT MARKING CHARACTER
			53	EA	PAINT PAVEMENT MARKING SYMBOL
			23,390	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
			87	LF	REMOVAL OF PAVEMENT MARKING LINES (6")
			1,794	LF	REMOVAL OF PAVEMENT MARKING LINES (8")
			54	LF	REMOVAL OF PAVEMENT MARKING LINES (24")
			20	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS
			379	EA	PERMANENT RAISED PAVEMENT MARKERS
			1	EA	GENERIC UTILITY ITEM 6" GATE VALVE & VALVE BOX, 200# WP
			1	EA	GENERIC UTILITY ITEM 8" DOUBLE DETECTOR CHECK VALVE ASSEMBLY & VAULT
			1	EA	GENERIC UTILITY ITEM 8" WATER METER ASSEMBLY & VAULT
			7	EA	GENERIC UTILITY ITEM RELOCATE EXISTING FIRE HYDRANT
			2	EA	GENERIC UTILITY ITEM RELOCATE EXISTING WATER METER
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING			
Lump Sum	LS	CLEARING & GRUBBING . ACRE(S)			
	1	ACR			SUPPLEMENTARY CLEARING & GRUBBING
	2	EA			SEALING ABANDONED WELLS
	2,700	CY			UNCLASSIFIED EXCAVATION
	1,750	CY			UNDERCUT EXCAVATION
	325	TON			CLASS IV SUBGRADE STABILIZATION
	19,900	CY			BORROW EXCAVATION
	1,500	CY			DRAINAGE DITCH EXCAVATION
	4,550	SY			REMOVAL OF EXISTING ASPHALT PAVEMENT
	3,850	SY			BREAKING OF EXISTING ASPHALT PAVEMENT
	500	CY			SELECT GRANULAR MATERIAL
	500	SY			FABRIC FOR SOIL STABILIZATION
	1,930	SF			TEMPORARY SHORING
	425	TON			FOUNDATION CONDITIONING MATERIAL, MINOR STRS
	24	LF			15" SIDE DRAIN PIPE
	48	LF			GENERIC PIPE ITEM 10" PVC PIPE
	768	LF			PIPE REMOVAL
Lump Sum	LS	FINE GRADING			
	200	TON			STABILIZER AGGREGATE
	100	TON			INCIDENTAL STONE BASE
	3,300	SY			MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")
	1,900	SY			MILLING ASPHALT PAVEMENT, **** DEPTH (2-1/2")
	2,100	SY			MILLING ASPHALT PAVEMENT, **** DEPTH (4")
	300	SY			INCIDENTAL MILLING
	6,950	TON			ASPHALT CONC BASE COURSE, TYPE B25.0B
	5,475	TON			ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B
	4,550	TON			ASPHALT CONC SURFACE COURSE, TYPE S9.5B
	830	TON			ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
	230	TON			ASPHALT PLANT MIX, PAVEMENT REPAIR
	25	EA			RIGHT OF WAY MARKERS
	112	CY			SUBDRAIN EXCAVATION
	84	CY			SUBDRAIN FINE AGGREGATE
	500	LF			6" PERFORATED SUBDRAIN PIPE
	15	EA			6" SUBDRAIN PIPE WYES, TEES, & ELBOWS
	1	EA			CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
	6	LF			6" OUTLET PIPE (SUBDRAINS)
	4.5	CY			ENDWALLS
	2	CY			PIPE COLLARS
	48	EA			MASONRY DRAINAGE STRUCTURES
	28	LF			MASONRY DRAINAGE STRUCTURES
	9	EA			FRAME WITH GRATE, STD 840.**** (840.16)
	1	EA			FRAME WITH TWO GRATES, STD 840.29
	5	EA			FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
	13	EA			FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
	17	EA			FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
	5,300	LF			2'-6" CONCRETE CURB & GUTTER
	500	SY			4" CONCRETE SIDEWALK

60	LF	GENERIC UTILITY ITEM 16" DI WATER PIPE, PC 250	168	LF	42" RC PIPE CULVERTS, CLASS III
68	LF	GENERIC UTILITY ITEM 3/4" COPPER WATER PIPE, TYPE K			*** OR ***
121	LF	GENERIC UTILITY ITEM 6" DI WATER PIPE, PC 350	1,672	LF	15" RC PIPE CULVERTS, CLASS III
60	LF	GENERIC UTILITY ITEM 8" DI WATER PIPE, PC 350	1,200	LF	18" RC PIPE CULVERTS, CLASS III
12	TON	GENERIC UTILITY ITEM BEDDING MATERIAL, UTILITIES CLASS VI	360	LF	24" RC PIPE CULVERTS, CLASS III
12	TON	GENERIC UTILITY ITEM FOUNDATION CONDITIONING MATE- RIAL, UTILITIES CLASS VI	64	LF	42" RC PIPE CULVERTS, CLASS III
1,975	LB	GENERIC UTILITY ITEM DUCTILE IRON WATER PIPE FIT- TINGS, 250# WP	288	LF	**** HDPE PIPE CULVERTS (15")
5,155	LF	TEMPORARY SILT FENCE	132	LF	**** HDPE PIPE CULVERTS (18")
495	TON	STONE FOR EROSION CONTROL, CLASS A	92	LF	**** HDPE PIPE CULVERTS (24")
1,070	TON	STONE FOR EROSION CONTROL, CLASS B	104	LF	**** HDPE PIPE CULVERTS (42")
940	TON	SEDIMENT CONTROL STONE			*** OR ***
4	ACR	TEMPORARY MULCHING	1,672	LF	15" RC PIPE CULVERTS, CLASS III
150	LB	SEED FOR TEMPORARY SEEDING	1,200	LF	18" RC PIPE CULVERTS, CLASS III
0.5	TON	FERTILIZER FOR TEMPORARY SEED- ING	360	LF	24" RC PIPE CULVERTS, CLASS III
350	LF	TEMPORARY SLOPE DRAINS	64	LF	42" RC PIPE CULVERTS, CLASS III
3	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS	288	LF	**** ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, ***** THICK (15", 0.064" THICK)
350	LF	SAFETY FENCE	132	LF	**** ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, ***** THICK (18", 0.064" THICK)
9,235	CY	SILT EXCAVATION	92	LF	**** ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, ***** THICK (24", 0.064" THICK)
1,960	SY	MATting FOR EROSION CONTROL	104	LF	**** ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, ***** THICK (42", 0.109" THICK)
60	SY	COIR FIBER MAT			
85	SY	PERMANENT SOIL REINFORCEMENT MAT			
1,060	LF	1/4" HARDWARE CLOTH			
235	LF	*** TEMPORARY PIPE (24")			
100	CY	STILLING BASINS			
5	ACR	SEEDING & MULCHING			
2.5	ACR	MOWING			
50	LB	SEED FOR REPAIR SEEDING			
0.25	TON	FERTILIZER FOR REPAIR SEEDING			
100	LB	SEED FOR SUPPLEMENTAL SEEDING			
3.75	TON	FERTILIZER TOPDRESSING			
100	LF	IMPERVIOUS DIKE			
2	HR	SPECIALIZED HAND MOWING			
30	EA	RESPONSE FOR EROSION CONTROL			
2	EA	GENERIC EROSION CONTROL ITEM 3" FAIRCLOTH SKIMMER			
685	LF	SIGNAL CABLE			
3	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)			
3	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)			
325	LF	MESSENGER CABLE (3/8")			
50	LF	PAVED TRENCHING (***** (1, 2")			
550	LF	UNPAVED TRENCHING (***** (1, 2")			
5	EA	JUNCTION BOX (STANDARD SIZE)			
4	EA	WOOD POLE			
6	EA	GUY ASSEMBLY			
1	EA	1" RISER WITH WEATHERHEAD			
4	EA	2" RISER WITH WEATHERHEAD			
605	LF	INDUCTIVE LOOP SAWCUT			
1,885	LF	LEAD-IN CABLE (***** (18-2)			
1	EA	INTERCONNECT CENTER			
1	EA	SIGNAL CABINET FOUNDATION			
1	EA	GENERIC SIGNAL ITEM 2070L CONTROLLER, CARY COMPAT- IBLE			
1	EA	GENERIC SIGNAL ITEM NEMA TS-2 CABINET (BASE MOUNTED) CARY COMPATIBLE			
8	EA	GENERIC SIGNAL ITEM NEMA TS-2 DETECTOR CARD			

*** END SCHEDULE AA ***

CULVERT ITEMS

Lump Sum	LS	CULVERT EXCAVATION, STA ***** (37+40.00 -L-)
87	TON	FOUNDATION CONDITIONING MATE- RIAL, BOX CULVERT
119.6	CY	CLASS A CONCRETE (CULVERT)
16,512	LB	REINFORCING STEEL (CULVERT)
33	TON	RIP RAP, CLASS ** (1)
36	SY	FILTER FABRIC FOR DRAINAGE

***** BEGIN SCHEDULE AA *****
***** (3 ALTERNATES) *****

1,960	LF	15" RC PIPE CULVERTS, CLASS III
1,332	LF	18" RC PIPE CULVERTS, CLASS III
452	LF	24" RC PIPE CULVERTS, CLASS III

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L070320 011

CONTRACT ID : C201739 37670

DIV OFFICE DURHAM

LENGTH = 5.160 MI

COUNTY : DURHAM

MILLING, RESURFACING, HOT IN PLACE & SHLDR RECONSTRUCTION.

MBE GOAL 3.0% WBE 4.0% COMPLETION DATE : 60 CAL DAYS

4 SECTIONS OF US-15/501, 2 SECTION OF US-15/501 BYPASS & 1 SECTION OF NC-55 SB.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
48	TON	INCIDENTAL STONE BASE
2.4	SMI	SHOULDER RECONSTRUCTION
300	TON	PATCHING EXISTING PAVEMENT
46,316	LF	MILLED RUMBLE STRIPS (ASPHALT CEMENT CONCRETE)
40,070	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
13,681	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
200	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
400	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
170	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
61	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
600	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
420	EA	PERMANENT RAISED PAVEMENT MARKERS
2	ACR	SEEDING & MULCHING
1,800	LF	INDUCTIVE LOOP SAWCUT
		***** BEGIN SCHEDULE AA *****
		***** (2 ALTERNATES) *****
70,058	SY	MILLING ASPHALT PAVEMENT, *** DEPTH (2")
1,715	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
8,820	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
74	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
543	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
		*** OR ***
2,400	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
103	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
109	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
71,362	SY	HOT-IN-PLACE RECYCLED ASPHALT CONCRETE, TYPE S9.5C
7,130	GAL	EMULSIFIED ASPHALT REJUVENATING AGENT
1,785	TON	HOT MIX ASPHALT ADMIXTURE

*** END SCHEDULE AA ***

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070320 012

CONTRACT ID : C201245 35023.3.1

DIV OFFICE FAYETTEVILLE

LENGTH = 0.371 MI

COUNTY : CUMBERLAND

WIDENING, GRADING, DRAINAGE, PAVING, & CURB & GUTTER.

DBE GOAL 9.0% COMPLETION DATE : NOV 01 2007

SR-1141 (CUMBERLAND RD) FROM SR-1133 (GEORGE OWEN RD) TO WEST OF NC-59 (HOPE MILLS RD).

ROADWAY ITEMS					
			1	EA	DOUBLE GATES, *** HIGH, ** WIDE, ** OPENING (48", 4', 8')
Lump Sum	LS	MOBILIZATION	300	SY	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	CONSTRUCTION SURVEYING	249	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
Lump Sum	LS	GRADING	1	EA	SIGN ERECTION, TYPE D
	1	ACR	23	EA	SIGN ERECTION, TYPE E
		SUPPLEMENTARY CLEARING & GRUB-BING	12	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
	400	CY	1	EA	DISPOSAL OF SIGN SYSTEM, WOOD
	20	TON	192	SF	WORK ZONE SIGNS (STATIONARY)
		CLASS IV SUBGRADE STABILIZATION	192	SF	WORK ZONE SIGNS (PORTABLE)
	520	CY	2	EA	FLASHING ARROW PANELS, TYPE C
	400	SY	2	EA	CHANGEABLE MESSAGE SIGN
	240	SY	94	EA	DRUMS
		SELECT GRANULAR MATERIAL	54	EA	CONES
		FABRIC FOR SOIL STABILIZATION	24	LF	BARRICADES (TYPE III)
		GENERIC GRADING ITEM	60	MD	FLAGGER
		GEOGRID REINFORCEMENT	2	EA	TMIA
	115	SY	50	EA	TEMPORARY RAISED PAVEMENT MARKERS
		GENERIC GRADING ITEM	5,193	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
		PERM SOIL REINFORCEMENT MAT	500	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
	220	TON	37	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
		FOUNDATION CONDITIONING MATERIAL, MINOR STRS	90	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4")
	500	LF	40	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (24")
		18" RC PIPE CULVERTS, CLASS III	57,424	LF	PAINT PAVEMENT MARKING LINES (4")
	310	LF	1,513	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
		PIPE REMOVAL	100	EA	PERMANENT RAISED PAVEMENT MARKERS
	400	TON	70	LF	2" WATER LINE
		INCIDENTAL STONE BASE	48	LF	8" WATER LINE (DI)
	2,500	SY	1,704	LF	8" WATER LINE (PVC)
		MILLING ASPHALT PAVEMENT, *** DEPTH (2-1/2")	4	EA	8" VALVE
		ASPHALT CONC BASE COURSE, TYPE B25.0B	2	EA	8" TAPPING VALVE
	3,500	TON	1	EA	2" BLOW OFF
		ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	17	EA	RELOCATE WATER METER
		ASPHALT CONC SURFACE COURSE, TYPE S9.5B	2	EA	RELOCATE FIRE HYDRANT
	2,250	TON	3,300	LF	TEMPORARY SILT FENCE
		ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	100	TON	STONE FOR EROSION CONTROL, CLASS A
		ASPHALT PLANT MIX, PAVEMENT REPAIR	180	TON	STONE FOR EROSION CONTROL, CLASS B
	45	TON	210	TON	SEDIMENT CONTROL STONE
		SUBDRAIN EXCAVATION	2.5	ACR	TEMPORARY MULCHING
	23	CY	100	LB	SEED FOR TEMPORARY SEEDING
		SUBDRAIN FINE AGGREGATE	0.5	TON	FERTILIZER FOR TEMPORARY SEEDING
	17	CY	50	LF	TEMPORARY SLOPE DRAINS
		6" PERFORATED SUBDRAIN PIPE	2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
	100	LF	170	CY	SILT EXCAVATION
		6" SUBDRAIN PIPE WYES, TEES, & ELBOWS	360	SY	MATTING FOR EROSION CONTROL
	3	EA	800	LF	1/4" HARDWARE CLOTH
		6" OUTLET PIPE (SUBDRAINS)	2.5	ACR	SEEDING & MULCHING
	1	EA	1.5	ACR	MOWING
		CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	50	LB	SEED FOR REPAIR SEEDING
	1	CY	0.25	TON	FERTILIZER FOR REPAIR SEEDING
		PIPE COLLARS	50	LB	SEED FOR SUPPLEMENTAL SEEDING
	38	EA	2	TON	FERTILIZER TOPDRESSING
		MASONRY DRAINAGE STRUCTURES	1	HR	SPECIALIZED HAND MOWING
	4	LF	8	EA	RESPONSE FOR EROSION CONTROL
		MASONRY DRAINAGE STRUCTURES			
	15	EA			
		FRAME WITH TWO GRATES, STD 840.16			
	3	EA			
		FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)			
	10	EA			
		FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)			
	5	EA			
		FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)			
	3	EA			
		FRAME WITH COVER, STD 840.54			
	310	LF			
		***X *** CONCRETE CURB (8" X 18")			
	3,150	LF			
		2'-6" CONCRETE CURB & GUTTER			
	480	SY			
		6" CONCRETE DRIVEWAY			
	100	SY			
		5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)			
	17	EA			
		ADJUSTMENT OF MANHOLES			
	1	EA			
		ADJUSTMENT OF METER BOXES OR VALVE BOXES			
	2	EA			
		CONVERT EXISTING DROP INLET TO JUNCTION BOX			
	1	EA			
		CONVERT EXISTING JUNCTION BOX TO DROP INLET			
	75	LF			
		CHAIN LINK FENCE, 48" FABRIC			
	6	EA			
		METAL LINE POSTS FOR 48" CHAIN LINK FENCE			
	2	EA			
		METAL TERMINAL POSTS FOR 48" CHAIN LINK FENCE			
	2	EA			
		METAL GATE POSTS FOR *** CHAIN LINK FENCE, DOUBLE GATE (48")			

***** BEGIN SCHEDULE AA *****
***** (3 ALTERNATES) *****

- 1,560 LF 15" RC PIPE CULVERTS, CLASS III
- *** OR ***
- 1,328 LF 15" RC PIPE CULVERTS, CLASS III
- 232 LF ***" ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, ***" THICK (15",0.064")
- *** OR ***
- 1,328 LF 15" RC PIPE CULVERTS, CLASS III
- 232 LF ***" HDPE PIPE CULVERTS (15")

*** END SCHEDULE AA ***

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070320 013

CONTRACT ID : C201590 38733.3.1

DIV OFFICE ALBEMARLE

LENGTH = 3.700 MI

COUNTY : MECKLENBURG

RESURFACING.

DBE GOAL 6.0% COMPLETION DATE : AUG 10 2007

I-485 FROM I-77 TO NC-51 & TWO BRIDGE SITES WEST OF JOHNSTON RD.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
10.2	SMI	SHOULDER RECONSTRUCTION
3,400	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (2")
1,735	SY	INCIDENTAL MILLING
18,350	TON	ASPHALT CONC SURFACE COURSE, TYPE S12.5D
881	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 76-22
500	TON	PATCHING EXISTING PAVEMENT
350	SF	WORK ZONE SIGNS (STATIONARY)
2	EA	FLASHING ARROW PANELS, TYPE C
2	EA	CHANGEABLE MESSAGE SIGN
200	EA	DRUMS
2	EA	TMIA
60,000	LF	PAINT PAVEMENT MARKING LINES (4")
73,365	LF	POLYUREA PAVEMENT MARKING LINES (6", *****) (STANDARD GLASS BEADS)
6,550	LF	POLYUREA PAVEMENT MARKING LINES (12", *****) (STANDARD GLASS BEADS)
16	EA	POLYUREA PAVEMENT MARKING CHARACTER (*****) (STANDARD GLASS BEADS)
17	EA	POLYUREA PAVEMENT MARKING SYMBOL (*****) (STANDARD GLASS BEADS)
1,000	EA	SNOWPLOWABLE PAVEMENT MARKERS
Lump Sum	LS	PORTABLE LIGHTING

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L070320 014

CONTRACT ID : C201671 37840

DIV OFFICE ASHEVILLE

LENGTH = 0.920 MI

COUNTY : MCDOWELL

GRADING, DRAINAGE, PAVING & STRUCTURES.

MBE GOAL 2.0% WBE 4.0% COMPLETION DATE : JUN 27 2008

US-70 FROM SR-1422 TO NC-80.

Lump Sum		ROADWAY ITEMS		55 LF		
	LS	MOBILIZATION		55	LF	RESET PORTABLE CONCRETE BARRIER
	LS	GRADING		13,855	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING		142	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
500	CY	UNDERCUT EXCAVATION		180	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
480	CY	DRAINAGE DITCH EXCAVATION		12	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
140	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS		19	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
48	LF	18" SIDE DRAIN PIPE		1,180	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (TYPE 4)
1,004	LF	15" RC PIPE CULVERTS, CLASS III		55,660	LF	PAINT PAVEMENT MARKING LINES (4")
28	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK		120	LF	PAINT PAVEMENT MARKING LINES (8")
60	LF	18" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK		164	LF	PAINT PAVEMENT MARKING LINES (24")
2	EA	15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK		4	EA	PAINT PAVEMENT MARKING SYMBOL
473	LF	PIPE REMOVAL		90	LF	REMOVAL OF PAVEMENT MARKING LINES (8")
500	TON	INCIDENTAL STONE BASE		136	EA	SNOWPLOWABLE PAVEMENT MARKERS
3,470	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C		Lump Sum	LS	PORTABLE LIGHTING
500	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C		2,380	LF	8" WATER LINE
2,800	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C		3	EA	8" VALVE
175	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22		6	EA	RELOCATE WATER METER
170	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22		2	EA	FIRE HYDRANT
350	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR		20	LF	8" SANITARY GRAVITY SEWER
22	EA	RIGHT OF WAY MARKERS		2,300	LF	ABANDON *** UTILITY PIPE (8")
1	CY	PIPE COLLARS		20	LF	*** ENCASEMENT PIPE (14")
20	CY	FLOWABLE FILL		3,900	LF	TEMPORARY SILT FENCE
18	EA	MASONRY DRAINAGE STRUCTURES		11	TON	STONE FOR EROSION CONTROL, CLASS A
3	LF	MASONRY DRAINAGE STRUCTURES		60	TON	STONE FOR EROSION CONTROL, CLASS B
1	EA	FRAME WITH TWO GRATES, STD 840.24		76	TON	SEDIMENT CONTROL STONE
4	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)		100	LB	SEED FOR TEMPORARY SEEDING
7	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)		0.5	TON	FERTILIZER FOR TEMPORARY SEEDING
6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)		50	LF	TEMPORARY SLOPE DRAINS
75	LF	***X *** CONCRETE CURB (8" X 12")		2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
3,470	LF	2'-6" CONCRETE CURB & GUTTER		380	CY	SILT EXCAVATION
280	SY	6" CONCRETE DRIVEWAY		300	SY	MATTING FOR EROSION CONTROL
6	SY	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)		720	LF	1/4" HARDWARE CLOTH
6	EA	ADJUSTMENT OF MANHOLES		84	LF	*** TEMPORARY PIPE (18")
475	LF	STEEL BM GUARDRAIL		120	CY	STILLING BASINS
12.5	LF	STEEL BM GUARDRAIL, SHOP CURVED		4	ACR	SEEDING & MULCHING
5	EA	ADDITIONAL GUARDRAIL POSTS		20	LB	SEED FOR REPAIR SEEDING
1	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1		0.1	TON	FERTILIZER FOR REPAIR SEEDING
5	EA	GUARDRAIL ANCHOR UNITS, TYPE 350		55	LF	IMPERVIOUS DIKE
405	LF	REMOVE EXISTING GUARDRAIL		3	HR	SPECIALIZED HAND MOWING
45	TON	RIP RAP, CLASS I		4	EA	RESPONSE FOR EROSION CONTROL
65	TON	RIP RAP, CLASS B		Lump Sum	LS	CULVERT EXCAVATION, STA ***** (STA 43+15.57)
140	SY	FILTER FABRIC FOR DRAINAGE		71.8	CY	CLASS A CONCRETE (CULVERT)
78	SF	WORK ZONE SIGNS (STATIONARY)		10,911	LB	REINFORCING STEEL (CULVERT)
168	SF	WORK ZONE SIGNS (PORTABLE)				***** BEGIN SCHEDULE AA ***** ***** (3 ALTERNATES) *****
18	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)		44	LF	18" RC PIPE CULVERTS, CLASS III
275	EA	DRUMS		176	LF	24" RC PIPE CULVERTS, CLASS III
50	LF	BARRICADES (TYPE III)				*** OR ***
1,500	HR	FLAGGER		24	LF	18" RC PIPE CULVERTS, CLASS III
2	EA	TEMPORARY CRASH CUSHIONS		132	LF	24" RC PIPE CULVERTS, CLASS III
2	EA	RESET TEMPORARY CRASH CUSHIONS		20	LF	**** HDPE PIPE CULVERTS (18")
142	LF	PORTABLE CONCRETE BARRIER				

- 44 LF **** HDPE PIPE CULVERTS
(24")
- *** OR ***
- 24 LF 18" RC PIPE CULVERTS, CLASS
III
- 132 LF 24" RC PIPE CULVERTS, CLASS
III
- 20 LF **** ALUMINIZED CORRUGATED
STEEL PIPE CULVERTS, ****
THICK
(18", 0.064")
- 44 LF **** ALUMINIZED CORRUGATED
STEEL PIPE CULVERTS, ****
THICK
(24", 0.064")

*** END SCHEDULE AA ***

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070320 015

CONTRACT ID : C201476 39079.3.2

DIV OFFICE ASHEVILLE

LENGTH = 0.000 MI

COUNTY : BUNCOMBE

COMPUTERIZED SIGNAL SYSTEM.

DBE GOAL % COMPLETION DATE : DEC 01 2007

CLOSED LOOP SIGNAL SYSTEM COMPRISED OF 19 SIGNALS IN DOWNTOWN ASHEVILLE AREA.

ROADWAY ITEMS

			1	EA	GENERIC SIGNAL ITEM		
					LUMINAIRE ARM FOR ANTENNA		
			1	EA	GENERIC SIGNAL ITEM		
					MODIFY EXISTING ELECTRICAL SER		
					VICE		
			1	EA	GENERIC SIGNAL ITEM		
					NOTEBOOK COMPUTER		
			1	EA	GENERIC SIGNAL ITEM		
					PRINTER		
			18	EA	GENERIC SIGNAL ITEM		
					RF DECAL & SIGN		
			1	EA	GENERIC SIGNAL ITEM		
					SIGNAL CABLE SPLICE CABINET		
			1	EA	GENERIC SIGNAL ITEM		
					TELEPHONE DEMARCATION ASSEMBLY		
			1	EA	GENERIC SIGNAL ITEM		
					TRAFFIC SIGNAL MONITOR TESTER		
					(FURNISHED ONLY)		
			1	EA	GENERIC SIGNAL ITEM		
					CONTROLLER WITH CABINET		
					(2070L WITH MODEL 332A BASE M		
					TD)		
			15	EA	GENERIC SIGNAL ITEM		
					CONTROLLER WITH CABINET		
					(2070L WITH MODEL 336S BASE MT		
					D)		
			2	EA	GENERIC SIGNAL ITEM		
					CONTROLLER WITH CABINET		
					(2070L WITH MODEL 336S POLE MT		
					D)		
			2	EA	GENERIC SIGNAL ITEM		
					CONTROLLER WITH CABINET		
					(FURNISHED ONLY)		
			Lump Sum	LS	GENERIC SIGNAL ITEM		
					SYSTEM TRAINING		
			55	LF	GENERIC SIGNAL ITEM		
					TRENCHING (PAVED, 1, 2")		
			30	LF	GENERIC SIGNAL ITEM		
					TRENCHING (PAVED, 2, 1" & 2,		
					2")		
			30	LF	GENERIC SIGNAL ITEM		
					TRENCHING (PAVED, 2, 1" & 3,		
					2")		
			15	LF	GENERIC SIGNAL ITEM		
					TRENCHING (PAVED, 3, 1" & 2,		
					2")		
			5	LF	GENERIC SIGNAL ITEM		
					TRENCHING (UNPAVED, 1, 1")		
			495	LF	GENERIC SIGNAL ITEM		
					TRENCHING (UNPAVED, 1, 2")		
			5	LF	GENERIC SIGNAL ITEM		
					TRENCHING (UNPAVED, 2, 1" & 2,		
					2")		
			5	LF	GENERIC SIGNAL ITEM		
					TRENCHING (UNPAVED, 3, 2")		
Lump Sum	LS	MOBILIZATION					
6	EA	TEMPORARY STEEL PLATE COVERS					
		FOR MASONRY DRAINAGE					
		STRUCTURE					
7	SY	4" CONCRETE SIDEWALK					
1,044	SF	WORK ZONE SIGNS (PORTABLE)					
104	SF	WORK ZONE SIGNS (BARRICADE					
		MOUNTED)					
2	EA	FLASHING ARROW PANELS, TYPE C					
2	EA	CHANGEABLE MESSAGE SIGN					
34	EA	DRUMS					
85	EA	CONES					
88	LF	BARRICADES (TYPE III)					
60	HR	FLAGGER					
2	EA	TMIA					
144	HR	POLICE					
85	EA	SKINNY DRUM					
300	LF	THERMOPLASTIC PAVEMENT MARKING					
		LINES (24", 120 MILS)					
3	EA	THERMOPLASTIC PAVEMENT MARKING					
		SYMBOL (90 MILS)					
80	LF	REMOVAL OF PAVEMENT MARKING					
		LINES (4")					
360	LF	REMOVAL OF PAVEMENT MARKING					
		LINES (24")					
3	EA	REMOVAL OF PAVEMENT MARKING					
		SYMBOLS & CHARACTERS					
48	EA	PEDESTRIAN SIGNAL HEAD (***,					
		** SECTION)					
		(16" COUNTDOWN)					
7	EA	PEDESTRIAN SIGNAL HEAD (12", 2					
		SECTION)					
12,310	LF	SIGNAL CABLE					
30	EA	VEHICLE SIGNAL HEAD (12", 3					
		SECTION)					
8	EA	VEHICLE SIGNAL HEAD (12", 5					
		SECTION)					
81	EA	MODIFY EXISTING VEHICLE SIGNAL					
		HEAD					
250	LF	DIRECTIONAL DRILL (*****)					
		(1, 2")					
205	LF	DIRECTIONAL DRILL (*****)					
		(4, 2")					
4	EA	JUNCTION BOX (*****)					
		(OVERSIZED)					
9	EA	JUNCTION BOX (STANDARD SIZE)					
4	EA	**** RISER WITH *****					
		(1", HEAT SHRINK TUBING)					
6	EA	1/2" RISER WITH WEATHERHEAD					
1	EA	1" RISER WITH WEATHERHEAD					
2	EA	2" RISER WITH WEATHERHEAD					
4,160	LF	INDUCTIVE LOOP SAWCUT					
2,930	LF	LEAD-IN CABLE (*****)					
		(18-2)					
18	EA	900MHZ WIRELESS RADIO SYSTEM					
16	EA	NEW ELECTRICAL SERVICE					
14	EA	SIGNAL PEDESTAL WITH FOUNDA-					
		TION					
9	EA	SIGN FOR SIGNALS					
12	EA	SIGNAL CABINET FOUNDATION					
3	EA	CONDUIT ENTRANCE INTO EXISTING					
		FOUNDATION					
4	EA	MODIFY FOUNDATION FOR CONTROL-					
		LER CABINET					
4	EA	CABINET BASE ADAPTER					
35	EA	DETECTOR CARD (TYPE 2070L)					
12	EA	CABINET BASE EXTENDER					
2	EA	GENERIC SIGNAL ITEM					
		900MHZ WIRELESS RADIO SYSTEM					
		(FURNISHED ONLY)					
9	EA	GENERIC SIGNAL ITEM					
		BOND EXISTING JUNCTION BOX					
1	EA	GENERIC SIGNAL ITEM					
		CENTRAL COMPUTER					
1	EA	GENERIC SIGNAL ITEM					
		DIAL-UP MODEM					

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070320 016

CONTRACT ID : C201281 37735.3.1

DIV OFFICE SYLVA

LENGTH = 3.313 MI

COUNTY : JACKSON

GRADING, DRAINAGE, PAVING, & GUARDRAIL REHAB.

DBE GOAL 8.0% COMPLETION DATE : AUG 15 2008

US-74 & 441 FROM EAST OF SR-1391 (SHULLER COVE RD) TO SR-1514 & SR-1387 (TAYLOR RD).

ROADWAY ITEMS				
		40	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
		2	EA	FLASHING ARROW PANELS, TYPE C
		2	DAY	CHANGEABLE MESSAGE SIGN (SHORT TERM)
Lump Sum	LS	160	EA	DRUMS
Lump Sum	LS	160	EA	CONES
Lump Sum	LS	120	LF	BARRICADES (TYPE III)
1	ACR	960	HR	FLAGGER
		2	EA	TMIA
140	TON	60	EA	TUBULAR MARKERS (FIXED)
948	LF	360	EA	TEMPORARY RAISED PAVEMENT MARKERS
		159,878	LF	PAINT PAVEMENT MARKING LINES (4")
72	LF	980	LF	PAINT PAVEMENT MARKING LINES (8")
172	LF	120	LF	PAINT PAVEMENT MARKING LINES (24")
		84,452	LF	POLYUREA PAVEMENT MARKING LINES (4", *****)
100	LF			(HIGHLY REFLECTIVE ELEMENTS)
24	LF	1,600	LF	POLYUREA PAVEMENT MARKING LINES (8", *****)
				(HIGHLY REFLECTIVE ELEMENTS)
4	EA	60	LF	POLYUREA PAVEMENT MARKING LINES (24", *****)
				(HIGHLY REFLECTIVE ELEMENTS)
55	LF	45	EA	POLYUREA PAVEMENT MARKING SYMBOL (*****)
				(HIGHLY REFLECTIVE ELEMENTS)
15,280	TON	900	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
500	TON	1,096	EA	SNOWPLOWABLE PAVEMENT MARKERS
80	SY	1,940	LF	TEMPORARY SILT FENCE
5,650	TON	45	TON	STONE FOR EROSION CONTROL, CLASS A
6,320	TON	50	TON	STONE FOR EROSION CONTROL, CLASS B
		140	TON	SEDIMENT CONTROL STONE
650	TON	3.5	ACR	TEMPORARY MULCHING
360	TON	150	LB	SEED FOR TEMPORARY SEEDING
5,720	TON	0.5	TON	FERTILIZER FOR TEMPORARY SEEDING
100	TON	620	CY	SILT EXCAVATION
		8,770	SY	MATTING FOR EROSION CONTROL
62,320	LF	905	LF	1/4" HARDWARE CLOTH
12.98	CY	3.5	ACR	SEEDING & MULCHING
43	EA	2.5	ACR	MOWING
83.5	LF	50	LB	SEED FOR REPAIR SEEDING
11	EA	0.25	TON	FERTILIZER FOR REPAIR SEEDING
		100	LB	SEED FOR SUPPLEMENTAL SEEDING
28	EA	2.5	TON	FERTILIZER TOPDRESSING
		1	HR	SPECIALIZED HAND MOWING
4	EA	12	EA	RESPONSE FOR EROSION CONTROL
1	EA	924	SF	PILE PANEL RETAINING WALLS
		2,844	SF	GENERIC RETAINING WALL ITEM GABION AND RENO MATTRESS RETAINING WALLS
120	LF			
40	LF			
10	SY			
1,290	SY			
10,640	LF			
460	LF			
1	EA			
15	EA			
137.5	LF			
50	LF			
2,487.5	LF			
5	EA			
2	EA			
1	EA			
6	EA			
410	LF			
10	TON			
25	SY			
604	SF			
104	SF			

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070417 001

CONTRACT ID : C201225 34345.3.13

DIV OFFICE GREENSBORO

LENGTH = 5.301 KM

COUNTY : GUILFORD, RANDOLPH

WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 12.0% COMPLETION DATE : MAY 15 2011

US-311 (HIGH POINT EAST BELT) FROM SOUTH OF I-85 TO NORTH OF SR-1929 (SPENCER RD) FUTURE I-74 CORRIDOR.

ROADWAY ITEMS					
			1	EA	2100 X 1500MM RC PIPE TAPERED INLET, CLASS III
			51.2	M	600MM CS PIPE CULVERTS, 1.63MM THICK
Lump Sum	LS	MOBILIZATION	79.4	M	800MM CS PIPE CULVERTS, 2.01MM THICK
Lump Sum	LS	CONSTRUCTION SURVEYING			
Lump Sum	LS	FIELD OFFICE	109.2	M	300MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
8,995	M3	GENERIC MISCELLANEOUS ITEM CHIPPED TIRE MATERIAL	378	M	400MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	CLEARING & GRUBBING ... HECTARE(S)	20.7	M	450MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
2.4	HA	SUPPLEMENTARY CLEARING & GRUBBING	25.2	M	600MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
15	EA	SEALING ABANDONED WELLS	64.4	M	800MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+84.694-Y8-)	40.2	M	900MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+84.722-Y9-)	62.4	M	1200MM BIT COAT CS PIPE CULVERTS, TYPE B 2.77MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+65.00 -L-, RT)	2	EA	***MM BIT COAT CS PIPE ELBOWS, TYPE B ***MM THICK (900MM, 2.01MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+65.00 -L-, LT)	14	EA	300MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (28+52.41 -Y1-)	26	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (35+60.41 -Y-)	1	EA	450MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
16,896	M3	UNDERCUT EXCAVATION	2	EA	800MM BIT COAT CS PIPE ELBOWS, TYPE B 2.01MM THICK
500	MTN	CLASS IV SUBGRADE STABILIZATION	377.6	M	PIPE REMOVAL
10,834	M3	DRAINAGE DITCH EXCAVATION	353	M2	150MM SLOPE PROTECTION
220	M	BERM DITCH CONSTRUCTION	375	M2	GENERIC GRADING ITEM 100MM SLOPE PROTECTION
7,939	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT	Lump Sum	LS	FINE GRADING
1,354	M2	BREAKING OF EXISTING ASPHALT PAVEMENT	65,855	M2	LIME TREATED SOIL (SLURRY METHOD)
55	HR	PROOF ROLLING	724	MTN	LIME FOR LIME TREATED SOIL
4,382	M3	SELECT GRANULAR MATERIAL	38	MTN	#57 STONE
4,918	M2	FABRIC FOR SOIL STABILIZATION	953	MTN	STABILIZER AGGREGATE
100	M2	TEMPORARY SHORING - BARRIER SUPPORTED	80,535	M2	***MM SOIL CEMENT BASE (180MM)
295	MTN	SELECT MATERIAL, CLASS IV	2,428	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE
2,656	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	564	MTN	AGGREGATE FOR SOIL CEMENT BASE
238.5	M	375MM SIDE DRAIN PIPE	99,533	L	ASPHALT CURING SEAL
158.2	M	450MM SIDE DRAIN PIPE	772	MTN	INCIDENTAL STONE BASE
31.7	M	600MM SIDE DRAIN PIPE	10,583	L	PRIME COAT
398	M	900MM RC PIPE CULVERTS, CLASS III	1,634	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B
163.3	M	1050MM RC PIPE CULVERTS, CLASS III	8,636	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
54.8	M	1350MM RC PIPE CULVERTS, CLASS III	7,625	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
195	M	1500MM RC PIPE CULVERTS, CLASS III	27,799	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
141.4	M	1650MM RC PIPE CULVERTS, CLASS III	1,250	MTN	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
81.6	M	2100MM RC PIPE CULVERTS, CLASS III	1,717	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
56	M	***MM RC PIPE CULVERTS, CLASS IV (1050MM)	181	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR
178	M	***MM RC PIPE CULVERTS, CLASS IV (1350MM)	20,586	M	MILLED RUMBLE STRIPS
205.2	M	***MM RC PIPE CULVERTS, CLASS IV (750MM)	255	EA	RIGHT OF WAY MARKERS
107.2	M	***MM RC PIPE CULVERTS, CLASS IV (900MM)	1,521	M3	SUBDRAIN EXCAVATION
1	EA	***MM PIPE END SECTION (450MM)	850	M3	SUBDRAIN FINE AGGREGATE
1	EA	***MM PIPE END SECTION (750MM)	2,021	M	150MM PERFORATED SUBDRAIN PIPE
2	EA	1500 X 900MM RC PIPE TAPERED INLET, CLASS III	201	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS
			13	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
			24	M	150MM OUTLET PIPE (SUBDRAINS)
			5,529	M	SHOULDER DRAIN
			5,529	M	100MM SHOULDER DRAIN PIPE
			615	M	100MM OUTLET PIPE (SHOULDER DRAINS)
			25	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET
			28	MTN	BLOTTING SAND

				5	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)
				2	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)
45.46	M3	ENDWALLS		8	EA	SIGN ERECTION, MILEMARKERS
27.53	M3	REINFORCED ENDWALLS		46.21	M3	GENERIC SIGNING ITEM OVERHEAD FOOTINGS
1.53	M3	PIPE COLLARS		44	M2	WORK ZONE SIGNS (STATIONARY)
152	EA	MASONRY DRAINAGE STRUCTURES		46	M2	WORK ZONE SIGNS (PORTABLE)
6.87	M3	MASONRY DRAINAGE STRUCTURES		29	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)
25.86	M	MASONRY DRAINAGE STRUCTURES		2	EA	FLASHING ARROW PANELS, TYPE C
4	EA	FRAME WITH GRATE, STD 840.22		1	EA	CHANGEABLE MESSAGE SIGN
3	EA	FRAME WITH TWO GRATES, STD 840.16		4	EA	WARNING FLAG SETS
15	EA	FRAME WITH TWO GRATES, STD 840.20		305	EA	DRUMS
113	EA	FRAME WITH TWO GRATES, STD 840.22		124	EA	CONES
5	EA	FRAME WITH TWO GRATES, STD 840.24		417	M	BARRICADES (TYPE III)
11	EA	FRAME WITH TWO GRATES, STD 840.29		225	MD	FLAGGER
3	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)		6	EA	TEMPORARY CRASH CUSHIONS
1	EA	FRAME WITH COVER, STD 840.54		2	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (45 MPH)
1	EA	CONCRETE APRON FOR DROP INLETS		315	M	PORTABLE CONCRETE BARRIER
2	EA	***MM SLUICE GATE (800MM)		44	EA	TUBULAR MARKERS (FIXED)
5	EA	***MM SLUICE GATE (900MM)		615	EA	TEMPORARY RAISED PAVEMENT MARKERS
Lump Sum	LS	GENERIC DRAINAGE ITEM HAZARDOUS SPILL/DRY DETENTION BASINS		3,850	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)
310	M2	GENERIC GRADING ITEM (M2) ROCK PLATING		3,596	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)
280	M2	GENERIC GRADING ITEM (M2) TEMPORARY FABRIC WALL		170	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)
323	M	750MM CONCRETE CURB & GUTTER		9	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)
2,388	M	SHOULDER BERM GUTTER		12	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)
1	EA	MODIFIED CONCRETE FLUME		82,426	M	PAINT PAVEMENT MARKING LINES (100MM)
100	M2	150MM CONCRETE DRIVEWAY		271	M	PAINT PAVEMENT MARKING LINES (200MM)
30	M2	100MM CONCRETE PAVED DITCH		120	M	PAINT PAVEMENT MARKING LINES (600MM)
2,140	M2	125MM MONOLITHIC CONCRETE IS- LANDS (KEYED IN)		4	EA	PAINT PAVEMENT MARKING CHARAC- TER
6,130.29	M	STEEL BM GUARDRAIL		24	EA	PAINT PAVEMENT MARKING SYMBOL
217.17	M	STEEL BM GUARDRAIL, SHOP CURVED		18,001	M	POLYUREA PAVEMENT MARKING LINES (100MM)
8	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS		14,130	M	POLYUREA PAVEMENT MARKING LINES (150MM)
20	EA	ADDITIONAL GUARDRAIL POSTS		29	EA	POLYUREA PAVEMENT MARKING SYMBOL
4	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1		1,067	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)
13	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1		665	EA	PERMANENT RAISED PAVEMENT MARKERS
22	EA	GUARDRAIL ANCHOR UNITS, TYPE III		495	EA	SNOWPLOWABLE PAVEMENT MARKERS
41	EA	GUARDRAIL ANCHOR UNITS, TYPE 350		20	EA	FLEXIBLE DELINEATORS (CRYSTAL)
2	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350		25	EA	FLEXIBLE DELINEATORS (YELLOW)
5,565	M	CABLE GUIDERAIL		5	EA	FLEXIBLE DELINEATORS (CRYSTAL & RED)
23	EA	CABLE GUIDERAIL ANCHOR UNITS		5	EA	FLEXIBLE DELINEATORS (YELLOW & RED)
15,041	M	WOVEN WIRE FENCE, 1200MM FAB- RIC		6	EA	OBJECT MARKERS (END OF ROAD)
2,878	EA	100MM TIMBER FENCE POSTS, 2.30M LONG		2	MTN	FOUNDATION CONDITIONING MATE- RIAL, UTILITIES CLASS ***** (VI)
825	EA	125MM TIMBER FENCE POSTS, 2.50M LONG		2	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (IV)
600	M	ADDITIONAL BARBED WIRE		20	MTN	PAVEMENT REPAIR FOR UTILITY WORK
921	MTN	PLAIN RIP RAP, CLASS I		21	M	150MM DI WATER PIPE, PC 2.41MPA
145	MTN	PLAIN RIP RAP, CLASS II		36.7	M	400MM DI WATER PIPE, PC ***MPA (2.41MPA)
34	MTN	PLAIN RIP RAP, CLASS A		2,100	KG	DI RESTRAINED JOINT WATER PIPE FITTINGS, 1.72MPA MIN WP
1,308	MTN	PLAIN RIP RAP, CLASS B		9.5	M	20MM COPPER WATER PIPE, TYPE K
245	MTN	BOULDERS		1	EA	RELOCATE EXISTING WATER METER
17,745	M2	FILTER FABRIC FOR DRAINAGE		2	EA	RELOCATE EXISTING FIRE HYDRANT
13	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON		72	M	***MM STEEL ENCASMENT PIPE, ***MM THICK, BY OPEN CUT (600MM, 6.35MM)
2	EA	GENERIC EROSION CONTROL ITEM LEVEL SPREADER		6,734	M	TEMPORARY SILT FENCE
3	M3	REINFORCED CONCRETE SIGN FOOT- INGS		2,883	MTN	STONE FOR EROSION CONTROL, CLASS A
1,418	KG	SUPPORTS, BREAKAWAY STEEL BEAM		21,496	MTN	STONE FOR EROSION CONTROL, CLASS B
413	M	SUPPORTS, 4.5KG STEEL U-CHANNEL		10,443	MTN	SEDIMENT CONTROL STONE
8	EA	SUPPORTS, 3KG STEEL U-CHANNEL		72.2	HA	TEMPORARY MULCHING
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (74+00.00)		3,289	KG	SEED FOR TEMPORARY SEEDING
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (90+20.00)		26.25	MTN	FERTILIZER FOR TEMPORARY SEED- ING
8	EA	SIGN ERECTION, TYPE D		1,651	M	TEMPORARY SLOPE DRAINS
36	EA	SIGN ERECTION, TYPE E				
17	EA	SIGN ERECTION, TYPE F				

114	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS	226.6	M	1200MM RC PIPE CULVERTS, CLASS III
5,614	M	SAFETY FENCE			*** OR ***
346,926	M3	SILT EXCAVATION	1,638.2	M	375MM RC PIPE CULVERTS, CLASS III
27,868	M2	MATting FOR EROSION CONTROL			
210	M2	COIR FIBER MAT	181.2	M	450MM RC PIPE CULVERTS, CLASS III
7,432	M2	PERMANENT SOIL REINFORCEMENT MAT	225.6	M	600MM RC PIPE CULVERTS, CLASS III
718	M	6.4MM HARDWARE CLOTH			
30	M	***MM TEMPORARY PIPE (450MM)	365.6	M	750MM RC PIPE CULVERTS, CLASS III
1,233	M3	STILLING BASINS	219.4	M	1200MM RC PIPE CULVERTS, CLASS III
87.4	HA	SEEDING & MULCHING			
41.4	HA	MOWING	7.2	M	GENERIC PIPE ITEM 1200MM HDPE PIPE CULVERTS
779	KG	SEED FOR REPAIR SEEDING			
3.29	MTN	FERTILIZER FOR REPAIR SEEDING	687.9	M	GENERIC PIPE ITEM 375MM HDPE PIPE CULVERTS
2,188	KG	SEED FOR SUPPLEMENTAL SEEDING			
146.25	MTN	FERTILIZER TOPDRESSING	1,043.4	M	GENERIC PIPE ITEM 450MM HDPE PIPE CULVERTS
186	M	IMPERVIOUS DIKE	803.3	M	GENERIC PIPE ITEM 600MM HDPE PIPE CULVERTS
37	HR	SPECIALIZED HAND MOWING			
2,469	M3	CULVERT DIVERSION CHANNEL	335.2	M	GENERIC PIPE ITEM 750MM HDPE PIPE CULVERTS
2.62	HA	REFORESTATION			*** OR ***
3	EA	GENERIC EROSION CONTROL ITEM 102MM SKIMMER	1,638.2	M	375MM RC PIPE CULVERTS, CLASS III
23	EA	GENERIC EROSION CONTROL ITEM 51MM SKIMMER	181.2	M	450MM RC PIPE CULVERTS, CLASS III
9	EA	GENERIC EROSION CONTROL ITEM 64MM SKIMMER	225.6	M	600MM RC PIPE CULVERTS, CLASS III
7	EA	GENERIC EROSION CONTROL ITEM 76MM SKIMMER	365.6	M	750MM RC PIPE CULVERTS, CLASS III
84	EA	GENERIC EROSION CONTROL ITEM RESPONSE FOR EROSION CONTROL	219.4	M	1200MM RC PIPE CULVERTS, CLASS III
860	M	GENERIC EROSION CONTROL ITEM COIR FIBER BAFFLE			
190	M	SIGNAL CABLE	7.2	M	GENERIC PIPE ITEM 1200MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK
3	EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)			
3	EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)	687.9	M	GENERIC PIPE ITEM 400MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK
1,250	M	MESSENGER CABLE (6.35MM)			
100	M	MESSENGER CABLE (9.52MM)			
120	M	TRACER WIRE	1,043.4	M	GENERIC PIPE ITEM 450MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK
265	M	TRENCHING (UNPAVED)			
60	M	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, *****MM (** CONDUIT) (50MM, 1)	803.3	M	GENERIC PIPE ITEM 600MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK
9	EA	JUNCTION BOX (STANDARD SIZE)			
5	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)			
2	EA	WOOD POLE	335.2	M	GENERIC PIPE ITEM 800MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK
10	EA	GUY ASSEMBLY			
1	EA	25MM RISER WITH WEATHERHEAD			
1	EA	50MM RISER WITH WEATHERHEAD			
3	EA	50MM RISER WITH HEAT SHRINK TUBING			*** END SCHEDULE AA ***
175	M	INDUCTIVE LOOP SAWCUT			***** BEGIN SCHEDULE AB *****
545	M	LEAD-IN CABLE	901,350	M3	UNCLASSIFIED EXCAVATION
1,240	M	COMMUNICATIONS CABLE (**FIBER) (12)	510,992	M3	BORROW EXCAVATION
3	EA	INTERCONNECT CENTER	104,422	MTN	AGGREGATE BASE COURSE
1	EA	FURNISH FIBER-OPTIC TRANSCEIVER	27,742	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
4	EA	SOIL TEST	29,533	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
1	EA	SIGNAL CABINET FOUNDATION	3,573	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
1	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)			*** OR ***
4	EA	DETECTOR CARD (TYPE 2070L)	915,000	M3	UNCLASSIFIED EXCAVATION
1	EA	GENERIC SIGNAL ITEM CABINET BASE EXTENDER	505,000	M3	BORROW EXCAVATION
3	EA	GENERIC SIGNAL ITEM FIBER-OPTIC TRANSCEIVER SELF-HEALING RING	31,375	MTN	AGGREGATE BASE COURSE
4	EA	GENERIC SIGNAL ITEM METAL STRAIN SIGNAL POLE	53,454	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
18	M3	GENERIC SIGNAL ITEM DRILLED PIER FOUNDATION	37,052	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
			5,102	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
					*** END SCHEDULE AB ***

***** BEGIN SCHEDULE AA *****
 ***** (3 ALTERNATES) *****

CULVERT ITEMS

2,326.1	M	375MM RC PIPE CULVERTS, CLASS III	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (12+23.000-Y9-)
1,224.6	M	450MM RC PIPE CULVERTS, CLASS III	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (14+72.00-RAMP A-)
1,028.9	M	600MM RC PIPE CULVERTS, CLASS III	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (45+99.00-L-)
700.8	M	750MM RC PIPE CULVERTS, CLASS III	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (76+90.000-L-)

912.6	MTN	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT
1,803.1	M3	CLASS A CONCRETE (CULVERT)
128,771	KG	REINFORCING STEEL (CULVERT)
Lump Sum	LS	GENERIC CULVERT ITEM PRECAST REINF CONC THREE-SIDED CULVERT AT STATION 63+06.00-L-

STRUCTURE ITEMS

Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 35+60.41-L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 64+02.541-L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 83+34.392-L-)
15.2	M	PILE EXCAVATION IN SOIL
8.5	M	PILE EXCAVATION NOT IN SOIL
3,885.9	M2	REINFORCED CONCRETE DECK SLAB
771.4	M2	REINFORCED CONCRETE DECK SLAB (SAND LIGHTWEIGHT CONC)
5,043.4	M2	GROOVING BRIDGE FLOORS
72	M3	CLASS AA CONCRETE (BRIDGE)
613.4	M3	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (108+24.11-L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (22+65.00 -L- LT LN)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (22+65.00 -L- RT LN)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (35+60.41-L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (64+02.541-L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (83+34.392-L-)
60,274	KG	REINFORCING STEEL (BRIDGE)
618	KG	EPOXY COATED REINFORCING STEEL (BRIDGE)
899	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
563,418	M	MODIFIED 1600MM PRESTRESSED CONC GIRDERS
549,500	LS	APPROX KG STRUCTURAL STEEL
1,343.9	M	HP310X79 STEEL PILES
66	EA	STEEL PILE POINTS
134,736	M	TWO BAR METAL RAIL
613,947	M	CONCRETE BARRIER RAIL
139,412	M	*** X ****MM CONCRETE PARAPET (355MM X 760MM)
2,878	M2	100MM SLOPE PROTECTION
1,190.4	MTN	PLAIN RIP RAP CLASS II (600MM THICK)
1,218.9	M2	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	POT BEARINGS
Lump Sum	LS	ELASTOMERIC BEARINGS
Lump Sum	LS	EVAZOTE JOINT SEALS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070417 002

CONTRACT ID : C201275 34345.3.15

DIV OFFICE GREENSBORO

LENGTH = 4.941 KM

COUNTY : GUILFORD

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 11.0% COMPLETION DATE : MAY 15 2011

US-311 (HIGH POINT EAST BELT) FROM US-29 & 70 TO I-85 NORTH OF ARCHDALE.

ROADWAY ITEMS					
			177.6	M	****MM RC PIPE CULVERTS, CLASS IV (1800MM)
Lump Sum	LS	MOBILIZATION	60	M	****MM RC PIPE CULVERTS, CLASS IV (2100MM)
Lump Sum	LS	CONSTRUCTION SURVEYING			
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)	88.8	M	****MM RC PIPE CULVERTS, CLASS IV (450MM)
2	HA	SUPPLEMENTARY CLEARING & GRUBBING	85.2	M	****MM RC PIPE CULVERTS, CLASS IV (600MM)
5	EA	SEALING ABANDONED WELLS			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (12+61.464 -Y3-)	93.6	M	****MM RC PIPE CULVERTS, CLASS IV (900MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (12+66.293 -Y1-)	297.6	M	400MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+41.484 -Y2-)	160.8	M	450MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (19+26.763 -FLY-)	96	M	600MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (21+25.789 -SBCD-)	24	M	800MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (21+32.418 -NBCD-)	12	M	900MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+01.765 -FLY-)	8.4	M	1000MM BIT COAT CS PIPE CULVERTS, TYPE B 2.77MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (27+10.159 -Y6- NB)	18	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (27+12.087 -Y6- SB)	3	EA	450MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
18,900	M3	UNDERCUT EXCAVATION	4	EA	600MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
500	MTN	CLASS IV SUBGRADE STABILIZATION	2	EA	800MM BIT COAT CS PIPE ELBOWS, TYPE B 2.01MM THICK
43,395	M3	DRAINAGE DITCH EXCAVATION	284.4	M	****MM WELDED STEEL PIPE, ****MM THICK, GRADE B, INSTALLED BY BORING & JACKING (1050MM, 2.77MM)
1,475	M	BERM DITCH CONSTRUCTION	132	M	****MM WELDED STEEL PIPE, ****MM THICK, GRADE B, INSTALLED BY BORING & JACKING (1350MM, 2.77MM)
35,400	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT	867	M	PIPE REMOVAL
6,630	M2	REMOVAL OF EXISTING CONCRETE PAVEMENT	725	M2	150MM SLOPE PROTECTION
70	HR	PROOF ROLLING	1,550	M2	GENERIC GRADING ITEM 100MM SLOPE PROTECTION
5,000	M3	SELECT GRANULAR MATERIAL	Lump Sum	LS	FINE GRADING
2,500	M2	FABRIC FOR SOIL STABILIZATION	131,000	M2	LIME TREATED SOIL (SLURRY METHOD)
2,400	MTN	ROCK EMBANKMENT	1,460	MTN	LIME FOR LIME TREATED SOIL
16,450	MTN	SELECT MATERIAL, CLASS II	120	MTN	#57 STONE
14,825	MTN	SELECT MATERIAL, CLASS IV	1,000	MTN	STABILIZER AGGREGATE
3,100	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	88,180	M2	****MM SOIL CEMENT BASE (180MM)
190.8	M	375MM SIDE DRAIN PIPE	2,650	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE
6	M	450MM SIDE DRAIN PIPE	600	MTN	AGGREGATE FOR SOIL CEMENT BASE
171.6	M	****MM RC PIPE CULVERTS, CLASS *** (1800MM, V)	148,400	L	ASPHALT CURING SEAL
105.6	M	1050MM RC PIPE CULVERTS, CLASS III	4,500	MTN	INCIDENTAL STONE BASE
60	M	1350MM RC PIPE CULVERTS, CLASS III	7,300	L	PRIME COAT
195.6	M	1500MM RC PIPE CULVERTS, CLASS III	6,300	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B
112.8	M	1650MM RC PIPE CULVERTS, CLASS III	2,625	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
15.6	M	1800MM RC PIPE CULVERTS, CLASS III	17,300	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
154.8	M	****MM RC PIPE CULVERTS, CLASS IV (1050MM)	6,000	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
51.6	M	****MM RC PIPE CULVERTS, CLASS IV (1200MM)	17,550	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
276	M	****MM RC PIPE CULVERTS, CLASS IV (1350MM)	915	MTN	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A
90	M	****MM RC PIPE CULVERTS, CLASS IV (1650MM)	1,629	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 76-22
			19,700	M	MILLED RUMBLE STRIPS
			1,010	M2	****MM PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (280MM)
			11,765	M2	****MM PORT CEM CONC PAVEMENT, RAMPS (WITH DOWELS) (280MM)

				2	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
				3	EA	GENERIC EROSION CONTROL ITEM DRY DETENTION DRAW DOWN STRUCTURE
27,150	MTN	GENERIC PAVING ITEM ASPHALT CONC SURFACE COURSE, TYPE S9.5D		34	M3	REINFORCED CONCRETE SIGN FOOTINGS
Lump Sum	LS	SURFACE TESTING CONCRETE PAVEMENT	10,939	KG		SUPPORTS, BREAKAWAY STEEL BEAM
Lump Sum	LS	FIELD LABORATORY RENTAL, PORT CEM CONC PAVEMENT	3,536	KG		SUPPORTS, SIMPLE STEEL BEAM
184	EA	RIGHT OF WAY MARKERS	1,721	M		SUPPORTS, 4.5KG STEEL U-CHANNEL
2,070	M3	SUBDRAIN EXCAVATION	42	EA		SUPPORTS, 3KG STEEL U-CHANNEL
1,035	M3	SUBDRAIN FINE AGGREGATE	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (11+00-L-)
2,500	M	150MM PERFORATED SUBDRAIN PIPE	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (15+28-RAMP C-)
250	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (1609M FROM 6+70-Y6-)
17	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (17+20-Y6-)
34	M	150MM OUTLET PIPE (SUBDRAINS)	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (22+80-Y6-)
8,480	M	SHOULDER DRAIN	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (26+00-L-)
8,480	M	100MM SHOULDER DRAIN PIPE	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (26+50-Y6-)
540	M	100MM OUTLET PIPE (SHOULDER DRAINS)	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (27+00-L-)
45	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (27+80-Y6-)
26.6	M3	ENDWALLS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (3+54-RAMP B-)
37	M3	REINFORCED ENDWALLS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (31+00-Y6-)
11.19	M3	PIPE COLLARS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (36+20-Y6-)
1	M3	PIPE PLUGS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (39+20-Y6-)
196	EA	MASONRY DRAINAGE STRUCTURES	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (41+80-L-)
18.2	M3	MASONRY DRAINAGE STRUCTURES	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (42+00-Y6-)
48.406	M	MASONRY DRAINAGE STRUCTURES	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (43+00-L-)
18	EA	FRAME WITH TWO GRATES, STD 840.20	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (50+20-Y6-)
141	EA	FRAME WITH TWO GRATES, STD 840.22	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (53+10-L-)
5	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (55+00-Y6-)
12	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (58+40-L-)
6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (6+70-Y6-)
5	EA	FRAME WITH COVER, STD 840.54	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (66+20-Y6-)
5	EA	STEEL FRAME WITH TWO GRATES, STD 840.37	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (79+20-Y6-)
Lump Sum	LS	GENERIC DRAINAGE ITEM EMERGENCY SPILL BASINS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (8+43-L-)
2,225	M	750MM CONCRETE CURB & GUTTER	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (95+00-Y6-)
4	EA	MODIFIED CONCRETE FLUME	Lump Sum	LS		OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-**" (DMS-1 @ 420M BEYOND MM119)
1,050	M	CONCRETE EXPRESSWAY GUTTER	Lump Sum	LS		OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-**" (DMS-2 @ 20M BEYOND MM109)
12	M2	CONCRETE WHEELCHAIR RAMPS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (6+70-Y6-)
205	M2	150MM CONCRETE DRIVEWAY	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (66+20-Y6-)
100	M2	100MM CONCRETE PAVED DITCH	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (79+20-Y6-)
410	M	CONCRETE BARRIER, TYPE ***** (PRECAST PERMANENT)	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (8+43-L-)
120	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (95+00-Y6-)
1	EA	ADJUSTMENT OF CATCH BASINS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (53+10-L-)
1	EA	ADJUSTMENT OF DROP INLETS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (55+00-Y6-)
1	EA	ADJUSTMENT OF MANHOLES	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (58+40-L-)
7,403.21	M	STEEL BM GUARDRAIL	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (6+70-Y6-)
10	EA	ADDITIONAL GUARDRAIL POSTS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (66+20-Y6-)
29	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (79+20-Y6-)
31	EA	GUARDRAIL ANCHOR UNITS, TYPE III	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (8+43-L-)
55	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (95+00-Y6-)
5	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350	Lump Sum	LS		OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-**" (DMS-1 @ 420M BEYOND MM119)
3	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77	Lump Sum	LS		OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-**" (DMS-2 @ 20M BEYOND MM109)
3,500	M	DOUBLE FACED CABLE GUIDERAIL	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (6+70-Y6-)
18	EA	CABLE GUIDERAIL ANCHOR UNITS	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (66+20-Y6-)
12,530	M	WOVEN WIRE FENCE, 1200MM FABRIC	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (79+20-Y6-)
2,550	EA	100MM TIMBER FENCE POSTS, 2.30M LONG	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (8+43-L-)
710	EA	125MM TIMBER FENCE POSTS, 2.50M LONG	Lump Sum	LS		OVERHEAD SIGN ASSEMBLY AT STA ***** (95+00-Y6-)
300	M	ADDITIONAL BARBED WIRE	Lump Sum	LS		OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-**" (DMS-1 @ 420M BEYOND MM119)
1	EA	DOUBLE GATES, *****MM HIGH, *****MM WIDE, *****MM OPENING (1200MM, 3000MM, 6000MM)	Lump Sum	LS		OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-**" (DMS-2 @ 20M BEYOND MM109)
865	MTN	PLAIN RIP RAP, CLASS I	20	EA		SIGN ERECTION, TYPE D
45	MTN	PLAIN RIP RAP, CLASS A	100	EA		SIGN ERECTION, TYPE E
3,460	MTN	PLAIN RIP RAP, CLASS B	89	EA		SIGN ERECTION, TYPE F
165	MTN	BOULDERS	8	EA		SIGN ERECTION, TYPE *** (OVERHEAD) (A)
10,560	M2	FILTER FABRIC FOR DRAINAGE				

			59,092	M	PAINT PAVEMENT MARKING LINES (150MM)
			8,156	M	PAINT PAVEMENT MARKING LINES (300MM)
53	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	132	M	PAINT PAVEMENT MARKING LINES (600MM)
18	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	64,200	M	POLYUREA PAVEMENT MARKING LINES (150MM)
42	EA	SIGN ERECTION, MILEMARKERS	6,000	M	POLYUREA PAVEMENT MARKING LINES (300MM)
32	EA	SIGN ERECTION, OVERLAY (OVERHEAD)	35	M	POLYUREA PAVEMENT MARKING LINES (600MM)
29	EA	SIGN ERECTION, OVERLAY (GROUND MOUNTED)	24	EA	POLYUREA PAVEMENT MARKING CHARACTER
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (15+28-RAMP C-)	82	EA	POLYUREA PAVEMENT MARKING SYMBOL
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (17+20-Y6-)	2,116	M	REMOVAL OF PAVEMENT MARKING LINES (150MM)
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (22+80-Y6-)	270	EA	PERMANENT RAISED PAVEMENT MARKERS
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (26+50-Y6-)	2,845	EA	SNOWPLOWABLE PAVEMENT MARKERS
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (27+80-Y6-)	4	EA	30.5M HIGH MOUNT STANDARD
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (31+00-Y6-)	1	EA	PORTABLE DRIVE UNIT
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (36+20-Y6-)	21.41	M3	HIGH MOUNT FOUNDATIONS
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (39+20-Y6-)	24	EA	HIGH MOUNT LUMINAIRES ***** (750W HPS)
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (42+00-Y6-)	1	EA	ELECTRIC SERVICE POLES *** ***** (9.1M CLASS 4)
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (43+00-L-)	20	M	ELECTRIC SERVICE LATERAL ***** (3 #1/0 USE)
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (53+10-L-)	1	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (240/480 VOLT)
Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY AT STA ***** (58+40-L-)	117	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS2)
4	EA	RELOCATE SIGN, TYPE ***** (A, GROUND MOUNT)	61	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS3)
40	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	82	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS4)
97	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	86	M	**#8 W/G FEEDER CIRCUIT (2)
2	EA	DISPOSAL OF SIGN SYSTEM, WOOD	160	M	**#6 W/G FEEDER CIRCUIT (2)
9	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)	86	M	**#4 W/G FEEDER CIRCUIT (2)
1,001	M3	GENERIC SIGNING ITEM OVERHEAD FOOTINGS	271	M	***#8 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)
203	M2	WORK ZONE SIGNS (STATIONARY)	377	M	***#6 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)
12	M2	WORK ZONE SIGNS (PORTABLE)	285	M	***#4 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)
17	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)	6	EA	ELECTRICAL JUNCTION BOXES ***** (PC18)
4	EA	FLASHING ARROW PANELS, TYPE C	3	EA	ELECTRICAL JUNCTION BOXES ***** (PC24)
2	EA	CHANGEABLE MESSAGE SIGN	2,482	MTN	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (VI)
638	EA	DRUMS	2,482	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (VI)
219	M	BARRICADES (TYPE III)	219	MTN	PAVEMENT REPAIR FOR UTILITY WORK
1,080	MD	FLAGGER	63	M	150MM DI WATER PIPE, PC 2.41MPA
11	EA	TEMPORARY CRASH CUSHIONS	65	M	300MM DI WATER PIPE, PC 2.41MPA
3	EA	TRUCK MOUNTED IMPACT ATTENUATOR (60 MPH)	41	M	***MM DI RESTRAINED JOINT WATER PIPE, CLASS ***** WP (200MM, 2.41MPA)
3,434	M	PORTABLE CONCRETE BARRIER	123	M	***MM DI RESTRAINED JOINT WATER PIPE, CLASS ***** WP (300MM, 2.41MPA)
1,146	M	PORTABLE CONCRETE BARRIER (DRAINAGE)	1,191	KG	DI RESTRAINED JOINT WATER PIPE FITTINGS, 1.72MPA MIN WP
4,577	EA	TEMPORARY RAISED PAVEMENT MARKERS	92	M	20MM COPPER WATER PIPE, TYPE K
6,990	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)	612	KG	DUCTILE IRON WATER PIPE FITTINGS, 1.72MPA MIN WP
7,932	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)	2	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP
25	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)	1	EA	200MM GATE VALVE & VALVE BOX, ***MPA WP (1.38MPA)
40,973	M	PAINT PAVEMENT MARKING LINES (100MM)	2	EA	300MM GATE VALVE & VALVE BOX, ***MPA WP (1.38MPA)
			1	EA	*** X ***MM TAPPING SADDLE (300MM X 20MM)

			3.5	MTN	FERTILIZER FOR REPAIR SEEDING
			2,250	KG	SEED FOR SUPPLEMENTAL SEEDING
			134	MTN	FERTILIZER TOPDRESSING
8	EA	RELOCATE EXISTING WATER METER	85	M	IMPERVIOUS DIKE
3	EA	REMOVE EXISTING WATER METER	21.5	HR	SPECIALIZED HAND MOWING
6	EA	RELOCATE EXISTING FIRE HYDRANT	1,250	M3	CULVERT DIVERSION CHANNEL
690.2	M	200MM PVC SEWER PIPE, SDR ** (26)	2	HA	REFORESTATION
126.3	M	200MM DI SEWER PIPE, PC 2.41MPA	1.2	HA	STREAMBANK REFORESTATION
423.5	M	***MM RC SEWER PIPE, CLASS *** (525MM,CL V)	4	EA	GENERIC EROSION CONTROL ITEM 102MM SKIMMER
7	EA	SANITARY SEWER CLEAN-OUT	89	EA	GENERIC EROSION CONTROL ITEM 51MM SKIMMER
2	EA	*****MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1800MM)	23	EA	GENERIC EROSION CONTROL ITEM 64MM SKIMMER
21	EA	1200MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH	9	EA	GENERIC EROSION CONTROL ITEM 76MM SKIMMER
9	EA	1500MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH	48	EA	GENERIC EROSION CONTROL ITEM RESPONSE FOR EROSION CONTROL
35.2	M	PRECAST CONC MANHOLE WALL, *****MM DIA, OVER 1.8M HT (1200MM)	2,750	M	GENERIC EROSION CONTROL ITEM COIR FIBER BAFFLE
66.3	M	PRECAST CONC MANHOLE WALL, *****MM DIA, OVER 1.8M HT (1500MM)	585	M	SIGNAL CABLE
1	M	PRECAST CONC MANHOLE WALL, *****MM DIA, OVER 1.8M HT (1800MM)	17	EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)
3.4	M	SEWER MANHOLE OUTSIDE DROP ASSEMBLY	2	EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)
44	M	REMOVE ABANDONED ***MM PIPE (450MM)	945	M	MESSENGER CABLE (6.35MM)
30	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (150MM, CI WATER)	300	M	MESSENGER CABLE (9.52MM)
201	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (200MM, TC SEWER)	6,600	M	TRACER WIRE
120	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (300MM, DI WATER)	510	M	TRENCHING (UNPAVED)
809	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (450MM, CONC SEWER)	2,012	M	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 31.75MM (** CONDUIT) (2)
18	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (500MM, DI SEWER)	16	EA	JUNCTION BOX (STANDARD SIZE)
387	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (525MM, CONC SEWER)	13	EA	WOOD POLE
17	EA	BREAK DOWN, PLUG, & FILL ABANDONED UTILITY MANHOLE	44	EA	GUY ASSEMBLY
2	EA	REMOVE EXISTING MANHOLE	3	EA	25MM RISER WITH WEATHERHEAD
106.9	M	***MM STEEL ENCASEMENT PIPE, *****MM THICK, BY OPEN CUT (600MM, 6.35MM)	14	EA	50MM RISER WITH WEATHERHEAD
20	EA	STEEL PILE PIERS	13	EA	50MM RISER WITH HEAT SHRINK TUBING
2	EA	GENERIC UTILITY ITEM INSTALL & REMOVE FIRE HYDRANT	625	M	INDUCTIVE LOOP SAWCUT
6	EA	GENERIC UTILITY ITEM REMOVE EXISTING STEEL PIER	1,180	M	LEAD-IN CABLE
170	M	GENERIC UTILITY ITEM 600MM DIRJ SEWER PIPE, PC 2.41MPA	1,092	M	COMMUNICATIONS CABLE (**FIBER) (12)
1,094	M	GENERIC UTILITY ITEM 600MM FIBERGLASS SEWER PIPE	19,206	M	COMMUNICATIONS CABLE (**FIBER) (24)
11,000	M	TEMPORARY SILT FENCE	488	M	DROP CABLE
7,200	MTN	STONE FOR EROSION CONTROL, CLASS A	6	EA	AERIAL SPLICE ENCLOSURE
14,000	MTN	STONE FOR EROSION CONTROL, CLASS B	12	EA	INTERCONNECT CENTER
11,440	MTN	SEDIMENT CONTROL STONE	42	EA	DELINEATOR MARKER
84	HA	TEMPORARY MULCHING	1	EA	FURNISH FIBER-OPTIC TRANSCEIVER
3,350	KG	SEED FOR TEMPORARY SEEDING	9	EA	SIGN FOR SIGNALS
27	MTN	FERTILIZER FOR TEMPORARY SEEDING	2	EA	SIGNAL CABINET FOUNDATION
580	M	TEMPORARY SLOPE DRAINS	2	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
40	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS	6	EA	DETECTOR CARD (TYPE 2070L)
6,880	M	SAFETY FENCE	1	EA	CONTROLLER WITH CABINET (NEMA TS-2, TYPE 2 CONTROLLER, TYPE 1 CABINET, BASE MOUNTED)
392,700	M3	SILT EXCAVATION	14	EA	DETECTOR CARD (NEMA TS-2)
11,300	M2	MATting FOR EROSION CONTROL	2	EA	GENERIC SIGNAL ITEM 1:8 VIDEO DE-MULTIPLExER
1,750	M2	COIR FIBER MAT	2	EA	GENERIC SIGNAL ITEM 8:1 VIDEO MULTIPLEXER
700	M2	PERMANENT SOIL REINFORCEMENT MAT	2	EA	GENERIC SIGNAL ITEM CABINET BASE EXTENDER
265	M	6.4MM HARDWARE CLOTH	8	EA	GENERIC SIGNAL ITEM CCTV ASSEMBLY
1	EA	***X ***X***MM PERFORATED CS PIPE TEE RISER, 2.01MM THICK (800MM X 800MM X 800MM)	8	EA	GENERIC SIGNAL ITEM CCTV WOOD POLE
240	M3	STILLING BASINS	2	EA	GENERIC SIGNAL ITEM DESKTOP JOYSTICK CONTROLLER
20	EA	SPECIAL STILLING BASINS	3	EA	GENERIC SIGNAL ITEM FIBER-OPTIC TRANSCEIVER SELF-HEALING RING
80	HA	SEEDING & MULCHING	2	EA	GENERIC SIGNAL ITEM FURNISH 1:8 VIDEO DE-MULTI-PLExER
47.5	HA	MOWING	2	EA	GENERIC SIGNAL ITEM FURNISH 8:1 VIDEO MULTIPLEXER
1,025	KG	SEED FOR REPAIR SEEDING	2	EA	GENERIC SIGNAL ITEM FURNISH SMFO 10/100 ETHERNET TRANSCEIVER
			2	EA	GENERIC SIGNAL ITEM FURNISH SMFO VIDEO RECEIVER (CENTRAL)
			2	EA	GENERIC SIGNAL ITEM FURNISH SMFO VIDEO TRANSCEIVER (FIELD)
			16	EA	GENERIC SIGNAL ITEM FUSION SPLICE 1 FIBER
			16	EA	GENERIC SIGNAL ITEM FUSION SPLICE 2 FIBERS
			1	EA	GENERIC SIGNAL ITEM FUSION SPLICE 3 FIBERS

			736.8	M	600MM RC PIPE CULVERTS, CLASS III	
			214.8	M	750MM RC PIPE CULVERTS, CLASS III	
1	EA	GENERIC SIGNAL ITEM FUSION SPLICE 4 FIBERS	166.8	M	900MM RC PIPE CULVERTS, CLASS III	
4	EA	GENERIC SIGNAL ITEM FUSION SPLICE 5 FIBERS	128.4	M	1200MM RC PIPE CULVERTS, CLASS III	
10	EA	GENERIC SIGNAL ITEM FUSION SPLICE 6 FIBERS	12	M	GENERIC PIPE ITEM 1200MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 2.77MM THICK	
52	EA	GENERIC SIGNAL ITEM JUNCTION BOX (OVER-SIZED)				
1	EA	GENERIC SIGNAL ITEM MODIFY EXISTING ELECTRICAL SERVICE	1,429.2	M	GENERIC PIPE ITEM 400MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK	
8	EA	GENERIC SIGNAL ITEM MODIFY EXISTING INTERCONNECT CENTER	561.6	M	GENERIC PIPE ITEM 450MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK	
8	EA	GENERIC SIGNAL ITEM NEW ELECTRICAL SERVICE				
2	EA	GENERIC SIGNAL ITEM NEW PHONE SERVICE	502	M	GENERIC PIPE ITEM 600MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK	
2	EA	GENERIC SIGNAL ITEM SMFO 10/100 ETHERNET TRANS-CEIVER	476.4	M	GENERIC PIPE ITEM 800MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 2.01MM THICK	
8	EA	GENERIC SIGNAL ITEM SMFO VIDEO TRANSCEIVER (CENTRAL)				
8	EA	GENERIC SIGNAL ITEM SMFO VIDEO TRANSCEIVER (FIELD)	12	M	GENERIC PIPE ITEM 900MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 2.01MM THICK	
3	EA	GENERIC SIGNAL ITEM TRANSCEIVER RACK WITH POWER SUPPLY				
1	EA	GENERIC SIGNAL ITEM VIDEO SWITCH				*** END SCHEDULE AA ***
Lump Sum	LS	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN "DMS-1"				***** BEGIN SCHEDULE AB ***** (2 ALTERNATES) *****
Lump Sum	LS	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN "DMS-2"	1,472,000	M3	UNCLASSIFIED EXCAVATION	
Lump Sum	LS	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-1"	75,200	M3	BORROW EXCAVATION	
Lump Sum	LS	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-2"	138,250	MTN	AGGREGATE BASE COURSE	
Lump Sum	LS	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-1"	73,800	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C	
Lump Sum	LS	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-2"	41,650	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0D	
Lump Sum	LS	GENERIC SIGNAL ITEM SYSTEM INTEGRATION	4,801	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	
4,588	M	GENERIC SIGNAL ITEM TRENCH/PLOW UNDERGROUND CONDUIT (31.75MM, 2 CONDUITS)	3,011	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	
						*** OR ***
			1,455,900	M3	UNCLASSIFIED EXCAVATION	
			83,600	M3	BORROW EXCAVATION	
			51,300	MTN	AGGREGATE BASE COURSE	
			130,600	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C	
3,027.6	M	375MM RC PIPE CULVERTS, CLASS III	45,400	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0D	
1,504.8	M	450MM RC PIPE CULVERTS, CLASS III	7,241	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	
1,238.8	M	600MM RC PIPE CULVERTS, CLASS III	3,183	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	
691.2	M	750MM RC PIPE CULVERTS, CLASS III				*** END SCHEDULE AB ***
178.8	M	900MM RC PIPE CULVERTS, CLASS III				
140.4	M	1200MM RC PIPE CULVERTS, CLASS III				
						*** OR ***
1,598.4	M	375MM RC PIPE CULVERTS, CLASS III				Lump Sum LS CULVERT EXCAVATION, STA ***** (33+42.000 -L-)
943.2	M	450MM RC PIPE CULVERTS, CLASS III				Lump Sum LS CULVERT EXCAVATION, STA ***** (45+88.000 -L-)
736.8	M	600MM RC PIPE CULVERTS, CLASS III	1,050	MTN	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT	
214.8	M	750MM RC PIPE CULVERTS, CLASS III	1,941.4	M3	CLASS A CONCRETE (CULVERT)	
166.8	M	900MM RC PIPE CULVERTS, CLASS III	145,604	KG	REINFORCING STEEL (CULVERT)	
128.4	M	1200MM RC PIPE CULVERTS, CLASS III				
12	M	GENERIC PIPE ITEM 1200MM HDPE PIPE CULVERTS				
1,429.2	M	GENERIC PIPE ITEM 375MM HDPE PIPE CULVERTS				Lump Sum LS REMOVAL OF EXISTING STRUCTURE AT STATION ***** (28+77.454 -L-)
561.6	M	GENERIC PIPE ITEM 450MM HDPE PIPE CULVERTS				Lump Sum LS FOUNDATION EXCAVATION FOR END BENT ** AT STATION ***** (1,13+45.031 -L-)
502	M	GENERIC PIPE ITEM 600MM HDPE PIPE CULVERTS				Lump Sum LS FOUNDATION EXCAVATION FOR END BENT ** AT STATION ***** (1,38+45.624 -L-)
476.4	M	GENERIC PIPE ITEM 750MM HDPE PIPE CULVERTS				Lump Sum LS FOUNDATION EXCAVATION FOR END BENT ** AT STATION ***** (2,13+45.031 -L-)
12	M	GENERIC PIPE ITEM 900MM HDPE PIPE CULVERTS				Lump Sum LS FOUNDATION EXCAVATION FOR END BENT ** AT STATION ***** (2,38+45.624 -L-)
						*** OR ***
1,598.4	M	375MM RC PIPE CULVERTS, CLASS III				Lump Sum LS FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,13+45.031 -L-)
943.2	M	450MM RC PIPE CULVERTS, CLASS III				Lump Sum LS FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,13+45.031 -L-)

CULVERT ITEMS

STRUCTURE ITEMS

Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,19+26.763 -FLY-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,38+45.624 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,51+85.394 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,52+13.020 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,52+65.808 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,52+93.640 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,19+26.763 -FLY-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,19+26.763 -FLY-)
119.8	M	PILE EXCAVATION IN SOIL
212.4	M	PILE EXCAVATION NOT IN SOIL
19.8	M	1066MM DIA DRILLED PIERS IN SOIL
14.4	M	1220MM DIA DRILLED PIERS IN SOIL
61	M	1066MM DIA DRILLED PIERS NOT IN SOIL
12	M	1220MM DIA DRILLED PIERS NOT IN SOIL
7	EA	SID INSPECTION
2	EA	CROSSHOLE SONIC LOGGING
11,636	M2	REINFORCED CONCRETE DECK SLAB
11,615.1	M2	GROOVING BRIDGE FLOORS
1,463.3	M3	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (13+45.031 -L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (19+26.763 -FLY-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (28+77.454 -L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (38+45.624 -L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (51+85.394 -L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (52+13.020 -L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (52+65.808 -L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (52+93.640 -L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (54+36.375 -L-)
155,361	KG	REINFORCING STEEL (BRIDGE)
8,576	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
2,270,400	LS	APPROX KG STRUCTURAL STEEL
1,319.2	M	HP310X79 STEEL PILES
512.392	M	TWO BAR METAL RAIL
1,189.51	M	CONCRETE BARRIER RAIL
526.516	M	*** X ****MM CONCRETE PARAPET (355MM X 915MM)
4,056	M2	100MM SLOPE PROTECTION
1,530	MTN	PLAIN RIP RAP CLASS II (600MM THICK)
1,500	M2	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	POT BEARINGS
Lump Sum	LS	ELASTOMERIC BEARINGS
Lump Sum	LS	EVAZOTE JOINT SEALS
Lump Sum	LS	EXPANSION JOINT SEALS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L070417 003

CONTRACT ID : C201715 34345.3.13

DIV OFFICE GREENSBORO

LENGTH = 10.242 KM

COUNTY : GUILFORD, RANDOLPH

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 12.0% COMPLETION DATE : MAY 15 2011

US-311 (HIGH POINT EAST BELT) FROM US-29 & 70 TO NORTH OF SR-1929 (SPENCER RD) FUTURE I-74 CORRIDOR.

ROADWAY ITEMS					
			31.7	M	600MM SIDE DRAIN PIPE
			171.6	M	****MM RC PIPE CULVERTS, CLASS *** (1800MM, V)
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING	398	M	900MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	FIELD OFFICE			
8,995	M3	GENERIC MISCELLANEOUS ITEM CHIPPED TIRE MATERIAL	268.9	M	1050MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	CLEARING & GRUBBING ... HEC- TARE(S)	114.8	M	1350MM RC PIPE CULVERTS, CLASS III
4.4	HA	SUPPLEMENTARY CLEARING & GRUB- BING	390.6	M	1500MM RC PIPE CULVERTS, CLASS III
20	EA	SEALING ABANDONED WELLS	254.2	M	1650MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (12+61.464 -Y3-)	15.6	M	1800MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (12+66.293 -Y1-)	81.6	M	2100MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+41.484 -Y2-)	210.8	M	****MM RC PIPE CULVERTS, CLASS IV (1050MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+84.694 -Y8-)	51.6	M	****MM RC PIPE CULVERTS, CLASS IV (1200MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+84.722 -Y9-)	454	M	****MM RC PIPE CULVERTS, CLASS IV (1350MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (19+26.763 -FLY-)	90	M	****MM RC PIPE CULVERTS, CLASS IV (1650MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (21+25.789 -SBCD-)	177.6	M	****MM RC PIPE CULVERTS, CLASS IV (1800MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (21+32.418 -NBCD-)	60	M	****MM RC PIPE CULVERTS, CLASS IV (2100MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+01.765 -FLY-)	88.8	M	****MM RC PIPE CULVERTS, CLASS IV (450MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+65.00 -L-, RT)	85.2	M	****MM RC PIPE CULVERTS, CLASS IV (600MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+65.00 -L-, LT)	205.2	M	****MM RC PIPE CULVERTS, CLASS IV (750MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (27+10.159 -Y6- NB)	200.8	M	****MM RC PIPE CULVERTS, CLASS IV (900MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (27+12.087 -Y6- SB)	1	EA	***MM PIPE END SECTION (450MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (28+52.41 -Y1-)	1	EA	****MM PIPE END SECTION (750MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (35+60.41 -Y-)	2	EA	1500 X 900MM RC PIPE TAPERED INLET, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (35+60.41 -Y-)	1	EA	2100 X 1500MM RC PIPE TAPERED INLET, CLASS III
35,796	M3	UNDERCUT EXCAVATION	51.2	M	600MM CS PIPE CULVERTS, 1.63MM THICK
1,000	MTN	CLASS IV SUBGRADE STABILIZA- TION	79.4	M	800MM CS PIPE CULVERTS, 2.01MM THICK
54,229	M3	DRAINAGE DITCH EXCAVATION	109.2	M	300MM BIT COAT CS PIPE CUL- VERTS, TYPE B 1.63MM THICK
1,695	M	BERM DITCH CONSTRUCTION	675.6	M	400MM BIT COAT CS PIPE CUL- VERTS, TYPE B 1.63MM THICK
43,339	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT	181.5	M	450MM BIT COAT CS PIPE CUL- VERTS, TYPE B 1.63MM THICK
6,630	M2	REMOVAL OF EXISTING CONCRETE PAVEMENT	121.2	M	600MM BIT COAT CS PIPE CUL- VERTS, TYPE B 1.63MM THICK
1,354	M2	BREAKING OF EXISTING ASPHALT PAVEMENT	88.4	M	800MM BIT COAT CS PIPE CUL- VERTS, TYPE B 2.01MM THICK
125	HR	PROOF ROLLING	52.2	M	900MM BIT COAT CS PIPE CUL- VERTS, TYPE B 2.01MM THICK
9,382	M3	SELECT GRANULAR MATERIAL	8.4	M	1000MM BIT COAT CS PIPE CUL- VERTS, TYPE B 2.77MM THICK
7,418	M2	FABRIC FOR SOIL STABILIZATION			
100	M2	TEMPORARY SHORING - BARRIER SUPPORTED	62.4	M	1200MM BIT COAT CS PIPE CUL- VERTS, TYPE B 2.77MM THICK
2,400	MTN	ROCK EMBANKMENT			
16,450	MTN	SELECT MATERIAL, CLASS II	2	EA	****MM BIT COAT CS PIPE ELBOWS, TYPE B ****MM THICK (900MM, 2.01MM)
15,120	MTN	SELECT MATERIAL, CLASS IV			
5,756	MTN	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRS	14	EA	300MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
429.3	M	375MM SIDE DRAIN PIPE	44	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
164.2	M	450MM SIDE DRAIN PIPE			

			5	EA	FRAME WITH TWO GRATES, STD 840.24
			11	EA	FRAME WITH TWO GRATES, STD 840.29
			8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
			12	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
			6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
			6	EA	FRAME WITH COVER, STD 840.54
			5	EA	STEEL FRAME WITH TWO GRATES, STD 840.37
			1	EA	CONCRETE APRON FOR DROP INLETS
			2	EA	***MM SLUICE GATE (800MM)
			5	EA	***MM SLUICE GATE (900MM)
			Lump Sum	LS	GENERIC DRAINAGE ITEM EMERGENCY SPILL BASINS
			Lump Sum	LS	GENERIC DRAINAGE ITEM HAZARDOUS SPILL/DRY DETENTION BASINS
			310	M2	GENERIC GRADING ITEM (M2) ROCK PLATING
			280	M2	GENERIC GRADING ITEM (M2) TEMPORARY FABRIC WALL
			2,548	M	750MM CONCRETE CURB & GUTTER
			2,388	M	SHOULDER BERM GUTTER
			5	EA	MODIFIED CONCRETE FLUME
			1,050	M	CONCRETE EXPRESSWAY GUTTER
			12	M2	CONCRETE WHEELCHAIR RAMPS
			305	M2	150MM CONCRETE DRIVEWAY
			130	M2	100MM CONCRETE PAVED DITCH
			2,140	M2	125MM MONOLITHIC CONCRETE ISLANDS (KEYED IN)
			410	M	CONCRETE BARRIER, TYPE ***** (PRECAST PERMANENT)
			120	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED
			1	EA	ADJUSTMENT OF CATCH BASINS
			1	EA	ADJUSTMENT OF DROP INLETS
			1	EA	ADJUSTMENT OF MANHOLES
			13,533.5	M	STEEL BM GUARDRAIL
			217.17	M	STEEL BM GUARDRAIL, SHOP CURVED
			8	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS
			30	EA	ADDITIONAL GUARDRAIL POSTS
			4	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1
			42	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
			53	EA	GUARDRAIL ANCHOR UNITS, TYPE III
			96	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
			7	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350
			3	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77
			5,565	M	CABLE GUIDERAIL
			3,500	M	DOUBLE FACED CABLE GUIDERAIL
			41	EA	CABLE GUIDERAIL ANCHOR UNITS
			27,571	M	WOVEN WIRE FENCE, 1200MM FABRIC
			5,428	EA	100MM TIMBER FENCE POSTS, 2.30M LONG
			1,535	EA	125MM TIMBER FENCE POSTS, 2.50M LONG
			900	M	ADDITIONAL BARBED WIRE
			1	EA	DOUBLE GATES, ****MM HIGH, ****MM WIDE, ****MM OPENING (1200MM, 3000MM, 6000MM)
			1,786	MTN	PLAIN RIP RAP, CLASS I
			145	MTN	PLAIN RIP RAP, CLASS II
			79	MTN	PLAIN RIP RAP, CLASS A
			4,768	MTN	PLAIN RIP RAP, CLASS B
			410	MTN	BOULDERS
			28,305	M2	FILTER FABRIC FOR DRAINAGE
			15	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
			3	EA	GENERIC EROSION CONTROL ITEM DRY DETENTION DRAW DOWN STRUCTURE
			2	EA	GENERIC EROSION CONTROL ITEM LEVEL SPREADER
			37	M3	REINFORCED CONCRETE SIGN FOOTINGS
			12,357	KG	SUPPORTS, BREAKAWAY STEEL BEAM
			3,536	KG	SUPPORTS, SIMPLE STEEL BEAM
4	EA	450MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK			
4	EA	600MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK			
4	EA	800MM BIT COAT CS PIPE ELBOWS, TYPE B 2.01MM THICK			
284.4	M	*****MM WELDED STEEL PIPE, *****MM THICK, GRADE B, INSTALLED BY BORING & JACKING (1050MM, 2.77MM)			
132	M	*****MM WELDED STEEL PIPE, *****MM THICK, GRADE B, INSTALLED BY BORING & JACKING (1350MM, 2.77MM)			
1,244.6	M	PIPE REMOVAL			
1,078	M2	150MM SLOPE PROTECTION			
1,925	M2	GENERIC GRADING ITEM 100MM SLOPE PROTECTION			
Lump Sum	LS	FINE GRADING			
196,855	M2	LIME TREATED SOIL (SLURRY METHOD)			
2,184	MTN	LIME FOR LIME TREATED SOIL			
158	MTN	#57 STONE			
1,953	MTN	STABILIZER AGGREGATE			
168,715	M2	***MM SOIL CEMENT BASE (180MM)			
5,078	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE			
1,164	MTN	AGGREGATE FOR SOIL CEMENT BASE			
247,933	L	ASPHALT CURING SEAL			
5,272	MTN	INCIDENTAL STONE BASE			
17,883	L	PRIME COAT			
7,934	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B			
11,261	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B			
13,625	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B			
45,349	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C			
2,165	MTN	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A			
1,629	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 76-22			
181	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR			
40,286	M	MILLED RUMBLE STRIPS			
1,010	M2	***MM PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (280MM)			
11,765	M2	***MM PORT CEM CONC PAVEMENT, RAMPS (WITH DOWELS) (280MM)			
27,150	MTN	GENERIC PAVING ITEM ASPHALT CONC SURFACE COURSE, TYPE S9.5D			
Lump Sum	LS	SURFACE TESTING CONCRETE PAVEMENT			
Lump Sum	LS	FIELD LABORATORY RENTAL, PORT CEM CONC PAVEMENT			
439	EA	RIGHT OF WAY MARKERS			
3,591	M3	SUBDRAIN EXCAVATION			
1,885	M3	SUBDRAIN FINE AGGREGATE			
4,521	M	150MM PERFORATED SUBDRAIN PIPE			
451	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS			
30	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET			
58	M	150MM OUTLET PIPE (SUBDRAINS)			
14,009	M	SHOULDER DRAIN			
14,009	M	100MM SHOULDER DRAIN PIPE			
1,155	M	100MM OUTLET PIPE (SHOULDER DRAINS)			
70	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET			
28	MTN	BLOTTING SAND			
72.06	M3	ENDWALLS			
64.53	M3	REINFORCED ENDWALLS			
12.72	M3	PIPE COLLARS			
1	M3	PIPE PLUGS			
348	EA	MASONRY DRAINAGE STRUCTURES			
25.07	M3	MASONRY DRAINAGE STRUCTURES			
74.266	M	MASONRY DRAINAGE STRUCTURES			
4	EA	FRAME WITH GRATE, STD 840.22			
3	EA	FRAME WITH TWO GRATES, STD 840.16			
33	EA	FRAME WITH TWO GRATES, STD 840.20			
254	EA	FRAME WITH TWO GRATES, STD 840.22			

				58	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)
2,134	M	SUPPORTS, 4.5KG STEEL U-CHANNEL		20	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)
50	EA	SUPPORTS, 3KG STEEL U-CHANNEL		50	EA	SIGN ERECTION, MILEMARKERS
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (11+00-L-)		32	EA	SIGN ERECTION, OVERLAY (OVER- HEAD)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (15+28-RAMP C-)		29	EA	SIGN ERECTION, OVERLAY (GROUND MOUNTED)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (1609M FROM 6+70-Y6-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (15+28-RAMP C-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (17+20-Y6-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (17+20-Y6-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (22+80-Y6-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (22+80-Y6-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (26+00-L-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (26+50-Y6-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (26+50-Y6-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (27+80-Y6-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (27+00-L-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (31+00-Y6-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (27+80-Y6-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (36+20-Y6-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (3+54-RAMP B-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (39+20-Y6-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (31+00-Y6-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (42+00-Y6-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (36+20-Y6-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (43+00-L-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (39+20-Y6-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (53+10-L-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (41+80-L-)		Lump Sum	LS	LRS LIGHTING SYSTEM FOR OVER- HEAD SIGN ASSEMBLY AT STA ***** (58+40-L-)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (42+00-Y6-)		4	EA	RELOCATE SIGN, TYPE ***** (A, GROUND MOUNT)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (43+00-L-)		40	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (50+20-Y6-)		97	EA	DISPOSAL OF SIGN SYSTEM, U- CHANNEL
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (53+10-L-)		2	EA	DISPOSAL OF SIGN SYSTEM, WOOD
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (55+00-Y6-)		9	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (58+40-L-)		1,047.21	M3	GENERIC SIGNING ITEM OVERHEAD FOOTINGS
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (6+70-Y6-)		247	M2	WORK ZONE SIGNS (STATIONARY)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (66+20-Y6-)		58	M2	WORK ZONE SIGNS (PORTABLE)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (74+00.00)		46	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (79+20-Y6-)		6	EA	FLASHING ARROW PANELS, TYPE C
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (8+43-L-)		3	EA	CHANGEABLE MESSAGE SIGN
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (90+20.00)		4	EA	WARNING FLAG SETS
Lump Sum	LS	OVERHEAD SIGN ASSEMBLY AT STA ***** (95+00-Y6-)		943	EA	DRUMS
Lump Sum	LS	OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS.*" (DMS-1 @ 420M BEYOND MM119)		124	EA	CONES
Lump Sum	LS	OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS.*" (DMS-2 @ 20M BEYOND MM109)		636	M	BARRICADES (TYPE III)
28	EA	SIGN ERECTION, TYPE D		1,305	MD	FLAGGER
136	EA	SIGN ERECTION, TYPE E		17	EA	TEMPORARY CRASH CUSHIONS
106	EA	SIGN ERECTION, TYPE F		2	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (45 MPH)
8	EA	SIGN ERECTION, TYPE *** (OVER- HEAD) (A)		3	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (60 MPH)
				3,749	M	PORTABLE CONCRETE BARRIER
				1,146	M	PORTABLE CONCRETE BARRIER (DRAINAGE)
				44	EA	TUBULAR MARKERS (FIXED)
				5,192	EA	TEMPORARY RAISED PAVEMENT MARKERS
				10,840	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)
				11,528	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)
				170	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)

			2,482	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (VI)
			239	MTN	PAVEMENT REPAIR FOR UTILITY WORK
			84	M	150MM DI WATER PIPE, PC 2.41MPA
			65	M	300MM DI WATER PIPE, PC 2.41MPA
			36.7	M	400MM DI WATER PIPE, PC ***MPA (2.41MPA)
			41	M	***MM DI RESTRAINED JOINT WATER PIPE, CLASS ***** WP (200MM, 2.41MPA)
			123	M	***MM DI RESTRAINED JOINT WATER PIPE, CLASS ***** WP (300MM, 2.41MPA)
			3,291	KG	DI RESTRAINED JOINT WATER PIPE FITTINGS, 1.72MPA MIN WP
			101.5	M	20MM COPPER WATER PIPE, TYPE K
			612	KG	DUCTILE IRON WATER PIPE FITTINGS, 1.72MPA MIN WP
			2	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP
			1	EA	200MM GATE VALVE & VALVE BOX, ****MPA WP (1.38MPA)
			2	EA	300MM GATE VALVE & VALVE BOX, ****MPA WP (1.38MPA)
			1	EA	*** X ***MM TAPPING SADDLE (300MM X 20MM)
			9	EA	RELOCATE EXISTING WATER METER
			3	EA	REMOVE EXISTING WATER METER
			8	EA	RELOCATE EXISTING FIRE HYDRANT
			690.2	M	200MM PVC SEWER PIPE, SDR ** (26)
			126.3	M	200MM DI SEWER PIPE, PC 2.41MPA
			423.5	M	***MM RC SEWER PIPE, CLASS *** (525MM,CL V)
			7	EA	SANITARY SEWER CLEAN-OUT
			2	EA	***MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1800MM)
			21	EA	1200MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH
			9	EA	1500MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH
			35.2	M	PRECAST CONC MANHOLE WALL, ***MM DIA, OVER 1.8M HT (1200MM)
			66.3	M	PRECAST CONC MANHOLE WALL, ***MM DIA, OVER 1.8M HT (1500MM)
			1	M	PRECAST CONC MANHOLE WALL, ***MM DIA, OVER 1.8M HT (1800MM)
			3.4	M	SEWER MANHOLE OUTSIDE DROP ASSEMBLY
			44	M	REMOVE ABANDONED ***MM PIPE (450MM)
			30	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (150MM, CI WATER)
			201	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (200MM, TC SEWER)
			120	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (300MM, DI WATER)
			809	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (450MM, CONC SEWER)
			18	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (500MM, DI SEWER)
			387	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (525MM, CONC SEWER)
			17	EA	BREAK DOWN, PLUG, & FILL ABANDONED UTILITY MANHOLE
			2	EA	REMOVE EXISTING MANHOLE
			178.9	M	***MM STEEL ENCASMENT PIPE, ***MM THICK, BY OPEN CUT (600MM, 6.35MM)
			20	EA	STEEL PILE PIERS
			2	EA	GENERIC UTILITY ITEM INSTALL & REMOVE FIRE HYDRANT
			6	EA	GENERIC UTILITY ITEM REMOVE EXISTING STEEL PIER
			170	M	GENERIC UTILITY ITEM 600MM DIRJ SEWER PIPE, PC 2.41MPA
			1,094	M	GENERIC UTILITY ITEM 600MM FIBERGLASS SEWER PIPE
			17,734	M	TEMPORARY SILT FENCE
34	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)			
12	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)			
123,399	M	PAINT PAVEMENT MARKING LINES (100MM)			
59,092	M	PAINT PAVEMENT MARKING LINES (150MM)			
271	M	PAINT PAVEMENT MARKING LINES (200MM)			
8,156	M	PAINT PAVEMENT MARKING LINES (300MM)			
252	M	PAINT PAVEMENT MARKING LINES (600MM)			
4	EA	PAINT PAVEMENT MARKING CHARACTER			
24	EA	PAINT PAVEMENT MARKING SYMBOL			
18,001	M	POLYUREA PAVEMENT MARKING LINES (100MM)			
78,330	M	POLYUREA PAVEMENT MARKING LINES (150MM)			
6,000	M	POLYUREA PAVEMENT MARKING LINES (300MM)			
35	M	POLYUREA PAVEMENT MARKING LINES (600MM)			
24	EA	POLYUREA PAVEMENT MARKING CHARACTER			
111	EA	POLYUREA PAVEMENT MARKING SYMBOL			
1,067	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)			
2,116	M	REMOVAL OF PAVEMENT MARKING LINES (150MM)			
935	EA	PERMANENT RAISED PAVEMENT MARKERS			
3,340	EA	SNOWPLOWABLE PAVEMENT MARKERS			
20	EA	FLEXIBLE DELINEATORS (CRYSTAL)			
25	EA	FLEXIBLE DELINEATORS (YELLOW)			
5	EA	FLEXIBLE DELINEATORS (CRYSTAL & RED)			
5	EA	FLEXIBLE DELINEATORS (YELLOW & RED)			
6	EA	OBJECT MARKERS (END OF ROAD)			
4	EA	30.5M HIGH MOUNT STANDARD			
1	EA	PORTABLE DRIVE UNIT			
21.41	M3	HIGH MOUNT FOUNDATIONS			
24	EA	HIGH MOUNT LUMINAIRES ***** (750W HPS)			
1	EA	ELECTRIC SERVICE POLES *** ***** (9.1M CLASS 4)			
20	M	ELECTRIC SERVICE LATERAL ***** (3 #1/0 USE)			
1	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (240/480 VOLT)			
117	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS2)			
61	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS3)			
82	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS4)			
86	M	***8 W/G FEEDER CIRCUIT (2)			
160	M	***6 W/G FEEDER CIRCUIT (2)			
86	M	***4 W/G FEEDER CIRCUIT (2)			
271	M	***8 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)			
377	M	***6 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)			
285	M	***4 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)			
6	EA	ELECTRICAL JUNCTION BOXES ***** (PC18)			
3	EA	ELECTRICAL JUNCTION BOXES ***** (PC24)			
2,484	MTN	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (VI)			
2	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (IV)			

10,083	MTN	STONE FOR EROSION CONTROL, CLASS A	10	EA	DETECTOR CARD (TYPE 2070L)
35,496	MTN	STONE FOR EROSION CONTROL, CLASS B	1	EA	CONTROLLER WITH CABINET (NEMA TS-2, TYPE 2 CONTROLLER, TYPE 1 CABINET, BASE MOUNTED)
21,883	MTN	SEDIMENT CONTROL STONE	14	EA	DETECTOR CARD (NEMA TS-2)
156.2	HA	TEMPORARY MULCHING	2	EA	GENERIC SIGNAL ITEM 1:8 VIDEO DE-MULTIPLEXER
6,639	KG	SEED FOR TEMPORARY SEEDING	2	EA	GENERIC SIGNAL ITEM 8:1 VIDEO MULTIPLEXER
53.25	MTN	FERTILIZER FOR TEMPORARY SEEDING	3	EA	GENERIC SIGNAL ITEM CABINET BASE EXTENDER
2,231	M	TEMPORARY SLOPE DRAINS	8	EA	GENERIC SIGNAL ITEM CCTV ASSEMBLY
154	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS	8	EA	GENERIC SIGNAL ITEM CCTV WOOD POLE
12,494	M	SAFETY FENCE	2	EA	GENERIC SIGNAL ITEM DESKTOP JOYSTICK CONTROLLER
739,626	M3	SILT EXCAVATION	6	EA	GENERIC SIGNAL ITEM FIBER-OPTIC TRANSCEIVER SELF-HEALING RING
39,168	M2	MATTING FOR EROSION CONTROL	2	EA	GENERIC SIGNAL ITEM FURNISH 1:8 VIDEO DE-MULTIPLEXER
1,960	M2	COIR FIBER MAT	2	EA	GENERIC SIGNAL ITEM FURNISH 8:1 VIDEO MULTIPLEXER
8,132	M2	PERMANENT SOIL REINFORCEMENT MAT	2	EA	GENERIC SIGNAL ITEM FURNISH SMFO 10/100 ETHERNET TRANSCEIVER
983	M	6.4MM HARDWARE CLOTH	2	EA	GENERIC SIGNAL ITEM FURNISH SMFO VIDEO RECEIVER (CENTRAL)
30	M	***MM TEMPORARY PIPE (450MM)	2	EA	GENERIC SIGNAL ITEM FURNISH SMFO VIDEO TRANSCEIVER (FIELD)
1	EA	***X ***X***MM PERFORATED CS PIPE TEE RISER, 2.01MM THICK (800MM X 800MM X 800MM)	16	EA	GENERIC SIGNAL ITEM FUSION SPLICE 1 FIBER
1,473	M3	STILLING BASINS	16	EA	GENERIC SIGNAL ITEM FUSION SPLICE 2 FIBERS
20	EA	SPECIAL STILLING BASINS	1	EA	GENERIC SIGNAL ITEM FUSION SPLICE 3 FIBERS
167.4	HA	SEEDING & MULCHING	1	EA	GENERIC SIGNAL ITEM FUSION SPLICE 4 FIBERS
88.9	HA	MOWING	4	EA	GENERIC SIGNAL ITEM FUSION SPLICE 5 FIBERS
1,804	KG	SEED FOR REPAIR SEEDING	10	EA	GENERIC SIGNAL ITEM FUSION SPLICE 6 FIBERS
6.79	MTN	FERTILIZER FOR REPAIR SEEDING	52	EA	GENERIC SIGNAL ITEM JUNCTION BOX (OVER-SIZED)
4,438	KG	SEED FOR SUPPLEMENTAL SEEDING	4	EA	GENERIC SIGNAL ITEM METAL STRAIN SIGNAL POLE
280.25	MTN	FERTILIZER TOPDRESSING	1	EA	GENERIC SIGNAL ITEM MODIFY EXISTING ELECTRICAL SERVICE
271	M	IMPERVIOUS DIKE	8	EA	GENERIC SIGNAL ITEM MODIFY EXISTING INTERCONNECT CENTER
58.5	HR	SPECIALIZED HAND MOWING	8	EA	GENERIC SIGNAL ITEM NEW ELECTRICAL SERVICE
3,719	M3	CULVERT DIVERSION CHANNEL	2	EA	GENERIC SIGNAL ITEM NEW PHONE SERVICE
4.62	HA	REFORESTATION	2	EA	GENERIC SIGNAL ITEM SMFO 10/100 ETHERNET TRANSCEIVER
1.2	HA	STREAMBANK REFORESTATION	8	EA	GENERIC SIGNAL ITEM SMFO VIDEO TRANSCEIVER (CENTRAL)
7	EA	GENERIC EROSION CONTROL ITEM 102MM SKIMMER	8	EA	GENERIC SIGNAL ITEM SMFO VIDEO TRANSCEIVER (FIELD)
112	EA	GENERIC EROSION CONTROL ITEM 51MM SKIMMER	3	EA	GENERIC SIGNAL ITEM TRANSCEIVER RACK WITH POWER SUPPLY
32	EA	GENERIC EROSION CONTROL ITEM 64MM SKIMMER	1	EA	GENERIC SIGNAL ITEM VIDEO SWITCH
16	EA	GENERIC EROSION CONTROL ITEM 76MM SKIMMER	Lump Sum	LS	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN "DMS-1"
132	EA	GENERIC EROSION CONTROL ITEM RESPONSE FOR EROSION CONTROL	Lump Sum	LS	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN "DMS-2"
3,610	M	GENERIC EROSION CONTROL ITEM COIR FIBER BAFFLE	Lump Sum	LS	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-1"
775	M	SIGNAL CABLE	Lump Sum	LS	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-2"
20	EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)	Lump Sum	LS	GENERIC SIGNAL ITEM SYSTEM INTEGRATION
5	EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)	4,588	M	GENERIC SIGNAL ITEM TRENCH/PLOW UNDERGROUND CONDUIT (31.75MM, 2 CONDUITS)
2,195	M	MESSENGER CABLE (6.35MM)	18	M3	GENERIC SIGNAL ITEM DRILLED PIER FOUNDATION
400	M	MESSENGER CABLE (9.52MM)			
6,720	M	TRACER WIRE			
775	M	TRENCHING (UNPAVED)			
60	M	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, *****MM (** CONDUIT) (50MM, 1)			
2,012	M	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 31.75MM (** CONDUIT) (2)			
25	EA	JUNCTION BOX (STANDARD SIZE)			
5	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)			
15	EA	WOOD POLE			
54	EA	GUY ASSEMBLY			
4	EA	25MM RISER WITH WEATHERHEAD			
15	EA	50MM RISER WITH WEATHERHEAD			
16	EA	50MM RISER WITH HEAT SHRINK TUBING			
800	M	INDUCTIVE LOOP SAWCUT			
1,725	M	LEAD-IN CABLE			
2,332	M	COMMUNICATIONS CABLE (**FIBER) (12)			
19,206	M	COMMUNICATIONS CABLE (**FIBER) (24)			
488	M	DROP CABLE			
6	EA	AERIAL SPLICE ENCLOSURE			
15	EA	INTERCONNECT CENTER			
42	EA	DELINEATOR MARKER			
2	EA	FURNISH FIBER-OPTIC TRANSCEIVER			
4	EA	SOIL TEST			
9	EA	SIGN FOR SIGNALS			
3	EA	SIGNAL CABINET FOUNDATION	5,353.7	M	375MM RC PIPE CULVERTS, CLASS III
3	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)			

***** BEGIN SCHEDULE AA *****
 ***** (3 ALTERNATES) *****

2,729.4	M	450MM RC PIPE CULVERTS, CLASS III
2,267.7	M	600MM RC PIPE CULVERTS, CLASS III
1,392	M	750MM RC PIPE CULVERTS, CLASS III
178.8	M	900MM RC PIPE CULVERTS, CLASS III
367	M	1200MM RC PIPE CULVERTS, CLASS III
*** OR ***		
3,236.6	M	375MM RC PIPE CULVERTS, CLASS III
1,124.4	M	450MM RC PIPE CULVERTS, CLASS III
962.4	M	600MM RC PIPE CULVERTS, CLASS III
580.4	M	750MM RC PIPE CULVERTS, CLASS III
166.8	M	900MM RC PIPE CULVERTS, CLASS III
347.8	M	1200MM RC PIPE CULVERTS, CLASS III
19.2	M	GENERIC PIPE ITEM 1200MM HDPE PIPE CULVERTS
2,117.1	M	GENERIC PIPE ITEM 375MM HDPE PIPE CULVERTS
1,605	M	GENERIC PIPE ITEM 450MM HDPE PIPE CULVERTS
1,305.3	M	GENERIC PIPE ITEM 600MM HDPE PIPE CULVERTS
811.6	M	GENERIC PIPE ITEM 750MM HDPE PIPE CULVERTS
12	M	GENERIC PIPE ITEM 900MM HDPE PIPE CULVERTS
*** OR ***		
3,236.6	M	375MM RC PIPE CULVERTS, CLASS III
1,124.4	M	450MM RC PIPE CULVERTS, CLASS III
962.4	M	600MM RC PIPE CULVERTS, CLASS III
580.4	M	750MM RC PIPE CULVERTS, CLASS III
166.8	M	900MM RC PIPE CULVERTS, CLASS III
347.8	M	1200MM RC PIPE CULVERTS, CLASS III
7.2	M	GENERIC PIPE ITEM 1200MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK
12	M	GENERIC PIPE ITEM 1200MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 2.77MM THICK
2,117.1	M	GENERIC PIPE ITEM 400MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK
1,605	M	GENERIC PIPE ITEM 450MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK
1,305.3	M	GENERIC PIPE ITEM 600MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK
335.2	M	GENERIC PIPE ITEM 800MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 1.63MM THICK
476.4	M	GENERIC PIPE ITEM 800MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 2.01MM THICK
12	M	GENERIC PIPE ITEM 900MM ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, 2.01MM THICK

*** END SCHEDULE AA ***

***** BEGIN SCHEDULE AB *****
***** (2 ALTERNATES) *****

2,373,350	M3	UNCLASSIFIED EXCAVATION
586,192	M3	BORROW EXCAVATION
242,672	MTN	AGGREGATE BASE COURSE
101,542	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
46,833	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
41,650	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0D

8,374	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
4,728	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
*** OR ***		
2,370,900	M3	UNCLASSIFIED EXCAVATION
588,600	M3	BORROW EXCAVATION
82,675	MTN	AGGREGATE BASE COURSE
184,054	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
54,352	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
45,400	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0D
12,343	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
4,900	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22

*** END SCHEDULE AB ***

CULVERT ITEMS

Lump Sum	LS	CULVERT EXCAVATION, STA ***** (12+23.000-Y9-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (14+72.00-RAMP A-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (33+42.000 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (45+88.000 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (45+99.00-L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (76+90.000-L-)
1,962.6	MTN	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT
3,744.5	M3	CLASS A CONCRETE (CULVERT)
274,375	KG	REINFORCING STEEL (CULVERT)
Lump Sum	LS	GENERIC CULVERT ITEM PRECAST REINF CONC THREE-SIDED CULVERT AT STATION 63+06.00-L-

STRUCTURE ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (28+77.454 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR END BENT ** AT STATION ***** (1,13+45.031-L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR END BENT ** AT STATION ***** (1,38+45.624 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR END BENT ** AT STATION ***** (2,13+45.031 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR END BENT ** AT STATION ***** (2,38+45.624 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 35+60.41-L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 64+02.541-L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 83+34.392-L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,13+45.031 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,19+26.763 -FLY-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,38+45.624 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,51+85.394 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,52+13.020 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,52+65.808 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,52+93.640 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,19+26.763 -FLY-)

Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,19+26.763 -FLY-)	Lump Sum	LS	EXPANSION JOINT SEALS
135	M	PILE EXCAVATION IN SOIL			
220.9	M	PILE EXCAVATION NOT IN SOIL			
19.8	M	1066MM DIA DRILLED PIERS IN SOIL			
14.4	M	1220MM DIA DRILLED PIERS IN SOIL			
61	M	1066MM DIA DRILLED PIERS NOT IN SOIL			
12	M	1220MM DIA DRILLED PIERS NOT IN SOIL			
7	EA	SID INSPECTION			
2	EA	CROSSHOLE SONIC LOGGING			
15,521.9	M2	REINFORCED CONCRETE DECK SLAB			
771.4	M2	REINFORCED CONCRETE DECK SLAB (SAND LIGHTWEIGHT CONC)			
16,658.5	M2	GROOVING BRIDGE FLOORS			
72	M3	CLASS AA CONCRETE (BRIDGE)			
2,076.7	M3	CLASS A CONCRETE (BRIDGE)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (108+24.11-L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (13+45.031 -L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (19+26.763 -FLY-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (22+65.00 -L- LT LN)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (22+65.00 -L- RT LN)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (28+77.454 -L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (35+60.41-L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (38+45.624 -L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (51+85.394 -L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (52+13.020 -L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (52+65.808 -L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (52+93.640 -L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (54+36.375 -L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (64+02.541-L-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (83+34.392-L-)			
215,635	KG	REINFORCING STEEL (BRIDGE)			
618	KG	EPOXY COATED REINFORCING STEEL (BRIDGE)			
9,475	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)			
563.418	M	MODIFIED 1600MM PRESTRESSED CONC GIRDBERS			
2,819,900	LS	APPROX KG STRUCTURAL STEEL			
2,663.1	M	HP310X79 STEEL PILES			
66	EA	STEEL PILE POINTS			
647.128	M	TWO BAR METAL RAIL			
1,803.457	M	CONCRETE BARRIER RAIL			
139.412	M	*** X ***MM CONCRETE PARAPET (355MM X 760MM)			
526.516	M	*** X ***MM CONCRETE PARAPET (355MM X 915MM)			
6,934	M2	100MM SLOPE PROTECTION			
2,720.4	MTN	PLAIN RIP RAP CLASS II (600MM THICK)			
2,718.9	M2	FILTER FABRIC FOR DRAINAGE			
Lump Sum	LS	POT BEARINGS			
Lump Sum	LS	ELASTOMERIC BEARINGS			
Lump Sum	LS	EVAZOTE JOINT SEALS			

