




STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

May 18, 2010

NOTICE TO: All Prospective Bidders

FROM: R. A. Garris, P.E. 
State Contract Engineer

SUBJECT: Notification of Drum and Skinny-Drum Design Changes

The North Carolina Department of Transportation is in the process of implementing a design change affecting drums and skinny drums. The Work Zone Traffic Control Unit has been working with the South Carolina DOT to improve standardization between our 2 states in work zone layout and device specifications. As a result of this collaboration, we have both agreed to change our drum and skinny-drum standards to have devices that meet the specifications in both North and South Carolina. Both states have agreed to utilize a band pattern consisting of 4-6" retroreflective bands for each device. In addition, both states will now use Type III high intensity micro-prismatic sheeting or better as the new standard.

As a result of these changes the following guidelines will be used during the transition from existing drums with the standard 5 banded Engineer's grade sheeting to the new 4 banded configuration with Type III high intensity micro-prismatic sheeting.

- All **new** drums purchased after July 20, 2010 shall have the new sheeting and 4 band configuration.
- 5 band drums with Engineer's Grade sheeting (both new and used devices in existing inventories) will be allowed for use on all on-going construction projects until project completion and will also be allowed for use on other projects until a sunset date has been established.
- Intermixing of "old drums" and "new drums" on the same project is acceptable during the transition
- No 4 band drums with Engineer's Grade sheeting will be allowed at anytime

As such, beginning with the July 20, 2010 letting a new project special provision entitled "Channelizing Devices" will be included on all projects requiring "Drums" and/or "Skinny Drums". We will continue to work with our industry partners and other state agencies to improve standardization of work zone traffic control standards and devices where appropriate to improve the quality of safety devices and reduce costs wherever possible.

If you have any questions, contact Stuart Bourne at 919 250-4094 or sbourne@ncdot.gov



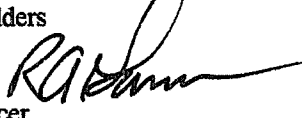
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March 23, 2010

NOTICE TO: All Prospective Bidders

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

SUBJECT: Updates to the Work Zone Traffic Control Qualification and Training Program

The North Carolina Department of Transportation is in the process of implementing a Work Zone Qualification and Training Program. The program, in response to the Code of Federal Regulations (CFR) under Title 23, part 630, subpart j, states under 630.1008(d) Training: "States shall require that personnel involved in the development, design, implementation, operation, inspection, and enforcement of work zone related transportation management and traffic control be trained, appropriate to the job decisions each individual is required to make." It further states under 630.1012(e) Responsible persons: "The State and the Contractor shall each designate a trained person, as specified in 630.1008(d), at the project level who has the primary responsibility and sufficient authority for implementing the TMP (Traffic Management Plan) and other safety and mobility aspects of the project."

Based on input from NCDOT staff, Contractors, and Municipalities the program to date consists of the following requirements:

- 1) Basic Knowledge Document - Still under development
This document should be no more than 4 or 5 pages that will be available for download from the Work Zone Traffic Control web site. This information is intended for all employees.
- 2) Flagger Training requirement - Effective 7/1/2010
As of July 1, 2010 this program will require all flaggers to be trained to flag traffic by an approved training resource. A list of approved Flagger training courses and Flagger Trainer courses can be found on the following web site:
<http://www.ncdot.gov/doh/preconstruct/wztc/WZTCTrainingProgram/default.html>
No on the job training (OJT) is required. Recertification is every 4 years.
- 3) Work Zone Installer - No formal implementation date
This training will be determined by the employee's supervisor and should address the employee who is responsible for the proper work zone set up and inspection.

4) Work Zone Supervisor - Effective 7/1/2011

Every company will be required to have at least one Work Zone Supervisor that is responsible for the proper implementation of the Traffic Management Plan and any other safety and mobility aspects of a project. They will also be responsible for making sure all employees working inside the NCDOT right of way have training, appropriate to the job decisions each individual is required to make. Currently there are two approved training sources for the Work Zone Traffic Control Supervisor requirement: 1) The Institute of Transportation Research and Education (ITRE) contact Tim Baughman, PE 919-515-8654 tbb@unity.ncsu.edu or 2) The American Traffic Safety Services Association (ATSSA) contact Donna Clark 540-368-1701 donnac@atssa.com. Additional training resources may be approved as the program progresses. Recertification requirements to be determined.

5) Work Zone Traffic Control Design Training - Effective date to be determined

This training requirement is for anyone responsible for designing Traffic Management Plans over and above the use of typical drawings in the MUTCD.

We will continue to work with our industry partners through our Work Zone Qualification and Training Committee meetings and address all the issues that remain in the coming year. Additional information can be found on our web site at:

<http://www.ncdot.org/doh/preconstruct/wztc/WZTCTrainingProgram/default.html>

If you have questions or want to find out how you can be involved with this committee, contact Stuart Bourne at (919) 250-4159 or sbourne@ncdot.gov



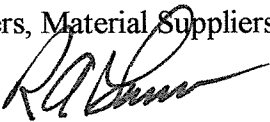
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March 23, 2010

Notice To: Prospective Bidders, Material Suppliers, and Subcontractors

From: R.A. Garris, P.E. 
State Contract Officer

Subject: ***2006 Metric Standard Specifications for Roads and Structures
and 2006 Metric Roadway Standard Drawings***

In 1999, the North Carolina Department of Transportation elected to return to the English measurement system when developing project plans as a result of the elimination of the FHWA metric requirement in the 1998 TEA 21 legislation. However, design efforts had already begun on approximately sixty projects utilizing the metric measurement system. Of those, some remained metric and were let under the 2002 Specifications and Standards, and some were re-engineered (converted) to English plans. Currently, there are fourteen projects that will be designed, let and constructed utilizing the 2006 Metric Specifications and Standards. See attached list for project information and tentative let dates.

The Metric Specifications Book is a mirror image of the 2006 (English) Specifications Book, except for the conversion to metric units and dimensions. The 2006 Metric Standard Drawings is a mirror image of the 2006 (English) Standard Drawings, except that Standards 840.25 and 700.01 have been updated to match Details 840D25 and 700D01. The Specifications and Standards are available in .pdf on the Projects Services Website at: <http://www.ncdot.org/doh/preconstruct/ps/contracts/default.html>

The 2006 Metric Specifications and Standards are being printed within the Department and are available for purchase. Due to the small number of metric projects to be let over the next several years, a limited number will be printed. Therefore we ask that you review the attached list of projects and not order immediately if projects of interest to you are further out in the future. This will allow us to manage the printing demands much more efficiently. The 2006 Metric Standard Specifications for Roads and Structures and the 2006 Metric Roadway Standard Drawings are \$25.00 each plus 6.75% North Carolina sales tax. To request a copy, please contact Rick Montanez at 919-250-4014, or place your order electronically at the following Website:
<http://www.ncdot.org/doh/preconstruct/altern/value/manuals/puborder.html>

If you have any questions, I can be reached at (919) 250-4128.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT UNIT
1591 MAIL SERVICE CENTER
RALEIGH NC 27699-1591

TELEPHONE: 919-250-4128
FAX: 919-250-4119

WEBSITE: WWW.NCDOT.ORG

LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC

UPDATED March 19, 2010

TIP#	DIVISION	COUNTY	DESCRIPTION	TENTATIVE LET DATE
R-2824	13	BURKE	SR 1546 FROM SR 1545 TO SR 1001	JUNE 15, 2010
R-2414B	1	CAMDEN	US 158/NC 34 FROM NORTH OF SR 1257 TO EAST OF NC 34 IN BELCROSS	DECEMBER 21, 2010
R-2519A	13	YANCEY	US 19 EAST FROM SR 1336 TO NC 80	MAY 17, 2011
R-2413C	7	GUILFORD ROCKINGHAM	NC 68 CONNECTOR -US 220 FROM THE HAW RIVER TO EXISTING NC 68/US 220 INTERSECTION	JANUARY 17, 2012




STATE OF NORTH CAROLINA
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February 15, 2010

NOTICE TO: Prime Contractors
FROM: R.A. Garris PE 
Contract Officer
SUBJECT: Revised Non-Collusion Affidavit/Execution of Contract/Payment
Performance Bond

Effective with the February 16, 2010 Highway Letting, contractors who are awarded projects must use the revised (1) *Non-Collusion Affidavit, Execution of Contract, and Gift Ban Certification*, (2) *Payment Bonds* and (3) *Performance Bonds*, dated 2-1-10. Contract forms that do not have this date will be returned to the contractor and must be replaced with the correct contract forms.

These forms may be retrieved from the project letting website:
<http://www.ncdot.gov/doh/preconstruct/ps/contracts/letting.html#0>.

If you have any questions regarding these updated contract forms, please e-mail Betty Rawls at brawls@ncdot.gov or Ronnie Higgins at rhiggins@ncdot.gov.

RAG/rlh

MAILING ADDRESS:
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RALEIGH NC 27699-1591

TELEPHONE: 919-250-4128
FAX: 919-250-4119
WEBSITE: WWW.NCDOT.ORG

LOCATION:
CENTURY CENTER COMPLEX
ENTRANCE B-2
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610




STATE OF NORTH CAROLINA
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November 17, 2009

Notice To: Prospective Bidders and Materials Suppliers

From: R. A. Garris, PE 
State Contract Officer

Subject: Revised Drainage Pipe Standard Details and Pipe Alternates/Drainage
Summary Revisions

Beginning with the October 2009 letting, the standard installation details for drainage pipe are revised and will be included in the two series sheets within the plans. In addition, Section 300 of the 2006 Standard Specifications has been revised and is included in the proposals as a project special provision. The major revisions are summarized as follows:

- Method A and Method B installation types are no longer referenced.
- There are separate details for flexible and rigid pipes.
- No direct payment will be made for select backfill and bedding material and it is considered incidental to the pipe.
- Line item payment is provided for foundation conditioning material and foundation conditioning fabric when required.
- For Reinforced Concrete Pipes, which require fill heights greater than 40', there is a special provision titled "Reinforced Concrete Pipe Design." This provision requires the contractor to submit a site specific pipe design for review and approval.

Beginning with the January 2010 letting, in addition to the revised drainage pipe installation details, a new Project Special Provision to expand the use of alternate drainage pipe materials was developed. This provision titled "Drainage Pipe" will be included in designated projects. Sections 310 and 1032 of the Standard Specifications have been modified to reflect the new requirements for Drainage Pipe selection. The revisions are summarized below:

- Modifications to the Drainage Summary and Estimate Plan Sheets have been made and the summary will have columns for ___" Drainage Pipe and/or ___" Side Drain Pipe.
- The associated pay items will also be designated ___" Drainage Pipe and ___" Side Drain Pipe. The use of the "Drainage Pipe" item will be limited to Regional and Sub-Regional tier facilities as determined by NCDOT. Statewide Tier facilities will not use the "Drainage Pipe" item, but will use the "Side Drain Pipe" pay item as defined in the revised Article 310-4 of the Specifications. Where allowed by the plans and contract document, contractors will be allowed to bid these items without specifying the material type at bid time. This will eliminate the need for multiple alternate bid items.

If you have questions regarding this revision please contact Joel Howerton at 919-250-4128 or jhowerton@ncdot.gov.

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STATE OF NORTH CAROLINA
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September 22, 2009

Notice To: Prospective Bidders and Material Suppliers
From: R.A. Garris, PE 
State Contract Officer
Subject: Counting of Material Costs for Meeting DBE, MBE or WBE Advertised Goals

The Department has received many questions regarding the use of DBE, MBE or WBE firms in a supplier role to count as participation on a contract to meet the advertised goal(s). Typically, DBEs, MBEs and WBEs do not act as suppliers on a contract. There are exceptions however, when a bidder can count expenditures with DBEs, MBEs or WBEs for materials or supplies toward advertised goals as provided by the following:

- 1) If the materials or supplies are obtained from a DBE, MBE or WBE manufacturer, 100 percent of the cost of the materials or supplies counts toward the advertised goal(s).

For purposes of clarification, a "manufacturer" is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the contract and of the general character described by the specifications.

- 2) If the materials or supplies are purchased from a DBE, MBE or WBE regular dealer, 60 percent of the cost of the materials or supplies counts toward the advertised goal(s).

For purposes of clarification, a "regular dealer" is a firm that own, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the contract are being bought, kept in stock, and regularly sold or leased to the public in the usual course of business.

In addition, to be a regular dealer, the firm must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question.

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RALEIGH NC

A person may be regular dealer in such bulk items as petroleum products, steel, cement, gravel, stone, or asphalt without owning, operating, or maintaining a place of business if the person both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by a long-term lease agreement and not on an ad hoc or contract-by-contract basis.

Packagers, brokers, manufacturers' representatives, or other persons who arrange or expedite transactions are not regular dealers.

- 3) With respect to materials or supplies purchased from a DBE, MBE or WBE which is neither a manufacturer nor a regular dealer, the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site, can be counted toward the advertised goal(s), provided that it is determined by the Department that the fees are reasonable and not excessive as compared with fees customarily allowed for similar services. Any portion of the cost of the materials and supplies themselves will not count toward the advertised goal(s).

If you have any questions, contact Mr. Michael McKoy (mmkoy@ncdot.gov) or Terry Canales (tcanales@ncdot.gov) at 919-733-7174.

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

ELECTRONIC BIDS (UNLESS OTHERWISE SPECIFIED IN THE PROJECT SPECIAL PROVISION) FOR THE CONSTRUCTION OF THE FOLLOWING PROJECTS WILL BE PUBLICLY READ IN ROOM 156-A/B, THE CONTRACT STANDARDS AND DEVELOPMENT UNIT LARGE CONFERENCE ROOM, LOCATED IN BUILDING B AT 1020 BIRCH RIDGE DRIVE, RALEIGH, N.C. AT **2:00 PM** ON JULY 20, 2010. NO ELECTRONIC BIDS WILL BE RECEIVED AFTER 2.00 PM.

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.gov/doh/preconstruct/ps/contracts/letting/debar/debar1.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., . 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, CONTRACT STANDARDS AND DEVELOPMENT 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 7.75% 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 JUNE 22, 2010.
BY ORDER OF THE DEPARTMENT OF TRANSPORTATION
(THE WORK WILL CONSIST APPROXIMATELY AS SHOWN ON THE FOLLOWING SHEETS)**

(Revised on 16Oct2009)

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	Jerry Jennings, 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	Robert W Lewis, PE	PO BOX 3165	WILSON	(252) 237-6164
00005	J. Wally Bowman, PE	2612 NORTH DUKE STREET	DURHAM	(919) 220-4600
00006	Gregory W Burns, 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, PE	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 L100720

RPN	Contract Id	WBS	County	Length	JobType
001	C202604	1CR.10581.17	ETC MARTIN	3.410 MI	MILLING & RESURFACING.
002	C202595	45394.3.1	BEAUFORT	12.600 MI	WIDENING, RESURFACING & SHOULDER RECONSTRUCTION.
003	C202340	34972.2.ST1	DURHAM	1.070 MI	GRADING, DRAINAGE, PAVING, AND SIGNAL.
004	C202335	33490.3.1	HARNETT	0.719 MI	GRADING, DRAINAGE, PAVING, AND STRUCTURE.
005	C202441	40224.3.1	COLUMBUS	0.828 MI	GRADING, DRAINAGE, PAVING, AND STRUCTURE.
006	C202266	34913.3.ST1	ORANGE	2.838 MI	GRADING, DRAINAGE, PAVING, SIGNALS, CURB/GUTTER & RET WALL.

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L100720 001

CONTRACT ID : C202604 1CR.10581.17

DIV OFFICE EDENTON

LENGTH = 3.410 MI

COUNTY : MARTIN

MILLING & RESURFACING.

MBE GOAL 2.0% WBE 3.0% COMPLETION DATE : JUN 17 2011

US-17 FROM US-64 ALT TO SR-1501 AND US-13/17 FROM ROANOKE RIVER BRIDGE TO NEW PAVEMENT.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
108,588	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")
34,576	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (2")
17,440	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
1,046	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
3	EA	ADJUSTMENT OF MANHOLES
Lump Sum	LS	GENERIC TRAFFIC CONTROL ITEM TRAFFIC CONTROL
91,432	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
12,769	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
371	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
275	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
108,132	LF	PAINT PAVEMENT MARKING LINES (4")
371	LF	PAINT PAVEMENT MARKING LINES (24")
820	EA	PERMANENT RAISED PAVEMENT MARKERS
10,200	LF	INDUCTIVE LOOP SAWCUT
10,000	LF	LEAD-IN CABLE (***** (18-4)

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID**L100720 002****CONTRACT ID : C202595 45394.3.1****DIV OFFICE GREENVILLE****LENGTH = 12.600 MI****COUNTY : BEAUFORT****WIDENING, RESURFACING & SHOULDER RECONSTRUCTION.****DBE GOAL 6.0% COMPLETION DATE : AUG 15 2011****US-264 FROM US-32 TO SR-1718.****ROADWAY ITEMS**

Lump Sum	LS	MOBILIZATION
1,386	CY	BORROW EXCAVATION
25.2	SMI	SHOULDER RECONSTRUCTION
15,333	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
33,893	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
19,922	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
3,448	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
63	SY	6" CONCRETE DRIVEWAY
Lump Sum	LS	GENERIC TRAFFIC CONTROL ITEM TRAFFIC CONTROL
135,576	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
136,176	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
100	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
260	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
16	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
271,752	LF	PAINT PAVEMENT MARKING LINES (4")
100	LF	PAINT PAVEMENT MARKING LINES (8")
260	LF	PAINT PAVEMENT MARKING LINES (24")
16	EA	PAINT PAVEMENT MARKING SYMBOL
900	EA	PERMANENT RAISED PAVEMENT MARKERS
31	ACR	SEEDING & MULCHING

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L100720 003

CONTRACT ID : C202340 34972.2.ST1

DIV OFFICE DURHAM

LENGTH = 1.070 MI

COUNTY : DURHAM

GRADING, DRAINAGE, PAVING, AND SIGNAL.

DBE GOAL 12.0% COMPLETION DATE : JUN 15 2012

SR-1321 (HILLANDALE RD) FROM I-85 TO NORTH OF SR-1407 (CARVER AVE).

ROADWAY ITEMS					
			37	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
			32	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
			8	EA	FRAME WITH COVER, STD 840.54
			48	LF	FRAME WITH GRATES, DRIVEWAY DROP INLET
			13	EA	CONCRETE TRANSITIONAL SECTION FOR DROP INLETS
			190	LF	***X*** CONCRETE CURB (8" X 18")
			4,200	LF	1'-6" CONCRETE CURB & GUTTER
			7,870	LF	2'-6" CONCRETE CURB & GUTTER
			4,300	SY	4" CONCRETE SIDEWALK
			32	EA	CONCRETE WHEELCHAIR RAMPS
			320	SY	6" CONCRETE DRIVEWAY
			1,200	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
			3	EA	ADJUSTMENT OF CATCH BASINS
			27	EA	ADJUSTMENT OF MANHOLES
			63	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
			75	TON	RIP RAP, CLASS I
			90	TON	RIP RAP, CLASS B
			1,440	SY	FILTER FABRIC FOR DRAINAGE
			1,390	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
			1	EA	SIGN ERECTION, TYPE D
			72	EA	SIGN ERECTION, TYPE E
			2	EA	SIGN ERECTION, TYPE F
			4	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (E)
			18	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
			4	EA	DISPOSAL OF SUPPORT, U-CHANNEL
			853	SF	WORK ZONE SIGNS (STATIONARY)
			408	SF	WORK ZONE SIGNS (PORTABLE)
			152	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
			2	EA	FLASHING ARROW PANELS, TYPE C
			3	DAY	CHANGEABLE MESSAGE SIGN (SHORT TERM)
			550	EA	DRUMS
			70	EA	CONES
			590	LF	BARRICADES (TYPE III)
			1,500	HR	FLAGGER
			1	EA	TMIA
			120	HR	LAW ENFORCEMENT
			55	EA	SKINNY DRUM
			8,554	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
			7,810	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
			343	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
			1,586	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
			19	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
			61	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
			60,525	LF	PAINT PAVEMENT MARKING LINES (4")
			1,668	LF	PAINT PAVEMENT MARKING LINES (8")
			1,494	LF	PAINT PAVEMENT MARKING LINES (24")
			16	EA	PAINT PAVEMENT MARKING CHARACTER
			100	EA	PAINT PAVEMENT MARKING SYMBOL
			7,260	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
			205	LF	REMOVAL OF PAVEMENT MARKING LINES (8")
			252	LF	REMOVAL OF PAVEMENT MARKING LINES (24")
			19	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CLEARING & GRUBBING .. ACRE(S)			
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING			
6,700	CY	UNCLASSIFIED EXCAVATION			
700	CY	UNDERCUT EXCAVATION			
1,900	CY	SHALLOW UNDERCUT			
3,600	TON	CLASS IV SUBGRADE STABILIZATION			
3,200	CY	BORROW EXCAVATION			
4,060	CY	DRAINAGE DITCH EXCAVATION			
3,690	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT			
400	CY	SELECT GRANULAR MATERIAL			
6,100	SY	FABRIC FOR SOIL STABILIZATION			
855	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS			
2,500	SY	FOUNDATION CONDITIONING FABRIC			
52	LF	15" DRAINAGE PIPE			
88	LF	***** RC PIPE CULVERTS, CLASS IV (48")			
592	LF	***** RC PIPE CULVERTS, CLASS IV (54")			
3,628	LF	15" RC PIPE CULVERTS, CLASS IV			
1,134	LF	18" RC PIPE CULVERTS, CLASS IV			
468	LF	24" RC PIPE CULVERTS, CLASS IV			
748	LF	30" RC PIPE CULVERTS, CLASS IV			
800	LF	36" RC PIPE CULVERTS, CLASS IV			
1,432	LF	PIPE REMOVAL			
Lump Sum	LS	FINE GRADING			
500	TON	STABILIZER AGGREGATE			
105	TON	AGGREGATE BASE COURSE			
500	TON	INCIDENTAL STONE BASE			
151	GAL	PRIME COAT			
1,600	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (2-1/2")			
1,300	SY	MILLING ASPHALT PAVEMENT, **** TO ***** DEPTH (0" TO 1-1/2")			
8,330	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B			
6,900	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B			
3,600	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B			
25	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A			
905	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22			
241	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR			
54	EA	RIGHT OF WAY MARKERS			
112	CY	SUBDRAIN EXCAVATION			
84	CY	SUBDRAIN FINE AGGREGATE			
500	LF	6" PERFORATED SUBDRAIN PIPE			
1	EA	SUBDRAIN PIPE OUTLETS			
6	LF	6" OUTLET PIPE (SUBDRAINS)			
8.8	CY	ENDWALLS			
0.161	CY	PIPE PLUGS			
232	CY	FLOWABLE FILL			
120	EA	MASONRY DRAINAGE STRUCTURES			
12	CY	MASONRY DRAINAGE STRUCTURES			
7.1	LF	MASONRY DRAINAGE STRUCTURES			
19	EA	FRAME WITH TWO GRATES, STD 840.16			
1	EA	FRAME WITH TWO GRATES, STD 840.24			
14	EA	FRAME WITH TWO GRATES, STD 840.29			
8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)			

143	EA	PERMANENT RAISED PAVEMENT MARKERS	2	EA	CABINET BASE EXTENDER
70	LF	12" WATER LINE			
40	LF	16" WATER LINE			
37	EA	RELOCATE WATER METER			
1	EA	8" RPZ BACK-FLOW PREVENTOR			
5	EA	FIRE HYDRANT			
979	LF	8" SANITARY GRAVITY SEWER			
30	EA	SANITARY SEWER CLEAN-OUT			
5	EA	4' DIA UTILITY MANHOLE			
11	LF	UTILITY MANHOLE WALL, 4' DIA			
963	LF	ABANDON 8" UTILITY PIPE			
1	EA	REMOVE WATER METER			
5	EA	REMOVE FIRE HYDRANT			
2	EA	ABANDON UTILITY MANHOLE			
8,900	LF	TEMPORARY SILT FENCE			
675	TON	STONE FOR EROSION CONTROL, CLASS A			
500	TON	STONE FOR EROSION CONTROL, CLASS B			
1,220	TON	SEDIMENT CONTROL STONE			
10	ACR	TEMPORARY MULCHING			
250	LB	SEED FOR TEMPORARY SEEDING			
1	TON	FERTILIZER FOR TEMPORARY SEEDING			
200	LF	TEMPORARY SLOPE DRAINS			
4	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS			
16,000	LF	SAFETY FENCE			
800	CY	SILT EXCAVATION			
18,000	SY	MATTING FOR EROSION CONTROL			
5,500	LF	1/4" HARDWARE CLOTH			
20	LB	POLYACRYLAMIDE (PAM)			
6	ACR	SEEDING & MULCHING			
6	ACR	MOWING			
100	LB	SEED FOR REPAIR SEEDING			
0.25	TON	FERTILIZER FOR REPAIR SEEDING			
150	LB	SEED FOR SUPPLEMENTAL SEEDING			
4.25	TON	FERTILIZER TOPDRESSING			
30	MHR	SPECIALIZED HAND MOWING			
27	EA	RESPONSE FOR EROSION CONTROL			
0.89	ACR	STREAMBANK REFORESTATION			
35	EA	PEDESTRIAN SIGNAL HEAD (**, ** SECTION) (16", 1 SECTION W/ COUNTDOWN)			
12,500	LF	SIGNAL CABLE			
21	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)			
2	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)			
14	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)			
1,000	LF	MESSENGER CABLE (3/8")			
60	LF	PAVED TRENCHING (*****) (1, 2")			
1,580	LF	UNPAVED TRENCHING (*****) (1, 2")			
650	LF	DIRECTIONAL DRILL (*****) (2, 2")			
8	EA	JUNCTION BOX (STANDARD SIZE)			
11	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)			
8	EA	WOOD POLE			
16	EA	GUY ASSEMBLY			
9	EA	1/2" RISER WITH WEATHERHEAD			
8	EA	2" RISER WITH WEATHERHEAD			
10	EA	2" RISER WITH HEAT SHRINK TUBING			
3,650	LF	INDUCTIVE LOOP SAWCUT			
7,600	LF	LEAD-IN CABLE (*****) (14-2)			
1,000	LF	DROP CABLE			
2	EA	INTERCONNECT CENTER			
1	EA	FIBER-OPTIC TRANSCEIVER, SELF-HEALING RING			
4	EA	METAL POLE WITH SINGLE MAST ARM			
2	EA	METAL POLE WITH DUAL MAST ARM			
6	EA	SOIL TEST			
36	CY	DRILLED PIER FOUNDATION			
9	EA	SIGNAL PEDESTAL WITH FOUNDATION			
6	EA	MAST ARM WITH METAL POLE DESIGN			
5	EA	SIGN FOR SIGNALS			
2	EA	SIGNAL CABINET FOUNDATION			
2	EA	CONTROLLER WITH CABINET (TYPE 170E, BASE MOUNTED)			
30	EA	DETECTOR CARD (TYPE 170)			

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L100720 004

CONTRACT ID : C202335 33490.3.1

DIV OFFICE FAYETTEVILLE

LENGTH = 0.719 MI

COUNTY : HARNETT

GRADING, DRAINAGE, PAVING, AND STRUCTURE.

DBE GOAL 12.0% COMPLETION DATE : DEC 31 2012

BRIDGE OVER CAPE FEAR RIVER AND APPROACHES ON US-401.

ROADWAY ITEMS					
			5	EA	FRAME WITH COVER, STD 840.54
			4	EA	STEEL FRAME WITH TWO GRATES, STD 840.37
			320	LF	***X*** CONCRETE CURB (8" x 12")
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING			
6	HR	GENERIC MISCELLANEOUS ITEM EXPLORATORY EXCAVATION - STANDARD	3,250	LF	2'-6" CONCRETE CURB & GUTTER
			205	LF	SHOULDER BERM GUTTER
			11	SY	6" CONCRETE DRIVEWAY
6	HR	GENERIC MISCELLANEOUS ITEM EXPLORATORY EXCAVATION - VACUUM	350	SY	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (30+63.00)	1	EA	ADJUSTMENT OF DROP INLETS
			4	EA	ADJUSTMENT OF MANHOLES
			2,175	LF	STEEL BM GUARDRAIL
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING	10	EA	ADDITIONAL GUARDRAIL POSTS
			1	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
1,400	CY	UNDERCUT EXCAVATION	2	EA	GUARDRAIL ANCHOR UNITS, TYPE III
Lump Sum	LS	GRADING	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
69,000	CY	BORROW EXCAVATION	2	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77
4,462	CY	DRAINAGE DITCH EXCAVATION	1,870	LF	REMOVE EXISTING GUARDRAIL
1,200	CY	SELECT GRANULAR MATERIAL	255	TON	RIP RAP, CLASS I
1,200	SY	FABRIC FOR SOIL STABILIZATION	130	TON	RIP RAP, CLASS II
572	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	10	TON	RIP RAP, CLASS B
1,814	SY	FOUNDATION CONDITIONING FABRIC	80	TON	BOULDERS
60	LF	*** SIDE DRAIN PIPE (72")	4,105	SY	FILTER FABRIC FOR DRAINAGE
1,092	LF	15" SIDE DRAIN PIPE	768	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
72	LF	18" SIDE DRAIN PIPE	6	EA	SIGN ERECTION, TYPE D
188	LF	24" SIDE DRAIN PIPE	33	EA	SIGN ERECTION, TYPE E
2	EA	*** SIDE DRAIN PIPE ELBOWS (15")	31	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
64	LF	18" RC PIPE CULVERTS, CLASS III	2	EA	DISPOSAL OF SIGN SYSTEM, WOOD
192	LF	***** RC PIPE CULVERTS, CLASS IV (48")	525	SF	WORK ZONE SIGNS (STATIONARY)
80	LF	***** RC PIPE CULVERTS, CLASS IV (72")	288	SF	WORK ZONE SIGNS (PORTABLE)
			115	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
732	LF	15" RC PIPE CULVERTS, CLASS IV	2	EA	FLASHING ARROW PANELS, TYPE C
28	LF	24" RC PIPE CULVERTS, CLASS IV	4	EA	CHANGEABLE MESSAGE SIGN
12	LF	36" RC PIPE CULVERTS, CLASS IV	200	EA	DRUMS
211	LF	PIPE REMOVAL	80	LF	BARRICADES (TYPE III)
170	TON	#57 STONE	60	MD	FLAGGER
2,250	SY	MILLING ASPHALT PAVEMENT, **** TO ***** DEPTH (0" TO 1-1/2")	2	EA	TMIA
			80	HR	LAW ENFORCEMENT
4,600	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C	200	EA	SKINNY DRUM
2,850	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	320	EA	TEMPORARY RAISED PAVEMENT MARKERS
4,260	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	7,181	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
335	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	6,210	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
260	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	1,002	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
54	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	100	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
12	CY	ENDWALLS	5	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
7.5	CY	REINFORCED ENDWALLS	788	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (III)
0.399	CY	PIPE COLLARS	4,314	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)
0.09	CY	PIPE PLUGS	78,858	LF	PAINT PAVEMENT MARKING LINES (4")
25	EA	MASONRY DRAINAGE STRUCTURES	1,848	LF	PAINT PAVEMENT MARKING LINES (8")
27.6	CY	MASONRY DRAINAGE STRUCTURES	64	LF	PAINT PAVEMENT MARKING LINES (24")
5.52	LF	MASONRY DRAINAGE STRUCTURES	120	EA	PAINT PAVEMENT MARKING SYMBOL
2	EA	FRAME WITH TWO GRATES, STD 840.16	21,120	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
10	EA	FRAME WITH TWO GRATES, STD 840.22	1,000	LF	REMOVAL OF PAVEMENT MARKING LINES (8")
2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	10	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS
2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	97	EA	PERMANENT RAISED PAVEMENT MARKERS
2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)			

			26,628	SF	REINFORCED CONCRETE DECK SLAB
			20,865	SF	GROOVING BRIDGE FLOORS
			315.5	CY	CLASS A CONCRETE (BRIDGE)
1,603	LF	6" WATER LINE			
1,142	LF	20" WATER LINE			
3	EA	6" VALVE			
8	EA	20" VALVE	79,002	LB	REINFORCING STEEL (BRIDGE)
1	EA	8" BLOW OFF	10,932	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
3	EA	RELOCATE WATER METER			
3	EA	RECONNECT WATER METER			
443	LF	*** SANITARY GRAVITY SEWER (48")	3,117.92	LF	54" PRESTRESSED CONCRETE GIRDERS
243	LF	12" SANITARY GRAVITY SEWER	495	LF	HP12X53 STEEL PILES
3	EA	5' DIA UTILITY MANHOLE	620.02	LF	TWO BAR METAL RAIL
2	EA	6' DIA UTILITY MANHOLE	678	LF	CONCRETE BARRIER RAIL
30	LF	UTILITY MANHOLE WALL, 4' DIA	627.81	LF	1'-**"X ***** CONCRETE PARAPET (1'-2" X 2'-6")
16.9	LF	UTILITY MANHOLE WALL, 5' DIA	940	TON	RIP RAP CLASS II (2'-0" THICK)
11.5	LF	UTILITY MANHOLE WALL, 6' DIA	1,045	SY	FILTER FABRIC FOR DRAINAGE
384	LF	ABANDON *** UTILITY PIPE (48")		Lump Sum	LS ELASTOMERIC BEARINGS
255	LF	ABANDON 12" UTILITY PIPE		Lump Sum	LS EVAZOTE JOINT SEALS
943	LF	ABANDON 20" UTILITY PIPE		Lump Sum	LS EXPANSION JOINT SEALS
1	EA	REMOVE UTILITY MANHOLE		Lump Sum	LS GENERIC STRUCTURE ITEM
1	EA	GENERIC UTILITY ITEM BREAKDOWN AND REBUILD MANHOLE			TELEPHONE CONDUIT AND HANGER SYSTEM
5	EA	GENERIC UTILITY ITEM STEEL PILE PIER			
15,000	LF	TEMPORARY SILT FENCE			
705	TON	STONE FOR EROSION CONTROL, CLASS A			
1,350	TON	STONE FOR EROSION CONTROL, CLASS B			
1,630	TON	SEDIMENT CONTROL STONE			
16	ACR	TEMPORARY MULCHING			
350	LB	SEED FOR TEMPORARY SEEDING			
2.25	TON	FERTILIZER FOR TEMPORARY SEEDING			
2,070	LF	TEMPORARY SLOPE DRAINS			
11	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS			
6,650	LF	SAFETY FENCE			
1,115	CY	SILT EXCAVATION			
15,500	SY	MATTING FOR EROSION CONTROL			
70	SY	COIR FIBER MAT			
4,000	SY	PERMANENT SOIL REINFORCEMENT MAT			
1,630	LF	1/4" HARDWARE CLOTH			
400	SY	FLOATING TURBIDITY CURTAIN			
20	EA	SPECIAL STILLING BASINS			
255	LF	WATTLE			
126	LB	POLYACRYLAMIDE (PAM)			
2,485	LF	COIR FIBER BAFFLES			
3	EA	*** SKIMMER (1-1/2")			
15	ACR	SEEDING & MULCHING			
15	ACR	MOWING			
150	LB	SEED FOR REPAIR SEEDING			
0.5	TON	FERTILIZER FOR REPAIR SEEDING			
350	LB	SEED FOR SUPPLEMENTAL SEEDING			
10	TON	FERTILIZER TOPDRESSING			
50	MHR	SPECIALIZED HAND MOWING			
27	EA	RESPONSE FOR EROSION CONTROL			
12	EA	ROOTWADS			
0.75	ACR	REFORESTATION			
1.27	ACR	STREAMBANK REFORESTATION			
40	EA	GENERIC EROSION CONTROL ITEM LOG			
6,800	CY	GENERIC EROSION CONTROL ITEM BORROW PIT DEWATERING BASIN			
2	EA	GENERIC SIGNAL ITEM PORTABLE TRAFFIC SIGNAL SYSTEM			

STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (30+63.00-SBL-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (30+63.00-SBL-)
110	LF	4'-0" DIA DRILLED PIERS IN SOIL
123	LF	4'-0" DIA DRILLED PIERS NOT IN SOIL
127	LF	PERMANENT STEEL CASING FOR 4'-0" DIA DRILLED PIER
5	EA	SID INSPECTION
5	EA	CROSSHOLE SONIC LOGGING

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L100720 005

CONTRACT ID : C202441 40224.3.1

DIV OFFICE FAYETTEVILLE

LENGTH = 0.828 MI

COUNTY : COLUMBUS

GRADING, DRAINAGE, PAVING, AND STRUCTURE.

DBE GOAL 11.0% COMPLETION DATE : DEC 31 2012

NEW INTERCHANGE - US-74, NC-130, AND NC-242.

ROADWAY ITEMS					
			1,500	LF	6" PERFORATED SUBDRAIN PIPE
			3	EA	SUBDRAIN PIPE OUTLETS
			18	LF	6" OUTLET PIPE (SUBDRAINS)
			11.8	CY	ENDWALLS
			4.21	CY	PIPE COLLARS
			0.045	CY	PIPE PLUGS
			20	EA	MASONRY DRAINAGE STRUCTURES
			22.86	LF	MASONRY DRAINAGE STRUCTURES
			3	EA	FRAME WITH TWO GRATES, STD 840.16
			10	EA	FRAME WITH TWO GRATES, STD 840.22
			4	EA	FRAME WITH TWO GRATES, STD 840.29
			2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
			1	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
			4	EA	FRAME WITH COVER, STD 840.54
			2	EA	CONCRETE TRANSITIONAL SECTION FOR DROP INLETS
			1,700	LF	2'-6" CONCRETE CURB & GUTTER
			820	LF	SHOULDER BERM GUTTER
			60	SY	6" CONCRETE DRIVEWAY
			1,000	SY	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)
			80	LF	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED
			16	SY	GENERIC PAVING ITEM 3" CONCRETE ISLAND COVER
			4	EA	GENERIC DRAINAGE ITEM CONVERT DROP INLET TO 2 GRATE INLET
			2	EA	IMPACT ATTENUATOR UNIT, TYPE 350
			3,300	LF	STEEL BM GUARDRAIL
			10	EA	ADDITIONAL GUARDRAIL POSTS
			3	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
			9	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
			8	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77
			256	LF	REMOVE EXISTING GUARDRAIL
			5,400	LF	WOVEN WIRE FENCE, 47" FABRIC
			350	EA	4" TIMBER FENCE POSTS, 7'-6" LONG
			75	EA	5" TIMBER FENCE POSTS, 8'-0" LONG
			350	TON	RIP RAP, CLASS I
			150	TON	RIP RAP, CLASS B
			1,960	SY	FILTER FABRIC FOR DRAINAGE
			1	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
			11	CY	REINFORCED CONCRETE SIGN FOUNDATIONS
			8,641	LB	SUPPORTS, BREAKAWAY STEEL BEAM
			1,477	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
			2	EA	SUPPORTS, 2-LB STEEL U-CHANNEL
			9	EA	SIGN ERECTION, TYPE D
			42	EA	SIGN ERECTION, TYPE E
			12	EA	SIGN ERECTION, TYPE F
			9	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)
			2	EA	SIGN ERECTION, MILEMARKERS
			6	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM
			43	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
			800	SF	WORK ZONE SIGNS (STATIONARY)
			335	SF	WORK ZONE SIGNS (PORTABLE)
			170	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
			1	EA	FLASHING ARROW PANELS, TYPE C
			2	EA	CHANGEABLE MESSAGE SIGN
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING			
Lump Sum	LS	CLEARING & GRUBBING .. ACRE(S)			
2	ACR	SUPPLEMENTARY CLEARING & GRUBBING			
28,000	CY	UNCLASSIFIED EXCAVATION			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (30+69.95)			
19,100	CY	UNDERCUT EXCAVATION			
306,000	LF	WICK DRAINS			
362,000	CY	BORROW EXCAVATION			
11	EA	EMBANKMENT SETTLEMENT GAUGES			
350	CY	DRAINAGE DITCH EXCAVATION			
16,000	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT			
1,300	SY	BREAKING OF EXISTING ASPHALT PAVEMENT			
33,700	CY	SELECT GRANULAR MATERIAL			
6,200	SY	FABRIC FOR SOIL STABILIZATION			
1,050	SF	TEMPORARY SHORING			
340	SY	ROCK PLATING			
11,100	CY	GENERIC GRADING ITEM SELECT MATERIAL, CLASS III			
16,600	SY	GENERIC GRADING ITEM NONWOVEN FABRIC FOR SOIL SEPARATION			
394	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS			
1,236	SY	FOUNDATION CONDITIONING FABRIC			
20	LF	15" SIDE DRAIN PIPE			
256	LF	15" RC PIPE CULVERTS, CLASS III			
652	LF	18" RC PIPE CULVERTS, CLASS III			
456	LF	24" RC PIPE CULVERTS, CLASS III			
1,076	LF	30" RC PIPE CULVERTS, CLASS III			
24	LF	48" RC PIPE CULVERTS, CLASS III			
184	LF	18" RC PIPE CULVERTS, CLASS IV			
588	LF	30" RC PIPE CULVERTS, CLASS IV			
408	LF	*** CAA PIPE CULVERTS, ***** THICK (15", 0.064")			
10	EA	*** CAA PIPE ELBOWS, ***** THICK (15", 0.064")			
298	LF	PIPE REMOVAL			
45	SY	6" SLOPE PROTECTION			
Lump Sum	LS	FINE GRADING			
6,300	TON	STABILIZER AGGREGATE			
14,700	TON	AGGREGATE BASE COURSE			
100	TON	INCIDENTAL STONE BASE			
9,800	GAL	PRIME COAT			
1,750	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B			
5,600	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C			
3,300	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C			
7,700	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C			
4,500	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A			
765	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22			
465	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22			
200	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR			
18,000	LF	MILLED RUMBLE STRIPS (ASPHALT CEMENT CONCRETE)			
504	CY	SUBDRAIN EXCAVATION			
252	CY	SUBDRAIN FINE AGGREGATE			

			Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2, 42+58.19-L-)
30	DAY	CHANGEABLE MESSAGE SIGN (SHORT TERM)	13,302	SF	REINFORCED CONCRETE DECK SLAB
150	EA	DRUMS	12,357	SF	GROOVING BRIDGE FLOORS
50	EA	CONES	243.1	CY	CLASS A CONCRETE (BRIDGE)
100	LF	BARRICADES (TYPE III)	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (42+58.19-L-)
75	MD	FLAGGER	39,785	LB	REINFORCING STEEL (BRIDGE)
10	EA	TEMPORARY CRASH CUSHIONS	2,033	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
1	EA	TMA	1,220.52	LF	MODIFIED 72" PRESTRESSED CONC GIRDERS
2,800	LF	PORTABLE CONCRETE BARRIER	2,830	LF	HP12X53 STEEL PILES
80	HR	LAW ENFORCEMENT	18	EA	PILE REDRIVES
118	EA	TEMPORARY RAISED PAVEMENT MARKERS	615.14	LF	CONCRETE BARRIER RAIL
30,983	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	922	SY	4" SLOPE PROTECTION
9,609	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	Lump Sum	LS	ELASTOMERIC BEARINGS (42+58.19-L-)
3,274	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	Lump Sum	LS	EVAZOTE JOINT SEALS (42+58.19-L-)
104	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)			
32	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)			
1,228	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (III)			
197,570	LF	PAINT PAVEMENT MARKING LINES (4")			
6,560	LF	PAINT PAVEMENT MARKING LINES (8")			
100	LF	PAINT PAVEMENT MARKING LINES (24")			
44	EA	PAINT PAVEMENT MARKING SYMBOL			
481	EA	PERMANENT RAISED PAVEMENT MARKERS			
30	EA	FLEXIBLE DELINEATORS (CRYSTAL)			
30	EA	FLEXIBLE DELINEATORS (YELLOW)			
10	EA	FLEXIBLE DELINEATORS (CRYSTAL & RED)			
10	EA	FLEXIBLE DELINEATORS (YELLOW & RED)			
227	LF	8" WATER LINE			
1	EA	RELOCATE FIRE HYDRANT			
30,000	LF	TEMPORARY SILT FENCE			
1,260	TON	STONE FOR EROSION CONTROL, CLASS A			
5,550	TON	STONE FOR EROSION CONTROL, CLASS B			
3,450	TON	SEDIMENT CONTROL STONE			
82	ACR	TEMPORARY MULCHING			
1,650	LB	SEED FOR TEMPORARY SEEDING			
7.75	TON	FERTILIZER FOR TEMPORARY SEEDING			
10,000	LF	TEMPORARY SLOPE DRAINS			
175	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS			
17,600	LF	SAFETY FENCE			
5,805	CY	SILT EXCAVATION			
30,000	SY	MATTING FOR EROSION CONTROL			
30	SY	COIR FIBER MAT			
850	SY	PERMANENT SOIL REINFORCEMENT MAT			
1,600	LF	1/4" HARDWARE CLOTH			
6	EA	SPECIAL STILLING BASINS			
1,450	LF	WATTLE			
500	LB	POLYACRYLAMIDE (PAM)			
11,770	LF	COIR FIBER BAFFLES			
1	EA	*** SKIMMER (1-1/2")			
69	ACR	SEEDING & MULCHING			
75	ACR	MOWING			
650	LB	SEED FOR REPAIR SEEDING			
2.5	TON	FERTILIZER FOR REPAIR SEEDING			
1,725	LB	SEED FOR SUPPLEMENTAL SEEDING			
51.25	TON	FERTILIZER TOPDRESSING			
30	MHR	SPECIALIZED HAND MOWING			
27	EA	RESPONSE FOR EROSION CONTROL			
1.5	ACR	REFORESTATION			
72,000	CY	GENERIC EROSION CONTROL ITEM BORROW PIT DEWATERING BASIN			

STRUCTURE ITEMS

Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 42+58.19-L-)
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FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L100720 006

CONTRACT ID : C202266 34913.3.ST1

DIV OFFICE GREENSBORO

LENGTH = 2.838 MI

COUNTY : ORANGE

GRADING, DRAINAGE, PAVING, SIGNALS, CURB/GUTTER & RET WALL.

DBE GOAL 11.0% COMPLETION DATE : JUN 15 2013

SR-1733 (WEAVER DAIRY RD) FROM NC-86 TO OLD STERLING DR IN CHAPEL HILL.

Lump Sum		ROADWAY ITEMS				
	LS	MOBILIZATION		42	EA	FRAME WITH TWO GRATES, STD 840.16
	LS	CLEARING & GRUBBING .. ACRE(S)		3	EA	FRAME WITH TWO GRATES, STD 840.29
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING		18	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
2	EA	SEALING ABANDONED WELLS		63	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
63,400	CY	UNCLASSIFIED EXCAVATION		71	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
3,050	CY	UNDERCUT EXCAVATION		21	EA	FRAME WITH COVER, STD 840.54
2,000	CY	SHALLOW UNDERCUT		3	EA	CONCRETE TRANSITIONAL SECTION FOR CATCH BASIN
4,000	TON	CLASS IV SUBGRADE STABILIZATION		2	EA	CONCRETE TRANSITIONAL SECTION FOR DROP INLETS
4,950	CY	BORROW EXCAVATION		3,455	LF	1'-6" CONCRETE CURB & GUTTER
665	CY	DRAINAGE DITCH EXCAVATION		33,650	LF	2'-6" CONCRETE CURB & GUTTER
1,140	LF	BERM DITCH CONSTRUCTION		15,140	SY	4" CONCRETE SIDEWALK
16,280	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT		165	EA	CONCRETE WHEELCHAIR RAMPS
500	CY	SELECT GRANULAR MATERIAL		350	SY	6" CONCRETE DRIVEWAY
11,000	SY	FABRIC FOR SOIL STABILIZATION		25	SY	4" CONCRETE PAVED DITCH
100	TON	GENERIC GRADING ITEM EXCAVATION AND STOCKPILING CONTAMINATED SOIL		1,285	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
1,595	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS		2	EA	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX
5,075	SY	FOUNDATION CONDITIONING FABRIC		14	EA	CONVERT EXISTING CATCH BASIN TO DROP INLET
6,524	LF	15" DRAINAGE PIPE		1	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX
1,164	LF	18" DRAINAGE PIPE		2,400	LF	STEEL BM GUARDRAIL
2,604	LF	24" DRAINAGE PIPE		50	LF	STEEL BM GUARDRAIL, SHOP CURVED
356	LF	30" DRAINAGE PIPE		10	EA	ADDITIONAL GUARDRAIL POSTS
264	LF	36" DRAINAGE PIPE		1	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1
592	LF	42" DRAINAGE PIPE		9	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
56	LF	48" DRAINAGE PIPE		8	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
8	EA	*** DRAINAGE PIPE ELBOWS (15")		260	TON	RIP RAP, CLASS I
2	EA	*** DRAINAGE PIPE ELBOWS (18")		275	TON	RIP RAP, CLASS B
24	LF	36" RC PIPE CULVERTS, CLASS III		4,885	SY	FILTER FABRIC FOR DRAINAGE
256	LF	48" RC PIPE CULVERTS, CLASS III		2,540	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
112	LF	60" RC PIPE CULVERTS, CLASS III		172	EA	SIGN ERECTION, TYPE E
2,020	LF	PIPE REMOVAL		2	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (D)
Lump Sum	LS	FINE GRADING		1	EA	SIGN ERECTION, RELOCATE, TYPE **** (GROUND MOUNTED) (E)
1,000	TON	STABILIZER AGGREGATE		91	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
22,900	TON	AGGREGATE BASE COURSE		3	EA	DISPOSAL OF SUPPORT, U-CHANNEL
1,000	TON	INCIDENTAL STONE BASE		1,166	SF	WORK ZONE SIGNS (STATIONARY)
1,625	SY	MILLING ASPHALT PAVEMENT, **** TO ***** DEPTH (0" TO 1-1/2")		512	SF	WORK ZONE SIGNS (PORTABLE)
165	SY	INCIDENTAL MILLING		225	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
10,025	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B		2	EA	FLASHING ARROW PANELS, TYPE C
20,610	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B		2	EA	CHANGEABLE MESSAGE SIGN
19,850	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B		48	DAY	CHANGEABLE MESSAGE SIGN (SHORT TERM)
2,591	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22		675	EA	DRUMS
185	SY	GENERIC PAVING ITEM 8" CONCRETE TRUCK APRON		248	LF	BARRICADES (TYPE III)
616	CY	SUBDRAIN EXCAVATION		500	MD	FLAGGER
2,750	LF	6" PERFORATED SUBDRAIN PIPE		2,052	EA	TEMPORARY RAISED PAVEMENT MARKERS
6	EA	SUBDRAIN PIPE OUTLETS		3,918	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
36	LF	6" OUTLET PIPE (SUBDRAINS)		62,955	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
20	CY	ENDWALLS		2,027	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
17	CY	REINFORCED ENDWALLS		7,889	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
4	CY	PIPE COLLARS		42	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12", 120 MILS)
1	CY	PIPE PLUGS				
215	CY	FLOWABLE FILL				
205	EA	MASONRY DRAINAGE STRUCTURES				
4	CY	MASONRY DRAINAGE STRUCTURES				
82	LF	MASONRY DRAINAGE STRUCTURES				
1	EA	FRAME WITH GRATE, STD 840.*** (840.33)				
1	EA	FRAME WITH GRATE, STD 840.24				

			800	LF	WATTLE	
			360	LB	POLYACRYLAMIDE (PAM)	
			1,050	LF	COIR FIBER BAFFLES	
			2	EA	*** SKIMMER (1-1/2")	
2,064	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)				
32	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)				
364	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)				
8,218	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)				
96	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (24") (IV)				
15	EA	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (IV)				
147,873	LF	PAINT PAVEMENT MARKING LINES (4")				
7,850	LF	PAINT PAVEMENT MARKING LINES (8")				
3,781	LF	PAINT PAVEMENT MARKING LINES (24")				
60	EA	PAINT PAVEMENT MARKING CHARACTER				
576	EA	PAINT PAVEMENT MARKING SYMBOL				
73,309	LF	REMOVAL OF PAVEMENT MARKING LINES (4")				
1,774	LF	REMOVAL OF PAVEMENT MARKING LINES (8")				
736	LF	REMOVAL OF PAVEMENT MARKING LINES (24")				
136	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS				
736	EA	PERMANENT RAISED PAVEMENT MARKERS				
475	LF	6" WATER LINE				
533	LF	8" WATER LINE				
447	LF	12" WATER LINE				
814	LF	16" WATER LINE				
5	EA	8" VALVE				
5	EA	12" VALVE				
1	EA	16" VALVE				
2	EA	8" TAPPING VALVE				
1	EA	12" TAPPING VALVE				
3	EA	2" BLOW OFF				
1	EA	4" BLOW OFF				
3	EA	6" BLOW OFF				
16	EA	RELOCATE WATER METER				
7	EA	RELOCATE FIRE HYDRANT				
324	LF	8" SANITARY GRAVITY SEWER				
20	EA	SANITARY SEWER CLEAN-OUT				
4	EA	4" DIA UTILITY MANHOLE				
450	LF	ABANDON 6" UTILITY PIPE				
184	LF	ABANDON 8" UTILITY PIPE				
323	LF	ABANDON 12" UTILITY PIPE				
780	LF	ABANDON 16" UTILITY PIPE				
1	EA	REMOVE WATER METER				
1	EA	ABANDON UTILITY MANHOLE				
2	EA	REMOVE UTILITY MANHOLE				
8	LF	12" ENCASEMENT PIPE				
23	LF	TRENCHLESS INSTALLATION OF 12" IN SOIL				
23	LF	TRENCHLESS INSTALLATION OF 12" NOT IN SOIL				***** BEGIN SCHEDULE AA ***** ***** (2 ALTERNATES) *****
3	EA	GENERIC UTILITY ITEM ROTATE TOP FOR EXISTING MANHOLE (CONCENTRIC TOP)				***** BEGIN SCHEDULE AA ***** ***** (2 ALTERNATES) *****
3	EA	GENERIC UTILITY ITEM ROTATE TOP FOR EXISTING MANHOLE (ECCENTRIC TOP)				***** BEGIN SCHEDULE AA ***** ***** (2 ALTERNATES) *****
20,700	LF	TEMPORARY SILT FENCE				***** BEGIN SCHEDULE AA ***** ***** (2 ALTERNATES) *****
3,400	TON	STONE FOR EROSION CONTROL, CLASS A				***** BEGIN SCHEDULE AB ***** ***** (2 ALTERNATES) *****
1,675	TON	STONE FOR EROSION CONTROL, CLASS B				***** BEGIN SCHEDULE AB ***** ***** (2 ALTERNATES) *****
3,700	TON	SEDIMENT CONTROL STONE				***** BEGIN SCHEDULE AB ***** ***** (2 ALTERNATES) *****
76	ACR	TEMPORARY MULCHING				***** BEGIN SCHEDULE AB ***** ***** (2 ALTERNATES) *****
1,400	LB	SEED FOR TEMPORARY SEEDING				***** BEGIN SCHEDULE AB ***** ***** (2 ALTERNATES) *****
6.5	TON	FERTILIZER FOR TEMPORARY SEEDING				***** BEGIN SCHEDULE AB ***** ***** (2 ALTERNATES) *****
950	LF	TEMPORARY SLOPE DRAINS				***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
20	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS				***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
2,800	LF	SAFETY FENCE				***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
3,975	CY	SILT EXCAVATION				***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
32,200	SY	MATting FOR EROSION CONTROL				***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
25	SY	COIR FIBER MAT				***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
350	SY	PERMANENT SOIL REINFORCEMENT MAT				***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
13,800	LF	1/4" HARDWARE CLOTH				***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
60	SY	FLOATING TURBIDITY CURTAIN				***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
						***** BEGIN SCHEDULE AA ***** ***** (2 ALTERNATES) *****
			3,250	SF	MSE RETAINING WALLS	***** BEGIN SCHEDULE AA ***** ***** (2 ALTERNATES) *****
						*** OR ***
			3,070	SF	PRECAST GRAVITY RETAINING WALLS	***** BEGIN SCHEDULE AA ***** ***** (2 ALTERNATES) *****
						*** END SCHEDULE AA ***
						***** BEGIN SCHEDULE AB ***** ***** (2 ALTERNATES) *****
			580	SF	SEGMENTAL GRAVITY RETAINING WALLS	***** BEGIN SCHEDULE AB ***** ***** (2 ALTERNATES) *****
						*** OR ***
			510	SF	PRECAST GRAVITY RETAINING WALLS	***** BEGIN SCHEDULE AB ***** ***** (2 ALTERNATES) *****
						*** END SCHEDULE AB ***
						***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
			1,430	SF	SEGMENTAL GRAVITY RETAINING WALLS	***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
						*** OR ***
			1,270	SF	PRECAST GRAVITY RETAINING WALLS	***** BEGIN SCHEDULE AC ***** ***** (2 ALTERNATES) *****
						*** END SCHEDULE AC ***

