




STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

March 18, 2003

MEMORANDUM TO: Electronic Bidders

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

SUBJECT: Upgrade to Expedite 5.1a

Please be advised that effective with the March 18<sup>th</sup>, 2003 bid letting, North Carolina Department of Transportation will be upgrading from Expedite 4.3b to Expedite 5.1a. These two versions of software are not backward compatible, meaning files generated in one version can not be opened in the other version. So, the timing and upgrade of this software on your part is extremely critical in submitting bids to North Carolina for March 2003 and forward.

This new version of software is available for download from either the NC Department of Transportation or the Bid Express web site. The links are listed below. Before upgrading your software, please ensure you have backed up your Digital ID. If you have not done so, this can be accomplished through the Tools menu under Digital ID's. It is recommended that you then uninstall the Expedite 4.3b version to ensure no confusion in the future. Once you have installed Expedite 5.1a, you need to enter your Bidder Information and Agency ID. The digital ID backup file you created in the previous version will also need to be imported back in through the Tools menu under Digital ID's. If you do not feel comfortable with any part of this procedure, please do not hesitate to contact the Bid Express helpdesk at (352) 381-4888, to have them walk you through this upgrade. The staff in Design Services Contract Office is also available for any further questions you may have concerning this transition.

Bid Express  
<http://www.bidx.com>

NC Department of Transportation  
[http://www.doh.dot.state.nc.us/preconstruct/highway/dsn\\_srvc/contracts/expedi/](http://www.doh.dot.state.nc.us/preconstruct/highway/dsn_srvc/contracts/expedi/)

MAILING ADDRESS:  
NC DEPARTMENT OF TRANSPORTATION  
DESIGN SERVICES UNIT  
1591 MAIL SERVICE CENTER  
RALEIGH NC 27699-1591

TELEPHONE: 919-250-4124  
FAX: 919-250-4127

WEBSITE: [WWW.DOH.DOT.STATE.NC.US](http://WWW.DOH.DOT.STATE.NC.US)

LOCATION:  
CENTURY CENTER COMPLEX  
ENTRANCE B15  
1020 BIRCH RIDGE DRIVE  
RALEIGH NC 27610



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March 18, 2003

MEMORANDUM TO: Prequalified Contractors  
FROM: NCDOT Construction Unit  
SUBJECT: Contract Payments

In conjunction with the Business Systems Improvement Project (BSIP), NCDOT is scheduled to replace the current mainframe financial system with a new financial system developed by SAP America. The current financial system is scheduled to be out of service at the end of the workday on March 28, 2003. The new financial system is expected to be in service in approximately three weeks. Although the Fiscal Section will have the capability to make “emergency” payments throughout the transition period, such “emergency” payments are to be minimized.

To avoid delays in contract payments and to minimize the “emergency” payments that will be required during the period from March 28, 2003 until the new financial system is in service, the tentative schedule for partial payments during March, April and May 2003 is as follows:

Normal Estimate End Date	March Estimate End Date	April Estimate End Date	May Estimate End Date
7 <sup>th</sup> of Month	March 7 <sup>th</sup>	April 15 <sup>th</sup>	May 7 <sup>th</sup>
15 <sup>th</sup> of Month	March 7 <sup>th</sup>	April 15 <sup>th</sup>	May 15 <sup>th</sup>
22 <sup>nd</sup> of Month	March 15 <sup>th</sup>	April 22 <sup>nd</sup>	May 22 <sup>nd</sup>
Last of Month	March 15 <sup>th</sup>	April 30 <sup>th</sup>	May 31 <sup>st</sup>

The Department will expedite the processing of estimates for March 2003 within the contract estimate system. This will allow the Fiscal Section to complete all payment transactions prior the March 28, 2003.

The tentative schedule for partial payments during March, April and May 2003 is subject to change due to changes in the BSIP schedule. To provide timely updates to everyone, a

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link from the Construction Unit web page to this schedule will be created and the schedule will be updated as necessary. The URL for the Construction Unit web page is as follows:

[http://www.doh.dot.state.nc.us/operations/dp\\_chief\\_eng/constructionunit/](http://www.doh.dot.state.nc.us/operations/dp_chief_eng/constructionunit/)




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March 18, 2003

MEMORANDUM TO: Invitation to Bid Recipients

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

SUBJECT: Audio Broadcast and Results of Highway Letting

We have recently made changes to the "Doing Business with NCDOT" website. As a result, the Audio Broadcast and Results of Highway Letting path has changed to: <http://www.ncdot.org/business/>. Click on Project Letting, and then, Audio Broadcast and Results of Highway Letting.

A new feature has also been added to this site, so that you can download a test message to insure proper installation. As before, you will be able to download the required Real Player™ software and view the results of the previous Highway Letting from this site.

If you have any questions regarding the Highway Letting broadcast or results, please contact Kim Canady at (919) 250-4124 or e-mail her at [klcanady@dot.state.nc.us](mailto:klcanady@dot.state.nc.us).

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FAX: 919-250-4127

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SECRETARY

December 23, 2002

NOTICE TO: Invitation to Bid Recipients  
FROM: R. A. Garris, P.E.   
Contract Officer  
RE: Relocation of the Highway Lettings

Please note that beginning with the January 21, 2003 Highway Letting, the bid reading will be relocated to Room 156 A/B in Building B of the NCDOT Century Center Complex, located at 1020 Birch Ridge Drive, Raleigh, NC 27610. Please enter door B2 and sign in at the guard station.

If you would like to view a map to the Century Center, go to the Design Services home page at <http://www.doh.dot.state.nc.us/preconstruct/highway/cc1.gif>.

The upcoming Lettings will continue to be the third Tuesday of each month at 10:00 a.m.

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RALEIGH NC 27699-1591

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FAX: 919-250-4127  
WEBSITE: [WWW.DOH.DOT.STATE.NC.US](http://WWW.DOH.DOT.STATE.NC.US)

**LOCATION:**  
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March 18, 2003

NOTICE TO: All Prospective Bidders, Material Suppliers and Manufacturers

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

A handwritten signature in black ink, appearing to read "R.A. Garris".

SUBJECT: Domestic Steel and Iron Products

For several years, all NC DOT construction projects have contained one of two "Domestic Steel and/or Iron Products" Project Special Provisions in the contract. One provision was included in all Federal Aid projects and is based on laws passed by Congress. It covered both steel and iron products. The other provision was included in all projects using only state funds and is based on laws passed by the North Carolina Legislature. It covered only steel.

The 2002 session of the North Carolina Legislature modified the North Carolina Buy-American law to include iron. Therefore, there is now no difference in the Federal-Aid and State-Funded provisions.

Starting with the February 2003 letting, the contracts for all construction projects let by the Department will contain the same Project Special Provision entitled "Domestic Steel and Iron Products". The major change resulting from this is that all NC DOT construction projects will now require domestic iron as well as steel in accordance with the provision.

The Materials and Tests Unit will continue to inspect foreign cast iron products as needed to fulfill the needs of state funded projects currently under contract. Once these projects have cycled through the system, no further inspections of foreign castings will be made other than the "minimal amounts" described in the provision.

Also, I would like to take this opportunity to ensure that the interpretation of this provision is uniform. To that end, I offer the following points:

- The North American Free Trade Agreement (NAFTA) has no effect on this provision. Iron and steel products from Canada and Mexico are considered to be of foreign origin.

MAILING ADDRESS:  
NC DEPARTMENT OF TRANSPORTATION  
MATERIALS & TESTS UNIT  
STRUCTURAL MEMBERS SECTION  
1563 MAIL SERVICE CENTER  
RALEIGH NC 27699-1563

TELEPHONE 919-733-7091  
FAX 919-733-8742

WEBSITE: [WWW.DOH.DOT.STATE.NC.US](http://WWW.DOH.DOT.STATE.NC.US)

LOCATION:  
1801 BLUE RIDGE ROAD  
RALEIGH NC 27607

- All fasteners must be of domestic origin, no exceptions.
- For the purpose of determining compliance with the “minimal amounts” requirements of the provision, the “combined project cost” of the materials is used. This cost is the unit cost as shown in the executed contract multiplied by the quantity of units used on the project. The contractor’s cost of the actual material is irrelevant.
- For the purposes of this provision, if a contract contains a quantity of five units of a particular bid item, if even one of the units is of foreign origin, the total “combined project cost” of all five units is used to determine compliance with the “minimal amounts” requirements.
- For the purposes of this provision, if any component of a bid item is foreign, the entire bid item is considered foreign. In turn, the unit cost as shown in the executed contract multiplied by the quantity of units used on the project is used to determine compliance with the “minimal amounts” requirements.

If you have any questions, please contact David Greene of the Materials and Tests Unit at (919) 733-7091.

**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 DESIGN SERVICES LARGE CONFERENCE ROOM, LOCATED IN BUILDING B AT 1020 BIRCH RIDGE DRIVE, RALEIGH, N.C. AT **10:00AM ON MARCH 18, 2003**. NO ELECTRONIC BIDS WILL BE RECEIVED AFTER 10:00 A.M.

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

THE BIDDER SHALL FURNISH A NON-COLLUSION AFFIDAVIT FOR EACH BID. AFFIDAVIT FORMS WILL BE INCLUDED IN THE PROPOSAL AS PART OF THE SIGNATURE SHEETS.

A BID BOND OR BID DEPOSIT IN THE AMOUNT OF 5% OF THE TOTAL AMOUNT BID WILL BE REQUIRED. THE BIDDER SHALL USE THE STANDARD BID BOND FORM OF THE DEPARTMENT OF TRANSPORTATION, UNLESS HE ELECTS TO FURNISH A BID DEPOSIT. COPIES OF THIS BOND FORM WILL BE ENCLOSED WITH EACH PROPOSAL FORM. ADDITIONAL BOND FORMS MAY BE OBTAINED FROM THE RALEIGH OFFICE. (PHONE - 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).

**STATE PRIVILEGE LICENSE TAXES:** CONTRACTORS WHO BID UPON AND/OR ARE AWARDED NORTH CAROLINA HIGHWAY CONSTRUCTION PROJECTS ARE SUBJECT TO CONTRACTOR BIDDERS AND/OR CONTRACTOR PROJECT PRIVILEGE LICENSE TAXES UNDER G.S. 105-54 OF THE STATE REVENUE LAWS. FOR INFORMATION, WRITE TO THE NORTH CAROLINA DEPARTMENT OF REVENUE, LICENSE AND EXCISE TAX DIVISION, P.O. BOX 25000, RALEIGH, NC 27640, OR CALL 919-733-3673.

**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 MANAGER OF CONSTRUCTION, DIVISION OF HIGHWAYS, DEPARTMENT OF TRANSPORTATION, 1543 MAIL SERVICE CENTER, RALEIGH, N. C., 27699-1543. ALL REQUIRED PREQUALIFICATION STATEMENTS AND DOCUMENTS SHALL BE FILED WITH THE MANAGER OF CONSTRUCTION AT LEAST TWO 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, DESIGN 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 18, 2003.**  
**BY ORDER OF THE DEPARTMENT OF TRANSPORTATION**  
**(THE WORK WILL CONSIST APPROXIMATELY AS SHOWN ON THE FOLLOWING SHEETS)**



## **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.

<b><u>DIV NO.</u></b>	<b><u>DIVISION ENGINEER</u></b>	<b><u>LOCATION</u></b>	<b><u>TOWN</u></b>	<b><u>TELEPHONE</u></b>
00001	D. R. Conner	113 AIRPORT DRIVE	EDENTON	(252) 482-7977
00002	C. E. Lassiter, Jr.	105 PACTOLUS ROAD	GREENVILLE	(252) 830-3490
00003	H. A. Pope	124 DIVISION DRIVE	WILMINGTON	(910) 251-5724
00004	J. H. Trogdon, III	509 WARD BOULEVARD	WILSON	(252) 237-6164
00005	J. G. Nance	2612 NORTH DUKE STREET	DURHAM	(919) 560-6851
00006	T. R. Gibson	558 GILLESPIE STREET	FAYETTEVILLE	(910) 486-1493
00007	J. M. Mills	1534 YANCEYVILLE STREET	GREENSBORO	(336) 334-3192
00008	W. F. Rosser	902 N. SANDHILLS BOULEVARD	ABERDEEN	(910) 944-2344
00009	S. P. Ivey	2125 CLOVERDALE AVENUE	WINSTON-SALEM	(336) 631-1340
00010	B. G. Payne	716 WEST MAIN STREET	ABLEMARLE	(704) 982-0101
00011	R. C. McCann	NC-115 WEST	NORTH WILKESBORO	(336) 667-9111
00012	M. L. Holder	1710 EAST MARION STREET	SHELBY	(704) 480-5400
00013	J. J. Swain	55 ORANGE STREET	ASHEVILLE	(828) 251-6171
00014	R. G. Watson	253 WEBSTER ROAD	SYLVA	(828) 586-2141

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

**Bid Letting Number** L030318

<b>RPN</b>	<b>Contract Id</b>	<b>WorkOrder</b>	<b>County</b>	<b>Length</b>	<b>JobType</b>
002	C200702	8.1172102	CRAVEN	3.400 MI	MEDIAN GUARDRAIL.
003	C200684	8.1281203	SAMPSON	0.133 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
004	C200685	8.2281203	SAMPSON, CUMBERLAND	0.161 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
005	C200529	8.1403904	DURHAM, WAKE	6.020 MI	WIDENING, GRADING, DRAINAGE, PAVING & CULVERTS.
006	C200559	8.1403905	WAKE	5.614 MI	WIDENING, GRADING, DRAINAGE, PAVING & CULVERTS.
007	C200711	8.1403904ETC	DURHAM, WAKE	11.634 MI	WIDENING, GRADING, DRAINAGE, PAVING & CULVERTS.
008	C200676	8.2473003	ALAMANCE	0.130 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
009	C200683	8.2603502	DAVIDSON	0.692 KM	GRADING, DRAINAGE, PAVING & STRUCTURE.
010	C200697	9.8091883	FORSYTH	4.050 MI	MILLING, RESURFACING, ROUND-ABOUT CONSTRUCTION.
011	C200466	6.804859	MECKLENBURG	0.526 MI	WIDENING, GRADING, DRAINAGE, PAVING & CULVERTS.
012	C200694	8.2710603	ASHE	0.137 KM	GRADING, DRAINAGE, PAVING & STRUCTURE.
013	C200687	8.2741603	SURRY	0.306 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
014	C200705	8.1980902	RUTHERFORD, POLK	19.189 MI	MEDIAN GUARDRAIL

**Bid Letting Number** L030415

<b>RPN</b>	<b>Contract Id</b>	<b>WorkOrder</b>	<b>County</b>	<b>Length</b>	<b>JobType</b>
001	C200693	8.T351212	DURHAM	3.416 KM	WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURES.

**FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID****L030318 002****CONTRACT ID : C200702 8.1172102****DIV OFFICE GREENVILLE****LENGTH = 3.400 MI****COUNTY : CRAVEN****MEDIAN GUARDRAIL.****DBE GOAL 2.0% COMPLETION DATE : SEE SPECIAL PROVISIONS****US-70 FROM WEST OF NC-43 (GLENBURNIE RD) TO THE TRENT RIVER BRIDGE.****ROADWAY ITEMS**

Lump Sum	LS	MOBILIZATION
17,000	LF	DOUBLE FACED CABLE GUIDERAIL
26	EA	CABLE GUIDERAIL ANCHOR UNITS
104	SF	WORK ZONE SIGNS (PORTABLE)
2	EA	FLASHING ARROW PANELS, TYPE C
2	EA	CHANGEABLE MESSAGE SIGNS
200	EA	DRUMS
2	EA	WARNING LIGHTS (TYPE B)
2	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (45 MPH)
26.5	ACR	MOWING
26	HR	SPECIALIZED HAND MOWING
1.6	ACR	GENERIC EROSION CONTROL ITEM SPECIALIZED SEEDING UNDER GUIDERAIL AND GUARDRAIL (CENTIPEDE)

## FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030318 003

CONTRACT ID : C200684 8.1281203

DIV OFFICE WILMINGTON

LENGTH = 0.133 MI

COUNTY : SAMPSON

GRADING, DRAINAGE, PAVING &amp; STRUCTURE.

DBE GOAL 10.0% COMPLETION DATE : NOV 01 2003

BRIDGE OVER YOUNG'S CREEK &amp; APPROACHES ON NC-50.

## ROADWAY ITEMS

## STRUCTURE ITEMS

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	GRADING
1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING
200	CY	UNDERCUT EXCAVATION
80	LF	15" RC PIPE CULVERTS, CLASS III
24	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK
1	EA	15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK
215	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
290	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5A
29	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
4	EA	MASONRY DRAINAGE STRUCTURES
4	EA	FRAME WITH GRATE, STD 840.29
210	LF	SHOULDER BERM GUTTER
587.5	LF	STEEL BM GUARDRAIL
5	EA	ADDITIONAL GUARDRAIL POSTS
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
2	TON	PLAIN RIP RAP, CLASS B
160	SY	FILTER FABRIC FOR DRAINAGE
320	SF	WORK ZONE SIGNS (STATIONARY)
128	SF	WORK ZONE SIGNS (PORTABLE)
200	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
4	EA	WARNING FLAG SETS
130	EA	CONES
136	LF	BARRICADES (TYPE III)
125	HR	FLAGGER
247,568	LF	PAINT PAVEMENT MARKING LINES (4")
120	LF	PAINT PAVEMENT MARKING LINES (24")
16	EA	PAINT PAVEMENT MARKING SYMBOL
387	EA	PERMANENT RAISED PAVEMENT MARKERS
100	LF	TEMPORARY SILT FENCE
75	TON	STONE FOR EROSION CONTROL, CLASS A
320	TON	STONE FOR EROSION CONTROL, CLASS B
115	TON	SEDIMENT CONTROL STONE
1	ACR	TEMPORARY MULCHING
50	LB	SEED FOR TEMPORARY SEEDING
0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
50	LF	TEMPORARY SLOPE DRAINS
2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
605	CY	SILT EXCAVATION
300	SY	SYNTHETIC ROVING
500	SY	MATTING FOR EROSION CONTROL
80	LF	1/4" HARDWARE CLOTH
1	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

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (18+54.50 -L-)
Lump Sum	LS	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (18+54.50 -L-)
33.2	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (18+54.50 -L-)
6,142	LB	REINFORCING STEEL (BRIDGE)
420	LF	HP12X53 STEEL PILES
400	LF	HP14X73 STEEL PILES
Lump Sum	LS	GALVANIZING STEEL PILES AT STA ***** (18+54.50 -L-)
175.75	LF	CONCRETE BARRIER RAIL
65	TON	PLAIN RIP RAP, CLASS ** (1) (2'-0" THICK)
75	SY	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	ELASTOMERIC BEARINGS
963.875	LF	3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS

## FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030318 004

CONTRACT ID : C200685 8.2281203

DIV OFFICE WILMINGTON

LENGTH = 0.161 MI

COUNTY : SAMPSON, CUMBERLAND

GRADING, DRAINAGE, PAVING &amp; STRUCTURE.

DBE GOAL 7.0% COMPLETION DATE : APR 01 2004

BRIDGE OVER SOUTH RIVER &amp; APPROACHES ON SR-1246 &amp; SR-2035.

## ROADWAY ITEMS

				Lump Sum	LS	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (24+81.60-L-)
					63.2	CY CLASS A CONCRETE (BRIDGE)
				Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (24+81.60-L-)
					10,840	LB REINFORCING STEEL (BRIDGE)
					630	LF HP12X53 STEEL PILES
					1,155	LF HP14X73 STEEL PILES
				Lump Sum	LS	GALVANIZING STEEL PILES AT STA ***** (24+81.60-L-)
					500	LF CONCRETE BARRIER RAIL
					392	TON PLAIN RIP RAP, CLASS ** (I)
					435	SY FILTER FABRIC FOR DRAINAGE
				Lump Sum	LS	ELASTOMERIC BEARINGS
					2,743.13	LF 3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS
				Lump Sum	LS	MOBILIZATION
				Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (24+81)
				Lump Sum	LS	GRADING
	1	ACR	SUPPLEMENTARY CLEARING & GRUB- BING			
	200	CY	UNDERCUT EXCAVATION			
	116	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			
	225	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B			
	400	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5A			
	36	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22			
	4	EA	MASONRY DRAINAGE STRUCTURES			
	4	EA	FRAME WITH TWO GRATES, STD 840.29			
	312	LF	SHOULDER BERM GUTTER			
	587.5	LF	STEEL BM GUARDRAIL			
	5	EA	ADDITIONAL GUARDRAIL POSTS			
	4	EA	GUARDRAIL ANCHOR UNITS, TYPE III			
	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350			
	135	SY	PLAIN RIP RAP, CLASS I			
	3	TON	PLAIN RIP RAP, CLASS B			
	350	SY	FILTER FABRIC FOR DRAINAGE			
	320	SF	WORK ZONE SIGNS (STATIONARY)			
	242	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)			
	4	EA	WARNING FLAG SETS			
	50	EA	DRUMS			
	88	LF	BARRICADES (TYPE III)			
	6,800	LF	PAINT PAVEMENT MARKING LINES (4")			
	11	EA	PERMANENT RAISED PAVEMENT MARKERS			
	300	LF	TEMPORARY SILT FENCE			
	75	TON	STONE FOR EROSION CONTROL, CLASS A			
	210	TON	STONE FOR EROSION CONTROL, CLASS B			
	205	TON	SEDIMENT CONTROL STONE			
	1	ACR	TEMPORARY MULCHING			
	50	LB	SEED FOR TEMPORARY SEEDING			
	0.25	TON	FERTILIZER FOR TEMPORARY SEED- ING			
	50	LF	TEMPORARY SLOPE DRAINS			
	2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS			
	415	CY	SILT EXCAVATION			
	330	SY	SYNTHETIC ROVING			
	690	SY	MATting FOR EROSION CONTROL			
	480	LF	1/4" HARDWARE CLOTH			
	1	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			

## STRUCTURE ITEMS

				Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (24+81.60-L-)
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## FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030318 005

CONTRACT ID : C200529 8.1403904

DIV OFFICE DURHAM

LENGTH = 6.020 MI

COUNTY : DURHAM, WAKE

WIDENING, GRADING, DRAINAGE, PAVING &amp; CULVERTS.

DBE GOAL 10.0% COMPLETION DATE : JUN 01 2006

NC-55 FROM NORTH OF PROPOSED I-540 TO SR-1121 IN DURHAM.

ROADWAY ITEMS				
		61,400	TON	AGGREGATE BASE COURSE
		32,500	SY	*** SOIL CEMENT BASE (7")
		900	TON	PORTLAND CEMENT FOR SOIL CEMENT BASE
		210	TON	AGGREGATE FOR SOIL CEMENT BASE
		6,500	GAL	ASPHALT CURING SEAL
		100	TON	INCIDENTAL STONE BASE
		2,500	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (2-1/4")
		6,300	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (5-1/4")
		3,950	SY	INCIDENTAL MILLING
		2,800	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
		19,000	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C
		2,000	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
		53,200	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
		2,200	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
		51,430	TON	ASPHALT CONC SURFACE COURSE, TYPE S12.5C
		3,675	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
		2,829	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
		60	EA	RIGHT OF WAY MARKERS
		504	CY	SUBDRAIN EXCAVATION
		252	CY	SUBDRAIN FINE AGGREGATE
		1,500	LF	6" PERFORATED SUBDRAIN PIPE
		45	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS
		3	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
		18	LF	6" OUTLET PIPE (SUBDRAINS)
		15	TON	BLOTTING SAND
		20.9	CY	ENDWALLS
		20.5	CY	REINFORCED ENDWALLS
		24	CY	PIPE COLLARS
		2	CY	PIPE PLUGS
		62	CY	FLOWABLE FILL
		254	EA	MASONRY DRAINAGE STRUCTURES
		24	CY	MASONRY DRAINAGE STRUCTURES
		82	LF	MASONRY DRAINAGE STRUCTURES
		5	EA	FRAME WITH GRATE, STD 840.**** (840.24)
		27	EA	FRAME WITH TWO GRATES, STD 840.16
		48	EA	FRAME WITH TWO GRATES, STD 840.24
		13	EA	FRAME WITH TWO GRATES, STD 840.29
		30	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
		54	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
		65	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
		13	EA	FRAME WITH COVER, STD 840.54
		5	EA	STEEL FRAME WITH TWO GRATES, STD840.37
		32	EA	CONCRETE APRON FOR CATCH BASIN
		11	EA	CONCRETE APRON FOR DROP INLETS
		27,500	LF	1'-6" CONCRETE CURB & GUTTER
		32,000	LF	2'-6" CONCRETE CURB & GUTTER
		2,800	LF	SHOULDER BERM GUTTER
		1,800	SY	4" CONCRETE SIDEWALK
		82	SY	CONCRETE WHEELCHAIR RAMPS
		680	SY	6" CONCRETE DRIVEWAY
		100	SY	4" CONCRETE PAVED DITCH
		3,600	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
Lump Sum	LS			MOBILIZATION
Lump Sum	LS			CONSTRUCTION SURVEYING
Lump Sum	LS			FIELD OFFICE
Lump Sum	LS			CLEARING & GRUBBING .. ACRE(S)
	3	ACR		SUPPLEMENTARY CLEARING & GRUBBING
	190,900	CY		UNCLASSIFIED EXCAVATION
	8,500	CY		UNDERCUT EXCAVATION
	1,000	TON		CLASS IV SUBGRADE STABILIZATION
	80,950	CY		BORROW EXCAVATION
	11,700	CY		DRAINAGE DITCH EXCAVATION
	1,400	LF		BERM DITCH CONSTRUCTION
	30,800	SY		REMOVAL OF EXISTING ASPHALT PAVEMENT
	500	SY		BREAKING OF EXISTING ASPHALT PAVEMENT
	14	HR		PROOF ROLLING
	7,000	CY		SELECT GRANULAR MATERIAL
	7,000	SY		FABRIC FOR SOIL STABILIZATION
	1,075	SF		TEMPORARY SHORING
	250	CY		GENERIC GRADING ITEM SELECT GRANULAR MATERIAL FOR TEMPORARY FABRIC WALL
	700	SY		GENERIC GRADING ITEM FABRIC FOR TEMPORARY FABRIC WALL
	3,000	TON		FOUNDATION CONDITIONING MATERIAL, MINOR STRS
	56	LF		15" SIDE DRAIN PIPE
	48	LF		18" SIDE DRAIN PIPE
	12,864	LF		15" RC PIPE CULVERTS, CLASS III
	2,356	LF		18" RC PIPE CULVERTS, CLASS III
	5,936	LF		24" RC PIPE CULVERTS, CLASS III
	3,676	LF		30" RC PIPE CULVERTS, CLASS III
	1,408	LF		36" RC PIPE CULVERTS, CLASS III
	604	LF		42" RC PIPE CULVERTS, CLASS III
	132	LF		66" RC PIPE CULVERTS, CLASS III
	220	LF		72" RC PIPE CULVERTS, CLASS III
	72	LF		18" CS PIPE CULVERTS, 0.064" THICK
	496	LF		15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK
	232	LF		18" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK
	112	LF		24" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK
	52	LF		30" BIT COAT CS PIPE CULVERTS, TYPE B 0.079" THICK
	18	EA		15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK
	1	EA		18" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK
	6	EA		24" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK
	1	EA		30" BIT COAT CS PIPE ELBOWS, TYPE B 0.079" THICK
	1	EA		GENERIC PIPE ITEM 54" X 30" RC PIPE TAPERED INLET, CLASS III
	3,330	LF		PIPE REMOVAL
	7	EA		PIPE CLEAN-OUT
Lump Sum	LS			FINE GRADING
	500	LB		SEALING EXISTING PAVEMENT CRACKS
	32,500	SY		LIME TREATED SOIL (SLURRY METHOD)
	350	TON		LIME FOR LIME TREATED SOIL
	500	TON		STABILIZER AGGREGATE

220	LF	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	954	LF	PAINT PAVEMENT MARKING LINES (24")
1	EA	ADJUSTMENT OF MANHOLES	16	EA	PAINT PAVEMENT MARKING CHARACTER
1	EA	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX	151	EA	PAINT PAVEMENT MARKING SYMBOL
3	EA	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX WITH MANHOLE COVER	12,000	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
1	EA	CONVERT EXISTING DROP INLET TO CATCH BASIN	200	LF	REMOVAL OF PAVEMENT MARKING LINES (24")
1	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX WITH MANHOLE COVER	3,180	EA	PERMANENT RAISED PAVEMENT MARKERS
1	EA	CONVERT EXISTING JUNCTION BOX TO CATCH BASIN	25	EA	FLEXIBLE DELINEATORS (CRYSTAL & RED)
2	EA	IMPACT ATTENUATOR UNIT, TYPE 350	25	EA	FLEXIBLE DELINEATORS (YELLOW & RED)
7,775	LF	STEEL BM GUARDRAIL	2	EA	100' HIGH MOUNT STANDARD
2	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS	2	EA	120' HIGH MOUNT STANDARD
10	EA	ADDITIONAL GUARDRAIL POSTS	1	EA	PORTABLE DRIVE UNIT
12	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	25.4	CY	HIGH MOUNT FOUNDATIONS
27	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	16	EA	HIGH MOUNT LUMINAIRES ***** (1 KW HPS)
1	EA	GUARDRAIL ANCHOR UNITS, TYPE XI (MOD)	1	EA	ELECTRIC SERVICE POLES *** ***** (30')
3,300	LF	REMOVE EXISTING GUARDRAIL	100	LF	ELECTRIC SERVICE LATERAL ***** (100')
1,825	TON	PLAIN RIP RAP, CLASS I	1	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (240/480V, IPH, 3W)
420	TON	PLAIN RIP RAP, CLASS A	258	LF	ELECTRICAL DUCT, TYPE JA, SIZE ***** (3")
2,300	TON	PLAIN RIP RAP, CLASS B	1,885	LF	** #8 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5")
5,400	SY	FILTER FABRIC FOR DRAINAGE	1	EA	ELECTRICAL JUNCTION BOXES ***** (PC18)
2,400	SY	GENERIC EROSION CONTROL ITEM GEOMEMBRANE FOR DITCH LINER	432	TON	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (VI)
1	CY	PLAIN CONCRETE SIGN FOOTINGS	432	TON	BEDDING MATERIAL, UTILITIES CLASS ***** (IV)
980	LB	SUPPORTS, BREAKAWAY STEEL BEAM	90	TON	PAVEMENT REPAIR FOR UTILITY WORK
1,238	LF	SUPPORTS, 3-LB STEEL U-CHANNEL	1,757	LF	*** DI WATER PIPE, CLASS ***** (16", 50, 350# WP)
2	EA	SIGN ERECTION, TYPE D	381	LF	6" DI WATER PIPE, CLASS ***** (50, 350# WP)
76	EA	SIGN ERECTION, TYPE E	18	LF	8" DI WATER PIPE, CLASS ***** (50, 350# WP)
8	EA	SIGN ERECTION, TYPE F	1,144	LF	12" DI WATER PIPE, CLASS ***** (50, 350# WP)
4	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	192	LF	*** DI RESTRAINED JOINT WATER PIPE, CLASS ***** (12", 50, 350# WP)
10	EA	RELOCATE SIGN, TYPE ***** (E)	860	LB	DI RESTRAINED JOINT WATER PIPE FITTINGS, 250# MIN WP
40	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	129	LF	*** COPPER WATER PIPE, TYPE K (1-1/2")
9	EA	DISPOSAL OF SUPPORT, U-CHANNEL	57	LF	*** COPPER WATER PIPE, TYPE K (2")
1	EA	DISPOSAL OF SIGN, D, E OR F	147	LF	3/4" COPPER WATER PIPE, TYPE K
990	SF	WORK ZONE SIGNS (STATIONARY)	12,560	LB	DUCTILE IRON WATER PIPE FITTINGS, 250# MIN WP
1,000	SF	WORK ZONE SIGNS (PORTABLE)	1	EA	3/4" CORPORATION STOP
197	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	6	EA	1-1/2" CORPORATION STOP
4	EA	FLASHING ARROW PANELS, TYPE C	1	EA	2" CORPORATION STOP
8	EA	WARNING FLAG SETS	12	EA	6" GATE VALVE & VALVE BOX, 200# WP
730	EA	DRUMS	1	EA	8" GATE VALVE & VALVE BOX, *****WP (200# WP)
100	EA	CONES	5	EA	***X*** TAPPING SADDLE (16" X 1-1/2")
132	LF	BARRICADES (TYPE II)	1	EA	***X*** TAPPING SADDLE (16" X 2")
275	LF	BARRICADES (TYPE III)	8	EA	RELOCATE EXISTING WATER METER
11,500	HR	FLAGGER	2	EA	FIRE HYDRANT, *****MPA WP (150#)
4	EA	WARNING LIGHTS (TYPE B)	8	EA	RELOCATE EXISTING FIRE HYDRANT
3	EA	TEMPORARY CRASH CUSHIONS	490	LF	*** PVC FORCE MAIN SEWER PIPE, ***** (2", SDR 21)
4	EA	TRUCK MOUNTED IMPACT ATTENUATOR (45 MPH)	30	LF	*** DI SEWER PIPE, PC ***** (42", 350)
1,800	LF	PORTABLE CONCRETE BARRIER (ANCHORED)	6	EA	4' DIA PRECAST CONC SEWER MANHOLE 0-6' DEPTH
192	HR	POLICE	14	EA	5' DIA PRECAST CONC SEWER MANHOLE 0-6' DEPTH
6,000	LF	REMOVABLE TAPE PAVEMENT MARKING LINES (4")			
135	LF	REMOVABLE TAPE PAVEMENT MARKING LINES (24")			
3,115	EA	TEMPORARY RAISED PAVEMENT MARKERS			
42,800	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)			
57,285	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)			
560	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)			
540	LF	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)			
1,705	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)			
26	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120MIL)			
411	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)			
228,035	LF	PAINT PAVEMENT MARKING LINES (4")			
600	LF	PAINT PAVEMENT MARKING LINES (8")			



			20	LF	TRENCHING (PAVED)	
			5,990	LF	TRENCHING (UNPAVED)	
			1,540	LF	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 1-1/4" (** CONDUIT)	(1)
55	LF	PRECAST CONC MANHOLE WALL, * DIA, OVER 6' HT (4)	510	LF	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 1-1/4" (** CONDUIT)	(3)
110	LF	PRECAST CONC MANHOLE WALL, * DIA, OVER 6' HT (5)	1,280	LF	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 1-1/4" (** CONDUIT)	(4)
180	LF	FILL OR REMOVE ABANDONED 12" PIPE, ***** (DI SEWER)	85	EA	JUNCTION BOX (STANDARD SIZE)	
1,677	LF	FILL OR REMOVE ABANDONED 16" PIPE, ***** (DI WATER)	30	EA	JUNCTION BOX (OVER-SIZED)	
12	EA	BREAK DOWN & REBUILD EXISTING MANHOLE	36	EA	WOOD POLE	
5	EA	GENERIC UTILITY ITEM 10" SPLIT RING RETAINER GLANDS	63	EA	GUY ASSEMBLY	
1	EA	GENERIC UTILITY ITEM 12" GATE VALVE AND MANHOLE, 200#WP	8	EA	1" RISER WITH WEATHERHEAD	
2	EA	GENERIC UTILITY ITEM 16" BUTTERFLY VALVE AND MANHOLE, 250#WP	9	EA	2" RISER WITH WEATHERHEAD	
1	EA	GENERIC UTILITY ITEM RELOCATE EXT BLOWOFF ASSEMBLY	9	EA	2" RISER WITH HEAT SHRINK TUBING	
1	EA	GENERIC UTILITY ITEM RELOCATE EXT SEWER COMBO AIR/ VACUUM & AIR RELEASE VALVE & MANHOLE	17,110	LF	INDUCTIVE LOOP SAWCUT	
163	LF	GENERIC UTILITY ITEM 12" DI RESTRAINED JOINT SEWER PIPE, PC 350	31,550	LF	LEAD-IN CABLE	
145	LF	GENERIC UTILITY ITEM 16" DI RESTRAINED JOINT SEWER PIPE, PC 350	9	EA	LOOP EMULATOR DETECTION SYSTEM	
4,182.81	LF	GENERIC UTILITY ITEM 30" DI SEWER PIPE, CLASS 51	280	LF	COMMUNICATIONS CABLE (**FIBER) (12)	
201	LF	GENERIC UTILITY ITEM 8" DI RESTRAINED JOINT SEWER PIPE, PC 350	630	LF	COMMUNICATIONS CABLE (**FIBER) (18)	
14,000	LF	TEMPORARY SILT FENCE	19,880	LF	COMMUNICATIONS CABLE (**FIBER) (24)	
1,350	TON	STONE FOR EROSION CONTROL, CLASS A	1,640	LF	DROP CABLE	
15,650	TON	STONE FOR EROSION CONTROL, CLASS B	6	EA	AERIAL SPLICE ENCLOSURE	
8,300	TON	SEDIMENT CONTROL STONE	11	EA	INTERCONNECT CENTER	
105	ACR	TEMPORARY MULCHING	11	EA	FIBER-OPTIC TRANSCEIVER	
3,750	LB	SEED FOR TEMPORARY SEEDING	19	EA	DELINEATOR MARKER	
15	TON	FERTILIZER FOR TEMPORARY SEED- ING	4	EA	METAL STRAIN SIGNAL POLE	
1,520	LF	TEMPORARY SLOPE DRAINS	35	EA	SIGNAL SUPPORT MAST ARM WITH METAL POLE	
40	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS	39	EA	METAL SIGNAL POLE FOUNDATION	
58,600	CY	SILT EXCAVATION	1	EA	SIGNAL PEDESTAL WITH FOUNDA- TION	
12,000	SY	SYNTHETIC ROVING	4	EA	METAL STRAIN POLE DESIGN	
12,000	SY	MATting FOR EROSION CONTROL	10	EA	MAST ARM WITH METAL POLE DE- SIGN	
6,800	LF	1/4" HARDWARE CLOTH	16	EA	SIGN FOR SIGNALS	
530	LF	*** TEMPORARY PIPE (18")	4	EA	LED BLANKOUT SIGN	
320	LF	*** TEMPORARY PIPE (30")	7	EA	SIGNAL CABINET FOUNDATION	
1,635	CY	STILLING BASINS	7	EA	CABINET BASE ADAPTER	
103.5	ACR	SEEDING & MULCHING	7	EA	CONTROLLER WITH CABINET (TYPE 170E, BASE MOUNTED)	
62.5	ACR	MOWING	228	EA	DETECTOR CHANNEL (TYPE 170)	
900	LB	SEED FOR REPAIR SEEDING	4	EA	METAL POLE FOUNDATION REMOVAL	
2	TON	FERTILIZER FOR REPAIR SEEDING	4	EA	METAL POLE REMOVAL	
2,500	LB	SEED FOR SUPPLEMENTAL SEEDING	22	EA	GENERIC SIGNAL ITEM CABLE TRANSFERS	
77.5	TON	FERTILIZER TOPDRESSING	6	EA	GENERIC SIGNAL ITEM OPTICALLY ACTIVATED PRIORITY CONTROL SYSTEM	
900	LF	IMPERVIOUS DIKE	9	EA	GENERIC SIGNAL ITEM RELOCATE EXISTING OPTICALLY ACTIVATED PRIORITY CONTROL SYSTEM	
17	HR	SPECIALIZED HAND MOWING	4	EA	GENERIC SIGNAL ITEM TAS TYPE 170E INTERFACE	
32	EA	RESPONSE FOR EROSION CONTROL	532	LF	GENERIC SIGNAL ITEM REMOVE EXISTING TRAFFIC COMMUNICATIONS CABLE	
170	CY	CULVERT DIVERSION CHANNEL	1,040	LF	GENERIC SIGNAL ITEM TRENCHING MULTI-DUCT 1-1/4" (ONE CONDUIT)	
1.03	ACR	STREAMBANK REFORESTATION	420	LF	GENERIC SIGNAL ITEM TRENCHING MULTI-DUCT 1-1/4" (THREE CONDUITS)	
18	EA	GENERIC EROSION CONTROL ITEM ROOTWADS	1,145	LF	GENERIC SIGNAL ITEM TRENCHING MULTI-DUCT 1-1/4" (TWO CONDUITS)	
650	SY	GENERIC EROSION CONTROL ITEM COIR FIBER MAT				
8	EA	PEDESTRIAN SIGNAL HEAD (12", 1 SECTION)				
26,360	LF	SIGNAL CABLE	Lump Sum	LS	PRECAST REINFORCED CONC BOX CULVERT AT STA ***** (639+16.00 -L-)	
127	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (17+65.62 -Y47-)	
8	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (22+18.58 -Y47-)	
50	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (429+66.55 -L-)	
30	EA	BACKPLATE	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (537+79.05 -L-)	
12	EA	MODIFY EXISTING VEHICLE SIGNAL HEAD	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (542+79.88 -L-)	
16,400	LF	MESSSENGER CABLE (1/4")	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (545+85.76 -L-)	
6,020	LF	MESSSENGER CABLE (3/8")				
350	LF	JACK & BORE				
4,280	LF	TRACER WIRE				

**CULVERT ITEMS**

Lump Sum	LS	CULVERT EXCAVATION, STA ***** (639+16.00 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (639+76.70 -L-LT)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (639+76.70 -L-RT)
1,210	TON	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT
1,224.1	CY	CLASS A CONCRETE (CULVERT)
332,437	LB	REINFORCING STEEL (CULVERT)
621.9	CY	GENERIC CULVERT ITEM CLASS AA CONCRETE

**WALL ITEMS**

Lump Sum	LS	GENERIC RETAINING WALL ITEM SOIL NAIL RETAINING WALL @ STA. 627+08.40-L-
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FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030318 006

CONTRACT ID : C200559 8.1403905

DIV OFFICE DURHAM

LENGTH = 5.614 MI

COUNTY : WAKE

WIDENING, GRADING, DRAINAGE, PAVING & CULVERTS.

DBE GOAL 10.0% COMPLETION DATE : JUN 01 2006

NC-55 FROM NORTH OF US-64 TO NORTH OF SR-1726.

ROADWAY ITEMS

			1	EA	GENERIC PIPE ITEM 48" X 24" RC PIPE TAPERED INLET, CLASS III
			2	EA	GENERIC PIPE ITEM 54" X 30" RC PIPE TAPERED INLET, CLASS III
			4,111	LF	PIPE REMOVAL
			9	EA	PIPE CLEAN-OUT
Lump Sum	LS	MOBILIZATION	Lump Sum	LS	FINE GRADING
Lump Sum	LS	CONSTRUCTION SURVEYING	1,000	LB	SEALING EXISTING PAVEMENT CRACKS
Lump Sum	LS	CLEARING & GRUBBING .. ACRE(S)	26,587	SY	LIME TREATED SOIL (SLURRY METHOD)
3	ACR	SUPPLEMENTARY CLEARING & GRUB- BING	275	TON	LIME FOR LIME TREATED SOIL
2	EA	SEALING ABANDONED WELLS	1,000	TON	STABILIZER AGGREGATE
166,000	CY	UNCLASSIFIED EXCAVATION	27,100	TON	AGGREGATE BASE COURSE
15,500	CY	UNDERCUT EXCAVATION	26,587	SY	*** SOIL CEMENT BASE (7")
1,000	TON	CLASS IV SUBGRADE STABILIZA- TION	740	TON	PORTLAND CEMENT FOR SOIL CE- MENT BASE
80,000	CY	BORROW EXCAVATION	255	TON	AGGREGATE FOR SOIL CEMENT BASE
5,200	CY	DRAINAGE DITCH EXCAVATION	5,350	GAL	ASPHALT CURING SEAL
5,675	LF	BERM DITCH CONSTRUCTION	500	TON	INCIDENTAL STONE BASE
31,810	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT	270	SY	INCIDENTAL MILLING
16.2	HR	PROOF ROLLING	41,000	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C
5,000	CY	SELECT GRANULAR MATERIAL	48,350	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
5,000	SY	FABRIC FOR SOIL STABILIZATION	34,400	TON	ASPHALT CONC SURFACE COURSE, TYPE S12.5C
1,055	SF	TEMPORARY SHORING - BARRIER SUPPORTED	4,040	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
700	CY	GENERIC GRADING ITEM SELECT GRANULAR MATERIAL FOR TEMPORARY FABRIC WALL	1,900	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
2,000	SY	GENERIC GRADING ITEM FABRIC FOR TEMPORARY FABRIC WALL	625	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR
2,650	TON	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRS	83	EA	RIGHT OF WAY MARKERS
28	LF	15" SIDE DRAIN PIPE	1,008	CY	SUBDRAIN EXCAVATION
16	LF	18" SIDE DRAIN PIPE	504	CY	SUBDRAIN FINE AGGREGATE
14,564	LF	15" RC PIPE CULVERTS, CLASS III	3,000	LF	6" PERFORATED SUBDRAIN PIPE
4,352	LF	18" RC PIPE CULVERTS, CLASS III	90	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS
3,088	LF	24" RC PIPE CULVERTS, CLASS III	6	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
484	LF	30" RC PIPE CULVERTS, CLASS III	36	LF	6" OUTLET PIPE (SUBDRAINS)
124	LF	36" RC PIPE CULVERTS, CLASS III	145	TON	BLOTTING SAND
56	LF	42" RC PIPE CULVERTS, CLASS III	27.5	CY	ENDWALLS
288	LF	48" RC PIPE CULVERTS, CLASS III	17.4	CY	REINFORCED ENDWALLS
112	LF	54" RC PIPE CULVERTS, CLASS III	29.86	CY	PIPE COLLARS
112	LF	60" RC PIPE CULVERTS, CLASS III	0.15	CY	PIPE PLUGS
68	LF	66" RC PIPE CULVERTS, CLASS III	22.6	CY	FLOWABLE FILL
112	LF	***** RC PIPE CULVERTS, CLASS IV (30")	245	EA	MASONRY DRAINAGE STRUCTURES
20	LF	18" CS PIPE CULVERTS, 0.064" THICK	6.3	CY	MASONRY DRAINAGE STRUCTURES
1,188	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	155.1	LF	MASONRY DRAINAGE STRUCTURES
100	LF	18" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	5	EA	FRAME WITH GRATE, STD 840.**** (840.24)
244	LF	24" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	25	EA	FRAME WITH TWO GRATES, STD 840.22
36	LF	30" BIT COAT CS PIPE CULVERTS, TYPE B 0.079" THICK	42	EA	FRAME WITH TWO GRATES, STD 840.24
8	LF	36" BIT COAT CS PIPE CULVERTS, TYPE B 0.079" THICK	25	EA	FRAME WITH TWO GRATES, STD 840.29
47	EA	15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK	7	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
5	EA	18" BIT COAT CS PIPE ELBOWS, T YPE B 0.064" THICK	54	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
10	EA	24" BIT COAT CS PIPE ELBOWS, T YPE B 0.064" THICK	71	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
660	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B, INSTALLED BY BORING & JACKING (48", 0.109")	16	EA	FRAME WITH COVER, STD 840.54
192	LF	GENERIC PIPE ITEM POLYMER LINE DRAIN	1	EA	STEEL FRAME WITH TWO GRATES, STD840.37
			17	EA	CONCRETE APRON FOR CATCH BASIN
			14	EA	CONCRETE APRON FOR DROP INLETS
			160	LF	***X*** CONCRETE CURB (8" X 12")
			350	LF	***X*** CONCRETE CURB (9" X 12")

			1,000	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
			144	LF	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)
20,200	LF	1'-6" CONCRETE CURB & GUTTER	1,120	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
33,100	LF	2'-6" CONCRETE CURB & GUTTER	24	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120MIL)
2,500	LF	SHOULDER BERM GUTTER	358	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
1,975	LF	CONCRETE EXPRESSWAY GUTTER	441,852	LF	PAINT PAVEMENT MARKING LINES (4")
4,600	SY	4" CONCRETE SIDEWALK	390	LF	PAINT PAVEMENT MARKING LINES (8")
250	SY	CONCRETE WHEELCHAIR RAMPS	80	LF	PAINT PAVEMENT MARKING LINES (16")
520	SY	6" CONCRETE DRIVEWAY	3,122	LF	PAINT PAVEMENT MARKING LINES (24")
160	SY	4" CONCRETE PAVED DITCH	8	EA	PAINT PAVEMENT MARKING CHARACTER
2,565	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	660	EA	PAINT PAVEMENT MARKING SYMBOL
30	LF	GENERIC PAVING ITEM 2'-0" CONC CURB & GUTTER	36,000	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
30	LF	GENERIC PAVING ITEM SPECIAL 1'-6" CONC CURB & GUTTER	600	LF	REMOVAL OF PAVEMENT MARKING LINES (24")
22	EA	ADJUSTMENT OF CATCH BASINS	3,405	EA	PERMANENT RAISED PAVEMENT MARKERS
14	EA	ADJUSTMENT OF MANHOLES	348	TON	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (VI)
50	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	348	TON	BEDDING MATERIAL, UTILITIES CLASS ***** (IV)
1	EA	CONVERT EXISTING CATCH BASIN TO DROP INLET	17	TON	PAVEMENT REPAIR FOR UTILITY WORK
3	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX	117	LF	*** DI WATER PIPE, PC ***** (24", 200#)
2	EA	GENERIC DRAINAGE ITEM ADJUSTMENT OF TRAFFIC BEARING JUNCTION BOX	1,178	LF	6" DI WATER PIPE, PC 350
9,600	LF	STEEL BM GUARDRAIL	96	LF	8" DI WATER PIPE, PC 350
187.5	LF	STEEL BM GUARDRAIL, SHOP CURVED	504	LF	12" DI WATER PIPE, PC 350
10	EA	ADDITIONAL GUARDRAIL POSTS	4,083	LF	16" DI WATER PIPE, PC ***** (250)
3	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1	42	LF	**** COPPER WATER PIPE, TYPE K (2")
15	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	165	LF	3/4" COPPER WATER PIPE, TYPE K
24	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	8	LF	1" COPPER WATER PIPE, TYPE K
675	LF	REMOVE EXISTING GUARDRAIL	18,983	LB	DUCTILE IRON WATER PIPE FITTINGS, 250# MIN WP
337.5	LF	TEMPORARY STEEL BM GUARDRAIL	2	EA	3/4" CORPORATION STOP
2	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY	1	EA	1" CORPORATION STOP
660	TON	PLAIN RIP RAP, CLASS I	29	EA	6" GATE VALVE & VALVE BOX, 200# WP
30	TON	PLAIN RIP RAP, CLASS II	3	EA	8" GATE VALVE & VALVE BOX, ****WP (200#)
4,800	TON	PLAIN RIP RAP, CLASS B	2	EA	12" GATE VALVE & VALVE BOX, ****WP (200#)
6,210	SY	FILTER FABRIC FOR DRAINAGE	3	EA	*** BUTTERFLY VALVE & VALVE BOX (16")
6,000	SY	GENERIC EROSION CONTROL ITEM GEOMEMBRANE FOR DITCH LINER	1	EA	***X*** TAPPING SADDLE (12", 3/4")
4	CY	PLAIN CONCRETE SIGN FOOTINGS	1	EA	***X*** TAPPING SADDLE (16", 1")
2,613	LB	SUPPORTS, BREAKAWAY STEEL BEAM	2	EA	RELOCATE EXISTING WATER METER
2,935	LF	SUPPORTS, 3-LB STEEL U-CHANNEL	6	EA	FIRE HYDRANT, *****MPA WP (150#)
11	EA	SIGN ERECTION, TYPE D	24	EA	RELOCATE EXISTING FIRE HYDRANT
161	EA	SIGN ERECTION, TYPE E	1	EA	*** LINE STOP ASSEMBLY WITH BYPASS (16")
25	EA	SIGN ERECTION, TYPE F	52	LF	*** PVC FORCE MAIN SEWER PIPE, ***** (2", SDR 21)
4	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	118	LF	*** DI FORCE MAIN SEWER PIPE, PC ***** (14", 350)
1	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	58	LF	*** DI FORCE MAIN SEWER PIPE, PC ***** (16", 250)
10	EA	RELOCATE SIGN, TYPE ***** (E)	2,440	LB	DUCTILE IRON SEWER PIPE FITTINGS, ***** (350# WP)
144	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	2	EA	SANITARY SEWER CLEAN-OUT
1	EA	DISPOSAL OF SIGN SYSTEM, WOOD	326	LF	FILL OR REMOVE ABANDONED 12" PIPE, ***** (DI WATER)
1,621	SF	WORK ZONE SIGNS (STATIONARY)	1	EA	BREAK DOWN, PLUG, & FILL ABANDONED UTILITY MANHOLE
432	SF	WORK ZONE SIGNS (PORTABLE)	3	EA	BREAK DOWN & REBUILD EXISTING MANHOLE
109	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	42	LF	*** STEEL ENCASMENT PIPE, ***** THICK, BY OPEN CUT (24", 2.250" THICK)
4	EA	FLASHING ARROW PANELS, TYPE C			
4	EA	WARNING FLAG SETS			
785	EA	DRUMS			
75	EA	CONES			
612	LF	BARRICADES (TYPE III)			
8,000	HR	FLAGGER			
2	EA	WARNING LIGHTS (TYPE B)			
4	EA	TEMPORARY CRASH CUSHIONS			
2	EA	TRUCK MOUNTED IMPACT ATTENUATOR (45 MPH)			
2,100	LF	PORTABLE CONCRETE BARRIER (ANCHORED)			
96	HR	POLICE			
18,000	LF	REMOVABLE TAPE PAVEMENT MARKING LINES (4")			
100	LF	REMOVABLE TAPE PAVEMENT MARKING LINES (24")			
3,009	EA	TEMPORARY RAISED PAVEMENT MARKERS			
29,050	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)			
71,964	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)			

			1,118	LF	GENERIC SIGNAL ITEM DIRECTIONAL DRILL OUTER-DUCT CONDUIT (5")
1	EA	GENERIC UTILITY ITEM 2" COMBINATION AIR RELEASE VALVE & MANHOLE	1,200	LF	GENERIC SIGNAL ITEM DIRECTIONAL DRILL POLYETHYLENE CONDUIT (1-1/4")
3	EA	GENERIC UTILITY ITEM 24" SPLIT RING RETAINER GLANDS			
1	EA	GENERIC UTILITY ITEM BLOWOFF ASSEMBLY			
1	EA	GENERIC UTILITY ITEM RELOCATE EXT COMBINATION AIR RELEASE VALVE			
1	EA	GENERIC UTILITY ITEM REMOVE EXISTING BLOWOFF			
1	EA	GENERIC UTILITY ITEM WATER METER ASSEMBLY			
12,745	LF	TEMPORARY SILT FENCE			
900	TON	STONE FOR EROSION CONTROL, CLASS A			
13,140	TON	STONE FOR EROSION CONTROL, CLASS B			
7,135	TON	SEDIMENT CONTROL STONE			
54	ACR	TEMPORARY MULCHING			
1,900	LB	SEED FOR TEMPORARY SEEDING			
8	TON	FERTILIZER FOR TEMPORARY SEED- ING			
1,500	LF	TEMPORARY SLOPE DRAINS			
37	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS			
34,485	CY	SILT EXCAVATION			
12,100	SY	SYNTHETIC ROVING			
12,100	SY	MATTING FOR EROSION CONTROL			
7,390	LF	1/4" HARDWARE CLOTH			
420	LF	*** TEMPORARY PIPE (15")			
85	LF	*** TEMPORARY PIPE (18")			
210	CY	STILLING BASINS			
52	ACR	SEEDING & MULCHING			
32	ACR	MOWING			
650	LB	SEED FOR REPAIR SEEDING			
1.25	TON	FERTILIZER FOR REPAIR SEEDING			
1,275	LB	SEED FOR SUPPLEMENTAL SEEDING			
39	TON	FERTILIZER TOPDRESSING			
210	LF	IMPERVIOUS DIKE			
20	HR	SPECIALIZED HAND MOWING			
32	EA	RESPONSE FOR EROSION CONTROL			
7,915	LF	SIGNAL CABLE			
73	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)			
14	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)			
18,261	LF	MESSENGER CABLE (1/4")			
2,560	LF	MESSENGER CABLE (3/8")			
17,440	LF	TRACER WIRE			
16,647	LF	TRENCHING (UNPAVED)			
90	EA	JUNCTION BOX (STANDARD SIZE)			
75	EA	JUNCTION BOX (OVER-SIZED)			
26	EA	WOOD POLE			
49	EA	GUY ASSEMBLY			
6	EA	1" RISER WITH WEATHERHEAD			
12	EA	2" RISER WITH WEATHERHEAD			
14	EA	2" RISER WITH HEAT SHRINK TUBING			
8,790	LF	INDUCTIVE LOOP SAWCUT			
22,005	LF	LEAD-IN CABLE			
3	EA	LOOP EMULATOR DETECTION SYSTEM			
2	EA	MICROWAVE VEHICLE DETECTOR			
880	LF	TYPE 2 LEAD-IN CABLE			
38,610	LF	COMMUNICATIONS CABLE (**FIBER) (12)			
22,200	LF	COMMUNICATIONS CABLE (**FIBER) (24)			
8	EA	INTERCONNECT CENTER			
10	EA	FIBER-OPTIC TRANSCEIVER			
75	EA	DELINEATOR MARKER			
1	EA	FURNISH FIBER-OPTIC RESTORA- TION KIT			
1	EA	FURNISH FIBER-OPTIC TRANSCEIV- ER			
22	EA	SIGNAL SUPPORT MAST ARM WITH METAL POLE			
22	EA	METAL SIGNAL POLE FOUNDATION			
23	EA	SIGN FOR SIGNALS			
7	EA	SIGNAL CABINET FOUNDATION			
8	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)			
146	EA	DETECTOR CHANNEL (TYPE 2070L)			
1	EA	CENTRAL COMPUTER			
1	EA	NOTEBOOK COMPUTER			
1	EA	PRINTER			

**CULVERT ITEMS**

Lump Sum	LS	CULVERT EXCAVATION, STA ***** (107+51.80 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (142+73.20 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (143+36.98 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (152+55.10 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (188+46.10 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (196+35.00 -L-)
315.1	TON	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT
671	CY	CLASS A CONCRETE (CULVERT)
81,749	LB	REINFORCING STEEL (CULVERT)
16.17	SY	METHOD A WATERPROOFING
Lump Sum	LS	ELECTRICAL CONDUIT SYSTEM, STA ***** (143+36.98 -L-)
Lump Sum	LS	ELECTRICAL CONDUIT SYSTEM, STA ***** (196+35.00 -L-)

## FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030318 007

CONTRACT ID : C200711 8.1403904

DIV OFFICE DURHAM

LENGTH = 11.634 MI

COUNTY : DURHAM, WAKE

WIDENING, GRADING, DRAINAGE, PAVING &amp; CULVERTS.

DBE GOAL 10.0% COMPLETION DATE : JUN 01 2006

NC-55 FROM NORTH OF US-64 IN WAKE COUNTY TO SR-1121 IN DURHAM.

ROADWAY ITEMS					
			1	EA	30" BIT COAT CS PIPE ELBOWS, TYPE B 0.079" THICK
			660	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B, INSTALLED BY BORING & JACKING (48", 0.109")
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING			
Lump Sum	LS	FIELD OFFICE			
Lump Sum	LS	CLEARING & GRUBBING .. ACRE(S)	192	LF	GENERIC PIPE ITEM POLYMER LINE DRAIN
6	ACR	SUPPLEMENTARY CLEARING & GRUBBING	1	EA	GENERIC PIPE ITEM 48" X 24" RC PIPE TAPERED INLET, CLASS III
2	EA	SEALING ABANDONED WELLS	3	EA	GENERIC PIPE ITEM 54" X 30" RC PIPE TAPERED INLET, CLASS III
356,900	CY	UNCLASSIFIED EXCAVATION	7,441	LF	PIPE REMOVAL
24,000	CY	UNDERCUT EXCAVATION	16	EA	PIPE CLEAN-OUT
2,000	TON	CLASS IV SUBGRADE STABILIZATION	Lump Sum	LS	FINE GRADING
160,950	CY	BORROW EXCAVATION	1,500	LB	SEALING EXISTING PAVEMENT CRACKS
16,900	CY	DRAINAGE DITCH EXCAVATION	59,087	SY	LIME TREATED SOIL (SLURRY METHOD)
7,075	LF	BERM DITCH CONSTRUCTION	625	TON	LIME FOR LIME TREATED SOIL
62,610	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT	1,500	TON	STABILIZER AGGREGATE
500	SY	BREAKING OF EXISTING ASPHALT PAVEMENT	88,500	TON	AGGREGATE BASE COURSE
30.2	HR	PROOF ROLLING	59,087	SY	*** SOIL CEMENT BASE (7")
12,000	CY	SELECT GRANULAR MATERIAL	1,640	TON	PORTLAND CEMENT FOR SOIL CEMENT BASE
12,000	SY	FABRIC FOR SOIL STABILIZATION	465	TON	AGGREGATE FOR SOIL CEMENT BASE
1,075	SF	TEMPORARY SHORING	11,850	GAL	ASPHALT CURING SEAL
1,055	SF	TEMPORARY SHORING - BARRIER SUPPORTED	600	TON	INCIDENTAL STONE BASE
950	CY	GENERIC GRADING ITEM SELECT GRANULAR MATERIAL FOR TEMPORARY FABRIC WALL	2,500	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (2-1/4")
2,700	SY	GENERIC GRADING ITEM FABRIC FOR TEMPORARY FABRIC WALL	6,300	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (5-1/4")
5,650	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	4,220	SY	INCIDENTAL MILLING
84	LF	15" SIDE DRAIN PIPE	2,800	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
64	LF	18" SIDE DRAIN PIPE	60,000	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C
27,428	LF	15" RC PIPE CULVERTS, CLASS III	2,000	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
6,708	LF	18" RC PIPE CULVERTS, CLASS III	101,550	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
9,024	LF	24" RC PIPE CULVERTS, CLASS III	2,200	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
4,160	LF	30" RC PIPE CULVERTS, CLASS III	85,830	TON	ASPHALT CONC SURFACE COURSE, TYPE S12.5C
1,532	LF	36" RC PIPE CULVERTS, CLASS III	7,715	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
660	LF	42" RC PIPE CULVERTS, CLASS III	4,729	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
288	LF	48" RC PIPE CULVERTS, CLASS III	625	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR
112	LF	54" RC PIPE CULVERTS, CLASS III	143	EA	RIGHT OF WAY MARKERS
112	LF	60" RC PIPE CULVERTS, CLASS III	1,512	CY	SUBDRAIN EXCAVATION
200	LF	66" RC PIPE CULVERTS, CLASS III	756	CY	SUBDRAIN FINE AGGREGATE
220	LF	72" RC PIPE CULVERTS, CLASS III	4,500	LF	6" PERFORATED SUBDRAIN PIPE
112	LF	***** RC PIPE CULVERTS, CLASS IV (30")	135	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS
92	LF	18" CS PIPE CULVERTS, 0.064" THICK	9	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
1,684	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	54	LF	6" OUTLET PIPE (SUBDRAINS)
332	LF	18" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	160	TON	BLOTTING SAND
356	LF	24" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	48.4	CY	ENDWALLS
88	LF	30" BIT COAT CS PIPE CULVERTS, TYPE B 0.079" THICK	37.9	CY	REINFORCED ENDWALLS
8	LF	36" BIT COAT CS PIPE CULVERTS, TYPE B 0.079" THICK	53.86	CY	PIPE COLLARS
65	EA	15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK	2.15	CY	PIPE PLUGS
6	EA	18" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK	84.6	CY	FLOWABLE FILL
16	EA	24" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK	499	EA	MASONRY DRAINAGE STRUCTURES
			30.3	CY	MASONRY DRAINAGE STRUCTURES
			237.1	LF	MASONRY DRAINAGE STRUCTURES
			10	EA	FRAME WITH GRATE, STD 840.***** (840.24)
			27	EA	FRAME WITH TWO GRATES, STD 840.16
			25	EA	FRAME WITH TWO GRATES, STD 840.22

90	EA	FRAME WITH TWO GRATES, STD 840.24	13	EA	SIGN ERECTION, TYPE D
38	EA	FRAME WITH TWO GRATES, STD 840.29	237	EA	SIGN ERECTION, TYPE E
37	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	33	EA	SIGN ERECTION, TYPE F
108	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	4	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)
136	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	5	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)
29	EA	FRAME WITH COVER, STD 840.54	20	EA	RELOCATE SIGN, TYPE ***** (E)
6	EA	STEEL FRAME WITH TWO GRATES, STD840.37	184	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
49	EA	CONCRETE APRON FOR CATCH BASIN	1	EA	DISPOSAL OF SIGN SYSTEM, WOOD
25	EA	CONCRETE APRON FOR DROP INLETS	9	EA	DISPOSAL OF SUPPORT, U-CHANNEL
160	LF	***X *** CONCRETE CURB (8" X 12")	1	EA	DISPOSAL OF SIGN, D, E OR F
350	LF	***X *** CONCRETE CURB (9" X 12")	2,611	SF	WORK ZONE SIGNS (STATIONARY)
47,700	LF	1'-6" CONCRETE CURB & GUTTER	1,432	SF	WORK ZONE SIGNS (PORTABLE)
65,100	LF	2'-6" CONCRETE CURB & GUTTER	306	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
5,300	LF	SHOULDER BERM GUTTER	8	EA	FLASHING ARROW PANELS, TYPE C
1,975	LF	CONCRETE EXPRESSWAY GUTTER	12	EA	WARNING FLAG SETS
6,400	SY	4" CONCRETE SIDEWALK	1,515	EA	DRUMS
332	SY	CONCRETE WHEELCHAIR RAMPS	175	EA	CONES
1,200	SY	6" CONCRETE DRIVEWAY	132	LF	BARRICADES (TYPE II)
260	SY	4" CONCRETE PAVED DITCH	887	LF	BARRICADES (TYPE III)
6,165	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	19,500	HR	FLAGGER
220	LF	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	6	EA	WARNING LIGHTS (TYPE B)
30	LF	GENERIC PAVING ITEM 2'-0" CONC CURB & GUTTER	7	EA	TEMPORARY CRASH CUSHIONS
30	LF	GENERIC PAVING ITEM SPECIAL 1'-6" CONC CURB & GUTTER	6	EA	TRUCK MOUNTED IMPACT ATTENUATOR (45 MPH)
22	EA	ADJUSTMENT OF CATCH BASINS	3,900	LF	PORTABLE CONCRETE BARRIER (ANCHORED)
15	EA	ADJUSTMENT OF MANHOLES	288	HR	POLICE
50	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	24,000	LF	REMOVABLE TAPE PAVEMENT MARKING LINES (4")
1	EA	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX	235	LF	REMOVABLE TAPE PAVEMENT MARKING LINES (24")
1	EA	CONVERT EXISTING CATCH BASIN TO DROP INLET	6,124	EA	TEMPORARY RAISED PAVEMENT MARKERS
3	EA	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX WITH MANHOLE COVER	71,850	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
3	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX	129,249	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
1	EA	CONVERT EXISTING DROP INLET TO CATCH BASIN	1,560	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
1	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX WITH MANHOLE COVER	684	LF	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)
1	EA	CONVERT EXISTING JUNCTION BOX TO CATCH BASIN	2,825	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
2	EA	GENERIC DRAINAGE ITEM ADJUSTMENT OF TRAFFIC BEARING JUNCTION BOX	50	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120MIL)
2	EA	IMPACT ATTENUATOR UNIT, TYPE 350	769	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
17,375	LF	STEEL BM GUARDRAIL	669,887	LF	PAINT PAVEMENT MARKING LINES (4")
187.5	LF	STEEL BM GUARDRAIL, SHOP CURVED	990	LF	PAINT PAVEMENT MARKING LINES (8")
2	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS	80	LF	PAINT PAVEMENT MARKING LINES (16")
20	EA	ADDITIONAL GUARDRAIL POSTS	4,076	LF	PAINT PAVEMENT MARKING LINES (24")
3	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1	24	EA	PAINT PAVEMENT MARKING CHARACTER
27	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	811	EA	PAINT PAVEMENT MARKING SYMBOL
51	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	48,000	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
1	EA	GUARDRAIL ANCHOR UNITS, TYPE XI (MOD)	800	LF	REMOVAL OF PAVEMENT MARKING LINES (24")
3,975	LF	REMOVE EXISTING GUARDRAIL	6,585	EA	PERMANENT RAISED PAVEMENT MARKERS
337.5	LF	TEMPORARY STEEL BM GUARDRAIL	25	EA	FLEXIBLE DELINEATORS (CRYSTAL & RED)
2	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY	25	EA	FLEXIBLE DELINEATORS (YELLOW & RED)
2,485	TON	PLAIN RIP RAP, CLASS I	2	EA	100' HIGH MOUNT STANDARD
30	TON	PLAIN RIP RAP, CLASS II	2	EA	120' HIGH MOUNT STANDARD
420	TON	PLAIN RIP RAP, CLASS A	1	EA	PORTABLE DRIVE UNIT
7,100	TON	PLAIN RIP RAP, CLASS B	25.4	CY	HIGH MOUNT FOUNDATIONS
11,610	SY	FILTER FABRIC FOR DRAINAGE	16	EA	HIGH MOUNT LUMINAIRES ***** (1 KW HPS)
8,400	SY	GENERIC EROSION CONTROL ITEM GEOMEMBRANE FOR DITCH LINER	1	EA	ELECTRIC SERVICE POLES *** ***** (30')
5	CY	PLAIN CONCRETE SIGN FOOTINGS	100	LF	ELECTRIC SERVICE LATERAL ***** (100')
3,593	LB	SUPPORTS, BREAKAWAY STEEL BEAM	1	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (240/480V, IPH, 3W)
4,173	LF	SUPPORTS, 3-LB STEEL U-CHANNEL	258	LF	ELECTRICAL DUCT, TYPE JA, SIZE ***** (3")

1,885	LF	** #8 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5")	14	EA	5' DIA PRECAST CONC SEWER MAN- HOLE 0-6' DEPTH
1	EA	ELECTRICAL JUNCTION BOXES ***** (PC18)	55	LF	PRECAST CONC MANHOLE WALL, * DIA, OVER 6' HT
780	TON	FOUNDATION CONDITIONING MATE- RIAL, UTILITIES CLASS ***** (VI)	110	LF	PRECAST CONC MANHOLE WALL, * DIA, OVER 6' HT
780	TON	BEDDING MATERIAL, UTILITIES CLASS ***** (IV)	180	LF	FILL OR REMOVE ABANDONED 12" PIPE, ***** (DI SEWER)
107	TON	PAVEMENT REPAIR FOR UTILITY WORK	326	LF	FILL OR REMOVE ABANDONED 12" PIPE, ***** (DI WATER)
1,757	LF	*** DI WATER PIPE, CLASS ***** (16", 50, 350# WP)	1,677	LF	FILL OR REMOVE ABANDONED 16" PIPE, ***** (DI WATER)
381	LF	6" DI WATER PIPE, CLASS ***** (50, 350# WP)	1	EA	BREAK DOWN, PLUG, & FILL ABAN- DONED UTILITY MANHOLE
18	LF	8" DI WATER PIPE, CLASS ***** (50, 350# WP)	15	EA	BREAK DOWN & REBUILD EXISTING MANHOLE
1,144	LF	12" DI WATER PIPE, CLASS ***** (50, 350# WP)	42	LF	*** STEEL ENCASMENT PIPE, ***** THICK, BY OPEN CUT (24", 2.250" THICK)
117	LF	*** DI WATER PIPE, PC ***** (24", 200#)	5	EA	GENERIC UTILITY ITEM 10" SPLIT RING RETAINER GLANDS
1,178	LF	6" DI WATER PIPE, PC 350	1	EA	GENERIC UTILITY ITEM 12" GATE VALVE AND MANHOLE, 200#WP
96	LF	8" DI WATER PIPE, PC 350	2	EA	GENERIC UTILITY ITEM 16" BUTTERFLY VALVE AND MANHOLE, 250#WP
504	LF	12" DI WATER PIPE, PC 350	1	EA	GENERIC UTILITY ITEM 2" COMBINATION AIR RELEASE VALVE & MANHOLE
4,083	LF	16" DI WATER PIPE, PC ***** (250)	3	EA	GENERIC UTILITY ITEM 24" SPLIT RING RETAINER GLANDS
192	LF	*** DI RESTRAINED JOINT WATER PIPE, CLASS ***** (12", 50, 350# WP)	1	EA	GENERIC UTILITY ITEM BLOWOFF ASSEMBLY
860	LB	DI RESTRAINED JOINT WATER PIPE FITTINGS, 250# MIN WP	1	EA	GENERIC UTILITY ITEM RELOCATE EXT BLOWOFF ASSEMBLY
129	LF	*** COPPER WATER PIPE, TYPE K (1-1/2")	1	EA	GENERIC UTILITY ITEM RELOCATE EXT COMBINATION AIR RELEASE VALVE
99	LF	*** COPPER WATER PIPE, TYPE K (2")	1	EA	GENERIC UTILITY ITEM RELOCATE EXT SEWER COMBO AIR/ VACUUM & AIR RELEASE VALVE & MANHOLE
312	LF	3/4" COPPER WATER PIPE, TYPE K	1	EA	GENERIC UTILITY ITEM REMOVE EXISTING BLOWOFF
8	LF	1" COPPER WATER PIPE, TYPE K	1	EA	GENERIC UTILITY ITEM WATER METER ASSEMBLY
31,543	LB	DUCTILE IRON WATER PIPE FIT- TINGS, 250# MIN WP	163	LF	GENERIC UTILITY ITEM 12" DI RESTRAINED JOINT SEWER PIPE, PC 350
3	EA	3/4" CORPORATION STOP	145	LF	GENERIC UTILITY ITEM 16" DI RESTRAINED JOINT SEWER PIPE, PC 350
1	EA	1" CORPORATION STOP	4,182.81	LF	GENERIC UTILITY ITEM 30" DI SEWER PIPE, CLASS 51
6	EA	1-1/2" CORPORATION STOP	201	LF	GENERIC UTILITY ITEM 8" DI RESTRAINED JOINT SEWER PIPE, PC 350
1	EA	2" CORPORATION STOP	26,745	LF	TEMPORARY SILT FENCE
41	EA	6" GATE VALVE & VALVE BOX, 200# WP	2,250	TON	STONE FOR EROSION CONTROL, CLASS A
4	EA	8" GATE VALVE & VALVE BOX, ****WP (200# WP)	28,790	TON	STONE FOR EROSION CONTROL, CLASS B
2	EA	12" GATE VALVE & VALVE BOX, ****WP (200#)	15,435	TON	SEDIMENT CONTROL STONE
3	EA	*** BUTTERFLY VALVE & VALVE BOX (16")	159	ACR	TEMPORARY MULCHING
1	EA	***X*** TAPPING SADDLE (12" X 3/4")	5,650	LB	SEED FOR TEMPORARY SEEDING
5	EA	***X*** TAPPING SADDLE (16" X 1-1/2")	23	TON	FERTILIZER FOR TEMPORARY SEED- ING
1	EA	***X*** TAPPING SADDLE (16" X 2")	3,020	LF	TEMPORARY SLOPE DRAINS
1	EA	***X*** TAPPING SADDLE (16", 1")	77	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
10	EA	RELOCATE EXISTING WATER METER	93,085	CY	SILT EXCAVATION
8	EA	FIRE HYDRANT, *****MPA WP (150#)	24,100	SY	SYNTHETIC ROVING
32	EA	RELOCATE EXISTING FIRE HYDRANT	24,100	SY	MATTING FOR EROSION CONTROL
1	EA	*** LINE STOP ASSEMBLY WITH BYPASS (16")	14,190	LF	1/4" HARDWARE CLOTH
542	LF	*** PVC FORCE MAIN SEWER PIPE, ***** (2", SDR 21)	420	LF	*** TEMPORARY PIPE (15")
30	LF	*** DI SEWER PIPE, PC ***** (42", 350)	615	LF	*** TEMPORARY PIPE (18")
118	LF	*** DI FORCE MAIN SEWER PIPE, PC ***** (14", 350)	320	LF	*** TEMPORARY PIPE (30")
58	LF	*** DI FORCE MAIN SEWER PIPE, PC ***** (16", 250)	1,845	CY	STILLING BASINS
2,440	LB	DUCTILE IRON SEWER PIPE FIT- TINGS, ***** (350# WP)	155.5	ACR	SEEDING & MULCHING
2	EA	SANITARY SEWER CLEAN-OUT	94.5	ACR	MOWING
6	EA	4' DIA PRECAST CONC SEWER MAN- HOLE 0-6' DEPTH	1,550	LB	SEED FOR REPAIR SEEDING
			3.25	TON	FERTILIZER FOR REPAIR SEEDING
			3,775	LB	SEED FOR SUPPLEMENTAL SEEDING
			116.5	TON	FERTILIZER TOPDRESSING
			1,110	LF	IMPERVIOUS DIKE
			37	HR	SPECIALIZED HAND MOWING
			64	EA	RESPONSE FOR EROSION CONTROL



			9	EA	GENERIC SIGNAL ITEM RELOCATE EXISTING OPTICALLY ACTIVATED PRIORITY CONTROL SYSTEM
170	CY	CULVERT DIVERSION CHANNEL	4	EA	GENERIC SIGNAL ITEM TAS TYPE 170E INTERFACE
1.03	ACR	STREAMBANK REFORESTATION	1,118	LF	GENERIC SIGNAL ITEM DIRECTIONAL DRILL OUTER-DUCT CONDUIT (5")
18	EA	GENERIC EROSION CONTROL ITEM ROOTWADS	1,200	LF	GENERIC SIGNAL ITEM DIRECTIONAL DRILL POLYETHYLENE CONDUIT (1-1/4")
650	SY	GENERIC EROSION CONTROL ITEM COIR FIBER MAT	532	LF	GENERIC SIGNAL ITEM REMOVE EXISTING TRAFFIC COMMUNICATIONS CABLE
8	EA	PEDESTRIAN SIGNAL HEAD (12", 1 SECTION)	1,040	LF	GENERIC SIGNAL ITEM TRENCHING MULTI-DUCT 1-1/4" (ONE CONDUIT)
34,275	LF	SIGNAL CABLE	420	LF	GENERIC SIGNAL ITEM TRENCHING MULTI-DUCT 1-1/4" (THREE CONDUITS)
200	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)	1,145	LF	GENERIC SIGNAL ITEM TRENCHING MULTI-DUCT 1-1/4" (TWO CONDUITS)
8	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)			
64	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)			
30	EA	BACKPLATE			
12	EA	MODIFY EXISTING VEHICLE SIGNAL HEAD			
34,661	LF	MESSENGER CABLE (1/4")			
8,580	LF	MESSENGER CABLE (3/8")			
350	LF	JACK & BORE			
21,720	LF	TRACER WIRE			
20	LF	TRENCHING (PAVED)			
22,637	LF	TRENCHING (UNPAVED)			
1,540	LF	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 1-1/4" (** CONDUIT) (1)	Lump Sum	LS	PRECAST REINFORCED CONC BOX CULVERT AT STA ***** (639+16.00 -L-)
510	LF	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 1-1/4" (** CONDUIT) (3)	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (107+51.80 -L-)
1,280	LF	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 1-1/4" (** CONDUIT) (4)	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (142+73.20 -L-)
175	EA	JUNCTION BOX (STANDARD SIZE)	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (143+36.98 -L-)
105	EA	JUNCTION BOX (OVER-SIZED)	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (152+55.10 -L-)
62	EA	WOOD POLE	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (17+65.62 -Y47-)
112	EA	GUY ASSEMBLY	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (188+46.10 -L-)
14	EA	1" RISER WITH WEATHERHEAD	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (196+35.00 -L-)
21	EA	2" RISER WITH WEATHERHEAD	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (22+18.58 -Y47-)
23	EA	2" RISER WITH HEAT SHRINK TUBING	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (429+66.55 -L-)
25,900	LF	INDUCTIVE LOOP SAWCUT	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (537+79.05 -L-)
53,555	LF	LEAD-IN CABLE	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (542+79.88 -L-)
12	EA	LOOP EMULATOR DETECTION SYSTEM	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (545+85.76 -L-)
2	EA	MICROWAVE VEHICLE DETECTOR	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (639+76.70 -L-LT)
880	LF	TYPE 2 LEAD-IN CABLE	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (639+76.70 -L-RT)
38,890	LF	COMMUNICATIONS CABLE (**FIBER) (12)	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (1,525.1 TON)
630	LF	COMMUNICATIONS CABLE (**FIBER) (18)	Lump Sum	LS	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT
42,080	LF	COMMUNICATIONS CABLE (**FIBER) (24)	Lump Sum	LS	CLASS A CONCRETE (CULVERT)
1,640	LF	DROP CABLE	Lump Sum	LS	REINFORCING STEEL (CULVERT)
6	EA	AERIAL SPLICE ENCLOSURE	Lump Sum	SY	METHOD A WATERPROOFING
19	EA	INTERCONNECT CENTER	Lump Sum	LS	ELECTRICAL CONDUIT SYSTEM, STA ***** (143+36.98 -L-)
21	EA	FIBER-OPTIC TRANSCEIVER	Lump Sum	LS	ELECTRICAL CONDUIT SYSTEM, STA ***** (196+35.00 -L-)
94	EA	DELINEATOR MARKER	1,895.1	CY	GENERIC CULVERT ITEM CLASS AA CONCRETE
1	EA	FURNISH FIBER-OPTIC RESTORA- TION KIT	414,186	LB	
1	EA	FURNISH FIBER-OPTIC TRANSCEIV- ER	16.17	SY	
4	EA	METAL STRAIN SIGNAL POLE	Lump Sum	LS	
57	EA	SIGNAL SUPPORT MAST ARM WITH METAL POLE	Lump Sum	LS	
61	EA	METAL SIGNAL POLE FOUNDATION	Lump Sum	LS	
1	EA	SIGNAL PEDESTAL WITH FOUNDA- TION	621.9	CY	
4	EA	METAL STRAIN POLE DESIGN			
10	EA	MAST ARM WITH METAL POLE DE- SIGN			
39	EA	SIGN FOR SIGNALS			
4	EA	LED BLANKOUT SIGN			
14	EA	SIGNAL CABINET FOUNDATION			
7	EA	CABINET BASE ADAPTER			
7	EA	CONTROLLER WITH CABINET (TYPE 170E, BASE MOUNTED)	Lump Sum	LS	GENERIC RETAINING WALL ITEM SOIL NAIL RETAINING WALL @ STA. 627+08.40-L-
228	EA	DETECTOR CHANNEL (TYPE 170)			
8	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)			
146	EA	DETECTOR CHANNEL (TYPE 2070L)			
1	EA	CENTRAL COMPUTER			
1	EA	NOTEBOOK COMPUTER			
1	EA	PRINTER			
4	EA	METAL POLE FOUNDATION REMOVAL			
4	EA	METAL POLE REMOVAL			
22	EA	GENERIC SIGNAL ITEM CABLE TRANSFERS			
6	EA	GENERIC SIGNAL ITEM OPTICALLY ACTIVATED PRIORITY CONTROL SYSTEM			

**CULVERT ITEMS**

**WALL ITEMS**

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030318 008

CONTRACT ID : C200676 8.2473003

DIV OFFICE GREENSBORO

LENGTH = 0.130 MI

COUNTY : ALAMANCE

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 10.0% COMPLETION DATE : NOV 15 2003

BRIDGE OVER TRAVIS CREEK & APPROACHES ON SR-1504.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION	8	EA	RESPONSE FOR EROSION CONTROL
Lump Sum	LS	CONSTRUCTION SURVEYING			
Lump Sum	LS	GRADING			
1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING			
20	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS			
68	LF	15" RC PIPE CULVERTS, CLASS III			
68	LF	18" RC PIPE CULVERTS, CLASS III			
24	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	30.5	LF	
310	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B			
210	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	10	LF	
450	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5A	1	EA	
53	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	182	LF	
9	EA	RIGHT OF WAY MARKERS	55.6	CY	
0.5	CY	PIPE COLLARS			
0.15	CY	PIPE PLUGS			
3	EA	MASONRY DRAINAGE STRUCTURES	11,858	LB	
3	EA	FRAME WITH TWO GRATES, STD 840.29	1,095	LB	
500	LF	SHOULDER BERM GUTTER	320	LF	
262.5	LF	STEEL BM GUARDRAIL	165.21	LF	
200	LF	STEEL BM GUARDRAIL, SHOP CURVED	305	TON	
5	EA	ADDITIONAL GUARDRAIL POSTS	340	SY	
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III			
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	1,156.46	LF	
50	TON	PLAIN RIP RAP, CLASS II			
90	TON	PLAIN RIP RAP, CLASS B			
490	SY	FILTER FABRIC FOR DRAINAGE			
315	SF	WORK ZONE SIGNS (STATIONARY)			
94	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)			
25	EA	DRUMS			
25	EA	CONES			
78	LF	BARRICADES (TYPE III)			
8,775	LF	PAINT PAVEMENT MARKING LINES (4")			
205	LF	TEMPORARY SILT FENCE			
75	TON	STONE FOR EROSION CONTROL, CLASS A			
305	TON	STONE FOR EROSION CONTROL, CLASS B			
150	TON	SEDIMENT CONTROL STONE			
1.5	ACR	TEMPORARY MULCHING			
50	LB	SEED FOR TEMPORARY SEEDING			
0.25	TON	FERTILIZER FOR TEMPORARY SEEDING			
20	LF	TEMPORARY SLOPE DRAINS			
1	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS			
650	CY	SILT EXCAVATION			
300	SY	SYNTHETIC ROVING			
300	SY	MATTING FOR EROSION CONTROL			
60	LF	1/4" HARDWARE CLOTH			
2	EA	SPECIAL STILLING BASINS			
1.5	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			

STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (22+10.50-L-)			
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (22+10.50-L-)			
30.5	LF	**1.**" DIA DRILLED PIERS IN SOIL (3'-6")			
10	LF	**1.**" DIA DRILLED PIERS NOT IN SOIL (3'-6")			
1	EA	CROSSHOLE SONIC LOGGING			
182	LF	CSL TUBES			
55.6	CY	CLASS A CONCRETE (BRIDGE)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (22+10.50-L-)			
11,858	LB	REINFORCING STEEL (BRIDGE)			
1,095	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)			
320	LF	HP12X53 STEEL PILES			
165.21	LF	CONCRETE BARRIER RAIL			
305	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)			
340	SY	FILTER FABRIC FOR DRAINAGE			
Lump Sum	LS	ELASTOMERIC BEARINGS			
1,156.46	LF	3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS			
Lump Sum	LS	GENERIC STRUCTURE ITEM UNCLASSIFIED STRUCTURE EXCAVATION			



			150	KG	SEED FOR SUPPLEMENTAL SEEDING
			8.25	MTN	FERTILIZER TOPDRESSING
			3	HR	SPECIALIZED HAND MOWING
4	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP	16	EA	RESPONSE FOR EROSION CONTROL
4	EA	300MM GATE VALVE & VALVE BOX, *****MPA WP (1.38MPA WP)	555	M	SIGNAL CABLE
3	EA	***MM BUTTERFLY VALVE & VALVE BOX (400MM)	18	EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)
1	EA	*** X ***MM TAPPING SLEEVE, VALVE & VALVE BOX, *****MPA WP (150MM X 150MM, 1.38MPA WP)	4	EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)
2	EA	*** X ***MM TAPPING SADDLE (200MM X 20MM)	366	M	MESSENGER CABLE (9.52MM)
1	EA	50MM BLOW OFF ASSEMBLY	565	M	TRACER WIRE
15	EA	RELOCATE EXISTING WATER METER	478	M	TRENCHING (UNPAVED)
3	EA	RELOCATE EXISTING FIRE HYDRANT	110	M	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 31.75MM (** CONDUIT) (1)
263	M	200MM PVC SEWER PIPE, SDR 35	14	M	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 31.75MM (** CONDUIT) (2)
1,949	KG	DUCTILE IRON SEWER PIPE FITTINGS, 1.72MPA MIN WP	12	EA	JUNCTION BOX (STANDARD SIZE)
602	M	GENERIC UTILITY ITEM 300MM DI FORCE MAIN SEWER PIPE, PC 2.41MPA	11	EA	JUNCTION BOX (OVER-SIZED)
5	EA	1200MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH	1	EA	WOOD POLE
4	M	PRECAST CONC MANHOLE WALL, *****MM DIA, OVER 1.8M HT (1200MM)	4	EA	GUY ASSEMBLY
82	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (150MM, DI WATER)	1	EA	25MM RISER WITH WEATHERHEAD
142	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (200MM, DI WATER)	5	EA	50MM RISER WITH WEATHERHEAD
225	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (200MM, TC SEWER)	566	M	INDUCTIVE LOOP SAWCUT
234	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (200MM, VC SEWER)	1,036	M	LEAD-IN CABLE
560	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (300MM, DI SEWER)	685	M	COMMUNICATIONS CABLE (**FIBER) (12)
192	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (400MM, DI WATER)	2	EA	INTERCONNECT CENTER
6	EA	BREAK DOWN, PLUG, & FILL ABANDONED UTILITY MANHOLE	2	EA	FIBER-OPTIC TRANSCEIVER
1	EA	BREAK DOWN & REBUILD EXISTING MANHOLE	11	EA	DELINEATOR MARKER
56	M	***MM STEEL ENCASEMENT PIPE, *****MM THICK, BY OPEN CUT (600MM, 8MM THICK)	8	EA	METAL STRAIN SIGNAL POLE
18	M	***MM STEEL ENCASEMENT PIPE, *****MM THICK, BY OPEN CUT (750MM, 10.50MM THICK)	8	EA	METAL SIGNAL POLE FOUNDATION
2	EA	GENERIC UTILITY ITEM PRECAST CONCRETE UTILITY VAULT	2	EA	SIGNAL CABINET FOUNDATION
80	M	GENERIC UTILITY ITEM 150MM DI RESTRAINED JOINT WATER PIPE, PC 2.41MPA	2	EA	CABINET BASE ADAPTER
32	M	GENERIC UTILITY ITEM 200MM DI RESTRAINED JOINT WATER PIPE, PC 2.41MPA	2	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
230	M	GENERIC UTILITY ITEM 400MM DI RESTRAINED JOINT WATER PIPE, PC 1.72MPA	14	EA	DETECTOR CHANNEL (TYPE 2070L)
12	M	GENERIC UTILITY ITEM 600MM CS NESTABLE CASING PIPE, 14 GAGE			
6	M	GENERIC UTILITY ITEM 750MM CS NESTABLE CASING PIPE, 14 GAGE			
685	M	TEMPORARY SILT FENCE			
230	MTN	STONE FOR EROSION CONTROL, CLASS A			
1,300	MTN	STONE FOR EROSION CONTROL, CLASS B			
545	MTN	SEDIMENT CONTROL STONE			
3.5	HA	TEMPORARY MULCHING			
225	KG	SEED FOR TEMPORARY SEEDING			
1.75	MTN	FERTILIZER FOR TEMPORARY SEEDING			
30	M	TEMPORARY SLOPE DRAINS			
3	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS			
3,555	M3	SILT EXCAVATION			
695	M2	SYNTHETIC ROVING			
695	M2	MATTING FOR EROSION CONTROL			
126	M	6.4MM HARDWARE CLOTH			
5	HA	SEEDING & MULCHING			
2	HA	MOWING			
50	KG	SEED FOR REPAIR SEEDING			
0.25	MTN	FERTILIZER FOR REPAIR SEEDING			

**STRUCTURE ITEMS**

39.1	M	***MM DIA DRILLED PIERS IN SOIL (1220MM)
29.4	M	***MM DIA DRILLED PIERS NOT IN SOIL (1220MM)
6	EA	SID INSPECTION
6	EA	SPT TESTING
1	EA	CROSSHOLE SONIC LOGGING
347	M	CSL TUBES
983.6	M2	REINFORCED CONCRETE DECK SLAB
892.6	M2	GROOVING BRIDGE FLOORS
179.1	M3	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (14+38.577 -L-)
36,054	KG	REINFORCING STEEL (BRIDGE)
3,651	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
127,900	LS	APPROX ..... KG STRUCTURAL STEEL
140	M	HP310X79 STEEL PILES
66,064	M	THREE BAR METAL RAIL
68.45	M	CONCRETE BARRIER RAIL
544	M2	100MM SLOPE PROTECTION
Lump Sum	LS	POT BEARINGS
Lump Sum	LS	ELECTRICAL CONDUIT SYSTEM, STA ***** (14+38.577 -L-)
Lump Sum	LS	GENERIC STRUCTURE ITEM CHAIN LINK FENCE FOR PROTECTION OF RAILROAD

## STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L030318 010

CONTRACT ID : C200697 9.8091883

DIV OFFICE WINSTON-SALEM

LENGTH = 4.050 MI

COUNTY : FORSYTH

MILLING, RESURFACING, ROUND-ABOUT CONSTRUCTION.

MBE GOAL 8.0% WBE 4.0% COMPLETION DATE : SEP 30 2003

US-421 FROM SR-1171 (CONCORD CHURCH ROAD) TO THE YADKIN COUNTY LINE.

## ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
365	SY	GENERIC MISCELLANEOUS ITEM STREET PRINTING
Lump Sum	LS	GRADING
0.5	ACR	SUPPLEMENTARY CLEARING & GRUB- BING
25	CY	UNDERCUT EXCAVATION
5.65	SMI	GENERIC GRADING ITEM SELECTIVE CLEARING
15	TON	INCIDENTAL STONE BASE
324	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")
4,978	SY	MILLING ASPHALT PAVEMENT, **** TO ***** DEPTH (0" TO 1-1/2")
250	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C
400	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
15,771	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
30	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
1,025	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
78	LF	CONCRETE EXPRESSWAY GUTTER
270	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
230	LF	GENERIC PAVING ITEM INTERMEDIATE CONCRETE VALLEY GUTTER
1	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
122	SF	WORK ZONE SIGNS (STATIONARY)
400	SF	WORK ZONE SIGNS (PORTABLE)
1	EA	FLASHING ARROW PANELS, TYPE C
3	EA	WARNING FLAG SETS
50	EA	DRUMS
30	EA	CONES
2,880	HR	FLAGGER
2	EA	WARNING LIGHTS (TYPE B)
1	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (60 MPH)
93,977	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
18,037	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
2,107	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
4	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
3,818	LF	PAINT PAVEMENT MARKING LINES (4")
260	LF	PAINT PAVEMENT MARKING LINES (8")
2,010	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
18	LF	REMOVAL OF PAVEMENT MARKING LINES (24")
36	EA	GENERIC PAVEMENT MARKING ITEM PAINT & THERMO YIELD LINE SYMBOLS
621	EA	PERMANENT RAISED PAVEMENT MARKERS
1	ACR	SEEDING & MULCHING

## STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L030318 011

CONTRACT ID : C200466 6.804859

DIV OFFICE ABLEMARLE

LENGTH = 0.526 MI

COUNTY : MECKLENBURG

WIDENING, GRADING, DRAINAGE, PAVING &amp; CULVERTS.

MBE GOAL 8.0% WBE 5.0% COMPLETION DATE : DEC 31 2004

SR-2136 (GILEAD RD) FROM WEST OF SR-2139 (RANSON RD) TO SR-2138 (MCCOY RD).

ROADWAY ITEMS					
			50	EA	DRUMS
			75	EA	CONES
			120	LF	BARRICADES (TYPE III)
			1,440	HR	FLAGGER
Lump Sum	LS	MOBILIZATION	150	LF	GENERIC TRAFFIC CONTROL ITEM
Lump Sum	LS	CONSTRUCTION SURVEYING			WATER FILLED BARRIER
Lump Sum	LS	CLEARING & GRUBBING - ACRE(S)	150	LF	GENERIC TRAFFIC CONTROL ITEM
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING			WATER FILLED BARRIER RESET
24,700	CY	UNCLASSIFIED EXCAVATION	150	EA	TEMPORARY RAISED PAVEMENT
300	CY	UNDERCUT EXCAVATION			MARKERS
28,900	LF	WICK DRAINS	5,580	LF	THERMOPLASTIC PAVEMENT MARKING
5,200	CY	BORROW EXCAVATION			LINES (4", 120 MILS)
4	EA	EMBANKMENT SETTLEMENT GAUGES	100	LF	THERMOPLASTIC PAVEMENT MARKING
190	CY	DRAINAGE DITCH EXCAVATION			LINES (8", 90 MILS)
5,800	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT	100	LF	THERMOPLASTIC PAVEMENT MARKING
3,150	SY	GENERIC GRADING ITEM FABRIC FOR EMBANKMENT STABILIZATION			LINES (8", 120 MILS)
5,100	TON	GENERIC GRADING ITEM SELECT MATERIAL, CLASS III	100	LF	THERMOPLASTIC PAVEMENT MARKING
120	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS			LINES (24", 120 MILS)
106	LF	15" RC PIPE CULVERTS, CLASS III	17	EA	THERMOPLASTIC PAVEMENT MARKING
408	LF	18" RC PIPE CULVERTS, CLASS III			SYMBOL (90 MILS)
432	LF	24" RC PIPE CULVERTS, CLASS III	11,160	LF	PAINT PAVEMENT MARKING LINES
185	LF	36" RC PIPE CULVERTS, CLASS III			(4")
724	LF	PIPE REMOVAL	200	LF	PAINT PAVEMENT MARKING LINES
Lump Sum	LS	FINE GRADING			(8")
250	TON	INCIDENTAL STONE BASE	34	EA	PAINT PAVEMENT MARKING SYMBOL
600	SY	INCIDENTAL MILLING			PERMANENT RAISED PAVEMENT
3,500	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C	150	EA	MARKERS
2,400	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	46	TON	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS *****
2,500	TON	ASPHALT CONC SURFACE COURSE, TYPE S12.5C			(II)
270	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	46	TON	BEDDING MATERIAL, UTILITIES CLASS *****
140	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22			(II)
166	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	13	EA	GENERIC UTILITY ITEM
1	EA	METAL FUNNELS			RESTRAINED JOINT
24	LF	12" FUNNEL DRAIN PIPE			SPLIT COUPLINGS
2	EA	12" FUNNEL DRAIN PIPE ELBOWS	170.6	LF	GENERIC UTILITY ITEM
1	CY	PIPE COLLARS			16" DI RESTRAINED JOINT WATER
14	EA	MASONRY DRAINAGE STRUCTURES			PIPE PC 250
8	EA	FRAME WITH TWO GRATES, STD 840.**** (840.24)	3,228	LB	GENERIC UTILITY ITEM
4	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)			DI RESTRAINED JOINT WATER PIPE
2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)			FITTINGS
650	LF	2'-6" CONCRETE CURB & GUTTER	1,500	LF	TEMPORARY SILT FENCE
400	LF	SHOULDER BERM GUTTER			STONE FOR EROSION CONTROL,
100	SY	4" CONCRETE SIDEWALK	150	TON	CLASS B
68	SY	CONCRETE WHEELCHAIR RAMPS	30	TON	SEDIMENT CONTROL STONE
2	EA	ADJUSTMENT OF MANHOLES	1	ACR	TEMPORARY MULCHING
2	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	100	LB	SEED FOR TEMPORARY SEEDING
1,150	LF	STEEL BM GUARDRAIL			FERTILIZER FOR TEMPORARY SEEDING
5	EA	ADDITIONAL GUARDRAIL POSTS	2	TON	
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350			TEMPORARY SLOPE DRAINS
120	TON	PLAIN RIP RAP, CLASS B	4	EA	INLET PROTECTION AT TEMPORARY
33	SY	FILTER FABRIC FOR DRAINAGE			SLOPE DRAINS
723	SF	WORK ZONE SIGNS (STATIONARY)	400	CY	SILT EXCAVATION
328	SF	WORK ZONE SIGNS (PORTABLE)	500	SY	MATTING FOR EROSION CONTROL
110	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)			SEEDING & MULCHING
18	EA	WARNING FLAG SETS	0.14	ACR	STREAMBANK REFORESTATION
			610	LF	SIGNAL CABLE
			8	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
			1	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
			1,510	LF	MESSENGER CABLE (1/4")
			420	LF	MESSENGER CABLE (3/8")
			825	LF	TRACER WIRE
			10	LF	TRENCHING (PAVED)
			1,060	LF	TRENCHING (UNPAVED)
			155	LF	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 1-1/4" (** CONDUIT)
					(1")
			5	EA	JUNCTION BOX (STANDARD SIZE)
			4	EA	JUNCTION BOX (OVER-SIZED)
			5	EA	GUY ASSEMBLY
			2	EA	2" RISER WITH HEAT SHRINK TUBING
			990	LF	INDUCTIVE LOOP SAWCUT
			1,960	LF	LEAD-IN CABLE
			2,655	LF	COMMUNICATIONS CABLE (**FIBER)
					(12)
			2	EA	INTERCONNECT CENTER

1	EA	FIBER-OPTIC TRANSCEIVER
4	EA	DELINEATOR MARKER
4	EA	METAL STRAIN SIGNAL POLE
4	EA	METAL SIGNAL POLE FOUNDATION
1	EA	SIGNAL CABINET FOUNDATION
1	EA	CONTROLLER WITH CABINET (NEMA TS-2, TYPE 2 CONTROLLER, TYPE 1 CABINET, BASE MOUNTED)
9	EA	DETECTOR CHANNEL (NEMA TS-2)

### CULVERT ITEMS

1,440	LF	HP14X73 STEEL PILES
76	TON	PLAIN RIP RAP, CLASS ** ( II )
Lump Sum	LS	GENERIC CULVERT ITEM PRECAST REINFORCED CONCRETE THREE-SIDED CULVERT @ STA 20+ 00.00 -L-
4,480	SF	GENERIC CULVERT ITEM STEEL SHEET PILES
2	EA	GENERIC STRUCTURE ITEM DYNAMIC LOAD TEST

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030318 012

CONTRACT ID : C200694

8.2710603

DIV OFFICE NORTH WILKESBORO

LENGTH = 0.137 KM

COUNTY : ASHE

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 8.0% COMPLETION DATE : AUG 15 2004

BRIDGE OVER BUFFALO CREEK & APPROACHES ON SR-1130.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	CONSTRUCTION SURVEYING
14	M	GENERIC MISCELLANEOUS ITEM SHAFT EXCAV IN SOIL
22.4	M	GENERIC MISCELLANEOUS ITEM SHAFT EXCAV NOT IN SOIL
50	M2	GENERIC MISCELLANEOUS ITEM ROCK PLATING
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (10+59.500 -L3-)
Lump Sum	LS	GRADING
0.4	HA	SUPPLEMENTARY CLEARING & GRUB- BING
4.075	M3	UNDERCUT EXCAVATION
90	M3	DRAINAGE DITCH EXCAVATION
4.140	M3	SELECT GRANULAR MATERIAL
500	M2	FABRIC FOR SOIL STABILIZATION
58	MTN	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRS
8.4	M	375MM SIDE DRAIN PIPE
63.6	M	450MM RC PIPE CULVERTS, CLASS III
12	M	750MM RC PIPE CULVERTS, CLASS III
21.6	M	900MM RC PIPE CULVERTS, CLASS III
4.8	M	400MM BIT COAT CS PIPE CUL- VERTS, TYPE B 1.63MM THICK
8.4	M	800MM BIT COAT CS PIPE CUL- VERTS, TYPE B 2.01MM THICK
26.4	M	900MM BIT COAT CS PIPE CUL- VERTS, TYPE B 2.01MM THICK
36	M	1000MM BIT COAT CS PIPE CUL- VERTS, TYPE B 2.77MM THICK
2	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
4	EA	800MM BIT COAT CS PIPE ELBOWS, TYPE B 2.01MM THICK
52	M	PIPE REMOVAL
200	MTN	INCIDENTAL STONE BASE
900	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B
660	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5A
82	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
15	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR
36	EA	RIGHT OF WAY MARKERS
230	M3	SUBDRAIN EXCAVATION
170	M3	SUBDRAIN FINE AGGREGATE
400	M	150MM PERFORATED SUBDRAIN PIPE
40	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS
3	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
6	M	150MM OUTLET PIPE (SUBDRAINS)
5.5	M3	ENDWALLS
0.01	M3	PIPE PLUGS
6	EA	MASONRY DRAINAGE STRUCTURES
0.18	M	MASONRY DRAINAGE STRUCTURES
2	EA	FRAME WITH TWO GRATES, STD 840.24
3	EA	FRAME WITH TWO GRATES, STD 840.29
245	M	SHOULDER BERM GUTTER
45	M2	100MM CONCRETE PAVED DITCH
285.75	M	STEEL BM GUARDRAIL
45.72	M	STEEL BM GUARDRAIL, SHOP CURVED
4	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS
5	EA	ADDITIONAL GUARDRAIL POSTS
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III

7	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
18.75	M	REMOVE EXISTING GUARDRAIL
380	M	** STRAND BARBED WIRE FENCE WITH POSTS (5)
2	EA	SINGLE GATES, ****MM HIGH, ****MM WIDE, ****MM OPENING (1400MM HIGH, 3600MM WIDE, 3600MM OPENING)
1	EA	SINGLE GATES, ****MM HIGH, ****MM WIDE, ****MM OPENING (1400MM HIGH, 4800MM WIDE, 4800MM OPENING)
155	MTN	PLAIN RIP RAP, CLASS I
115	MTN	PLAIN RIP RAP, CLASS II
180	MTN	PLAIN RIP RAP, CLASS B
1,180	M2	FILTER FABRIC FOR DRAINAGE
20	M2	WORK ZONE SIGNS (STATIONARY)
9	M2	WORK ZONE SIGNS (PORTABLE)
3	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)
25	EA	DRUMS
25	EA	CONES
72	M	BARRICADES (TYPE III)
900	HR	FLAGGER
2,668	M	GENERIC TRAFFIC CONTROL ITEM POLYUREA PAVEMENT MARKING LINES (100MM)
5,336	M	PAINT PAVEMENT MARKING LINES (100MM)
2,001	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)
5	EA	SNOWPLOWABLE RAISED PAVEMENT MARKERS
55	M	TEMPORARY SILT FENCE
140	MTN	STONE FOR EROSION CONTROL, CLASS A
410	MTN	STONE FOR EROSION CONTROL, CLASS B
300	MTN	SEDIMENT CONTROL STONE
2.5	HA	TEMPORARY MULCHING
100	KG	SEED FOR TEMPORARY SEEDING
0.75	MTN	FERTILIZER FOR TEMPORARY SEED- ING
1,070	M3	SILT EXCAVATION
105	M2	SYNTHETIC ROVING
690	M2	MATTING FOR EROSION CONTROL
5	M2	PERMANENT SOIL REINFORCEMENT MAT
70	M	6.4MM HARDWARE CLOTH
6	EA	SPECIAL STILLING BASINS
2.5	HA	SEEDING & MULCHING
1.5	HA	MOWING
50	KG	SEED FOR REPAIR SEEDING
0.25	MTN	FERTILIZER FOR REPAIR SEEDING
75	KG	SEED FOR SUPPLEMENTAL SEEDING
3.75	MTN	FERTILIZER TOPDRESSING
3	HR	SPECIALIZED HAND MOWING
8	EA	RESPONSE FOR EROSION CONTROL
0.05	HA	STREAMBANK REFORESTATION

STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (10+56.500 -L3-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURES AT STATION ***** (10+59.500-L3-)
21.9	M	****MM DIA DRILLED PIERS IN SOIL (1066MM)
7	M	****MM DIA DRILLED PIERS NOT IN SOIL (1066MM)



16.7	M	PERMANENT STEEL CASING FOR *****MM DRILLED PIER (1066MM)
1	EA	CROSSHOLE SONIC LOGGING
125.9	M	CSL TUBES
Lump Sum	LS	UNCLASSIFIED STRUCTURE EXCAVA- TION AT STATION ***** (10+59.500-L3-)
37.7	M3	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (10+59.500-L3-)
5,986	KG	REINFORCING STEEL (BRIDGE)
1,115	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
77	M	HP310X79 STEEL PILES
13	EA	STEEL PILE POINTS
62.502	M	CONCRETE BARRIER RAIL
226	MTN	PLAIN RIP RAP CLASS II (600MM THICK)
231	M2	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	ELASTOMERIC BEARINGS
343.761	M	914MM X 533MM PRESTRESSED CONC CORED SLABS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030318 013

CONTRACT ID : C200687 8.2741603

DIV OFFICE NORTH WILKESBORO

LENGTH = 0.306 MI

COUNTY : SURRY

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 9.0% COMPLETION DATE : DEC 31 2004

BRIDGE OVER FISHER RIVER & APPROACHES ON SR-1341.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	CONSTRUCTION SURVEYING
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (18+82.50)
Lump Sum	LS	GRADING
1	ACR	SUPPLEMENTARY CLEARING & GRUB- BING
250	CY	UNDERCUT EXCAVATION
560	CY	DRAINAGE DITCH EXCAVATION
30	TON	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRS
32	LF	18" SIDE DRAIN PIPE
36	LF	24" SIDE DRAIN PIPE
16	LF	15" RC PIPE CULVERTS, CLASS III
80	LF	18" RC PIPE CULVERTS, CLASS III
84	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
32	LF	PIPE REMOVAL
280	TON	AGGREGATE BASE COURSE
60	TON	INCIDENTAL STONE BASE
830	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
460	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5A
66	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
7	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	CY	PIPE COLLARS
1	CY	PIPE PLUGS
3	EA	MASONRY DRAINAGE STRUCTURES
3	EA	FRAME WITH TWO GRATES, STD 840.29
230	LF	SHOULDER BERM GUTTER
750	LF	STEEL BM GUARDRAIL
87.5	LF	STEEL BM GUARDRAIL, SHOP CURVED
5	EA	ADDITIONAL GUARDRAIL POSTS
2	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
2	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
2	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY
100	LF	GENERIC FENCING ITEM TEMPORARY 4 STRAND BARBED WIRE FENCE WITH POSTS
473	TON	PLAIN RIP RAP, CLASS I
38	TON	PLAIN RIP RAP, CLASS B
1,212	SY	FILTER FABRIC FOR DRAINAGE
84	SF	WORK ZONE SIGNS (STATIONARY)
96	SF	WORK ZONE SIGNS (PORTABLE)
56	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
90	EA	DRUMS
90	EA	CONES
96	LF	BARRICADES (TYPE III)
120	MD	FLAGGER
18,700	LF	PAINT PAVEMENT MARKING LINES (4")
385	LF	TEMPORARY SILT FENCE

75	TON	STONE FOR EROSION CONTROL, CLASS A
615	TON	STONE FOR EROSION CONTROL, CLASS B
160	TON	SEDIMENT CONTROL STONE
4	ACR	TEMPORARY MULCHING
150	LB	SEED FOR TEMPORARY SEEDING
0.5	TON	FERTILIZER FOR TEMPORARY SEED- ING
160	LF	TEMPORARY SLOPE DRAINS
4	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
1,270	CY	SILT EXCAVATION
562	SY	SYNTHETIC ROVING
985	SY	MATTING FOR EROSION CONTROL
60	LF	1/4" HARDWARE CLOTH
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
2	HR	SPECIALIZED HAND MOWING
8	EA	RESPONSE FOR EROSION CONTROL
0.5	ACR	REFORESTATION

STRUCTURE ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (18.82.50-L-)
4,131	SF	REINFORCED CONCRETE DECK SLAB
3,310	SF	GROOVING BRIDGE FLOORS
54	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (18.82.50-L-)
8,208	LB	REINFORCING STEEL (BRIDGE)
130,900	LS	APPROX ..... LBS STRUCTURAL STEEL
500	LF	HP12X53 STEEL PILES
265,833	LF	CONCRETE BARRIER RAIL
439	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)
463	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****L030318 014****CONTRACT ID : C200705 8.1980902****DIV OFFICE SYLVA****LENGTH = 19.189 MI****COUNTY : RUTHERFORD, POLK****MEDIAN GUARDRAIL****DBE GOAL 2.0% COMPLETION DATE : SEE SPECIAL PROVISIONS****US-74 FROM I-26 TO US-74 ALT IN RUTHERFORD CO.****ROADWAY ITEMS**

Lump Sum	LS	MOBILIZATION
80	LF	SHOULDER BERM GUTTER
76,000	LF	STEEL BM GUARDRAIL
10	EA	ADDITIONAL GUARDRAIL POSTS
22	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
5	EA	GUARDRAIL ANCHOR UNITS, TYPE III
15	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
32	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350
3,575	LF	REMOVE EXISTING GUARDRAIL
58,850	LF	DOUBLE FACED CABLE GUIDERAIL
70	EA	CABLE GUIDERAIL ANCHOR UNITS
4,000	LF	GENERIC GUARDRAIL ITEM REPLACE EXT GUARDRAIL OFFSET BLOCKS
546	SF	WORK ZONE SIGNS (PORTABLE)
7	EA	FLASHING ARROW PANELS, TYPE C
2	EA	CHANGEABLE MESSAGE SIGNS
248	EA	DRUMS
3	EA	TRUCK MOUNTED IMPACT ATTENUATOR (60 MPH)
116	ACR	MOWING
116	HR	SPECIALIZED HAND MOWING
6.1	ACR	GENERIC EROSION CONTROL ITEM SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (CENTIPEDE/HARD FESCUE)
6.2	ACR	GENERIC EROSION CONTROL ITEM SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (HARD FESCUE/BLUEGRASS)

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030415 001

CONTRACT ID : C200693 8.T351212

DIV OFFICE DURHAM

LENGTH = 3.416 KM

COUNTY : DURHAM

WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURES.

DBE GOAL 11.0% COMPLETION DATE : DEC 31 2006

I-85 FROM EAST OF SR-1401 (COLE MILL RD) TO WEST OF BROAD STREET.

ROADWAY ITEMS

			3	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
Lump Sum	LS	MOBILIZATION	15	M	GENERIC PIPE ITEM
Lump Sum	LS	CONSTRUCTION SURVEYING			600MM RC PIPE IN SOIL
Lump Sum	LS	GENERIC MISCELLANEOUS ITEM CRITICAL PATH METHOD SCHEDULE	15	M	GENERIC PIPE ITEM
Lump Sum	LS	GENERIC MISCELLANEOUS ITEM DESIGN & CONSTRUCTION OF OFF SITE DETOUR IMPROVEMENTS	1,673.5	M	600MM RC PIPE NOT IN SOIL
			1	EA	PIPE REMOVAL
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)	1,670	M2	PIPE CLEAN-OUT
			Lump Sum	LS	150MM SLOPE PROTECTION
0.8	HA	SUPPLEMENTARY CLEARING & GRUBBING	81,300	M2	FINE GRADING
					LIME TREATED SOIL (SLURRY METHOD)
285,000	M3	UNCLASSIFIED EXCAVATION	900	MTN	LIME FOR LIME TREATED SOIL
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** ( 23+153.209-LREV-)	885	MTN	#57 STONE
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (1+400.000 - EB #1 ONLY)	1,000	MTN	STABILIZER AGGREGATE
			69,700	MTN	AGGREGATE BASE COURSE
7,500	M3	UNDERCUT EXCAVATION	54,200	M2	***MM SOIL CEMENT BASE (180MM)
17,000	MTN	CLASS IV SUBGRADE STABILIZATION	1,630	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE
100,500	M3	BORROW EXCAVATION	400	MTN	AGGREGATE FOR SOIL CEMENT BASE
53,034	M3	DRAINAGE DITCH EXCAVATION	92,260	L	ASPHALT CURING SEAL
230	M	BERM DITCH CONSTRUCTION	100	MTN	INCIDENTAL STONE BASE
128,500	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT	14,300	M2	MILLING ASPHALT PAVEMENT, **MM DEPTH (100MM)
63,000	M2	REMOVAL OF EXISTING CONCRETE PAVEMENT	30,000	M2	INCIDENTAL MILLING
30	HR	PROOF ROLLING	6,150	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B
2,840	M3	SELECT GRANULAR MATERIAL	38,000	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
25,000	M2	FABRIC FOR SOIL STABILIZATION	2,450	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
4,640	M2	TEMPORARY SHORING	33,600	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
2,420	M2	TEMPORARY SHORING - BARRIER SUPPORTED	4,125	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0D
2,000	M2	GENERIC GRADING ITEM PRIMARY GEOGRID REINFORCEMENT	12,000	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
1,175	M2	GENERIC GRADING ITEM SECONDARY GEOGRID REINFORCEMENT	31,750	MTN	ASPHALT CONC SURFACE COURSE, TYPE S12.5C
2,700	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	3,350	MTN	ASPHALT CONC SURFACE COURSE, TYPE S12.5D
6	M	300MM RC PIPE CULVERTS, CLASS III	5,066	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
3,086.5	M	375MM RC PIPE CULVERTS, CLASS III	1,941	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
1,303.2	M	450MM RC PIPE CULVERTS, CLASS III	185	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 76-22
1,249.6	M	600MM RC PIPE CULVERTS, CLASS III	23,100	MTN	PERMEABLE ASPHALT DRAINAGE COURSE, TYPE P-78M
939.6	M	750MM RC PIPE CULVERTS, CLASS III	250	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR
824.4	M	900MM RC PIPE CULVERTS, CLASS III	116,650	M2	***MM PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (340MM)
174	M	1050MM RC PIPE CULVERTS, CLASS III	14,750	M2	***MM PORT CEM CONC PAVEMENT, RAMPS (WITH DOWELS) (340MM)
302.4	M	1200MM RC PIPE CULVERTS, CLASS III	4,750	M2	***MM PORT CEM CONC PAVEMENT, MISCELLANEOUS (WITHOUT DOWELS) (340MM)
1	EA	*** X *** X ***MM RC PIPE TEES CLASS III (375MM X 375MM X 375MM)	Lump Sum	LS	SURFACE TESTING CONCRETE PAVEMENT
32.4	M	***MM CS PIPE CULVERTS, ***** THICK (1050MM, 2.77MM)	31,750	M2	CONCRETE SHOULDERS ADJACENT TO ***MM PAVEMENT (340MM)
129.6	M	400MM CS PIPE CULVERTS, 1.63MM THICK	Lump Sum	LS	FIELD LABORATORY RENTAL, PORT CEM CONC PAVEMENT
13.2	M	450MM CS PIPE CULVERTS, 1.63MM THICK	120	EA	RIGHT OF WAY MARKERS
14	EA	***MM CS PIPE ELBOWS, ***** THICK (400MM, 1.63MM)	1,782	M3	SUBDRAIN EXCAVATION
298	M	400MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK	891	M3	SUBDRAIN FINE AGGREGATE
16.8	M	450MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK	2,152.4	M	100MM PERFORATED SUBDRAIN PIPE
26.4	M	600MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK	213	EA	100MM SUBDRAIN PIPE WYES, TEES, & ELBOWS
37	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK	14	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
			28	M	100MM OUTLET PIPE (SUBDRAINS)
			9,012	M	SHOULDER DRAIN

			2	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (III MOD)
9,282	M	100MM SHOULDER DRAIN PIPE	2	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1
310	M	100MM OUTLET PIPE (SHOULDER DRAINS)	13	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
14	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	9	EA	GUARDRAIL ANCHOR UNITS, TYPE III
30	MTN	BLOTTING SAND	27	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
3	EA	TEMPORARY STEEL PLATE COVERS FOR MASONRY DRAINAGE STRUCTURE	175.26	M	REMOVE & RESET EXISTING GUARDRAIL
4.7	M3	ENDWALLS	4,200	M	REMOVE EXISTING GUARDRAIL
6.9	M3	PIPE COLLARS	6,930.39	M	TEMPORARY STEEL BM GUARDRAIL
1.23	M3	PIPE PLUGS	22.86	M	TEMPORARY STEEL BM GUARDRAIL (SHOP CURVED)
88	M3	FLOWABLE FILL	3	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** TEMPORARY (B-77)
264	EA	MASONRY DRAINAGE STRUCTURES	15	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** TEMPORARY (CAT-1)
68.49	M	MASONRY DRAINAGE STRUCTURES	8	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** TEMPORARY (III)
1	EA	FRAME WITH GRATE, STD 840.**** (840.20)	18	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY
1	EA	FRAME WITH GRATE, STD 840.22	4,300	M	CHAIN LINK FENCE, 1200MM FABRIC
125	EA	FRAME WITH TWO GRATES, STD 840.***** (840.20)	1,210	EA	METAL LINE POSTS FOR 1200MM CHAIN LINK FENCE
1	EA	FRAME WITH TWO GRATES, STD 840.***** (840.33)	90	EA	METAL TERMINAL POSTS FOR 1200MM CHAIN LINK FENCE
21	EA	FRAME WITH TWO GRATES, STD 840.16	570	M	GENERIC FENCING ITEM VINYL COATED CHAIN LINK FENCE, 1219MM FABRIC W/ 12.7MM MESH (BARRIER MTD)
62	EA	FRAME WITH TWO GRATES, STD 840.22	85	M	GENERIC FENCING ITEM VINYL COATED CHAIN LINK FENCE, 1219MM FABRIC W/ 12.7MM MESH (GROUND MTD)
1	EA	FRAME WITH TWO GRATES, STD 840.24	170	M	GENERIC FENCING ITEM VINYL COATED CHAIN LINK FENCE, 1219MM FABRIC W/ 12.7MM MESH (GUARDRAIL MTD)
2	EA	FRAME WITH TWO GRATES, STD 840.29	554	MTN	PLAIN RIP RAP, CLASS I
5	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	2,868	MTN	PLAIN RIP RAP, CLASS B
19	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	8,330	M2	FILTER FABRIC FOR DRAINAGE
22	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	8,583	M2	BRICK NOISE WALL
18	EA	FRAME WITH COVER, STD 840.54	8	M3	REINFORCED CONCRETE SIGN FOOTINGS
2	EA	CONCRETE APRON FOR DROP INLETS	3	M3	PLAIN CONCRETE SIGN FOOTINGS
1	EA	***MM SLUICE GATE (550MM)	2,145	KG	SUPPORTS, BREAKAWAY STEEL BEAM
1	EA	GENERIC DRAINAGE ITEM HANGING BAFFLE (ENERGY DISSIPATOR)	3,148	KG	SUPPORTS, SIMPLE STEEL BEAM
200	M	*** X ***MM CONCRETE CURB (200MM x 300MM)	583	M	SUPPORTS, 4.5KG STEEL U-CHANNEL
300	M	450MM CONCRETE CURB & GUTTER	4	EA	SUPPORTS, 3KG STEEL U-CHANNEL
2,200	M	750MM CONCRETE CURB & GUTTER	4	EA	SIGN ERECTION, TYPE D
1,200	M	SHOULDER BERM GUTTER	67	EA	SIGN ERECTION, TYPE E
800	M	CONCRETE EXPRESSWAY GUTTER	14	EA	SIGN ERECTION, TYPE F
3,200	M2	100MM CONCRETE SIDEWALK	17	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)
225	M2	CONCRETE WHEELCHAIR RAMPS	3	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)
450	M2	150MM CONCRETE DRIVEWAY	4	EA	SIGN ERECTION, MILEMARKERS
400	M2	100MM CONCRETE PAVED DITCH	1	EA	RELOCATE SIGN, TYPE ***** (A)
800	M2	75MM CONCRETE ISLAND COVERS	10	EA	RELOCATE SIGN, TYPE ***** (E)
2,000	M2	125MM MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	3	EA	DISPOSAL OF SIGN SYSTEM, OVERHEAD
11	EA	CONCRETE BARRIER TRANSITION SECTION	22	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM
700	M	VARIABLE HEIGHT CONCRETE BARRIER, TYPE ***** (T-2)	85	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
1,830	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	2	EA	DISPOSAL OF SIGN SYSTEM, WOOD
2,670	M	GENERIC PAVING ITEM CONCRETE MEDIAN PLANTER	1	EA	DISPOSAL OF SIGN, D, E OR F
2	EA	ADJUSTMENT OF CATCH BASINS	8	M2	TEMPORARY SIGN, TYPE ***** (A)
2	EA	ADJUSTMENT OF DROP INLETS	117	EA	TEMPORARY RELOCATE SIGN, TYPE ***** (A) GROUND TO GROUND MOUNTED
5	EA	CONVERT EXISTING CATCH BASIN TO DROP INLET	5	EA	TEMPORARY RELOCATE SIGN, TYPE ***** (A) OVERHEAD TO GROUND MOUNTED
2	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX	112	EA	TEMPORARY SIGN COVERS
2	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX WITH MANHOLE COVER	Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN MAINTENANCE TRAINING
3,566.16	M	STEEL BM GUARDRAIL			
118.11	M	STEEL BM GUARDRAIL, SHOP CURVED			
10	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS			
25	EA	ADDITIONAL GUARDRAIL POSTS			
11	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (B-77)			
1	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (B-83)			

			Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "L"		
			Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "M"		
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN BENCH TEST UNIT	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "N"		
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM "DMS-1"	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "O"		
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM "DMS-2"	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "P"		
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM "DMS-3"		300	M2	WORK ZONE SIGNS (STATIONARY)	
				165	M2	WORK ZONE SIGNS (PORTABLE)	
				25	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)	
				6	EA	FLASHING ARROW PANELS, TYPE C	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM DESIGN APPROVAL TESTS		6	EA	CHANGEABLE MESSAGE SIGNS	
				75	EA	WARNING FLAG SETS	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM INTEGRATION		600	EA	DRUMS	
				100	EA	CONES	
				150	M	BARRICADES (TYPE III)	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM NTCIP ACCEPTANCE TESTS		2,220	HR	FLAGGER	
				20	EA	WARNING LIGHTS (TYPE B)	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FACTORY TESTS		20	EA	TEMPORARY CRASH CUSHIONS	
				56	EA	RESET TEMPORARY CRASH CUSHIONS	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FIELD TESTS		2	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (45 MPH)	
				6	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (60 MPH)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "A"		7,700	M	PORTABLE CONCRETE BARRIER	
				1,400	M	PORTABLE CONCRETE BARRIER (ANCHORED)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B"		2,600	M	PORTABLE CONCRETE BARRIER (DRAINAGE)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "C"		33,000	M	RESET PORTABLE CONCRETE BAR- RIER	
				600	M	RESET PORTABLE CONCRETE BAR- RIER (ANCHORED)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "D"		400	M	WATER FILLED BARRIER	
				400	M	RESET WATER FILLED BARRIER	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "E"		300	HR	POLICE	
				50	EA	TUBULAR MARKERS (FIXED)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "DMS-1"		1,400	M	GENERIC TRAFFIC CONTROL ITEM OREGAN STANDARD F-SHAPE POR- TABLE CONC BARRIER	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "E"		3	EA	GENERIC TRAFFIC CONTROL ITEM SOLAR MOBILE FLASHING SIGN	
				3,240	EA	TEMPORARY RAISED PAVEMENT MARKERS	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "I" (NBL)		4,514	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "I" (SBL)		4,699	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "J"		4,481	M	THERMOPLASTIC PAVEMENT MARKING LINES (150MM, 2.3MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "J"		580	M	THERMOPLASTIC PAVEMENT MARKING LINES (150MM, 3.1MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "M"		389	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "N"		270	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 3.1MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "O"		421	M	THERMOPLASTIC PAVEMENT MARKING LINES (300MM, 2.3MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "P"		239	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-1"		29	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-2"		123	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)	
				31,248	M	EPOXY PAVEMENT MARKING LINES (150MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-3"		2,582	M	EPOXY PAVEMENT MARKING LINES (300MM)	
				14	M	EPOXY PAVEMENT MARKING LINES (600MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "A"		64	EA	EPOXY PAVEMENT MARKING CHARAC- TER	
				67	EA	EPOXY PAVEMENT MARKING SYMBOL	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "B"		52,448	M	PAINT PAVEMENT MARKING LINES (100MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "C"		124,190	M	PAINT PAVEMENT MARKING LINES (150MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "D"		2,072	M	PAINT PAVEMENT MARKING LINES (200MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "E"		17,718	M	PAINT PAVEMENT MARKING LINES (300MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "G"		988	M	PAINT PAVEMENT MARKING LINES (600MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "H"		80	EA	PAINT PAVEMENT MARKING CHARAC- TER	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "I"		412	EA	PAINT PAVEMENT MARKING SYMBOL	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "J"		19,430	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "K"		20,631	M	REMOVAL OF PAVEMENT MARKING LINES (150MM)	

			16	EA	GENERIC LIGHTING ITEM STD FOUNDATIONS TYPE A
			2	EA	GENERIC LIGHTING ITEM STD FOUNDATIONS TYPE B
			1	EA	GENERIC LIGHTING ITEM STD FOUNDATIONS TYPE C
			1	EA	GENERIC LIGHTING ITEM STD FOUNDATIONS TYPE D
			6	EA	GENERIC LIGHTING ITEM STD FOUNDATIONS TYPE R1
			1,100	MTN	FOUNDATION CONDITIONING MATE- RIAL, UTILITIES CLASS ***** (VI)
			1,100	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (IV)
			300	MTN	PAVEMENT REPAIR FOR UTILITY WORK
			17.7	M	***MM DI WATER PIPE, CLASS ***** WP (100MM, CLASS 51, 2.41MPA WP)
			500	M	***MM DI WATER PIPE, CLASS ***** WP (75MM, CLASS 50, 2.41MPA WP)
			299.8	M	150MM DI WATER PIPE, PC 2.41MPA
			294	M	200MM DI WATER PIPE, PC 2.41MPA
			201.4	M	300MM DI WATER PIPE, PC 2.41MPA
			19.6	M	***MM DI RESTRAINED JOINT WA- TER PIPE, CLASS ***** WP (150MM, CLASS 50, 2.41MPA WP)
			53.7	M	***MM DI RESTRAINED JOINT WA- TER PIPE, CLASS ***** WP (200MM, CLASS 50, 2.41MPA WP)
			169.6	M	***MM DI RESTRAINED JOINT WA- TER PIPE, CLASS ***** WP (300MM, CLASS 50, 2.41MPA WP)
			120.9	M	***MM DI RESTRAINED JOINT WA- TER PIPE, CLASS ***** WP (500MM, CLASS 50, 2.41MPA WP)
			24,400	KG	DI RESTRAINED JOINT WATER PIPE FITTINGS, 1.72MPA MIN WP
			171.2	M	***MM COPPER WATER PIPE, TYPE K (50MM)
			3	M	***MM COPPER WATER PIPE, TYPE K (75MM)
			94.9	M	20MM COPPER WATER PIPE, TYPE K
			20.3	M	25MM COPPER WATER PIPE, TYPE K
			1,714	KG	DUCTILE IRON WATER PIPE FIT- TINGS, 1.72MPA MIN WP
			1	EA	***MM CORPORATION STOP (75MM)
			5	EA	50MM CORPORATION STOP
			12	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP
			4	EA	200MM GATE VALVE & VALVE BOX, ***MPA WP (1.38 MPA WP)
			2	EA	*** X ***MM TAPPING SADDLE (150MM X 50MM)
			1	EA	*** X ***MM TAPPING SADDLE (150MM X 75MM)
			1	EA	*** X ***MM TAPPING SADDLE (200MM X 50MM)
			2	EA	*** X ***MM TAPPING SADDLE (300MM X 50MM)
			25	EA	RELOCATE EXISTING WATER METER
			9	EA	RELOCATE EXISTING FIRE HYDRANT
			104	M	***MM DI SEWER PIPE, CLASS *** (300MM, CLASS 54)
			97	M	***MM DI SEWER PIPE, CLASS *** (500MM, CLASS 50)
			42	M	***MM DI SEWER PIPE, PC ***MPA (400MM, PC 2.41 MPA)
			889.4	M	200MM DI SEWER PIPE, PC 2.41MPA
			179.2	M	300MM DI SEWER PIPE, PC 2.41MPA
			28	EA	***MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1200MM)
			16.6	M	PRECAST CONC MANHOLE WALL, ***MM DIA, OVER 1.8M HT (1200MM)
			6.8	M	SEWER MANHOLE OUTSIDE DROP AS- SEMBLY
			82	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (1050MM, DI WATER PIPE)
			580	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (200MM, VC SEWER PIPE)
837	M	REMOVAL OF PAVEMENT MARKING LINES (200MM)			
2,022	M	REMOVAL OF PAVEMENT MARKING LINES (300MM)			
160	M	REMOVAL OF PAVEMENT MARKING LINES (600MM)			
57	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS			
635	EA	PERMANENT RAISED PAVEMENT MARKERS			
161	EA	SNOWFLOWABLE RAISED PAVEMENT MARKERS			
18	EA	2.1M U-CHANNEL POSTS			
124	EA	FLEXIBLE DELINEATORS (CRYSTAL)			
69	EA	FLEXIBLE DELINEATORS (YELLOW)			
15	EA	FLEXIBLE DELINEATORS (CRYSTAL & RED)			
20	EA	FLEXIBLE DELINEATORS (YELLOW & RED)			
18	EA	OBJECT MARKERS (END OF ROAD)			
6	EA	30.5M HIGH MOUNT STANDARD			
1	EA	PORTABLE DRIVE UNIT			
21	M3	HIGH MOUNT FOUNDATIONS			
24	EA	HIGH MOUNT LUMINAIRES ***** (1KW, HPS)			
2	EA	ELECTRIC SERVICE POLES *** ***** (9.1M, CLASS 4)			
30	M	ELECTRIC SERVICE LATERAL ***** (3 #1/0, USE)			
2	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (240/480 VOLT)			
185	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS2)			
35	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS3)			
78	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS6)			
175	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS2)			
25	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS6)			
340	M	***#8 W/G FEEDER CIRCUIT (2)			
65	M	***#6 W/G FEEDER CIRCUIT (2)			
105	M	***#2 W/G FEEDER CIRCUIT (2)			
230	M	***** FEEDER CIRCUIT (2, #1)			
1,210	M	***#8 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)			
775	M	***#6 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)			
460	M	***#4 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)			
360	M	***#2 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)			
620	M	***#1 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)			
5	EA	ELECTRICAL JUNCTION BOXES ***** (BR18)			
7	EA	ELECTRICAL JUNCTION BOXES ***** (PC18)			
10	EA	UNDERPASS LUMINAIRES ***** (TYPE WM, 150W HPS)			
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 4+57.722 -Y1REV-)			
Lump Sum	LS	PORTABLE LIGHTING			
40	EA	GENERIC LIGHTING LGT STD LUMINAIRE, TYPE RDW 400W HPS			
20	EA	GENERIC LIGHTING ITEM LGT STD, TYPE MTLT, 13.7M, TA 4.6M			
6	EA	GENERIC LIGHTING ITEM RELOCATE LGT STD			
2	EA	GENERIC LIGHTING ITEM REMOVE LGT STD			

110	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (300MM, CI WATER PIPE)	234	M	GENERIC UTILITY ITEM 150MM DI WATER PIPE, PC 2.41MPA WITH NEOPRENE GASKET
245	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (300MM, VC SEWER PIPE)	27	M	GENERIC UTILITY ITEM 300MM DI RESTRAINED JOINT SEWER PIPE, PC 2.41MPA
48	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (375MM, VC SEWER PIPE)	32	M	GENERIC UTILITY ITEM 400MM DI RESTRAINED JOINT SEWER PIPE, PC 2.41MPA
110	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (500MM, CI WATER PIPE)	212.2	M	GENERIC UTILITY ITEM 600MM DI RJ WATER PIPE, CL 50, 2.41MPA WP W/ NEOPRENE GASKET
101	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (500MM, CONC SEWER PIPE)	6.4	M	GENERIC UTILITY ITEM PRECAST CONC MANHOLE WALL, 1500MM DIA OVER 1.8 M HT
200	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (600MM, CI WATER PIPE)	21	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 1050MM WATER PIPE, IN SOIL
31	EA	BREAK DOWN, PLUG, & FILL ABAN- DONED UTILITY MANHOLE	21	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 1050MM WATER PIPE, NOT IN SOIL
5	EA	BREAK DOWN & REBUILD EXISTING MANHOLE	110	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 200MM SEWER PIPE, IN SOIL
1	EA	REMOVE EXISTING MANHOLE	111	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 200MM SEWER PIPE, NOT IN SOIL
2	EA	GENERIC UTILITY ITEM 100MM AIR RELEASE VALVE & 1200MM DIA MANHOLE	68	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 300MM SEWER PIPE, IN SOIL
2	EA	GENERIC UTILITY ITEM 100MM AIR RELEASE VALVE & 1800MM DIA MANHOLE	68	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 300MM SEWER PIPE, NOT IN SOIL
1	EA	GENERIC UTILITY ITEM 1050MM BUTTERFLY VALVE & 1.8M X 3.0M VAULT, 1.72MPA WP	59	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 300MM WATER PIPE, IN SOIL
2	EA	GENERIC UTILITY ITEM 1050MM LINE STOP ASSEMBLY WITH 900MM BYPASS	60	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 300MM WATER PIPE, NOT IN SOIL
1	EA	GENERIC UTILITY ITEM 1200MM DIA PC CONC SEWER MAN- HOLE W/ FLAT TOP SLAB, 0-1.8M DTH	28	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 500MM SEWER PIPE, IN SOIL
1	EA	GENERIC UTILITY ITEM 1500MM DIA PC CONC FALSE BOT- TOM SEWER MH W/FLAT TOP SLAB, 0-1.8M DTH	27	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 500MM SEWER PIPE, NOT IN SOIL
2	EA	GENERIC UTILITY ITEM 1500MM DIA PC CONC SEWER MAN- HOLE W/ FLAT TOP SLAB & VENT, 0-1.8M DTH	33	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 500MM WATER PIPE, IN SOIL
1	EA	GENERIC UTILITY ITEM 1500MM DIA PC CONC SEWER MAN- HOLE W/ FLAT TOP SLAB, 0-1.8M DTH	33	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 500MM WATER PIPE, NOT IN SOIL
2	EA	GENERIC UTILITY ITEM 300MM GATE VALVE & VALVE MAN- HOLE, 1.38MPA WP	59	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 600MM WATER PIPE, IN SOIL
2	EA	GENERIC UTILITY ITEM 500MM BUTTERFLY VALVE & 1800MM DIA VALVE MANHOLE, 1.72 MPA WP	59	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 600MM WATER PIPE, NOT IN SOIL
4	EA	GENERIC UTILITY ITEM 50MM DOUBLE CHECK VALVE BACK- FLOW PREVENTION ASSEMBLY	16	M3	GENERIC UTILITY ITEM CLASS A CONC FOR PIERS
4	EA	GENERIC UTILITY ITEM 50MM WATER METER	6	M3	GENERIC UTILITY ITEM CLASS B CONC FOR ENCASING PIPELINES
2	EA	GENERIC UTILITY ITEM 600MM BUTTERFLY VALVE & 1800MM DIA VALVE MANHOLE, 1.72 MPA WP	3,700	M	TEMPORARY SILT FENCE
2	EA	GENERIC UTILITY ITEM 600MM LINE STOP ASSEMBLY WITH 400MM BYPASS	575	MTN	STONE FOR EROSION CONTROL, CLASS A
2	EA	GENERIC UTILITY ITEM BREAKDOWN, PLUG & FILL ABAN- DONED VALVE VAULT	7,400	MTN	STONE FOR EROSION CONTROL, CLASS B
1	EA	GENERIC UTILITY ITEM RELOCATE EXT 100MM BACKFLOW ASSEMBLY WITH NEW SERVICE BOX	5,400	MTN	SEDIMENT CONTROL STONE
1	EA	GENERIC UTILITY ITEM RELOCATE EXT 100MM WATER METER ASSEMBLY WITH NEW METER VAULT	37.5	HA	TEMPORARY MULCHING
1	EA	GENERIC UTILITY ITEM RELOCATE EXT 40MM WATER METER ASSEMBLY WITH NEW METER VAULT	1,700	KG	SEED FOR TEMPORARY SEEDING
1	EA	GENERIC UTILITY ITEM RELOCATE EXT 50MM WATER METER ASSEMBLY	13.5	MTN	FERTILIZER FOR TEMPORARY SEED- ING
1	EA	GENERIC UTILITY ITEM RELOCATE EXT 75MM WATER METER ASSEMBLY WITH NEW METER VAULT	225	M	TEMPORARY SLOPE DRAINS
6	EA	GENERIC UTILITY ITEM RELOCATE SANITARY SEWER CLEAN- OUT	21	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
18	EA	GENERIC UTILITY ITEM THRUST COLLAR	34,000	M3	SILT EXCAVATION
50	M	GENERIC UTILITY ITEM 100MM PVC SEWER PIPE, SCH 40	3,500	M2	SYNTHETIC ROVING
95.2	M	GENERIC UTILITY ITEM 1050MM DI RJ WATER PIPE, CL 50 2.41MPA WP W/ NEOPRENE GASKET	7,900	M2	MATTING FOR EROSION CONTROL
			310	M2	PERMANENT SOIL REINFORCEMENT MAT
			2,050	M	6.4MM HARDWARE CLOTH
			40	M	***MM TEMPORARY PIPE (1050MM)
			45	M	***MM TEMPORARY PIPE (450MM)
			350	M3	STILLING BASINS
			40	HA	SEEDING & MULCHING
			21	HA	MOWING
			450	KG	SEED FOR REPAIR SEEDING
			1.5	MTN	FERTILIZER FOR REPAIR SEEDING
			1,125	KG	SEED FOR SUPPLEMENTAL SEEDING
			67.25	MTN	FERTILIZER TOPDRESSING
			50	M	IMPERVIOUS DIKE
			28	HR	SPECIALIZED HAND MOWING
			24	EA	RESPONSE FOR EROSION CONTROL



Lump Sum	LS	GENERIC EROSION CONTROL ITEM IRRIGATION SYSTEM INSTALLATION				
210	EA	EUONYMUS ALATA, BURNING BUSH, (00-600MM, #3 CONT)		112	EA	DELINEATOR MARKER
750	EA	JASMINUM NUDIFLORUM, WINTER JASMINE, (500-600MM, #3 CONT)		2	EA	METAL STRAIN SIGNAL POLE
171	EA	LAGERSTROEMIA, CRAPE MYRTLE, LAGERSTROEMIA SIOUX, SIOUX CRAPE MYRTLE 2.5-3.0M, B&B, MULTI-STEM		13	EA	SIGNAL SUPPORT MAST ARM WITH METAL POLE
255	EA	OSMANTHUS X FORTUNEI, HYBRID OSMANTHUS, OSMANTHUS FORTUNEI, FORTUNE OSMANTHUS 800-900MM, #10 CONT		11	EA	DOUBLE MAST ARM WITH METAL POLE
1,368	EA	GENERIC PLANTING ITEM JUNIPERUS CHINENSIS PROCUMBENS JAP GARDEN JUNIPER, 500-600MM, #3 CONT		26	EA	METAL SIGNAL POLE FOUNDATION
414	M3	MULCH FOR PLANTING		11	EA	SIGNAL PEDESTAL WITH FOUNDATION
240	KL	WATER FOR PLANTING		17	EA	MAST ARM WITH METAL POLE DESIGN
3,300	M2	POSTEMERGENT HERBICIDAL TREATMENT FOR PLANT BEDS		124	EA	SIGN FOR SIGNALS
3,300	M2	PREEMERGENT HERBICIDAL TREATMENT FOR PLANT BEDS		4	EA	SIGNAL CABINET FOUNDATION
16,965	M2	GENERIC PLANTING ITEM PLANTER FILTER FABRIC		4	EA	CONTROLLER WITH CABINET (TYPE 170E, BASE MOUNTED)
5,780	M2	GENERIC PLANTING ITEM PLANTER INSULATION		4	EA	CONTROLLER WITH CABINET (TYPE 170E, POLE MOUNTED)
2,585	M3	GENERIC PLANTING ITEM PLANTER SOIL MIX		87	EA	DETECTOR CHANNEL (TYPE 170)
42	EA	PEDESTRIAN SIGNAL HEAD (**MM, ** SECTION) (400MM, 1 SECTION)		2	EA	SPLICE CABINET
7,830	M	SIGNAL CABLE		1	EA	NOTEBOOK COMPUTER
162	EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)		1	EA	METAL POLE FOUNDATION REMOVAL
12	EA	VEHICLE SIGNAL HEAD (300MM, 4 SECTION)		1	EA	METAL POLE REMOVAL
33	EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)		16	EA	GENERIC SIGNAL ITEM 2070L CONTROLLER
90	EA	BACKPLATE		87	EA	GENERIC SIGNAL ITEM 2-CHANNEL RADAR DETECTOR CARD, CALTRANS
8	EA	MODIFY EXISTING VEHICLE SIGNAL HEAD		3	EA	GENERIC SIGNAL ITEM CABINET FOUNDATION
4,490	M	MESSENGER CABLE (6.35MM)		10	EA	GENERIC SIGNAL ITEM CCTV ASSEMBLY
1,600	M	MESSENGER CABLE (9.52MM)		3	EA	GENERIC SIGNAL ITEM CCTV CABINET
30	M	JACK & BORE		10	EA	GENERIC SIGNAL ITEM CCTV METAL POLE
16,094	M	TRACER WIRE		1	EA	GENERIC SIGNAL ITEM DETECTION SYSTEM SERVER
50	M	TRENCHING (PAVED)		7	EA	GENERIC SIGNAL ITEM DURHAM VIDS VIDEO OPTICAL RECEIVER WITH DATA (VOR-D)
635	M	TRENCHING (UNPAVED)		2	EA	GENERIC SIGNAL ITEM ETHERNET ROUTER
977	M	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 31.75MM (** CONDUIT) (1)		22	EA	GENERIC SIGNAL ITEM FIBER OPTIC DATA TRANSCEIVER SELF-HEALING (FOT/SH)
1,247	M	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 31.75MM (** CONDUIT) (2)		2	EA	GENERIC SIGNAL ITEM FIBER OPTIC MEDIA CONVERTER
2,193	M	DIRECTIONAL DRILL OUTER-DUCT CONDUIT, 125MM (1)		3	EA	GENERIC SIGNAL ITEM FIBER OPTIC TRANSCEIVER DEMULTIPLEXER (FOTDEMUX)
196	M	TRENCH MULTI-DUCT, 31.75MM (** CONDUIT) (1)		3	EA	GENERIC SIGNAL ITEM FIBER OPTIC TRANSCEIVER MULTIPLEXER (FOTMUX)
432	M	TRENCH MULTI-DUCT, 31.75MM (** CONDUIT) (2)		2	EA	GENERIC SIGNAL ITEM FURNISH 2070L CONTROLLER
4,777	M	TRENCH MULTI-DUCT, 31.75MM (** CONDUIT) (4)		1	EA	GENERIC SIGNAL ITEM FURNISH CCTV CABINET
7,901	M	MULTI-DUCT, 31.75MM IN OUTER-DUCT (** CONDUIT) (4)		1	EA	GENERIC SIGNAL ITEM FURNISH CCTV UNIT
46	EA	JUNCTION BOX (STANDARD SIZE)		8	EA	GENERIC SIGNAL ITEM FURNISH FIBER OPTIC TRANSCEIVER
203	EA	JUNCTION BOX (OVER-SIZED)		5	EA	GENERIC SIGNAL ITEM FURNISH FOT/SH
41	EA	WOOD POLE		1	EA	GENERIC SIGNAL ITEM FURNISH FOTDEMUX
114	EA	GUY ASSEMBLY		1	EA	GENERIC SIGNAL ITEM FURNISH FOTMUX
7	EA	25MM RISER WITH WEATHERHEAD		1	EA	GENERIC SIGNAL ITEM FURNISH RVD CABINET
20	EA	50MM RISER WITH WEATHERHEAD		5	EA	GENERIC SIGNAL ITEM FURNISH RVD INTERFACE CARD
23	EA	50MM RISER WITH HEAT SHRINK TUBING		3	EA	GENERIC SIGNAL ITEM FURNISH RVD UNIT
2,110	M	INDUCTIVE LOOP SAWCUT		2	EA	GENERIC SIGNAL ITEM FURNISH VOR-D
3,175	M	LEAD-IN CABLE		1	EA	GENERIC SIGNAL ITEM FURNISH VORDEMUX
6	EA	LOOP EMULATOR DETECTION SYSTEM		2	EA	GENERIC SIGNAL ITEM FURNISH VOT-D
1	EA	MICROWAVE VEHICLE DETECTOR		1	EA	GENERIC SIGNAL ITEM FURNISH VOTMUX
5,580	M	TYPE 2 LEAD-IN CABLE		2	EA	GENERIC SIGNAL ITEM MODIFY EXISTING SPICE ENCLOSURE
1,355	M	COMMUNICATIONS CABLE (**FIBER) (12)		2	EA	GENERIC SIGNAL ITEM MULTIPLEXING CABINET
1,120	M	COMMUNICATIONS CABLE (**FIBER) (18)		16	EA	GENERIC SIGNAL ITEM POLE MOUNTED EQUIPMENT CABINET
27	EA	AERIAL SPLICE ENCLOSURE		31	EA	GENERIC SIGNAL ITEM RADAR VEHICLE DETECTION METAL POLE & FOUNDATION
39	EA	INTERCONNECT CENTER		37	EA	GENERIC SIGNAL ITEM RADAR VEHICLE DETECTOR
8	EA	FIBER-OPTIC TRANSCEIVER		2	EA	GENERIC SIGNAL ITEM RELOCATE EXISTING CCTV CAMERA ASSEMBLY, TYPE A

			Lump Sum	LS	GENERIC RETAINING WALL ITEM RETAINING WALL NO. 2
			Lump Sum	LS	GENERIC RETAINING WALL ITEM RETAINING WALL NO. 3
2	EA	GENERIC SIGNAL ITEM RELOCATE EXISTING CCTV CAMERA ASSEMBLY, TYPE B			
6	EA	GENERIC SIGNAL ITEM SYSTEM DETECTOR AMPLIFIER (2- CHANNEL)			
1	EA	GENERIC SIGNAL ITEM UNINTERRUPTABLE POWER SUPPLY			
1	EA	GENERIC SIGNAL ITEM VIDEO DISTRIBUTION AMPLIFIER			
2	EA	GENERIC SIGNAL ITEM VIDEO OPTICAL RECEIVER DEMULTIPLEXER (VORDEMUX)			
18	EA	GENERIC SIGNAL ITEM VIDEO OPTICAL RECEIVER WITH DATA (VOR-D)			
2	EA	GENERIC SIGNAL ITEM VIDEO OPTICAL TRANSMITTER MULTIPLEXER (VOTMUX)			
10	EA	GENERIC SIGNAL ITEM VIDEO OPTICAL TRANSMITTER WITH DATA (VOT-D)			
Lump Sum	LS	GENERIC SIGNAL ITEM CENTRAL FREEWAY CONGESTION MONITORING CENTRAL SOFTWARE			
Lump Sum	LS	GENERIC SIGNAL ITEM MODIFY CENTRAL CCTV SOFTWARE			
Lump Sum	LS	GENERIC SIGNAL ITEM MODIFY DURHAM TOC VIDEO MATRIX SWITCHER			
Lump Sum	LS	GENERIC SIGNAL ITEM MODIFY TRTMC MATRIX SWITCHER SOFTWARE			
Lump Sum	LS	GENERIC SIGNAL ITEM TRAINING			
Lump Sum	LS	GENERIC SIGNAL ITEM UPDATE REGIONAL GRAPHICAL USER INTERFACE SOFTWARE			
19,500	M	GENERIC SIGNAL ITEM COMMUNICATIONS CABLE (72 FIBER )			
13,100	M	GENERIC SIGNAL ITEM DETECTOR LEAD-IN CABLE			
4,820	M	GENERIC SIGNAL ITEM DROP CABLE			
7,901	M	GENERIC SIGNAL ITEM UNDERGROUND MULTI-DUCT CONDUIT 31.75MM (FOUR CONDUITS)			

**CULVERT ITEMS**

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (1+269.700 -US NBD-)			
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (3+314.436 -LREV-)			
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (22+395.694 -LREV-)	156,816	KG	REINFORCING STEEL (BRIDGE)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (3+314.436 -LREV-)	17,368	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
295	MTN	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT	1,947,300	LS	APPROX ..... KG STRUCTURAL STEEL
501.5	M3	CLASS A CONCRETE (CULVERT)	1,112	M	HP310X79 STEEL PILES
55,687	KG	REINFORCING STEEL (CULVERT)	160.114	M	THREE BAR METAL RAIL
15	M	***MM GALVANIZED STEEL PIPE RAIL (38MM)	596.004	M	CONCRETE BARRIER RAIL
Lump Sum	LS	ELECTRICAL CONDUIT SYSTEM, STA ***** (3+314.436 -LREV-)	91.766	M	CONCRETE MEDIAN BARRIER
Lump Sum	LS	GENERIC CULVERT ITEM FOUNDATION EXCAVATION	2,389	M2	100MM SLOPE PROTECTION
			1,181	MTN	PLAIN RIP RAP CLASS II (600MM THICK)
			Lump Sum	LS	POT BEARINGS
			Lump Sum	LS	ELASTOMERIC BEARINGS
			Lump Sum	LS	EVAZOTE JOINT SEALS
			Lump Sum	LS	MODULAR EXPANSION JOINT SEALS
			Lump Sum	LS	GENERIC STRUCTURE ITEM CONSTRUCTION & MAINT OF TEMP WIDENING STR AT STA 231+ 53.2 09-LREV
			28	M	GENERIC STRUCTURE ITEM COLUMN EXCAVATION
			10,000	DOL	CONTRACT TIME

**WALL ITEMS**

75	M3	FOUNDATION EXCAVATION (RETAIN- ING WALL)			
33.5	M3	CLASS AA CONCRETE (BRIDGE)			
3,638	KG	REINFORCING STEEL (RETAINING WALL)			
Lump Sum	LS	MSE RETAINING WALL, STA ***** (1+225.000 -HILLRPC-)			
Lump Sum	LS	MSE RETAINING WALL, STA ***** (1+333.000 -HILLRPD-)			
Lump Sum	LS	GENERIC RETAINING WALL ITEM RETAINING WALL NO. 1			

**STRUCTURE ITEMS**

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP STRUCTURE AT STA ***** (240+97.651 -LREV-)			
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (219+98.088 -LREV-)			
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (231+53.209 -LREV-)			
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURES AT STATION ***** (240+97.651 -LREV-)			
77.5	M	***MM DIA DRILLED PIERS IN SOIL (1066MM)			
28.3	M	***MM DIA DRILLED PIERS IN SOIL (1220MM)			
11.5	M	***MM DIA DRILLED PIERS IN SOIL (1372MM)			
10.5	M	***MM DIA DRILLED PIERS IN SOIL (1524MM)			
55	M	***MM DIA DRILLED PIERS NOT IN SOIL (1066MM)			
21.5	M	***MM DIA DRILLED PIERS NOT IN SOIL (1220MM)			
22.5	M	***MM DIA DRILLED PIERS NOT IN SOIL (1372MM)			
31	M	***MM DIA DRILLED PIERS NOT IN SOIL (1524MM)			
3	EA	CROSSHOLE SONIC LOGGING			
1,143.9	M	CSL TUBES			
630	M3	UNCLASSIFIED STRUCTURE EXCAVA- TION			
10,225.8	M2	REINFORCED CONCRETE DECK SLAB			
9,459.7	M2	GROOVING BRIDGE FLOORS			
1,228.2	M3	CLASS A CONCRETE (BRIDGE)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (219+98.088 -LREV-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (231+53.209 -LREV-)			
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (240+97.651 -LREV-)			