



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

June 17, 2003

NOTICE TO: Plan Holders  
FROM: R. A. Garris, P.E.  
Contract Officer  
SUBJECT: Delays in Billing

A handwritten signature in black ink, appearing to read "R. A. Garris", written over the typed name and title.

Please be advised that invoices for April, May and June plans and proposals have not been mailed. The Department has been transitioning to a new financial system, and as a result, are experiencing delays in billing. Once the new system becomes stable, and we are able to invoice, you will receive invoices for all orders placed since April 2003. We apologize for any inconvenience that this may cause.

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

**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: 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/)

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**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 JULY 15, 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 JUNE 17, 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	Anthony W. Roper , PE	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 L030715

RPN	Contract Id	WBS	County	Length	JobType
001	C200526	34154.3.14 ETC.	GUILFORD	3.909 KM	WIDENING, GRADING, DRAINAGE, PAVING, LIGHTING & STRS.
002	C200524	34820.3.18	GUILFORD	3.012 KM	WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURES.
003	C200734	34154.3.14 ETC.	GUILFORD	6.921 KM	WIDENING, GRADING, DRAINAGE, PAVING, LIGHTING & STRS.
004	C200743	34592.3.1	SAMPSON	6.800 MI	MEDIAN GUARDRAIL, GUIDERAIL & SIGNING.
005	C200740	34775.3.12	ONSLOW	3.929 KM	WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURES.
006	C200707	34363.3.11	WILSON	3.634 KM	WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURES.
007	C200695	34926.3.3	EDGEcombe, NASH	0.949 MI	WIDENING, GRADING, DRAINAGE, PAVING, C&G & STRUCTURE.
008	C200680	33154.3.1	ALAMANCE	0.080 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
009	C200746	33157.3.2	ALAMANCE	0.329 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
010	C200737	33082.3.3	GUILFORD	0.394 MI	WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURE.
011	C200742	33181.3.1	CHATHAM	0.152 MI	GRADING, DRAINAGE, PAVING & CULVERT.
012	C200744	34872.3.3	FORSYTH	1.648 MI	PVT REHAB, SAFETY IMPROVEMENTS, SIGNING & STR REHAB.
013	C200736	35033.3.2	MECKLENBURG	8.553 MI	INTELLEGENT TRANSPORTATION SYSTEM.
014	C200741	34496.3.1	YADKIN	0.990 KM	WIDENING, GRADING, DRAINAGE & PAVING.
015	C200674	34791.3.7	CATAWBA	2.595 KM	GRADING, DRAINAGE, PAVING & STRUCTURE.

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

L030715 001

CONTRACT ID : C200526 34154.3.14

DIV OFFICE GREENSBORO

LENGTH = 3.909 KM

COUNTY : GUILFORD

WIDENING, GRADING, DRAINAGE, PAVING, LIGHTING &amp; STRS.

DBE GOAL 10.0% COMPLETION DATE : JUL 01 2007

GREENSBORO WESTERN LOOP FROM I-40 TO NORTH OF SR-2147 (WEST FRIENDLY AVE).

ROADWAY ITEMS					
			204	M	300MM RC PIPE CULVERTS, CLASS III
			4,389.2	M	375MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING	1,316.4	M	450MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)	1,461.6	M	600MM RC PIPE CULVERTS, CLASS III
1.6	HA	SUPPLEMENTARY CLEARING & GRUBBING	619.2	M	750MM RC PIPE CULVERTS, CLASS III
4	EA	SEALING ABANDONED WELLS	225.6	M	900MM RC PIPE CULVERTS, CLASS III
337,000	M3	UNCLASSIFIED EXCAVATION			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (109+13.980 -LNB-)	370.8	M	1050MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (11+73.750 -RPAC-)	494.4	M	1200MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (110+65.100 -LNB-)	72	M	1350MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (115+44.630 -LNB-)	181.2	M	1500MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (120+42.070 -L- SB)	411.6	M	****MM RC PIPE CULVERTS, CLASS IV (1050MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (120+48.520 -L- NB)	80.4	M	****MM RC PIPE CULVERTS, CLASS IV (1350MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (120+48.520 -L- NB)	205.2	M	****MM RC PIPE CULVERTS, CLASS IV (1500MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (135+87.160 -L- NB)	100.8	M	****MM RC PIPE CULVERTS, CLASS IV (450MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (135+87.160 -L- SB)	86.4	M	****MM RC PIPE CULVERTS, CLASS IV (600MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (18+45.710 -RPAC-)	230.4	M	****MM RC PIPE CULVERTS, CLASS IV (750MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (18+65.880 -LSB-)	117.6	M	****MM RC PIPE CULVERTS, CLASS IV (900MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (20+45.630 -LSB-)	892.8	M	400MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+41.650 -LSB-)	176.4	M	450MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	80.4	M	600MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (39+59.890 -I40EB-)	40.8	M	800MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (39+59.890 -I40EB-)	84	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
24,500	M3	UNDERCUT EXCAVATION	14	EA	450MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
1,600	MTN	CLASS IV SUBGRADE STABILIZATION	6	EA	600MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
2,650,000	M3	BORROW EXCAVATION	1	EA	800MM BIT COAT CS PIPE ELBOWS, TYPE B 2.01MM THICK
4	EA	EMBANKMENT SETTLEMENT GAUGES	22.8	M	****MM WELDED STEEL PIPE, ****MM THICK, GRADE B, INSTALLED BY BORING & JACKING (1650MM, 22MM)
53,000	M3	DRAINAGE DITCH EXCAVATION			
17,500	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT	45.6	M	****MM WELDED STEEL PIPE, ****MM THICK, GRADE B, INSTALLED BY BORING & JACKING (600MM, 12.7MM)
1,300	M2	REMOVAL OF EXISTING CONCRETE PAVEMENT			
250	M2	BREAKING OF EXISTING ASPHALT PAVEMENT	3,506	M	PIPE REMOVAL
50	HR	PROOF ROLLING	425	M2	150MM SLOPE PROTECTION
7,000	M3	SELECT GRANULAR MATERIAL	Lump Sum	LS	FINE GRADING
5,000	M2	FABRIC FOR SOIL STABILIZATION	93,250	M2	LIME TREATED SOIL (SLURRY METHOD)
75	M2	TEMPORARY SHORING - BARRIER SUPPORTED			
1,086	M2	GENERIC GRADING ITEM	1,030	MTN	LIME FOR LIME TREATED SOIL
		ROCK PLATING	64,800	MTN	AGGREGATE BASE COURSE
16,800	MTN	SELECT MATERIAL, CLASS II	62,200	M2	****MM SOIL CEMENT BASE (180MM)
8,850	MTN	SELECT MATERIAL, CLASS III	1,870	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE
2,600	MTN	SELECT MATERIAL, CLASS IV			
3,780	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	630	MTN	AGGREGATE FOR SOIL CEMENT BASE
244.8	M	375MM SIDE DRAIN PIPE	14,000	L	ASPHALT CURING SEAL
43.2	M	450MM SIDE DRAIN PIPE	500	MTN	INCIDENTAL STONE BASE
24	M	600MM SIDE DRAIN PIPE	1,950	M2	MILLING ASPHALT PAVEMENT, **MM DEPTH (30MM)

			175	M2	CONCRETE WHEELCHAIR RAMPS
			220	M2	100MM CONCRETE PAVED DITCH
			700	M2	125MM MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)
18,100	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B	170	M	CONCRETE BARRIER, TYPE ***** (T2)
20,000	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C	1,950	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED
20,000	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	1,080	M2	GENERIC PAVING ITEM
4,600	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	10,500	M2	100MM CONCRETE COVER GENERIC PAVING ITEM
9,300	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0D			150MM CONCRETE COVER
1,320	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5A	11	EA	ADJUSTMENT OF MANHOLES
			41	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
25,000	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	3	EA	IMPACT ATTENUATOR UNIT, TYPE 350
3,600	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	12,508.23	M	STEEL BM GUARDRAIL
5,900	MTN	ASPHALT CONC SURFACE COURSE, TYPE S12.5D	16	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
4,978	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	29	EA	GUARDRAIL ANCHOR UNITS, TYPE III
672	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	25	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
325	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 76-22	13	EA	GUARDRAIL ANCHOR UNITS, TYPE XI (MOD)
15,725	MTN	PERMEABLE ASPHALT DRAINAGE COURSE, TYPE P-78M	1,025	M	REMOVE EXISTING GUARDRAIL
725	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR	118.11	M	TEMPORARY STEEL BM GUARDRAIL
82,500	M2	***MM PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (280MM)	1	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY
7,850	M2	***MM PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (360MM)	9,900	M	CHAIN LINK FENCE, 1200MM FABRIC
Lump Sum	LS	SURFACE TESTING CONCRETE PAVEMENT	2,710	EA	METAL LINE POSTS FOR 1200MM CHAIN LINK FENCE
450	M2	CONCRETE SHOULDERS ADJACENT TO ***MM PAVEMENT (280MM)	130	EA	METAL TERMINAL POSTS FOR 1200MM CHAIN LINK FENCE
Lump Sum	LS	FIELD LABORATORY RENTAL, PORT CEM CONC PAVEMENT	2	EA	METAL GATE POSTS FOR ***MM CHAIN LINK FENCE, SINGLE GATE (1200MM)
850	M3	SUBDRAIN EXCAVATION	1	EA	SINGLE GATES, ****MM HIGH, ****MM WIDE, ****MM OPENING (1200MM, 4500MM, 4500MM)
425	M3	SUBDRAIN FINE AGGREGATE	775	MTN	PLAIN RIP RAP, CLASS I
1,000	M	150MM PERFORATED SUBDRAIN PIPE	3,450	MTN	PLAIN RIP RAP, CLASS B
34	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS	13,200	M2	FILTER FABRIC FOR DRAINAGE
7	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	1,400	M3	GENERIC WALL ITEM SELECT GRANULAR MATERIAL FOR TEMPORARY FABRIC WALL
14	M	150MM OUTLET PIPE (SUBDRAINS)	5,000	M2	GENERIC WALL ITEM FABRIC FOR TEMPORARY FABRIC WALL
6,382	M	SHOULDER DRAIN			
6,382	M	100MM SHOULDER DRAIN PIPE			
243	M	100MM OUTLET PIPE (SHOULDER DRAINS)	4	M3	REINFORCED CONCRETE SIGN FOOTINGS
19	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	1	M3	PLAIN CONCRETE SIGN FOOTINGS
50	MTN	BLOTTING SAND	1,611	KG	SUPPORTS, BREAKAWAY STEEL BEAM
24.8	M3	ENDWALLS	599	KG	SUPPORTS, SIMPLE STEEL BEAM
16.2	M3	REINFORCED ENDWALLS	532.6	M	SUPPORTS, 4.5KG STEEL U-CHANNEL
2.7	M3	PIPE COLLARS	2	EA	SIGN ERECTION, TYPE D
0.15	M3	PIPE PLUGS	95	EA	SIGN ERECTION, TYPE E
328	EA	MASONRY DRAINAGE STRUCTURES	5	EA	SIGN ERECTION, TYPE F
27	M3	MASONRY DRAINAGE STRUCTURES	5	EA	SIGN ERECTION, TYPE *** (OVERHEAD) (A)
38.04	M	MASONRY DRAINAGE STRUCTURES			
1	EA	FRAME WITH GRATE, STD 840.22	3	EA	SIGN ERECTION, TYPE *** (OVERHEAD) (B)
81	EA	FRAME WITH TWO GRATES, STD 840.**** (840.20)	9	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)
20	EA	FRAME WITH TWO GRATES, STD 840.16			
86	EA	FRAME WITH TWO GRATES, STD 840.22	1	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)
9	EA	FRAME WITH TWO GRATES, STD 840.24			
8	EA	FRAME WITH TWO GRATES, STD 840.29	3	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM
6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	12	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
24	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	6	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)
31	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN BENCH TEST UNIT
16	EA	FRAME WITH COVER, STD 840.54	Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN MAINTENANCE TRAINING
2	EA	STEEL FRAME WITH TWO GRATES, STD 840.37	Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM DESIGN APPROVAL TESTS
5,200	M	750MM CONCRETE CURB & GUTTER	Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FACTORY TESTS
200	M	SHOULDER BERM GUTTER			
1	EA	MODIFIED CONCRETE FLUME			
4,700	M	CONCRETE EXPRESSWAY GUTTER			
3,550	M2	100MM CONCRETE SIDEWALK			



			Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "H"		
			Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "I"		
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FIELD TESTS	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "J"		
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM "DMS-1"	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "K"		
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM "DMS-2"	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "L"		
Lump Sum	LS	GENERIC SIGNING ITEM INTEGRATION INTO EXT DMS SYSTEM	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "M"		
Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING SYSTEM FOR PEDESTAL SIGN ASSEMBLY "L"	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "N"		
Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING SYSTEM WITHOUT WALKWAY FOR ASSEMBLY "DMS-1", SIGN 15	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "O"		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "A"	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "P"		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B"	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "Q"		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "C"	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "R"		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "D"	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "S"		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "E"	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "T"		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "F"	106	M2	WORK ZONE SIGNS (STATIONARY)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "G"	91	M2	WORK ZONE SIGNS (PORTABLE)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "H"	16	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "I"	4	EA	FLASHING ARROW PANELS, TYPE C		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "J"	2	EA	CHANGEABLE MESSAGE SIGNS		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "K"	29	EA	WARNING FLAG SETS		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "L"	1,800	EA	DRUMS		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "M"	100	EA	CONES		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "N"	146	M	BARRICADES (TYPE III)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "O"	2,800	HR	FLAGGER		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "P"	8	EA	WARNING LIGHTS (TYPE B)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "Q"	6	EA	TEMPORARY CRASH CUSHIONS		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "R"	3	EA	RESET TEMPORARY CRASH CUSHIONS		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "S"	2	EA	TRUCK MOUNTED IMPACT ATTENUATOR (45 MPH)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "T"	4	EA	TRUCK MOUNTED IMPACT ATTENUATOR (60 MPH)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "U"	2,400	M	PORTABLE CONCRETE BARRIER		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "V"	1,000	M	PORTABLE CONCRETE BARRIER (DRAINAGE)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "W"	3,700	M	RESET PORTABLE CONCRETE BARRIER		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "X"	267	EA	TUBULAR MARKERS (FIXED)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "Y"	600	M	REMOVABLE TAPE PAVEMENT MARKING LINES (100MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "Z"	1,110	EA	TEMPORARY RAISED PAVEMENT MARKERS		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AA"	23,200	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AB"	13,017	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AC"	850	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AD"	510	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 3.1MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AE"	60	M	THERMOPLASTIC PAVEMENT MARKING LINES (400MM, 3.1MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AF"	622	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AG"	8	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AH"	116	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AI"	101,623	M	PAINT PAVEMENT MARKING LINES (100MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AJ"	4,260	M	PAINT PAVEMENT MARKING LINES (150MM)		
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "AK"	300	M	PAINT PAVEMENT MARKING LINES (200MM)		
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-1"	580	M	PAINT PAVEMENT MARKING LINES (600MM)		
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-2"	59	EA	PAINT PAVEMENT MARKING SYMBOL		
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "A"	5,625	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)		
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "B"	150	M	REMOVAL OF PAVEMENT MARKING LINES (600MM)		
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "C"	17,877	M	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING LINES (150MM)		
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "D"	1,270	M	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING LINES (200MM)		
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "E"	9	EA	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING SYMBOL		
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "F"	517	EA	PERMANENT RAISED PAVEMENT MARKERS		
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "G"					

			Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 60+29 L)
			Lump Sum	LS	PORTABLE LIGHTING
1,573	EA	SNOWPLOWABLE RAISED PAVEMENT MARKERS	10	EA	GENERIC LIGHTING ITEM
15	EA	2.1M U-CHANNEL POSTS	7	EA	FOUNDATION COVER
235	EA	FLEXIBLE DELINEATORS (CRYSTAL)	901	MTN	GENERIC LIGHTING ITEM REMOVE LIGHT STANDARD
125	EA	FLEXIBLE DELINEATORS (YELLOW)			FOUNDATION CONDITIONING MATE- RIAL, UTILITIES CLASS ***** (V1)
10	EA	FLEXIBLE DELINEATORS (CRYSTAL & RED)	95	MTN	PAVEMENT REPAIR FOR UTILITY WORK
10	EA	FLEXIBLE DELINEATORS (YELLOW & RED)	137	M	***MM DI WATER PIPE, CLASS ***** WP (400MM, 53, 2.41MPA)
15	EA	OBJECT MARKERS (END OF ROAD)	87	M	150MM DI WATER PIPE, PC 2.41MPA
20	EA	30.5M HIGH MOUNT STANDARD	913	M	200MM DI WATER PIPE, PC 2.41MPA
2	EA	PORTABLE DRIVE UNIT	368	M	300MM DI WATER PIPE, PC 2.41MPA
84	M3	HIGH MOUNT FOUNDATIONS	31	M	400MM DI WATER PIPE, PC ***MPA (2.41MPA)
80	EA	HIGH MOUNT LUMINAIRES ***** (1KW HPS)	80	M	***MM COPPER WATER PIPE, TYPE K (50MM)
132	EA	LIGHT STANDARD, TYPE MTLT ***** (13.7M SA 4.6M)	91	M	20MM COPPER WATER PIPE, TYPE K
169	EA	LIGHT STANDARD, TYPE MTLT ***** (13.7M TA 4.6M)	5,921	KG	DUCTILE IRON WATER PIPE FIT- TINGS, 1.72MPA MIN WP
12	EA	LIGHT STANDARD, TYPE MTLT ***** (13.7M TWIN ARM 4.6M ON BREAK- AWAY BASE)	1	EA	20MM CORPORATION STOP
115	EA	STANDARD FOUNDATIONS ***** (TYPE R1)	1	EA	50MM CORPORATION STOP
29	EA	STANDARD FOUNDATIONS ***** (TYPE R2)	2	EA	***MM GATE VALVE & VALVE BOX, ***MPA WP (400MM, 1.38MPA)
7	EA	LIGHT STANDARD LUMINAIRES, TYPE RDW 250W HPS	1	EA	***MM GATE VALVE & VALVE BOX, ***MPA WP (500MM, 1.38MPA)
494	EA	LIGHT STANDARD LUMINAIRES, TYPE RDW 400W HPS	13	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP
20	EA	ELECTRIC SERVICE POLES *** ***** (9.1M CLASS 4)	4	EA	200MM GATE VALVE & VALVE BOX, ***MPA WP (1.38MPA)
456	M	ELECTRIC SERVICE LATERAL ***** (3 #1/0 USE)	2	EA	300MM GATE VALVE & VALVE BOX, ***MPA WP (1.38MPA)
2	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (120/240 VOLT)	1	EA	*** X ***MM TAPPING SLEEVE, VALVE & VALVE BOX, ***MPA WP (300MM X 150MM, 1.38MPA)
20	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (240/480 VOLT)	1	EA	*** X ***MM TAPPING SLEEVE, VALVE & VALVE BOX, ***MPA WP (300MM X 200MM, 1.38MPA)
316	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS2)	3	EA	*** X ***MM TAPPING SLEEVE, VALVE & VALVE BOX, ***MPA WP (300MM X 300MM, 1.38MPA)
191	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS3)	1	EA	*** X ***MM TAPPING SADDLE (300MM X 50MM)
194	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS2)	1	EA	*** X ***MM TAPPING SADDLE (400MM X 20MM)
433	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS3)	8	EA	RELOCATE EXISTING WATER METER
20	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS4)	9	EA	FIRE HYDRANT, ***MPA WP (1.38MPA)
98	M	***#8 W/G FEEDER CIRCUIT (2)	5	EA	RELOCATE EXISTING FIRE HYDRANT
1,335	M	***#6 W/G FEEDER CIRCUIT (2)	75	M	***MM PVC SEWER PIPE, SDR 35 (100MM)
10,980	M	***#4 W/G FEEDER CIRCUIT (2)	231	M	***MM DI SEWER PIPE, CLASS *** (300MM, 53)
1,289	M	***#2 W/G FEEDER CIRCUIT (2)	1,388	M	200MM DI SEWER PIPE, PC 2.41MPA
1,645	M	***#8 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	868	M	300MM DI SEWER PIPE, PC 2.41MPA
4,992	M	***#6 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	896	M	***MM DI FORCE MAIN SEWER PIPE PC ***MPA (300MM, 2.41MPA)
7,715	M	***#4 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	85	M	***MM DI FORCE MAIN SEWER PIPE PC ***MPA (500MM, 2.41MPA)
2,810	M	***#2 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	2,548	KG	DUCTILE IRON SEWER PIPE FIT- TINGS, 1.72MPA MIN WP
1	EA	ELECTRICAL JUNCTION BOXES ***** (BR18)	10	EA	SANITARY SEWER CLEAN-OUT
32	EA	ELECTRICAL JUNCTION BOXES ***** (PC18)	38	EA	***MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1200MM)
37	EA	UNDERPASS LUMINAIRES ***** (TYPE WM 150W HPS)	93.3	M	PRECAST CONC MANHOLE WALL, ***MM DIA, OVER 1.8M HT (1200MM)
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 136+20)	2	M	SEWER MANHOLE OUTSIDE DROP AS- SEMBLY
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 43+70 L)	28	EA	BREAK DOWN, PLUG, & FILL ABAN- DONED UTILITY MANHOLE
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 45+74 L)	2	EA	BREAK DOWN & REBUILD EXISTING MANHOLE
			137	M	600MM STEEL ENCASMENT PIPE, ***MM THICK, BY BORING & JACKING (9.53MM)
			14	EA	GENERIC UTILITY ITEM 150MM RESTRAINED RETAINER GLAND, 1.72MPA WP

			150	M	COMMUNICATIONS CABLE (** TWISTED-PAIR)	
			(3)			
20	EA	GENERIC UTILITY ITEM	3,900	M	COMMUNICATIONS CABLE (**FIBER)	
		200MM RESTRAINED RETAINER	(14)			
		GLAND, 1.72MPA WP	1,200	M	DROP CABLE	
1	EA	GENERIC UTILITY ITEM	4	EA	AERIAL SPLICE ENCLOSURE	
		300MM LINE STOP ASSEMBLY	3	EA	INTERCONNECT CENTER	
50	EA	GENERIC UTILITY ITEM	54	EA	DELINEATOR MARKER	
		300MM RESTRAINED RETAINER	5	EA	SIGN FOR SIGNALS	
		GLAND, 1.72MPA WP	3	EA	SIGNAL CABINET FOUNDATION	
22	EA	GENERIC UTILITY ITEM	3	EA	CONTROLLER WITH CABINET (NEMA	
		400MM RESTRAINED RETAINER	3	EA	TS-1, BASE MOUNTED)	
		GLAND, 1.72MPA WP	50	EA	DETECTOR CHANNEL (NEMA TS-1)	
85	M	GENERIC UTILITY ITEM	2	EA	CENTRAL COMPUTER	
		3.66M GRAVEL ACCESS ROAD	1	EA	PRINTER	
60	M	GENERIC UTILITY ITEM	6	EA	GENERIC SIGNAL ITEM	
		REMOVE EXISTING SEWER PIPE			BASE MOUNT CCTV CABINET	
		FROM CULVERT	2	EA	GENERIC SIGNAL ITEM	
901	MTN	GENERIC UTILITY ITEM			BASE MOUNT SPLICE CABINET	
		#67 BEDDING STONE	6	EA	GENERIC SIGNAL ITEM	
6,500	M	TEMPORARY SILT FENCE			CCTV ASSEMBLY	
2,020	MTN	STONE FOR EROSION CONTROL,	1	EA	GENERIC SIGNAL ITEM	
		CLASS A			CCTV JOYSTICK	
23,410	MTN	STONE FOR EROSION CONTROL,	6	EA	GENERIC SIGNAL ITEM	
		CLASS B			CCTV METAL POLE	
11,400	MTN	SEDIMENT CONTROL STONE	6	EA	GENERIC SIGNAL ITEM	
49.5	HA	TEMPORARY MULCHING			COLOR VIDEO MONITOR	
5,100	KG	SEED FOR TEMPORARY SEEDING	8	EA	GENERIC SIGNAL ITEM	
41	MTN	FERTILIZER FOR TEMPORARY SEED-	1	EA	EQUIPMENT CABINET FOUNDATION	
		ING			GENERIC SIGNAL ITEM	
2,380	M	TEMPORARY SLOPE DRAINS			FIBER OPTIC DATA TRANSCEIVER	
135	EA	INLET PROTECTION AT TEMPORARY	1	EA	(IN CABINET)	
		SLOPE DRAINS			GENERIC SIGNAL ITEM	
81,240	M3	SILT EXCAVATION	1	EA	FIBER OPTIC DATA TRANSCEIVER	
4,000	M2	SYNTHETIC ROVING			(IN RACK)	
2,600	M2	MATTING FOR EROSION CONTROL	6	EA	GENERIC SIGNAL ITEM	
520	M2	PERMANENT SOIL REINFORCEMENT			FIBER OPTIC VIDEO TRANSCEIVER	
		MAT			(IN CABINET)	
2,440	M	6.4MM HARDWARE CLOTH	6	EA	GENERIC SIGNAL ITEM	
80	M	***MM TEMPORARY PIPE			FIBER OPTIC VIDEO TRANSCEIVER	
		(450MM)			(IN RACK)	
1	EA	***X ***X***MM PERFORATED CS	3	EA	GENERIC SIGNAL ITEM	
		PIPE TEE RISER, 2.01MM THICK			RCU TERMINATION PANEL	
		(800MM X 800MM X 800MM)	3	EA	GENERIC SIGNAL ITEM	
350	M3	STILLING BASINS			RCU UNIT	
149	HA	SEEDING & MULCHING	2,400	M	GENERIC SIGNAL ITEM	
23.5	HA	MOWING			MULTI-DUCT (31.75MM)	
500	KG	SEED FOR REPAIR SEEDING				
1.75	MTN	FERTILIZER FOR REPAIR SEEDING				
3,400	KG	SEED FOR SUPPLEMENTAL SEEDING				
203.75	MTN	FERTILIZER TOPDRESSING				
1.5	HA	SPECIALIZED SEEDING UNDER				
		GUIDERAIL & GUARDRAIL (HARD				
		FESCUE/BLUEGRASS)				
50	M	IMPERVIOUS DIKE	Lump Sum	LS	CULVERT EXCAVATION, STA *****	
81	HR	SPECIALIZED HAND MOWING			(102+16.500 -L-)	
32	EA	RESPONSE FOR EROSION CONTROL	Lump Sum	LS	CULVERT EXCAVATION, STA *****	
320	M3	CULVERT DIVERSION CHANNEL			(85+89.214 -140 EX-)	
3	HA	REFORESTATION	666.7	MTN	FOUNDATION CONDITIONING MATER-	
1.62	HA	STREAMBANK REFORESTATION			IAL, BOX CULVERT	
80	EA	GENERIC EROSION CONTROL ITEM	958	M3	CLASS A CONCRETE (CULVERT)	
		ROOTWADS	87,643	KG	REINFORCING STEEL (CULVERT)	
1,650	M2	GENERIC EROSION CONTROL ITEM				
		COIR FIBER MATTING				
200	M	GENERIC EROSION CONTROL ITEM				
		TREE PROTECTION FENCE				
1,560	M	SIGNAL CABLE	Lump Sum	LS	MSE RETAINING WALL, STA *****	
42	EA	VEHICLE SIGNAL HEAD (300MM, 3			(0+05.622 -RPD-)	
		SECTION)	Lump Sum	LS	MSE RETAINING WALL, STA *****	
5	EA	VEHICLE SIGNAL HEAD (300MM, 5			(107+98.00 -L2LT-)	
		SECTION)	Lump Sum	LS	MSE RETAINING WALL, STA *****	
8	EA	LOUVER			(118+64.684 -L-)	
595	M	MESSENGER CABLE (9.52MM)	Lump Sum	LS	MSE RETAINING WALL, STA *****	
4,500	M	TRACER WIRE			(132+62.302 -L-)	
1,445	M	TRENCHING (PAVED)	Lump Sum	LS	MSE RETAINING WALL, STA *****	
910	M	TRENCHING (UNPAVED)			(132+96.639 -L-)	
650	M	DIRECTIONAL DRILL OUTER-DUCT	Lump Sum	LS	MSE RETAINING WALL, STA *****	
		CONDUIT, 125MM			(136+30.660 -L-LT)	
13,000	M	TRENCH MULTI-DUCT, 31.75MM (**	Lump Sum	LS	MSE RETAINING WALL, STA *****	
		CONDUIT)			(136+30.660 -L-RT)	
		(4)	Lump Sum	LS	MSE RETAINING WALL, STA *****	
2,600	M	MULTI-DUCT, 31.75MM IN OUTER-			(14+40.00 -RPAC-)	
		DUCT (** CONDUIT)	Lump Sum	LS	MSE RETAINING WALL, STA *****	
		(4)			(15+10.00 -RPAC-)	
27	EA	JUNCTION BOX (STANDARD SIZE)	Lump Sum	LS	MSE RETAINING WALL, STA *****	
36	EA	JUNCTION BOX (OVER-SIZED)			(4+90.960 -Y28-)	
21	EA	WOOD POLE	Lump Sum	LS	MSE RETAINING WALL, STA *****	
34	EA	GUY ASSEMBLY			(5+00.810 -Y28-)	
20	EA	50MM RISER WITH WEATHERHEAD	Lump Sum	LS	MSE RETAINING WALL, STA *****	
2,029	M	INDUCTIVE LOOP SAWCUT			(83+67.500 -140WB-)	
6,530	M	LEAD-IN CABLE				

### CULVERT ITEMS

### WALL ITEMS

## STRUCTURE ITEMS

	Lump Sum	LS	EVAZOTE JOINT SEALS
	Lump Sum	LS	EXPANSION JOINT SEALS
	Lump Sum	LS	MODULAR EXPANSION JOINT SEALS
	Lump Sum	LS	TEMPORARY RAILROAD SHORING FOR BENT ***, STATION ***** (1,120+49.924 -L-LT)
	Lump Sum	LS	TEMPORARY RAILROAD SHORING FOR BENT ***, STATION ***** (1,120+49.924 -L-RT)
	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,110+26.064 -L-NB-)
	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,120+49.924 -L-LT)
	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,120+49.924 -L-RT)
	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,18+08.293 -RP AC-)
	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,18+86.874 -L-SB-)
	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,110+26.064 -L-NB-)
	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,18+08.293 -RP AC-)
	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,18+86.874 -L-SB-)
	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,18+86.874 -L-SB-)
	18.2	M	*****MM DIA DRILLED PIERS IN SOIL (1372MM)
	14.8	M	*****MM DIA DRILLED PIERS NOT IN SOIL (1372MM)
	22,752.2	M2	REINFORCED CONCRETE DECK SLAB
	21,828.2	M2	GROOVING BRIDGE FLOORS
	2,971	M3	CLASS A CONCRETE (BRIDGE)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (109+17.439 -L-NB-)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (11+74.251 -RP AC-)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (110+26.064 -L-NB-)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (115+44.291 -L-NB-)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (120+49.924 -L-LT)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (120+49.924 -L-RT)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (135+86.839 -L-LT)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (135+86.839 -L-RT)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (18+08.293 -RP AC-)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (18+86.874 -L-SB-)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (20+39.866 -L-SB-)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (22+36.639 -L-SB-)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (25+57.061 -L-SB-)
	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (39+65.118 -I40 EB-)
	297,416	KG	REINFORCING STEEL (BRIDGE)
	8,546	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
	5,484,100	LS	APPROX ..... KG STRUCTURAL STEEL
	10,813.7	M	HP310X79 STEEL PILES
	1,764	M	HP360X108 STEEL PILES
	2,448.967	M	CONCRETE BARRIER RAIL
	12,825.4	M2	100MM SLOPE PROTECTION
	Lump Sum	LS	POT BEARINGS
	Lump Sum	LS	ELASTOMERIC BEARINGS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030715 002

CONTRACT ID : C200524 34820.3.18

DIV OFFICE GREENSBORO

LENGTH = 3.012 KM

COUNTY : GUILFORD

WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURES.

DBE GOAL 10.0% COMPLETION DATE : JUL 01 2007

WESTERN LOOP FROM NORTH OF SR-2147 (WEST FRIENDLY AVE) TO NORTH OF BRYAN BLVD.

ROADWAY ITEMS

			6	EA	***MM PIPE END SECTION (375MM)
			52.8	M	***MM CS PIPE CULVERTS, ****MM THICK (300MM, 1.63MM)
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING	25.2	M	400MM CS PIPE CULVERTS, 1.63MM THICK
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)	86.4	M	450MM CS PIPE CULVERTS, 1.63MM THICK
1.2	HA	SUPPLEMENTARY CLEARING & GRUBBING			
1,705,000	M3	UNCLASSIFIED EXCAVATION	2	EA	***MM CS PIPE ELBOWS, ****MM THICK (300MM, 1.63MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+33 -Y5-)	2	EA	***MM CS PIPE ELBOWS, ****MM THICK (450MM, 1.63MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (16+03 -RPBD-)	622.8	M	400MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (19+60 -RPBD-)	109.2	M	450MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (19+83 -RPCA-)	39.6	M	600MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+91 -RPCA-)	52.8	M	800MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (23+92 -Y6-/-Y7- LEFT)	8.4	M	900MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (23+92 -Y6-/-Y7- RIGHT)	13.2	M	1000MM BIT COAT CS PIPE CULVERTS, TYPE B 2.77MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (55+18 -L- LEFT)	1	EA	***MM BIT COAT CS PIPE ELBOWS, TYPE B ****MM THICK (300MM, 1.63MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (55+30 -L- RIGHT)	47	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
21,000	M3	UNDERCUT EXCAVATION	8	EA	450MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
9,637	M3	DRAINAGE DITCH EXCAVATION	1	EA	600MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
850	M	BERM DITCH CONSTRUCTION	3	EA	800MM BIT COAT CS PIPE ELBOWS, TYPE B 2.01MM THICK
10,500	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT	93	M	GENERIC PIPE ITEM 300MM POLYMER DRAIN LINE
32	HR	PROOF ROLLING	1,419.8	M	PIPE REMOVAL
12,450	M3	SELECT GRANULAR MATERIAL	5,312	M2	150MM SLOPE PROTECTION
6,810	M2	FABRIC FOR SOIL STABILIZATION	Lump Sum	LS	FINE GRADING
2,835	M2	TEMPORARY SHORING	86,155	M2	LIME TREATED SOIL (SLURRY METHOD)
815	M3	GENERIC GRADING ITEM CONTAMINATED SOILS EXCAVATION	948	MTN	LIME FOR LIME TREATED SOIL
2,800	M2	GENERIC GRADING ITEM ROCK PLATING	500	MTN	STABILIZER AGGREGATE
2,150	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	31,965	MTN	AGGREGATE BASE COURSE
36	M	375MM SIDE DRAIN PIPE	57,437	M2	***MM SOIL CEMENT BASE (180MM)
1,944	M	375MM RC PIPE CULVERTS, CLASS III	1,723	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE
822	M	450MM RC PIPE CULVERTS, CLASS III	388	MTN	AGGREGATE FOR SOIL CEMENT BASE
1,316.4	M	600MM RC PIPE CULVERTS, CLASS III	97,700	L	ASPHALT CURING SEAL
295.2	M	750MM RC PIPE CULVERTS, CLASS III	500	MTN	INCIDENTAL STONE BASE
603.6	M	900MM RC PIPE CULVERTS, CLASS III	17,864	M3	SHOULDER BORROW
316.8	M	1050MM RC PIPE CULVERTS, CLASS III	7,700	L	PRIME COAT
42	M	1200MM RC PIPE CULVERTS, CLASS III	16,729	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B
34.8	M	1350MM RC PIPE CULVERTS, CLASS III	22,679	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
109.2	M	1500MM RC PIPE CULVERTS, CLASS III	15,641	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B
82.8	M	****MM RC PIPE CULVERTS, CLASS IV (1050MM)	16,078	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0C
106.8	M	****MM RC PIPE CULVERTS, CLASS IV (1200MM)	11,811	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
121.2	M	****MM RC PIPE CULVERTS, CLASS IV (1650MM)	2,126	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
			23,037	MTN	ASPHALT CONC SURFACE COURSE, TYPE S12.5C
			3,953	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
			1,406	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
			100	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR
			39,344	M2	***MM PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (270MM)

			195	MTN	PLAIN RIP RAP, CLASS II		
			64	MTN	PLAIN RIP RAP, CLASS A		
			1,920	MTN	PLAIN RIP RAP, CLASS B		
Lump Sum	LS	SURFACE TESTING CONCRETE PAVEMENT	10,960	M2	FILTER FABRIC FOR DRAINAGE		
Lump Sum	LS	FIELD LABORATORY RENTAL, PORT CEM CONC PAVEMENT	119	M2	GENERIC WALL ITEM		
1,656	M3	SUBDRAIN EXCAVATION	1	M3	REINFORCED CONCRETE SIGN FOOTINGS		
828	M3	SUBDRAIN FINE AGGREGATE	1	M3	PLAIN CONCRETE SIGN FOOTINGS		
2,000	M	150MM PERFORATED SUBDRAIN PIPE	389	KG	SUPPORTS, BREAKAWAY STEEL BEAM		
200	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS	490	KG	SUPPORTS, SIMPLE STEEL BEAM		
14	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	370	M	SUPPORTS, 4.5KG STEEL U-CHANNEL		
28	M	150MM OUTLET PIPE (SUBDRAINS)	50	EA	SIGN ERECTION, TYPE E		
2,961	M	SHOULDER DRAIN	7	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)		
2,961	M	100MM SHOULDER DRAIN PIPE	12	EA	DISPOSAL OF SUPPORT, STEEL BEAM		
66	M	100MM OUTLET PIPE (SHOULDER DRAINS)	57	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL		
19	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	1	EA	GENERIC SIGNING ITEM		
10	MTN	BLOTTING SAND	1	EA	DMS SYSTEM CLIENT COMPUTER		
32.6	M3	ENDWALLS	1	EA	GENERIC SIGNING ITEM		
8.6	M3	REINFORCED ENDWALLS	1	EA	DMS SYSTEM CONTROL SOFTWARE		
8	M3	PIPE COLLARS	1	EA	GENERIC SIGNING ITEM		
2	M3	PIPE PLUGS	1	EA	DMS SYSTEM LAPTOP COMPUTER		
197	EA	MASONRY DRAINAGE STRUCTURES	1	EA	GENERIC SIGNING ITEM		
3.2	M3	MASONRY DRAINAGE STRUCTURES	Lump Sum	LS	DMS SYSTEM SERVER COMPUTER		
34.72	M	MASONRY DRAINAGE STRUCTURES	Lump Sum	LS	GENERIC SIGNING ITEM		
1	EA	FRAME WITH GRATE, STD 840.**** (840.24)	Lump Sum	LS	DYNAMIC MESSAGE SIGN MAINTENANCE TRAINING		
4	EA	FRAME WITH GRATE, STD 840.22	Lump Sum	LS	GENERIC SIGNING ITEM		
1	EA	FRAME WITH TWO GRATES, STD 840.***** (840.20)	Lump Sum	LS	DYNAMIC MESSAGE SIGN BENCH TEST UNIT		
5	EA	FRAME WITH TWO GRATES, STD 840.16	Lump Sum	LS	GENERIC SIGNING ITEM		
152	EA	FRAME WITH TWO GRATES, STD 840.22	Lump Sum	LS	DYNAMIC MESSAGE SIGN SYSTEM DESIGN APPROVAL TESTS		
14	EA	FRAME WITH TWO GRATES, STD 840.24	Lump Sum	LS	GENERIC SIGNING ITEM		
2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	Lump Sum	LS	DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FACTORY TESTS		
8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	Lump Sum	LS	GENERIC SIGNING ITEM		
11	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	Lump Sum	LS	DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FIELD TESTS		
4	EA	FRAME WITH COVER, STD 840.54	Lump Sum	LS	GENERIC SIGNING ITEM		
1	EA	STEEL FRAME WITH TWO GRATES, STD 840.37	Lump Sum	LS	LRs LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B"		
123	M3	CONCRETE RETAINING WALLS	Lump Sum	LS	GENERIC SIGNING ITEM		
1,405	M	750MM CONCRETE CURB & GUTTER	Lump Sum	LS	LRs LIGHTING FOR OVERHEAD SIGN ASSEMBLY "C"		
150	M	SHOULDER BERM GUTTER	Lump Sum	LS	GENERIC SIGNING ITEM		
1	EA	MODIFIED CONCRETE FLUME	Lump Sum	LS	LRs LIGHTING FOR OVERHEAD SIGN ASSEMBLY "D"		
1,955	M	CONCRETE EXPRESSWAY GUTTER	Lump Sum	LS	GENERIC SIGNING ITEM		
12	M2	CONCRETE WHEELCHAIR RAMPS	Lump Sum	LS	LRs LIGHTING FOR OVERHEAD SIGN ASSEMBLY "E"		
217	M2	100MM CONCRETE PAVED DITCH	Lump Sum	LS	GENERIC SIGNING ITEM		
480	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	Lump Sum	LS	LRs LIGHTING FOR OVERHEAD SIGN ASSEMBLY "F"		
9	EA	ADJUSTMENT OF DROP INLETS	Lump Sum	LS	GENERIC SIGNING ITEM		
10	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	Lump Sum	LS	LRs LIGHTING FOR OVERHEAD SIGN ASSEMBLY "G"		
12,900.66	M	STEEL BM GUARDRAIL	Lump Sum	LS	GENERIC SIGNING ITEM		
2	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS	Lump Sum	LS	LRs LIGHTING FOR OVERHEAD SIGN ASSEMBLY "H"		
10	EA	ADDITIONAL GUARDRAIL POSTS	Lump Sum	LS	GENERIC SIGNING ITEM		
23	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	Lump Sum	LS	LRs LIGHTING FOR OVERHEAD SIGN ASSEMBLY "I"		
26	EA	GUARDRAIL ANCHOR UNITS, TYPE III	Lump Sum	LS	GENERIC SIGNING ITEM		
38	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	Lump Sum	LS	LRs LIGHTING FOR OVERHEAD SIGN ASSEMBLY "J"		
4	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350	Lump Sum	LS	GENERIC SIGNING ITEM		
19	EA	GUARDRAIL ANCHOR UNITS, TYPE XI (MOD)	Lump Sum	LS	LRs LIGHTING FOR OVERHEAD SIGN ASSEMBLY "K"		
1,262.3	M	REMOVE EXISTING GUARDRAIL	Lump Sum	LS	GENERIC SIGNING ITEM		
495.3	M	TEMPORARY STEEL BM GUARDRAIL	Lump Sum	LS	OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-1"		
2	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** TEMPORARY (CAT-1)	Lump Sum	LS	GENERIC SIGNING ITEM		
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY	Lump Sum	LS	OVERHEAD SIGN ASSEMBLY "A"		
7,316	M	CHAIN LINK FENCE, 1200MM FABRIC	Lump Sum	LS	GENERIC SIGNING ITEM		
2,011	EA	METAL LINE POSTS FOR 1200MM CHAIN LINK FENCE	Lump Sum	LS	OVERHEAD SIGN ASSEMBLY "B"		
106	EA	METAL TERMINAL POSTS FOR 1200MM CHAIN LINK FENCE	Lump Sum	LS	GENERIC SIGNING ITEM		
1,360	MTN	PLAIN RIP RAP, CLASS I	Lump Sum	LS	OVERHEAD SIGN ASSEMBLY "C"		
			Lump Sum	LS	GENERIC SIGNING ITEM		
			Lump Sum	LS	OVERHEAD SIGN ASSEMBLY "D"		
			Lump Sum	LS	GENERIC SIGNING ITEM		
			Lump Sum	LS	OVERHEAD SIGN ASSEMBLY "E"		
			Lump Sum	LS	GENERIC SIGNING ITEM		
			Lump Sum	LS	OVERHEAD SIGN ASSEMBLY "F"		
			Lump Sum	LS	GENERIC SIGNING ITEM		
			Lump Sum	LS	OVERHEAD SIGN ASSEMBLY "G"		

				76	M	***MM DI SEWER PIPE, PC ***MPA (400MM, 2.41MPA)
				2	EA	SANITARY SEWER CLEAN-OUT
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "H"		6	EA	***MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1200MM)
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "I"		11.7	M	PRECAST CONC MANHOLE WALL, ***MM DIA, OVER 1.8M HT (1200MM)
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "J"		1	EA	BREAK DOWN, PLUG, & FILL ABANDONED UTILITY MANHOLE
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "K"		8	EA	GENERIC UTILITY ITEM 400MM RESTRAINED RETAINER GLAND, 1.72MPA WP
	66	M2	WORK ZONE SIGNS (STATIONARY)			
	93	M2	WORK ZONE SIGNS (PORTABLE)			
	107	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)	138	MTN	GENERIC UTILITY ITEM #67 BEDDING STONE
	6	EA	FLASHING ARROW PANELS, TYPE C	1,605	M	TEMPORARY SILT FENCE
	4	EA	CHANGEABLE MESSAGE SIGNS	1,590	MTN	STONE FOR EROSION CONTROL, CLASS A
	10	EA	WARNING FLAG SETS			
	512	EA	DRUMS	10,030	MTN	STONE FOR EROSION CONTROL, CLASS B
	50	EA	CONES			
	342	M	BARRICADES (TYPE III)	6,850	MTN	SEDIMENT CONTROL STONE
1,600	HR		FLAGGER	11	HA	TEMPORARY MULCHING
	4	EA	WARNING LIGHTS (TYPE B)	1,400	KG	SEED FOR TEMPORARY SEEDING
	8	EA	TEMPORARY CRASH CUSHIONS	11.25	MTN	FERTILIZER FOR TEMPORARY SEEDING
	4	EA	RESET TEMPORARY CRASH CUSHIONS			
	2	EA	TRUCK MOUNTED IMPACT ATTENUATOR (60 MPH)	250	M	TEMPORARY SLOPE DRAINS
	340	M	PORTABLE CONCRETE BARRIER	16	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
	340	M	PORTABLE CONCRETE BARRIER (DRAINAGE)	46,931	M3	SILT EXCAVATION
	243	EA	TUBULAR MARKERS (FIXED)	3,025	M2	SYNTHETIC ROVING
1,562	M		REMOVABLE TAPE PAVEMENT MARKING LINES (100MM)	1,525	M2	MATTING FOR EROSION CONTROL
	1	EA	REMOVABLE TAPE PAVEMENT MARKING SYMBOL	1,450	M	6.4MM HARDWARE CLOTH
	311	EA	TEMPORARY RAISED PAVEMENT MARKERS	50	M	***MM TEMPORARY PIPE (450MM)
25,588	M		THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)	830	M3	STILLING BASINS
8,647	M		THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)	33.5	HA	SEEDING & MULCHING
3,211	M		THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)	4.5	HA	MOWING
	34	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)	100	KG	SEED FOR REPAIR SEEDING
	8	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)	0.25	MTN	FERTILIZER FOR REPAIR SEEDING
	31	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)	925	KG	SEED FOR SUPPLEMENTAL SEEDING
1,252	M		COLD APPLIED PLASTIC PAVEMENT MARKING LINES (100MM)	56	MTN	FERTILIZER TOPDRESSING
	4	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (200MM)	1.8	HA	SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (HARD FESCUE/BLUEGRASS)
	3	EA	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL	150	M	IMPERVIOUS DIKE
39,122	M		PAINT PAVEMENT MARKING LINES (100MM)	96	HR	SPECIALIZED HAND MOWING
10,050	M		PAINT PAVEMENT MARKING LINES (150MM)	28	EA	RESPONSE FOR EROSION CONTROL
	318	M	PAINT PAVEMENT MARKING LINES (200MM)	1,800	M3	CULVERT DIVERSION CHANNEL
	68	M	PAINT PAVEMENT MARKING LINES (600MM)	3	HA	REFORESTATION
	39	EA	PAINT PAVEMENT MARKING SYMBOL	0.38	HA	STREAMBANK REFORESTATION
3,596	M		GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING LINES (150MM)	215	M	MESSENGER CABLE (****MM) (6MM)
1,349	EA		PERMANENT RAISED PAVEMENT MARKERS	3,000	M	TRACER WIRE
	73	EA	FLEXIBLE DELINEATORS (CRYSTAL)	300	M	DIRECTIONAL DRILL OUTER-DUCT CONDUIT, 125MM
	24	EA	FLEXIBLE DELINEATORS (YELLOW)	10,500	M	TRENCH MULTI-DUCT, 31.75MM (** CONDUIT) (4)
138	MTN		FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (VI)	1,200	M	MULTI-DUCT, 31.75MM IN OUTER-DUCT (** CONDUIT) (4)
	5	MTN	PAVEMENT REPAIR FOR UTILITY WORK	27	EA	JUNCTION BOX (OVER-SIZED)
251	M		300MM DI WATER PIPE, PC 2.41MPA	8	EA	WOOD POLE
330	M		400MM DI WATER PIPE, PC ***MPA (2.41MPA)	10	EA	GUY ASSEMBLY
1,074	KG		DUCTILE IRON WATER PIPE FITTINGS, 1.72MPA MIN WP	6	EA	****MM RISER WITH ***** (2", HEAT SHRINK TUBING)
	1	EA	***MM GATE VALVE & VALVE BOX, ****MPA WP (400MM, 1.38MPA)	3,500	M	COMMUNICATIONS CABLE (**FIBER) (144)
	3	EA	300MM GATE VALVE & VALVE BOX, ****MPA WP (1.38MPA)	40	M	DROP CABLE
	10	M	***MM PVC SEWER PIPE, SDR 35 (100MM)	4	EA	AERIAL SPLICE ENCLOSURE
186	M		***MM DI SEWER PIPE, CLASS *** (200MM, 53)	2	EA	INTERCONNECT CENTER
136	M		***MM DI SEWER PIPE, CLASS *** (400MM, 53)	39	EA	DELINEATOR MARKER
				1	EA	FURNISH FIBER-OPTIC RESTORATION KIT
				1	EA	FURNISH FIBER-OPTIC POWER METER
				1	EA	FURNISH OPTICAL LIGHT GENERATOR
				1	EA	FURNISH FIBER-OPTIC TRANSCEIVER
				1	EA	NOTEBOOK COMPUTER
				2	EA	TRAFFIC SIGNAL REMOVAL
				3	EA	GENERIC SIGNAL ITEM BASE MOUNT CCTV CABINET
				2	EA	GENERIC SIGNAL ITEM BASE MOUNT SPLICE CABINET
				3	EA	GENERIC SIGNAL ITEM CCTV ASSEMBLY
				1	EA	GENERIC SIGNAL ITEM CCTV JOYSTICK
				3	EA	GENERIC SIGNAL ITEM CCTV METAL POLE

			Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,19+61.051 -RPCA-)	
1	EA	GENERIC SIGNAL ITEM CCTV TEST MONITOR	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,19+85.137 -RPBD-)	
3	EA	GENERIC SIGNAL ITEM COLOR VIDEO MONITOR	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,22+94.604 -RPCA-)	
5	EA	GENERIC SIGNAL ITEM EQUIPMENT CABINET FOUNDATION	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,67+72.110 -L-)	
2	EA	GENERIC SIGNAL ITEM FIBER OPTIC DATA TRANSCEIVER (IN CABINET)	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,73+34.540 -L- RT)	
1	EA	GENERIC SIGNAL ITEM FIBER OPTIC DATA TRANSCEIVER (IN RACK)	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,73+48.544 -L- LT)	
3	EA	GENERIC SIGNAL ITEM FIBER OPTIC VIDEO TRANSCEIVER (IN CABINET)	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,22+94.604 -RPCA-)	
3	EA	GENERIC SIGNAL ITEM FIBER OPTIC VIDEO TRANSCEIVER (IN RACK)	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,67+72.110 -L-)	
Lump Sum	LS	GENERIC SIGNAL ITEM CCTV CENTRAL SOFTWARE	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (4,67+72.110 -L-)	
Lump Sum	LS	GENERIC SIGNAL ITEM TRAINING	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION *****	
100	M	GENERIC SIGNAL ITEM MULTI-DUCT (31.75MM)				
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (9+83.00-Y2-)	13,457.7	M2	REINFORCED CONCRETE DECK SLAB	
			11,794.5	M2	GROOVING BRIDGE FLOORS	
			2,717.5	M3	CLASS A CONCRETE (BRIDGE)	
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (16+02.423 -RPBD-)	
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (19+61.051 -RPCA-)	
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (19+85.137 -RPBD-)	
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (22+94.604 -RPCA-)	
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (55+23.974 -L- LT)	
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (55+23.974 -L- RT)	
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (67+72.110 -L-)	
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (73+34.540 -L- RT)	
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (73+48.544 -L- LT)	
			243,743	KG	REINFORCING STEEL (BRIDGE)	
			7,317	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	
			2,221,400	LS	APPROX ..... KG STRUCTURAL STEEL	

**CULVERT ITEMS**

Lump Sum	LS	CULVERT EXCAVATION, STA ***** (18+27.000-RP CA-)				
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (25+07.000-RMP CA-)				
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (54+14.714-L-)				
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (59+78.290-L-)				
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (73+42.563-L-)				
2,260	MTN	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT				
4,946.4	M3	CLASS A CONCRETE (CULVERT)				
362,219	KG	REINFORCING STEEL (CULVERT)				
99.3	MTN	GENERIC CULVERT ITEM CLASS I RIP RAP				
101.3	M2	GENERIC CULVERT ITEM FILTER FABRIC				

**WALL ITEMS**

Lump Sum	LS	MSE RETAINING WALL, STA ***** (13+03.000 -RAMPC-)	8,357	M	HP310X79 STEEL PILES	
Lump Sum	LS	MSE RETAINING WALL, STA ***** (17+00 -RPCA-)	330	M	HP360X108 STEEL PILES	
Lump Sum	LS	MSE RETAINING WALL, STA ***** (17+00 -RPD-)	42	EA	STEEL PILE POINTS	
Lump Sum	LS	MSE RETAINING WALL, STA ***** (17+00 -RPD-)	159.645	M	THREE BAR METAL RAIL	
Lump Sum	LS	MSE RETAINING WALL, STA ***** (19+00 -RPD-)	1,600.775	M	CONCRETE BARRIER RAIL	
			5,312	M2	100MM SLOPE PROTECTION	
			Lump Sum	LS	POT BEARINGS	
			Lump Sum	LS	ELASTOMERIC BEARINGS	
			Lump Sum	LS	EVAZOTE JOINT SEALS	
			Lump Sum	LS	EXPANSION JOINT SEALS	
			Lump Sum	LS	MODULAR EXPANSION JOINT SEALS	

**STRUCTURE ITEMS**

Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,16+02.423 -RPBD-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,19+61.051 -RPCA-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,19+85.137 -RPBD-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,22+94.604 -RPCA-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,67+72.110 -L-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,73+34.540 -L- RT)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,73+48.544 -L- LT)				



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

L030715 003

CONTRACT ID : C200734 34154.3.14

DIV OFFICE GREENSBORO

LENGTH = 6.921 KM

COUNTY : GUILFORD

WIDENING, GRADING, DRAINAGE, PAVING, LIGHTING &amp; STRS.

DBE GOAL 10.0% COMPLETION DATE : JUL 01 2007

GREENSBORO WESTERN LOOP FROM I-40 TO NORTH OF BRYAN BOULEVARD.

ROADWAY ITEMS						
			2,190,400	M3	BORROW EXCAVATION	
			4	EA	EMBANKMENT SETTLEMENT GAUGES	
			62,637	M3	DRAINAGE DITCH EXCAVATION	
			850	M	BERM DITCH CONSTRUCTION	
Lump Sum	LS	MOBILIZATION				
Lump Sum	LS	CONSTRUCTION SURVEYING				
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)				
2.8	HA	SUPPLEMENTARY CLEARING & GRUBBING	1,300	M2	REMOVAL OF EXISTING CONCRETE PAVEMENT	
4	EA	SEALING ABANDONED WELLS	250	M2	BREAKING OF EXISTING ASPHALT PAVEMENT	
2,042,000	M3	UNCLASSIFIED EXCAVATION	82	HR	PROOF ROLLING	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (109+13.980 -LNB-)	19,450	M3	SELECT GRANULAR MATERIAL	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (11+73.750 -RPAC-)	11,810	M2	FABRIC FOR SOIL STABILIZATION	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (110+65.100 -LNB-)	2,835	M2	TEMPORARY SHORING	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (115+44.630 -LNB-)	75	M2	TEMPORARY SHORING - BARRIER SUPPORTED	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (120+42.070 -L- SB)	815	M3	GENERIC GRADING ITEM CONTAMINATED SOILS EXCAVATION	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (120+48.520 -L- NB)	3,886	M2	GENERIC GRADING ITEM ROCK PLATING	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+33 -Y5-)	16,800	MTN	SELECT MATERIAL, CLASS II	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (135+87.160 -L- NB)	8,850	MTN	SELECT MATERIAL, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (16+03 -RPBD-)	2,600	MTN	SELECT MATERIAL, CLASS IV	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (18+45.710 -RPAC-)	5,930	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (19+60 -RPBD-)	280.8	M	375MM SIDE DRAIN PIPE	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (19+83 -RPCA-)	43.2	M	450MM SIDE DRAIN PIPE	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (20+45.630 -LSB-)	24	M	600MM SIDE DRAIN PIPE	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+41.650 -LSB-)	204	M	300MM RC PIPE CULVERTS, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+91 -RPCA-)	6,333.2	M	375MM RC PIPE CULVERTS, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (23+92 -Y6-/-Y7- LEFT)	2,138.4	M	450MM RC PIPE CULVERTS, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (23+92 -Y6-/-Y7- RIGHT)	2,778	M	600MM RC PIPE CULVERTS, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	914.4	M	750MM RC PIPE CULVERTS, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	829.2	M	900MM RC PIPE CULVERTS, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	687.6	M	1050MM RC PIPE CULVERTS, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	536.4	M	1200MM RC PIPE CULVERTS, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	106.8	M	1350MM RC PIPE CULVERTS, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	290.4	M	1500MM RC PIPE CULVERTS, CLASS III	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	494.4	M	***MM RC PIPE CULVERTS, CLASS IV (1050MM)	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	106.8	M	***MM RC PIPE CULVERTS, CLASS IV (1200MM)	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	80.4	M	***MM RC PIPE CULVERTS, CLASS IV (1350MM)	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	205.2	M	***MM RC PIPE CULVERTS, CLASS IV (1500MM)	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	121.2	M	***MM RC PIPE CULVERTS, CLASS IV (1650MM)	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	100.8	M	***MM RC PIPE CULVERTS, CLASS IV (450MM)	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	86.4	M	***MM RC PIPE CULVERTS, CLASS IV (600MM)	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	230.4	M	***MM RC PIPE CULVERTS, CLASS IV (750MM)	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	117.6	M	***MM RC PIPE CULVERTS, CLASS IV (900MM)	
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (25+57.240 -LSB-)	6	EA	***MM PIPE END SECTION (375MM)	
45,500	M3	UNDERCUT EXCAVATION	52.8	M	***MM CS PIPE CULVERTS, ***MM THICK (300MM, 1.63MM)	
1,600	MTN	CLASS IV SUBGRADE STABILIZATION				

				39,344	M2	***MM PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (270MM)
25.2	M	400MM CS PIPE CULVERTS, 1.63MM THICK		82,500	M2	***MM PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (280MM)
86.4	M	450MM CS PIPE CULVERTS, 1.63MM THICK		7,850	M2	***MM PORT CEM CONC PAVEMENT, THROUGH LANES (WITH DOWELS) (360MM)
2	EA	***MM CS PIPE ELBOWS, ***** THICK (300MM, 1.63MM)		Lump Sum	LS	SURFACE TESTING CONCRETE PAVEMENT
2	EA	***MM CS PIPE ELBOWS, ***** THICK (450MM, 1.63MM)		450	M2	CONCRETE SHOULDERS ADJACENT TO ***MM PAVEMENT (280MM)
1,515.6	M	400MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK		Lump Sum	LS	FIELD LABORATORY RENTAL, PORT CEM CONC PAVEMENT
285.6	M	450MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK		2,506	M3	SUBDRAIN EXCAVATION
120	M	600MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK		1,253	M3	SUBDRAIN FINE AGGREGATE
93.6	M	800MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK		3,000	M	150MM PERFORATED SUBDRAIN PIPE
8.4	M	900MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK		234	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS
13.2	M	1000MM BIT COAT CS PIPE CULVERTS, TYPE B 2.77MM THICK		21	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
1	EA	***MM BIT COAT CS PIPE ELBOWS, TYPE B ***** THICK (300MM, 1.63MM)		42	M	150MM OUTLET PIPE (SUBDRAINS)
131	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK		9,343	M	SHOULDER DRAIN
22	EA	450MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK		9,343	M	100MM SHOULDER DRAIN PIPE
7	EA	600MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK		309	M	100MM OUTLET PIPE (SHOULDER DRAINS)
4	EA	800MM BIT COAT CS PIPE ELBOWS, TYPE B 2.01MM THICK		38	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET
22.8	M	***** WELDED STEEL PIPE, ***** THICK, GRADE B, INSTALLED BY BORING & JACKING (1650MM, 22MM)		60	MTN	BLOTTING SAND
45.6	M	***** WELDED STEEL PIPE, ***** THICK, GRADE B, INSTALLED BY BORING & JACKING (600MM, 12.7MM)		57.4	M3	ENDWALLS
93	M	GENERIC PIPE ITEM 300MM POLYMER DRAIN LINE PIPE REMOVAL		24.8	M3	REINFORCED ENDWALLS
4,925.8	M	150MM SLOPE PROTECTION		10.7	M3	PIPE COLLARS
5,737	M2	FINE GRADING		2.15	M3	PIPE PLUGS
Lump Sum	LS	LIME TREATED SOIL (SLURRY METHOD)		525	EA	MASONRY DRAINAGE STRUCTURES
179,405	M2	LIME FOR LIME TREATED SOIL STABILIZER AGGREGATE		30.2	M3	MASONRY DRAINAGE STRUCTURES
1,978	MTN	AGGREGATE BASE COURSE		72.76	M	MASONRY DRAINAGE STRUCTURES
500	MTN	***MM SOIL CEMENT BASE (180MM)		1	EA	FRAME WITH GRATE, STD 840.**** (840.24)
96,765	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE		5	EA	FRAME WITH GRATE, STD 840.22
119,637	M2	AGGREGATE FOR SOIL CEMENT BASE		82	EA	FRAME WITH TWO GRATES, STD 840.***** (840.20)
3,593	MTN	ASPHALT CURING SEAL		25	EA	FRAME WITH TWO GRATES, STD 840.16
1,018	MTN	INCIDENTAL STONE BASE		238	EA	FRAME WITH TWO GRATES, STD 840.22
111,700	L	PRIME COAT		23	EA	FRAME WITH TWO GRATES, STD 840.24
1,000	MTN	MILLING ASPHALT PAVEMENT, **MM DEPTH (30MM)		8	EA	FRAME WITH TWO GRATES, STD 840.29
7,700	L	ASPHALT CONC BASE COURSE, TYPE B25.0B		8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
1,950	M2	ASPHALT CONC BASE COURSE, TYPE B25.0C		32	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
34,829	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B		42	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
42,679	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0C		20	EA	FRAME WITH COVER, STD 840.54
35,641	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0D		3	EA	STEEL FRAME WITH TWO GRATES, STD 840.37
20,678	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5A		123	M3	CONCRETE RETAINING WALLS
9,300	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B		6,605	M	750MM CONCRETE CURB & GUTTER
1,320	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C		350	M	SHOULDER BERM GUTTER
36,811	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5D		2	EA	MODIFIED CONCRETE FLUME
5,726	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22		6,655	M	CONCRETE EXPRESSWAY GUTTER
23,037	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22		3,550	M2	100MM CONCRETE SIDEWALK
5,900	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 76-22		187	M2	CONCRETE WHEELCHAIR RAMPS
8,931	MTN	PERMEABLE ASPHALT DRAINAGE COURSE, TYPE P-78M		437	M2	100MM CONCRETE PAVED DITCH
2,078	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR		700	M2	125MM MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)
325	MTN			170	M	CONCRETE BARRIER, TYPE ***** (T2)
15,725	MTN			2,430	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED
825	MTN			1,080	M2	GENERIC PAVING ITEM 100MM CONCRETE COVER
				10,500	M2	GENERIC PAVING ITEM 150MM CONCRETE COVER
				9	EA	ADJUSTMENT OF DROP INLETS
				11	EA	ADJUSTMENT OF MANHOLES
				51	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
				3	EA	IMPACT ATTENUATOR UNIT, TYPE 350
				25,408.89	M	STEEL BM GUARDRAIL
				2	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS
				10	EA	ADDITIONAL GUARDRAIL POSTS
				39	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1

			Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM "DMS-1"
55	EA	GUARDRAIL ANCHOR UNITS, TYPE III	Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM "DMS-2"
63	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	Lump Sum	LS	GENERIC SIGNING ITEM INTEGRATION INTO EXT DMS SYSTEM
4	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING SYSTEM FOR PEDESTAL SIGN ASSEMBLY "L"
32	EA	GUARDRAIL ANCHOR UNITS, TYPE XI (MOD)	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING SYSTEM WITHOUT WALK- WAY FOR ASSEMBLY "DMS-1", SIGN 15
2,287.3	M	REMOVE EXISTING GUARDRAIL	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "A"
613.41	M	TEMPORARY STEEL BM GUARDRAIL	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B"
3	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** TEMPORARY (CAT-1)	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "C"
5	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "D"
17,216	M	CHAIN LINK FENCE, 1200MM FABRIC	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "E"
4,721	EA	METAL LINE POSTS FOR 1200MM CHAIN LINK FENCE	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "F"
236	EA	METAL TERMINAL POSTS FOR 1200MM CHAIN LINK FENCE	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "G"
2	EA	METAL GATE POSTS FOR ***** CHAIN LINK FENCE, SINGLE GATE (1200MM)	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "H"
1	EA	SINGLE GATES, *****MM HIGH, *****MM WIDE, *****MM OPENING (1200MM, 4500MM, 4500MM)	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "I"
2,135	MTN	PLAIN RIP RAP, CLASS I	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "J"
195	MTN	PLAIN RIP RAP, CLASS II	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "K"
64	MTN	PLAIN RIP RAP, CLASS A	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "L"
5,370	MTN	PLAIN RIP RAP, CLASS B	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "M"
24,160	M2	FILTER FABRIC FOR DRAINAGE	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "N"
1,400	M3	GENERIC WALL ITEM SELECT GRANULAR MATERIAL FOR TEMPORARY FABRIC WALL	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "O"
5,000	M2	GENERIC WALL ITEM FABRIC FOR TEMPORARY FABRIC WALL	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "P"
119	M2	GENERIC WALL ITEM PILE / PANEL RETAINING WALL	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "Q"
5	M3	REINFORCED CONCRETE SIGN FOOT- INGS	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "R"
2	M3	PLAIN CONCRETE SIGN FOOTINGS	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "S"
2,000	KG	SUPPORTS, BREAKAWAY STEEL BEAM	Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING FOR OVERHEAD SIGN ASSEMBLY "T"
1,089	KG	SUPPORTS, SIMPLE STEEL BEAM	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-1"
902.6	M	SUPPORTS, 4.5KG STEEL U-CHANNEL	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-2"
2	EA	SIGN ERECTION, TYPE D	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "A"
145	EA	SIGN ERECTION, TYPE E	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "B"
5	EA	SIGN ERECTION, TYPE F	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "C"
5	EA	SIGN ERECTION, TYPE *** (OVER- HEAD) (A)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "D"
3	EA	SIGN ERECTION, TYPE *** (OVER- HEAD) (B)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "E"
16	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "F"
1	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "G"
12	EA	DISPOSAL OF SUPPORT, STEEL BEAM	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "H"
3	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "I"
69	EA	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "J"
6	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "J"
1	EA	GENERIC SIGNING ITEM DMS SYSTEM CLIENT COMPUTER	Lump Sum	LS	
1	EA	GENERIC SIGNING ITEM DMS SYSTEM CONTROL SOFTWARE	Lump Sum	LS	
1	EA	GENERIC SIGNING ITEM DMS SYSTEM LAPTOP COMPUTER	Lump Sum	LS	
1	EA	GENERIC SIGNING ITEM DMS SYSTEM SERVER COMPUTER	Lump Sum	LS	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN BENCH TEST UNIT	Lump Sum	LS	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN MAINTENANCE TRAINING	Lump Sum	LS	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM DESIGN APPROVAL TESTS	Lump Sum	LS	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FACTORY TESTS	Lump Sum	LS	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FIELD TESTS	Lump Sum	LS	

				9	EA	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING SYMBOL	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "K"		1,866	EA	PERMANENT RAISED PAVEMENT MARKERS	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "L"		1,573	EA	SNOWFLOWABLE RAISED PAVEMENT MARKERS	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "M"		15	EA	2.1M U-CHANNEL POSTS	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "N"		308	EA	FLEXIBLE DELINEATORS (CRYSTAL)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "O"		149	EA	FLEXIBLE DELINEATORS (YELLOW)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "P"		10	EA	FLEXIBLE DELINEATORS (CRYSTAL & RED)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "Q"		10	EA	FLEXIBLE DELINEATORS (YELLOW & RED)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "R"		15	EA	OBJECT MARKERS (END OF ROAD)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "S"		20	EA	30.5M HIGH MOUNT STANDARD	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "T"		2	EA	PORTABLE DRIVE UNIT	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "U"		84	M3	HIGH MOUNT FOUNDATIONS	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "V"		80	EA	HIGH MOUNT LUMINAIRES ***** (1KW HPS)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "W"		132	EA	LIGHT STANDARD, TYPE MTLT ***** (13.7M SA 4.6M)	
172	M2	WORK ZONE SIGNS (STATIONARY)		169	EA	LIGHT STANDARD, TYPE MTLT ***** (13.7M TA 4.6M)	
184	M2	WORK ZONE SIGNS (PORTABLE)		12	EA	LIGHT STANDARD, TYPE MTLT ***** (13.7M TWIN ARM 4.6M ON BREAK- AWAY BASE)	
123	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)		115	EA	STANDARD FOUNDATIONS ***** (TYPE R1)	
10	EA	FLASHING ARROW PANELS, TYPE C		29	EA	STANDARD FOUNDATIONS ***** (TYPE R2)	
6	EA	CHANGEABLE MESSAGE SIGNS		7	EA	LIGHT STANDARD LUMINAIRES, TYPE RDW 250W HPS	
39	EA	WARNING FLAG SETS		494	EA	LIGHT STANDARD LUMINAIRES, TYPE RDW 400W HPS	
2,312	EA	DRUMS		20	EA	ELECTRIC SERVICE POLES *** ***** (9.1M CLASS 4)	
150	EA	CONES		456	M	ELECTRIC SERVICE LATERAL ***** (3 #1/0 USE)	
488	M	BARRICADES (TYPE III)		2	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (120/240 VOLT)	
4,400	HR	FLAGGER		20	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (240/480 VOLT)	
12	EA	WARNING LIGHTS (TYPE B)		316	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS2)	
14	EA	TEMPORARY CRASH CUSHIONS		191	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS3)	
7	EA	RESET TEMPORARY CRASH CUSHIONS		194	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS2)	
2	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (45 MPH)		433	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS3)	
6	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (60 MPH)		20	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS4)	
2,740	M	PORTABLE CONCRETE BARRIER		98	M	**#8 W/G FEEDER CIRCUIT (2)	
1,340	M	PORTABLE CONCRETE BARRIER (DRAINAGE)		1,335	M	**#6 W/G FEEDER CIRCUIT (2)	
3,700	M	RESET PORTABLE CONCRETE BAR- RIER		10,980	M	**#4 W/G FEEDER CIRCUIT (2)	
510	EA	TUBULAR MARKERS (FIXED)		1,289	M	**#2 W/G FEEDER CIRCUIT (2)	
2,162	M	REMOVABLE TAPE PAVEMENT MARK- ING LINES (100MM)		1,645	M	***#8 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	
1	EA	REMOVABLE TAPE PAVEMENT MARK- ING SYMBOL		4,992	M	***#6 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	
1,421	EA	TEMPORARY RAISED PAVEMENT MARKERS		7,715	M	***#4 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	
48,788	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)		2,810	M	***#2 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	
21,664	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)		1	EA	ELECTRICAL JUNCTION BOXES ***** (BR18)	
4,061	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)		32	EA	ELECTRICAL JUNCTION BOXES ***** (PC18)	
510	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 3.1MM)		37	EA	UNDERPASS LUMINARIES ***** (TYPE WM 150W HPS)	
60	M	THERMOPLASTIC PAVEMENT MARKING LINES (400MM, 3.1MM)		Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 136+20)	
656	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)		Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 43+70 L)	
16	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)					
147	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)					
1,252	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (100MM)					
4	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (200MM)					
3	EA	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL					
140,745	M	PAINT PAVEMENT MARKING LINES (100MM)					
14,310	M	PAINT PAVEMENT MARKING LINES (150MM)					
618	M	PAINT PAVEMENT MARKING LINES (200MM)					
648	M	PAINT PAVEMENT MARKING LINES (600MM)					
98	EA	PAINT PAVEMENT MARKING SYMBOL					
5,625	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)					
150	M	REMOVAL OF PAVEMENT MARKING LINES (600MM)					
21,473	M	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING LINES (150MM)					
1,270	M	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING LINES (200MM)					

			2	M	SEWER MANHOLE OUTSIDE DROP ASSEMBLY
			29	EA	BREAK DOWN, PLUG, & FILL ABANDONED UTILITY MANHOLE
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 45+74 L)	2	EA	BREAK DOWN & REBUILD EXISTING MANHOLE
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 60+29 L)	137	M	600MM STEEL ENCASEMENT PIPE, *****MM THICK, BY BORING & JACKING (9.53MM)
Lump Sum	LS	PORTABLE LIGHTING			
	10	EA		EA	GENERIC UTILITY ITEM
					150MM RESTRAINED RETAINER GLAND, 1.72MPA WP
	7	EA		EA	GENERIC UTILITY ITEM
					200MM RESTRAINED RETAINER GLAND, 1.72MPA WP
	1,039	MTN		EA	GENERIC UTILITY ITEM
					300MM LINE STOP ASSEMBLY
	100	MTN		EA	GENERIC UTILITY ITEM
					300MM RESTRAINED RETAINER GLAND, 1.72MPA WP
	137	M		EA	GENERIC UTILITY ITEM
					300MM RESTRAINED RETAINER GLAND, 1.72MPA WP
	87	M		EA	GENERIC UTILITY ITEM
					400MM RESTRAINED RETAINER GLAND, 1.72MPA WP
	913	M		M	GENERIC UTILITY ITEM
					3.66M GRAVEL ACCESS ROAD
	619	M		M	GENERIC UTILITY ITEM
					REMOVE EXISTING SEWER PIPE FROM CULVERT
	361	M		MTN	GENERIC UTILITY ITEM
					#67 BEDDING STONE
	80	M		M	TEMPORARY SILT FENCE
					STONE FOR EROSION CONTROL, CLASS A
	91	M		MTN	STONE FOR EROSION CONTROL, CLASS B
					SEDIMENT CONTROL STONE
	6,995	KG		HA	TEMPORARY MULCHING
				KG	SEED FOR TEMPORARY SEEDING
				MTN	FERTILIZER FOR TEMPORARY SEEDING
	1	EA		M	TEMPORARY SLOPE DRAINS
				EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
	1	EA		M3	SILT EXCAVATION
				M2	SYNTHETIC ROVING
	3	EA		M2	MATTING FOR EROSION CONTROL
				M2	PERMANENT SOIL REINFORCEMENT MAT
	1	EA		M	6.4MM HARDWARE CLOTH
				M	*****MM TEMPORARY PIPE (450MM)
	13	EA		EA	***X ***X*****MM PERFORATED CS PIPE TEE RISER, 2.01MM THICK (800MM X 800MM X 800MM)
				M3	STILLING BASINS
	4	EA		HA	SEEDING & MULCHING
				HA	MOWING
	5	EA		KG	SEED FOR REPAIR SEEDING
				MTN	FERTILIZER FOR REPAIR SEEDING
	1	EA		KG	SEED FOR SUPPLEMENTAL SEEDING
				MTN	FERTILIZER TOPDRESSING
	8	EA		HA	SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (HARD FESCUE/BUEGRASS)
				M	IMPERVIOUS DIKE
	9	EA		HR	SPECIALIZED HAND MOWING
				EA	RESPONSE FOR EROSION CONTROL
	5	EA		M3	CULVERT DIVERSION CHANNEL
				HA	REFORESTATION
	85	M		HA	STREAMBANK REFORESTATION
				EA	GENERIC EROSION CONTROL ITEM
	186	M			ROOTWADS
				M2	GENERIC EROSION CONTROL ITEM
					COIR FIBER MATTING
	231	M		M	GENERIC EROSION CONTROL ITEM
					TREE PROTECTION FENCE
	136	M		M	SIGNAL CABLE
				EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)
	76	M		EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)
				EA	LOUVER
	1,388	M		M	MESSENGER CABLE (*****MM) (6MM)
				M	MESSENGER CABLE (9.52MM)
	868	M		M	TRACER WIRE
				M	TRENCHING (PAVED)
	896	M		M	TRENCHING (UNPAVED)
				M	DIRECTIONAL DRILL OUTER-DUCT CONDUIT, 125MM
	85	M		M	TRENCH MULTI-DUCT, 31.75MM (** CONDUIT) (4)
	2,548	KG			
	12	EA			
	44	EA			
	105	M			

				Lump Sum	LS	CULVERT EXCAVATION, STA ***** (25+07.000-RMP CA-)
				Lump Sum	LS	CULVERT EXCAVATION, STA ***** (54+14.714-L-)
3,800	M	MULTI-DUCT, 31.75MM IN OUTER-DUCT (** CONDUIT) (4)		Lump Sum	LS	CULVERT EXCAVATION, STA ***** (59+78.290-L-)
27	EA	JUNCTION BOX (STANDARD SIZE)		Lump Sum	LS	CULVERT EXCAVATION, STA ***** (73+42.563-L-)
63	EA	JUNCTION BOX (OVER-SIZED)		Lump Sum	LS	CULVERT EXCAVATION, STA ***** (85+89.214 -I40 EX-)
29	EA	WOOD POLE		2,926.7	MTN	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT
44	EA	GUY ASSEMBLY		5,904.4	M3	CLASS A CONCRETE (CULVERT)
6	EA	*****MM RISER WITH ***** (2", HEAT SHRINK TUBING)		449,862	KG	REINFORCING STEEL (CULVERT)
20	EA	50MM RISER WITH WEATHERHEAD		99.3	MTN	GENERIC CULVERT ITEM CLASS I RIP RAP
2,029	M	INDUCTIVE LOOP SAWCUT		101.3	M2	GENERIC CULVERT ITEM FILTER FABRIC
6,530	M	LEAD-IN CABLE				
150	M	COMMUNICATIONS CABLE (** TWISTED-PAIR) (3)				
3,900	M	COMMUNICATIONS CABLE (**FIBER) (14)				
3,500	M	COMMUNICATIONS CABLE (**FIBER) (144)				
1,240	M	DROP CABLE				
8	EA	AERIAL SPLICE ENCLOSURE				
5	EA	INTERCONNECT CENTER				
93	EA	DELINEATOR MARKER				
1	EA	FURNISH FIBER-OPTIC RESTORATION KIT				
1	EA	FURNISH FIBER-OPTIC POWER METER				
1	EA	FURNISH OPTICAL LIGHT GENERATOR				
1	EA	FURNISH FIBER-OPTIC TRANSCEIVER				
5	EA	SIGN FOR SIGNALS				
3	EA	SIGNAL CABINET FOUNDATION				
3	EA	CONTROLLER WITH CABINET (NEMA TS-1, BASE MOUNTED)				
50	EA	DETECTOR CHANNEL (NEMA TS-1)				
2	EA	CENTRAL COMPUTER				
1	EA	NOTEBOOK COMPUTER				
1	EA	PRINTER				
2	EA	TRAFFIC SIGNAL REMOVAL				
9	EA	GENERIC SIGNAL ITEM BASE MOUNT CCTV CABINET				
4	EA	GENERIC SIGNAL ITEM BASE MOUNT SPLICE CABINET				
9	EA	GENERIC SIGNAL ITEM CCTV ASSEMBLY				
2	EA	GENERIC SIGNAL ITEM CCTV JOYSTICK				
9	EA	GENERIC SIGNAL ITEM CCTV METAL POLE				
1	EA	GENERIC SIGNAL ITEM CCTV TEST MONITOR				
9	EA	GENERIC SIGNAL ITEM COLOR VIDEO MONITOR				
13	EA	GENERIC SIGNAL ITEM EQUIPMENT CABINET FOUNDATION				
3	EA	GENERIC SIGNAL ITEM FIBER OPTIC DATA TRANSCEIVER (IN CABINET)				
2	EA	GENERIC SIGNAL ITEM FIBER OPTIC DATA TRANSCEIVER (IN RACK)				
9	EA	GENERIC SIGNAL ITEM FIBER OPTIC VIDEO TRANSCEIVER (IN CABINET)				
9	EA	GENERIC SIGNAL ITEM FIBER OPTIC VIDEO TRANSCEIVER (IN RACK)				
3	EA	GENERIC SIGNAL ITEM RCU TERMINATION PANEL				
3	EA	GENERIC SIGNAL ITEM RCU UNIT				
Lump Sum	LS	GENERIC SIGNAL ITEM CCTV CENTRAL SOFTWARE				
Lump Sum	LS	GENERIC SIGNAL ITEM TRAINING				
2,500	M	GENERIC SIGNAL ITEM MULTI-DUCT (31.75MM)				
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (9+83.00-Y2-)				
<b>CULVERT ITEMS</b>						
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (102+16.500 -L-)				
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (18+27.000-RP CA-)				
<b>WALL ITEMS</b>						
Lump Sum	LS	MSE RETAINING WALL, STA ***** (0+05.622 -RPD-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (107+98.00 -L2LT-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (118+64.684 -L-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (13+03.000 -RAMPC-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (132+62.302 -L-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (132+96.639 -L-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (136+30.660 -L-LT)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (136+30.660 -L-RT)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (14+40.00 -RPAC-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (15+10.00 -RPAC-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (17+00 -RPCA-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (17+00 -RPD-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (19+00 -RPD-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (4+90.960 -Y28-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (5+00.810 -Y28-)				
Lump Sum	LS	MSE RETAINING WALL, STA ***** (83+67.500 -I40WB-)				
<b>STRUCTURE ITEMS</b>						
Lump Sum	LS	TEMPORARY RAILROAD SHORING FOR BENT ***, STATION ***** (1,120+49.924 -L-LT)				
Lump Sum	LS	TEMPORARY RAILROAD SHORING FOR BENT ***, STATION ***** (1,120+49.924 -L-RT)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,110+26.064 -L-NB-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,120+49.924 -L-LT)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,120+49.924 -L-RT)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,16+02.423 -RPBD-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,18+08.293 -RP AC-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,18+86.874 -L-SB-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,19+61.051 -RPCA-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,19+85.137 -RPBD-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,22+94.604 -RPCA-)				

				Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (20+39.866 -L SB-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,67+72.110 -L-)		Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (22+36.639 -L SB-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,73+34.540 -L- RT)		Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (22+94.604 -RPCA-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,73+48.544 -L- LT)		Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (25+57.061 -L SB-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,110+26.064 -L NB-)		Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (39+65.118 -140 EB-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,18+08.293 -RP AC-)		Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (55+23.974 -L- LT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,18+86.874 -L SB-)		Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (55+23.974 -L- RT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,19+61.051 -RPCA-)		Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (67+72.110 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,19+85.137 -RPBD-)		Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (73+34.540 -L- RT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,22+94.604 -RPCA-)		Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (73+48.544 -L- LT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,67+72.110 -L-)	541,159	KG		REINFORCING STEEL (BRIDGE)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,73+34.540 -L- RT)	15,863	KG		SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,73+48.544 -L- LT)	7,705,500	LS		APPROX ..... KG STRUCTURAL STEEL
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,18+86.874 -L SB-)	19,170.7	M		HP310X79 STEEL PILES
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,22+94.604 -RPCA-)	2,094	M		HP360X108 STEEL PILES
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,67+72.110 -L-)	42	EA		STEEL PILE POINTS
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (4,67+72.110 -L-)	159,645	M		THREE BAR METAL RAIL
18.2	M	*****MM DIA DRILLED PIERS IN SOIL (1372MM)	4,049,742	M		CONCRETE BARRIER RAIL
14.8	M	*****MM DIA DRILLED PIERS NOT IN SOIL (1372MM)	18,137.4	M2		100MM SLOPE PROTECTION
36,209.9	M2	REINFORCED CONCRETE DECK SLAB		Lump Sum	LS	POT BEARINGS
33,622.7	M2	GROOVING BRIDGE FLOORS		Lump Sum	LS	ELASTOMERIC BEARINGS
5,688.5	M3	CLASS A CONCRETE (BRIDGE)		Lump Sum	LS	EVAZOTE JOINT SEALS
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (109+17.439 -L NB-)		Lump Sum	LS	EXPANSION JOINT SEALS
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (11+74.251 -RP AC-)		Lump Sum	LS	MODULAR EXPANSION JOINT SEALS
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (110+26.064 -L NB-)				
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (115+44.291 -L NB-)				
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (120+49.924 -L-LT)				
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (120+49.924 -L-RT)				
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (135+86.839 -L-LT)				
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (135+86.839 -L-RT)				
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (16+02.423 -RPBD-)				
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (18+08.293 -RP AC-)				
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (18+86.874 -L SB-)				
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (19+61.051 -RPCA-)				
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (19+85.137 -RPBD-)				

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

L030715 004

CONTRACT ID : C200743 34592.3.1

DIV OFFICE WILMINGTON

LENGTH = 6.800 MI

COUNTY : SAMPSON

MEDIAN GUARDRAIL, GUIDERAIL &amp; SIGNING.

DBE GOAL 3.0% COMPLETION DATE : SEP 01 2004

US-421 &amp; US-701 FROM US-701 BUSINESS TO SR-1934.

## ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
150	LF	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED
2	EA	IMPACT ATTENUATOR UNIT, TYPE 350
18,200	LF	STEEL BM GUARDRAIL
10	EA	ADDITIONAL GUARDRAIL POSTS
6	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (B-77)
7	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
10	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
2	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350
1,787.5	LF	REMOVE EXISTING GUARDRAIL
18,500	LF	DOUBLE FACED CABLE GUIDERAIL
22	EA	CABLE GUIDERAIL ANCHOR UNITS
40	CY	REINFORCED CONCRETE SIGN FOOTINGS
3	CY	PLAIN CONCRETE SIGN FOOTINGS
27,962	LB	SUPPORTS, BREAKAWAY STEEL BEAM
4,698	LB	SUPPORTS, SIMPLE STEEL BEAM
5,854	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
43	EA	SIGN ERECTION, TYPE D
130	EA	SIGN ERECTION, TYPE E
64	EA	SIGN ERECTION, TYPE F
24	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)
14	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)
1	EA	RELOCATE SIGN, TYPE ***** (D)
1	EA	DISPOSAL OF SIGN SYSTEM, OVERHEAD
66	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM
192	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
7	EA	DISPOSAL OF SIGN SYSTEM, WOOD
1	EA	DISPOSAL OF SUPPORT, U-CHANNEL
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "A"
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B"
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "A"
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "B"
1,240	SF	WORK ZONE SIGNS (PORTABLE)
4	EA	FLASHING ARROW PANELS, TYPE C
2	EA	CHANGEABLE MESSAGE SIGNS
350	EA	DRUMS
4	EA	WARNING LIGHTS (TYPE B)
4	EA	TRUCK MOUNTED IMPACT ATTENUATOR (60 MPH)
32	ACR	MOWING
3.75	ACR	SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (CENTIPEDE)
32	HR	SPECIALIZED HAND MOWING



## STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L030715 005

CONTRACT ID : C200740 34775.3.12

DIV OFFICE WILMINGTON

LENGTH = 3.929 KM

COUNTY : ONSLOW

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

MBE GOAL 10.0% WBE 5.0% COMPLETION DATE : DEC 31 2005

US-17 (JACKSONVILLE BYPASS) FROM NC-24 TO US-17 NORTH OF JACKSONVILLE.

ROADWAY ITEMS					
			49,500	MTN	AGGREGATE BASE COURSE
			250	MTN	INCIDENTAL STONE BASE
			20,450	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING	19,750	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)	21,600	MTN	ASPHALT CONC SURFACE COURSE, TYPE S12.5C
1.2	HA	SUPPLEMENTARY CLEARING & GRUBBING	1,808	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
1	EA	SEALING ABANDONED WELLS	1,188	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
5,450	M3	UNCLASSIFIED EXCAVATION			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (112+10.725 -L- SBL)	100	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (112+78.879 -L- NBL)	944	M3	SUBDRAIN EXCAVATION
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (127+21.493 -L- NBL)	472	M3	SUBDRAIN FINE AGGREGATE
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (127+21.493 -L- SBL)	1,140	M	150MM PERFORATED SUBDRAIN PIPE
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (142+68.339 -L- NBL)	114	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (142+68.339 -L- SBL)	8	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (142+68.339 -L- SBL)	16	M	150MM OUTLET PIPE (SUBDRAINS)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (142+68.339 -L- SBL)	2,225	M	SHOULDER DRAIN
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (142+68.339 -L- SBL)	2,225	M	100MM SHOULDER DRAIN PIPE
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (142+68.339 -L- SBL)	210	M	100MM OUTLET PIPE (SHOULDER DRAINS)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (142+68.339 -L- SBL)	12	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET
1,300	M3	UNDERCUT EXCAVATION	2	EA	METAL FUNNELS
7,000	MTN	CLASS IV SUBGRADE STABILIZATION	39.6	M	300MM FUNNEL DRAIN PIPE
993,000	M3	BORROW EXCAVATION	2	EA	300MM FUNNEL DRAIN PIPE ELBOWS
4	EA	EMBANKMENT SETTLEMENT GAUGES	5.7	M3	ENDWALLS
8,755	M3	DRAINAGE DITCH EXCAVATION	12.9	M3	REINFORCED ENDWALLS
1,815	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT	0.58	M3	PIPE COLLARS
42	HR	PROOF ROLLING	62	EA	MASONRY DRAINAGE STRUCTURES
3,000	M3	SELECT GRANULAR MATERIAL	1.7	M	MASONRY DRAINAGE STRUCTURES
2,500	M2	FABRIC FOR SOIL STABILIZATION	21	EA	FRAME WITH TWO GRATES, STD 840.**** (840.20)
79	M2	TEMPORARY SHORING	3	EA	FRAME WITH TWO GRATES, STD 840.16
43	M2	TEMPORARY SHORING - BARRIER SUPPORTED	27	EA	FRAME WITH TWO GRATES, STD 840.22
4,270	M3	GENERIC GRADING ITEM SELECT MATERIAL CLASS III	4	EA	FRAME WITH TWO GRATES, STD 840.24
4,490	M2	GENERIC GRADING ITEM FABRIC FOR EMBANKMENT STABILIZATION	1	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
6	MTN	GENERIC DRAINAGE ITEM BOULDERS	2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
799.2	M	375MM RC PIPE CULVERTS, CLASS III	2	EA	FRAME WITH COVER, STD 840.54
708	M	450MM RC PIPE CULVERTS, CLASS III	4	EA	STEEL FRAME WITH TWO GRATES, STD 840.37
494.4	M	600MM RC PIPE CULVERTS, CLASS III	3	EA	CONCRETE APRON FOR CATCH BASIN
224.4	M	750MM RC PIPE CULVERTS, CLASS III	3	EA	CONCRETE APRON FOR DROP INLETS
82.8	M	900MM RC PIPE CULVERTS, CLASS III	371	M	450MM CONCRETE CURB & GUTTER
129.6	M	1200MM RC PIPE CULVERTS, CLASS III	1,930	M	SHOULDER BERM GUTTER
177.6	M	1500MM RC PIPE CULVERTS, CLASS III	1	EA	MODIFIED CONCRETE FLUME
175.2	M	****MM BIT COAT CS PIPE CULVERTS, TYPE A ****MM THICK (300MM, 1.63MM)	418	M2	125MM MONOLITHIC CONCRETE ISLANDS (KEYED IN)
32.4	M	****MM BIT COAT CS PIPE CULVERTS, TYPE A ****MM THICK (400MM, 1.63MM)	75	M	CONCRETE BARRIER, TYPE ***** (IV)
6	EA	***MM BIT COAT CS PIPE ELBOWS, TYPE A ****MM THICK (300MM, 1.63MM)	160	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED
4	EA	***MM BIT COAT CS PIPE ELBOWS, TYPE A ****MM THICK (400MM, 1.63MM)	1,095	M2	GENERIC PAVING ITEM 75MM CONCRETE ISLAND COVERS
203.2	M	PIPE REMOVAL	2	EA	IMPACT ATTENUATOR UNIT, TYPE 350
10	EA	PIPE CLEAN-OUT	3,676.65	M	STEEL BM GUARDRAIL
Lump Sum	LS	FINE GRADING	4	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS
290	MTN	#57 STONE	10	EA	ADDITIONAL GUARDRAIL POSTS
5,000	MTN	STABILIZER AGGREGATE	1	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (B-77)
			11	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
			20	EA	GUARDRAIL ANCHOR UNITS, TYPE III

			769	EA	SNOWPLOWABLE RAISED PAVEMENT MARKERS
			79.2	MTN	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (V)
			79.2	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (V)
			9.5	M	150MM DI WATER PIPE, PC 2.41MPA
			131.2	M	200MM DI WATER PIPE, PC 2.41MPA
			322	M	300MM DI WATER PIPE, PC 2.41MPA
			900	KG	DUCTILE IRON WATER PIPE FITTINGS, 1.72MPA MIN WP
			1	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP
			1	EA	RELOCATE EXISTING FIRE HYDRANT
			117.76	M	200MM DI SEWER PIPE, PC 2.41MPA
			2	EA	****MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1200MM)
			196.1	M	FILL OR REMOVE ABANDONED ****MM PIPE, ***** (200MM, AC, SEWER)
			256	M	FILL OR REMOVE ABANDONED ****MM PIPE, ***** (200MM, AC, WATER)
			317	M	FILL OR REMOVE ABANDONED ****MM PIPE, ***** (300MM, AC, WATER)
			2	M	FILL OR REMOVE ABANDONED ****MM PIPE, ***** (375MM, AC, SEWER)
			3	EA	BREAK DOWN, PLUG, & FILL ABANDONED UTILITY MANHOLE
			1	EA	REMOVE EXISTING MANHOLE
			5	EA	GENERIC UTILITY ITEM REMOVE & STOCKPILE EXISTING FIRE HYDRANT
			3,950	M	TEMPORARY SILT FENCE
			575	MTN	STONE FOR EROSION CONTROL, CLASS A
			10,605	MTN	STONE FOR EROSION CONTROL, CLASS B
			4,670	MTN	SEDIMENT CONTROL STONE
			30	HA	TEMPORARY MULCHING
			2,475	KG	SEED FOR TEMPORARY SEEDING
			20	MTN	FERTILIZER FOR TEMPORARY SEEDING
			600	M	TEMPORARY SLOPE DRAINS
			28	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
			42,825	M3	SILT EXCAVATION
			3,740	M2	SYNTHETIC ROVING
			12,060	M2	MATTING FOR EROSION CONTROL
			700	M	6.4MM HARDWARE CLOTH
			2,060	M3	STILLING BASINS
			59	HA	SEEDING & MULCHING
			15	HA	MOWING
			325	KG	SEED FOR REPAIR SEEDING
			1.25	MTN	FERTILIZER FOR REPAIR SEEDING
			1,650	KG	SEED FOR SUPPLEMENTAL SEEDING
			100	MTN	FERTILIZER TOPDRESSING
			0.85	HA	SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (CENTIPEDE)
			85	M	IMPERVIOUS DIKE
			46	HR	SPECIALIZED HAND MOWING
			24	EA	RESPONSE FOR EROSION CONTROL
			655	M3	CULVERT DIVERSION CHANNEL
			3.75	HA	REFORESTATION
			0.6	HA	STREAMBANK REFORESTATION
			15	EA	GENERIC EROSION CONTROL ITEM ROOTWADS
			1,220	M2	GENERIC EROSION CONTROL ITEM COIR FIBER MAT
			985	M	SIGNAL CABLE
			23	EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)
			1	EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)
			300	M	TRACER WIRE
			30	M	TRENCHING (PAVED)
			609	M	TRENCHING (UNPAVED)
			528	M	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 31.75MM (** CONDUIT) (1)
			21	EA	JUNCTION BOX (STANDARD SIZE)
			4	EA	JUNCTION BOX (OVER-SIZED)
			930	M	INDUCTIVE LOOP SAWCUT
			2,550	M	LEAD-IN CABLE
12	EA	GUARDRAIL ANCHOR UNITS, TYPE 350			
4	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350			
2,923	M	DOUBLE FACED CABLE GUIDERAIL			
12	EA	CABLE GUIDERAIL ANCHOR UNITS			
7,980	M	WOVEN WIRE FENCE, 1200MM FABRIC			
1,677	EA	100MM TIMBER FENCE POSTS, 2.30M LONG			
388	EA	125MM TIMBER FENCE POSTS, 2.50M LONG			
100	M	ADDITIONAL BARBED WIRE			
340	MTN	PLAIN RIP RAP, CLASS I			
150	MTN	PLAIN RIP RAP, CLASS B			
2,940	M2	FILTER FABRIC FOR DRAINAGE			
8	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON			
12	M3	REINFORCED CONCRETE SIGN FOOTINGS			
1	M3	PLAIN CONCRETE SIGN FOOTINGS			
2,821	KG	SUPPORTS, BREAKAWAY STEEL BEAM			
1,990	KG	SUPPORTS, SIMPLE STEEL BEAM			
335	M	SUPPORTS, 4.5KG STEEL U-CHANNEL			
3	EA	SIGN ERECTION, TYPE D			
22	EA	SIGN ERECTION, TYPE E			
28	EA	SIGN ERECTION, TYPE F			
1	EA	SIGN ERECTION, TYPE *** (OVERHEAD)			
		(A)			
7	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED)			
		(A)			
2	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED)			
		(B)			
22	EA	SIGN ERECTION, OVERLAY (OVERHEAD)			
2	EA	SIGN ERECTION, OVERLAY (GROUND MOUNTED)			
6	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL			
2	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)			
1	EA	DISPOSAL OF SIGN, D, E OR F			
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "A"			
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "B"			
63	M2	WORK ZONE SIGNS (STATIONARY)			
61	M2	WORK ZONE SIGNS (PORTABLE)			
11	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)			
4	EA	FLASHING ARROW PANELS, TYPE C			
4	EA	CHANGEABLE MESSAGE SIGNS			
12	EA	WARNING FLAG SETS			
181	EA	DRUMS			
19	EA	CONES			
125	M	BARRICADES (TYPE III)			
7,680	HR	FLAGGER			
12	EA	WARNING LIGHTS (TYPE B)			
4	EA	TEMPORARY CRASH CUSHIONS			
2	EA	TRUCK MOUNTED IMPACT ATTENUATOR (45 MPH)			
1,732	M	PORTABLE CONCRETE BARRIER			
120	HR	POLICE			
230	EA	TEMPORARY RAISED PAVEMENT MARKERS			
19,775	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)			
2,127	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)			
137	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)			
1,323	M	THERMOPLASTIC PAVEMENT MARKING LINES (300MM, 2.3MM)			
105	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)			
64	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)			
117	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)			
1,042	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (100MM)			
18,806	M	PAINT PAVEMENT MARKING LINES (100MM)			
2,062	M	PAINT PAVEMENT MARKING LINES (200MM)			
4	EA	PAINT PAVEMENT MARKING SYMBOL			

400	M	COMMUNICATIONS CABLE (**FIBER) (12)
2	EA	INTERCONNECT CENTER
2	EA	FIBER-OPTIC TRANSCEIVER
4	EA	DELINEATOR MARKER
1	EA	FURNISH FIBER-OPTIC RESTORA- TION KIT
1	EA	FURNISH FIBER-OPTIC TRANSCEIV- ER
8	EA	SIGNAL SUPPORT MAST ARM WITH METAL POLE
8	EA	METAL SIGNAL POLE FOUNDATION
2	EA	MAST ARM WITH METAL POLE DE- SIGN
1	EA	SIGN FOR SIGNALS
3	EA	SIGNAL CABINET FOUNDATION
3	EA	CABINET BASE ADAPTER
3	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
26	EA	DETECTOR CHANNEL (TYPE 2070L)

### CULVERT ITEMS

Lump Sum	LS	CULVERT EXCAVATION, STA ***** (126+07.000 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (134+27.270 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (144+01.657-L-)
828	MTN	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT
1,502.3	M3	CLASS A CONCRETE (CULVERT)
120,750	KG	REINFORCING STEEL (CULVERT)

### STRUCTURE ITEMS

Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 112+12.135-SBL-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 112+81.339-NBL-)
4,892.1	M2	REINFORCED CONCRETE DECK SLAB
4,207.4	M2	GROOVING BRIDGE FLOORS
624.9	M3	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (112+12.135-SBL-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (112+81.339-NBL-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (127+20.144 -L-LT LN)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (127+20.144-L-RT LN)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (142+73.668 -L- LT LN)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (142+73.688-L-RT LN)
54,693	KG	REINFORCING STEEL (BRIDGE)
1,163	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
1,032,000	LS	APPROX ..... KG STRUCTURAL STEEL
3,116.6	M	HP310X79 STEEL PILES
728.7	M	CONCRETE BARRIER RAIL
4,613	M2	100MM SLOPE PROTECTION
Lump Sum	LS	POT BEARINGS
Lump Sum	LS	ELASTOMERIC BEARINGS
Lump Sum	LS	EVAZOTE JOINT SEALS
10,000	DOL	CONTRACT TIME

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

L030715 006

CONTRACT ID : C200707 34363.3.11

DIV OFFICE WILSON

LENGTH = 3.634 KM

COUNTY : WILSON

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

DBE GOAL 10.0% COMPLETION DATE : SEP 15 2006

US-117 FROM US-301 SOUTH OF WILSON TO US-264 BYPASS.

ROADWAY ITEMS					
			36	EA	300MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
			18	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
			2	EA	450MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
			81.6	M	*****MM WELDED STEEL PIPE, *****MM THICK, GRADE B, INSTALLED BY BORING & JACKING (1350MM, 18.27MM)
			49.2	M	*****MM WELDED STEEL PIPE, *****MM THICK, GRADE B, INSTALLED BY BORING & JACKING (375MM, 6.35MM)
			316.23	M	PIPE REMOVAL
			520	M2	150MM SLOPE PROTECTION
			Lump Sum	LS	FINE GRADING
			26,000	M2	LIME TREATED SOIL (SLURRY METHOD)
			290	MTN	LIME FOR LIME TREATED SOIL
			300	MTN	STABILIZER AGGREGATE
			54,720	MTN	AGGREGATE BASE COURSE
			78,000	M2	***MM SOIL CEMENT BASE (180MM)
			2,345	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE
			1,055	MTN	AGGREGATE FOR SOIL CEMENT BASE
			71,000	L	ASPHALT CURING SEAL
			1,500	MTN	INCIDENTAL STONE BASE
			18,110	L	PRIME COAT
			120	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B
			3,430	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
			16,300	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE H9.0C
			1,800	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5A
			17,700	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
			1,036	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
			1,151	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
			150	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR
			13,500	M	MILLED RUMBLE STRIPS
			580	M3	SUBDRAIN EXCAVATION
			290	M3	SUBDRAIN FINE AGGREGATE
			700	M	150MM PERFORATED SUBDRAIN PIPE
			70	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS
			5	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
			10	M	150MM OUTLET PIPE (SUBDRAINS)
			4,300	M	SHOULDER DRAIN
			4,300	M	100MM SHOULDER DRAIN PIPE
			600	M	100MM OUTLET PIPE (SHOULDER DRAINS)
			30	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET
			22	M3	ENDWALLS
			12	M3	REINFORCED ENDWALLS
			2.5	M3	PIPE COLLARS
			0.5	M3	PIPE PLUGS
			68	EA	MASONRY DRAINAGE STRUCTURES
			2.5	M	MASONRY DRAINAGE STRUCTURES
			1	EA	FRAME WITH GRATE, STD 840.**** (840.20)
			25	EA	FRAME WITH TWO GRATES, STD 840.***** (840.20)
			1	EA	FRAME WITH TWO GRATES, STD 840.16
			26	EA	FRAME WITH TWO GRATES, STD 840.22
			3	EA	FRAME WITH TWO GRATES, STD 840.24
			4	EA	FRAME WITH TWO GRATES, STD 840.29
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	FIELD OFFICE			
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)			
0.4	HA	SUPPLEMENTARY CLEARING & GRUBBING			
7	EA	SEALING ABANDONED WELLS			
57,500	M3	UNCLASSIFIED EXCAVATION			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (110+05.166)			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (17+95.589)			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (3+30.710)			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (91+09.379 SBL)			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (91+10.554 NBL)			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (94+30.834 SBL)			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (94+42.026 NBL)			
16,000	M3	UNDERCUT EXCAVATION			
1,500,000	M3	BORROW EXCAVATION			
24	EA	EMBANKMENT SETTLEMENT GAUGES			
11,900	M3	DRAINAGE DITCH EXCAVATION			
5,850	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT			
3,650	M2	BREAKING OF EXISTING ASPHALT PAVEMENT			
29	HR	PROOF ROLLING			
3,500	M3	SELECT GRANULAR MATERIAL			
3,500	M2	FABRIC FOR SOIL STABILIZATION			
150	M2	TEMPORARY SHORING			
5,800	MTN	SELECT MATERIAL, CLASS II			
1,075	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS			
46.8	M	375MM SIDE DRAIN PIPE			
37.2	M	450MM SIDE DRAIN PIPE			
54	M	300MM RC PIPE CULVERTS, CLASS III			
853.2	M	375MM RC PIPE CULVERTS, CLASS III			
536.4	M	450MM RC PIPE CULVERTS, CLASS III			
438	M	600MM RC PIPE CULVERTS, CLASS III			
70.8	M	750MM RC PIPE CULVERTS, CLASS III			
152.4	M	900MM RC PIPE CULVERTS, CLASS III			
91.2	M	1200MM RC PIPE CULVERTS, CLASS III			
92.4	M	*****MM RC PIPE CULVERTS, CLASS IV (1350MM)			
86.4	M	*****MM RC PIPE CULVERTS, CLASS IV (1500MM)			
56.4	M	*****MM RC PIPE CULVERTS, CLASS IV (450MM)			
55.2	M	*****MM RC PIPE CULVERTS, CLASS IV (900MM)			
471.6	M	300MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK			
210	M	400MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK			
20.4	M	450MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK			

				1	EA	TEMPORARY RELOCATE SIGN, TYPE ***** (A)	
8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)		3	EA	GENERIC SIGNING ITEM DISPOSAL OF OVERHEAD SIGN HANGER ASSEMBLY	
2	EA	FRAME WITH COVER, STD 840.54		4	EA	GENERIC SIGNING ITEM RELOCATE LIGHTING FIXTURES	
1	EA	CONCRETE APRON FOR DROP INLETS		2	EA	GENERIC SIGNING ITEM REPLACE LIGHTING FIXTURE	
40	M	*** X ***MM CONCRETE CURB (200MM X 150MM)		Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN STRUCTURE "A"	
175	M	450MM CONCRETE CURB & GUTTER		Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN STRUCTURE "B"	
1,000	M	750MM CONCRETE CURB & GUTTER		Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN STRUCTURE "C"	
2,970	M	SHOULDER BERM GUTTER		Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN STRUCTURE "D"	
120	M2	150MM CONCRETE DRIVEWAY		Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN STRUCTURE "E"	
9	M2	100MM CONCRETE PAVED DITCH		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "A"	
180	M2	75MM CORRUGATED CONCRETE ISLANDS		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "B"	
86	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "C"	
1,125	M2	GENERIC PAVING ITEM 150MM CONC ISLAND COVERS		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "D"	
6	EA	IMPACT ATTENUATOR UNIT, TYPE 350		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "E"	
5,402.58	M	STEEL BM GUARDRAIL		Lump Sum	LS	WORK ZONE SIGNS (STATIONARY)	
6	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS		Lump Sum	LS	WORK ZONE SIGNS (PORTABLE)	
10	EA	ADDITIONAL GUARDRAIL POSTS		Lump Sum	LS	WORK ZONE SIGNS (BARRICADE MOUNTED)	
6	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (B-77)		Lump Sum	LS	3 EA FLASHING ARROW PANELS, TYPE C	
15	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1		Lump Sum	LS	2 EA CHANGEABLE MESSAGE SIGNS	
24	EA	GUARDRAIL ANCHOR UNITS, TYPE III		Lump Sum	LS	24 EA WARNING FLAG SETS	
17	EA	GUARDRAIL ANCHOR UNITS, TYPE 350		Lump Sum	LS	405 EA DRUMS	
4	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350		Lump Sum	LS	100 EA CONES	
85	M	REMOVE EXISTING GUARDRAIL		Lump Sum	LS	166 M BARRICADES (TYPE III)	
2,250	M	DOUBLE FACED CABLE GUIDERAIL		Lump Sum	LS	400 HR FLAGGER	
14	EA	CABLE GUIDERAIL ANCHOR UNITS		Lump Sum	LS	16 EA WARNING LIGHTS (TYPE B)	
100	M	GENERIC GUARDRAIL ITEM REMOVE EXT CABLE GUIDERAIL		Lump Sum	LS	8 EA TEMPORARY CRASH CUSHIONS	
6,800	M	WOVEN WIRE FENCE, 1200MM FABRIC		Lump Sum	LS	2 EA TRUCK MOUNTED IMPACT ATTENUATOR (45 MPH)	
1,410	EA	100MM TIMBER FENCE POSTS, 2.30M LONG		Lump Sum	LS	675 M PORTABLE CONCRETE BARRIER	
320	EA	125MM TIMBER FENCE POSTS, 2.50M LONG		Lump Sum	LS	96 HR POLICE	
300	M	ADDITIONAL BARBED WIRE		Lump Sum	LS	400 EA TEMPORARY RAISED PAVEMENT MARKERS	
125	MTN	PLAIN RIP RAP, CLASS I		Lump Sum	LS	17,250 M THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)	
100	MTN	PLAIN RIP RAP, CLASS B		Lump Sum	LS	5,955 M THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)	
1,130	M2	FILTER FABRIC FOR DRAINAGE		Lump Sum	LS	2,335 M THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)	
3	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON		Lump Sum	LS	80 M THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)	
9	M3	REINFORCED CONCRETE SIGN FOOTINGS		Lump Sum	LS	8 EA THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)	
2	M3	PLAIN CONCRETE SIGN FOOTINGS		Lump Sum	LS	61 EA THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)	
3,583	KG	SUPPORTS, BREAKAWAY STEEL BEAM		Lump Sum	LS	1,264 M COLD APPLIED PLASTIC PAVEMENT MARKING LINES (100MM)	
1,985	KG	SUPPORTS, SIMPLE STEEL BEAM		Lump Sum	LS	10,610 M PAINT PAVEMENT MARKING LINES (100MM)	
1,028	M	SUPPORTS, 4.5KG STEEL U-CHANNEL		Lump Sum	LS	80 M PAINT PAVEMENT MARKING LINES (600MM)	
9	EA	SIGN ERECTION, TYPE D		Lump Sum	LS	3 EA PAINT PAVEMENT MARKING SYMBOL	
95	EA	SIGN ERECTION, TYPE E		Lump Sum	LS	1,470 M REMOVAL OF PAVEMENT MARKING LINES (100MM)	
47	EA	SIGN ERECTION, TYPE F		Lump Sum	LS	1,130 EA PERMANENT RAISED PAVEMENT MARKERS	
3	EA	SIGN ERECTION, TYPE *** (OVERHEAD) (A)		Lump Sum	LS	80 EA FLEXIBLE DELINEATORS (CRYSTAL)	
2	EA	SIGN ERECTION, TYPE *** (OVERHEAD) (B)		Lump Sum	LS	65 EA FLEXIBLE DELINEATORS (YELLOW)	
8	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)		Lump Sum	LS	15 EA FLEXIBLE DELINEATORS (CRYSTAL & RED)	
8	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)		Lump Sum	LS	15 EA FLEXIBLE DELINEATORS (YELLOW & RED)	
2	EA	SIGN ERECTION, OVERLAY (OVERHEAD)		Lump Sum	LS	25 MTN FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (VI)	
22.4	EA	SIGN ERECTION, WALKWAY		Lump Sum	LS	25 MTN BEDDING MATERIAL, UTILITIES CLASS ***** (IV)	
1	EA	RELOCATE SIGN, TYPE ***** (B, OVERHEAD)		Lump Sum	LS	90 KG DUCTILE IRON SEWER PIPE FITTINGS, 1.72MPA MIN WP	
1	EA	RELOCATE SIGN, TYPE ***** (E)		Lump Sum	LS	3 EA GENERIC UTILITY ITEM A1 POLE TOP ASSEMBLY	
4	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM		Lump Sum	LS	2 EA GENERIC UTILITY ITEM A2 POLE TOP ASSEMBLY	
42	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL					
12	EA	DISPOSAL OF SIGN SYSTEM, WOOD					
1	EA	DISPOSAL OF SUPPORT, U-CHANNEL					
1	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)					
2	EA	DISPOSAL OF SIGN, D, E OR F					

			Lump Sum	LS	GENERIC UTILITY ITEM REMOVE ELECTRIC UTILITY TRANSFORMERS
		4,915	M		TEMPORARY SILT FENCE
4	EA	520	MTN		STONE FOR EROSION CONTROL, CLASS A
4	EA	14,645	MTN		STONE FOR EROSION CONTROL, CLASS B
1	EA	5,620	MTN		SEDIMENT CONTROL STONE
3	EA	45.5	HA		TEMPORARY MULCHING
8	EA	3,675	KG		SEED FOR TEMPORARY SEEDING
7	EA	29.75	MTN		FERTILIZER FOR TEMPORARY SEEDING
1	EA	1,215	M		TEMPORARY SLOPE DRAINS
7	EA	75	EA		INLET PROTECTION AT TEMPORARY SLOPE DRAINS
1	EA	58,670	M3		SILT EXCAVATION
7	EA	3,635	M2		SYNTHETIC ROVING
7	EA	13,065	M2		MATTING FOR EROSION CONTROL
49	EA	515	M		6.4MM HARDWARE CLOTH
18	EA	87.5	HA		SEEDING & MULCHING
23	EA	23	HA		MOWING
3	EA	500	KG		SEED FOR REPAIR SEEDING
3	EA	1.75	MTN		FERTILIZER FOR REPAIR SEEDING
3	EA	2,450	KG		SEED FOR SUPPLEMENTAL SEEDING
3	EA	147	MTN		FERTILIZER TOPDRESSING
3	EA	52	HR		SPECIALIZED HAND MOWING
1	EA	20	EA		RESPONSE FOR EROSION CONTROL
1	EA	3.63	HA		REFORESTATION
1	EA	350	M		SIGNAL CABLE
1	EA	6	EA		VEHICLE SIGNAL HEAD (300MM, 3 SECTION)
1	EA	2	EA		VEHICLE SIGNAL HEAD (300MM, 5 SECTION)
6	EA	25	EA		MODIFY EXISTING VEHICLE SIGNAL HEAD
3	EA	983	M		MESSENGER CABLE (6.35MM)
16	EA	220	M		MESSENGER CABLE (9.52MM)
21	EA	540	M		TRACER WIRE
8	EA	697	M		TRENCHING (UNPAVED)
6	EA	203	M		DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 31.75MM (** CONDUIT) (1)
7	EA	10	EA		JUNCTION BOX (STANDARD SIZE)
7	EA	10	EA		JUNCTION BOX (OVER-SIZED)
5	EA	4	EA		WOOD POLE
5	EA	8	EA		GUY ASSEMBLY
14	EA	1	EA		25MM RISER WITH WEATHERHEAD
14	EA	8	EA		50MM RISER WITH WEATHERHEAD
14	EA	6	EA		50MM RISER WITH HEAT SHRINK TUBING
3	EA	560	M		INDUCTIVE LOOP SAWCUT
3	EA	2,280	M		LEAD-IN CABLE
2	EA	1,473	M		COMMUNICATIONS CABLE (**FIBER) (12)
2	EA	4	EA		INTERCONNECT CENTER
7	EA	4	EA		FIBER-OPTIC TRANSCEIVER
7	EA	9	EA		DELINEATOR MARKER
3	EA	1	EA		SIGNAL CABINET FOUNDATION
3	EA	3	EA		CONDUIT ENTRANCE INTO EXISTING FOUNDATION
2	EA	4	EA		MODIFY FOUNDATION FOR CONTROLLER CABINET
2	EA	4	EA		CABINET BASE ADAPTER
1	EA	4	EA		CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
2	EA	38	EA		DETECTOR CHANNEL (TYPE 2070L)
					<b>STRUCTURE ITEMS</b>
			Lump Sum	LS	TEMPORARY RAILROAD SHORING FOR BENT ***, STATION ***** (2,3+34.240 -RAMP C-)
5,426	M		Lump Sum	LS	TEMPORARY RAILROAD SHORING FOR BENT ***, STATION ***** (2,91+12.719 -L-LT)
504	M		Lump Sum	LS	TEMPORARY RAILROAD SHORING FOR BENT ***, STATION ***** (2,91+12.719 -L-LT)
69	M		Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,103+62.275 -L-)
1,784	M		Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,110+04.816 -NBL-)
Lump Sum	LS		Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,3+34.240 -RAMP C-)
Lump Sum	LS		Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,91+12.719 -L-LT)

Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,91+12.719 -L-RT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,94+36.108 -L-LT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,94+36.108 -L-RT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,3+34.240 -RAMP C-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,91+12.719 -L-LT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,91+12.719 -L-RT)
5,737.6	M2	REINFORCED CONCRETE DECK SLAB
4,903.9	M2	GROOVING BRIDGE FLOORS
1,075.5	M3	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (103+62.275 -L-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (110+04.816 -NBL-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (3+34.240 -RAMP C-)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (91+12.719 -L-LT)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (91+12.719 -L-RT)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (94+36.108 -L-LT)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (94+36.108 -L-RT)
97,359	KG	REINFORCING STEEL (BRIDGE)
7,833	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
572.546	M	1372MM PRESTRESSED CONCRETE GIRDERS
502,630	LS	APPROX ..... KG STRUCTURAL STEEL
5,230.5	M	HP310X79 STEEL PILES
873.159	M	CONCRETE BARRIER RAIL
7,457	M2	100MM SLOPE PROTECTION
Lump Sum	LS	POT BEARINGS
Lump Sum	LS	ELASTOMERIC BEARINGS
Lump Sum	LS	EVAZOTE JOINT SEALS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030715 007

CONTRACT ID : C200695 34926.3.3

DIV OFFICE WILSON

LENGTH = 0.949 MI

COUNTY : EDGEcombe, NASH

WIDENING, GRADING, DRAINAGE, PAVING, C&G & STRUCTURE.

DBE GOAL 10.0% COMPLETION DATE : OCT 01 2005

NEW ROUTE FROM US-301 IN NASH COUNTY TO SR-1407 (BATTLEBORO RD) IN EDGEcombe COUNTY.

ROADWAY ITEMS

			1,216	SF	WORK ZONE SIGNS (STATIONARY)
			200	SF	WORK ZONE SIGNS (PORTABLE)
			129	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
			1	EA	FLASHING ARROW PANELS, TYPE C
			18	EA	WARNING FLAG SETS
			50	EA	DRUMS
			50	EA	CONES
			232	LF	BARRICADES (TYPE III)
			960	HR	FLAGGER
			4	EA	WARNING LIGHTS (TYPE B)
			1	EA	TRUCK MOUNTED IMPACT ATTENUATOR (45 MPH)
			95	SF	TEMPORARY GUIDE SIGN (GROUND MOUNTED SIGNS)
			165	EA	TEMPORARY RAISED PAVEMENT MARKERS
			12,757	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
			18,038	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
			1,691	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
			653	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
			36	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
			3,719	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (4")
			9,160	LF	PAINT PAVEMENT MARKING LINES (4")
			54	LF	PAINT PAVEMENT MARKING LINES (24")
			1	EA	PAINT PAVEMENT MARKING SYMBOL
			3,000	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
			10	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS
			337	EA	PERMANENT RAISED PAVEMENT MARKERS
			300	TON	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (II)
			500	TON	PAVEMENT REPAIR FOR UTILITY WORK
			3	CY	CLASS B CONCRETE FOR ENCASING UTILITY LINES
			1,760	LF	6" DI WATER PIPE, CLASS ***** (52)
			144	LF	*** DI RESTRAINED JOINT WATER PIPE, CLASS ***** (18", 52)
			2,860	LB	DI RESTRAINED JOINT WATER PIPE FITTINGS, 250# MIN WP
			175	LF	3/4" COPPER WATER PIPE, TYPE K
			224	LB	DUCTILE IRON WATER PIPE FITTINGS, 250# MIN WP
			5	EA	3/4" CORPORATION STOP
			5	EA	*** CURB STOP (3/4")
			3	EA	6" GATE VALVE & VALVE BOX, 200# WP
			3	EA	6" TRANSITION COUPLING, ***** (PVC TO DI)
			414	LF	GENERIC UTILITY ITEM 16" DI RESTRAINED JOINT FORCE MAIN SEWER PIPE, CLASS 52
			80	LF	GENERIC UTILITY ITEM 36" STEEL ENCASEMENT PIPE, 3/8" THICK, BY OPEN CUT
			90	LF	GENERIC UTILITY ITEM 42" STEEL ENCASEMENT PIPE, 1/2" THICK, BY OPEN CUT
			2,671	LB	GENERIC UTILITY ITEM DI RESTRAINED JOINT SEWER PIPE FITTINGS, 250# MIN WP
			2,100	LF	TEMPORARY SILT FENCE
			200	TON	STONE FOR EROSION CONTROL, CLASS A
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CLEARING & GRUBBING .. ACRE(S)			
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING			
21,600	CY	UNCLASSIFIED EXCAVATION			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (30+42.32)			
2,200	CY	UNDERCUT EXCAVATION			
106,000	CY	BORROW EXCAVATION			
4	EA	EMBANKMENT SETTLEMENT GAUGES			
778	CY	DRAINAGE DITCH EXCAVATION			
700	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT			
4.5	HR	PROOF ROLLING			
21,000	CY	SELECT GRANULAR MATERIAL			
21,000	SY	FABRIC FOR SOIL STABILIZATION			
240	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS			
1,204	LF	15" RC PIPE CULVERTS, CLASS III			
608	LF	18" RC PIPE CULVERTS, CLASS III			
140	LF	24" RC PIPE CULVERTS, CLASS III			
176	LF	42" RC PIPE CULVERTS, CLASS III			
40	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK			
44	LF	18" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK			
2	EA	15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK			
2	EA	18" BIT COAT CS PIPE ELBOWS, T YPE B 0.064" THICK			
Lump Sum	LS	FINE GRADING			
600	TON	STABILIZER AGGREGATE			
7,200	TON	AGGREGATE BASE COURSE			
500	TON	INCIDENTAL STONE BASE			
1,100	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B			
2,800	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B			
3,400	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B			
400	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22			
100	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR			
437	CY	SUBDRAIN EXCAVATION			
219	CY	SUBDRAIN FINE AGGREGATE			
1,300	LF	6" PERFORATED SUBDRAIN PIPE			
39	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS			
3	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET			
12	LF	6" OUTLET PIPE (SUBDRAINS)			
4.5	CY	ENDWALLS			
0.45	CY	PIPE COLLARS			
12	EA	MASONRY DRAINAGE STRUCTURES			
6	EA	FRAME WITH TWO GRATES, STD 840.24			
5	EA	FRAME WITH TWO GRATES, STD 840.29			
1	EA	FRAME WITH COVER, STD 840.54			
910	LF	SHOULDER BERM GUTTER			
1,887.5	LF	STEEL BM GUARDRAIL			
5	EA	ADDITIONAL GUARDRAIL POSTS			
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III			
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350			
25	TON	PLAIN RIP RAP, CLASS I			
25	TON	PLAIN RIP RAP, CLASS B			
970	SY	FILTER FABRIC FOR DRAINAGE			



850	TON	STONE FOR EROSION CONTROL, CLASS B
700	TON	SEDIMENT CONTROL STONE
13	ACR	TEMPORARY MULCHING
450	LB	SEED FOR TEMPORARY SEEDING
2	TON	FERTILIZER FOR TEMPORARY SEED- ING
400	LF	TEMPORARY SLOPE DRAINS
6	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
3,700	CY	SILT EXCAVATION
1,900	SY	SYNTHETIC ROVING
1,900	SY	MATting FOR EROSION CONTROL
200	LF	1/4" HARDWARE CLOTH
12	EA	SPECIAL STILLING BASINS
19.5	ACR	SEEDING & MULCHING
7.5	ACR	MOWING
150	LB	SEED FOR REPAIR SEEDING
0.25	TON	FERTILIZER FOR REPAIR SEEDING
300	LB	SEED FOR SUPPLEMENTAL SEEDING
14.5	TON	FERTILIZER TOPDRESSING
4.5	HR	SPECIALIZED HAND MOWING
16	EA	RESPONSE FOR EROSION CONTROL
700	LF	SIGNAL CABLE
11	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
575	LF	MESSENGER CABLE (3/8")
780	LF	TRENCHING (UNPAVED)
7	EA	JUNCTION BOX (STANDARD SIZE)
4	EA	WOOD POLE
8	EA	GUY ASSEMBLY
1	EA	1" RISER WITH WEATHERHEAD
5	EA	2" RISER WITH WEATHERHEAD
1,080	LF	INDUCTIVE LOOP SAWCUT
2,600	LF	LEAD-IN CABLE
1	EA	SIGN FOR SIGNALS
1	EA	SIGNAL CABINET FOUNDATION
1	EA	CABINET BASE ADAPTER
1	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
10	EA	DETECTOR CHANNEL (TYPE 2070L)

### STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (30+42.322 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (6,30+42.322 -L-)
31,811.8	SF	REINFORCED CONCRETE DECK SLAB
26,235.6	SF	GROOVING BRIDGE FLOORS
695.4	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (30+42.322 -L-)
101,688	LB	REINFORCING STEEL (BRIDGE)
9,976	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
1,164,500	LS	APPROX ..... LBS STRUCTURAL STEEL
15,764	LF	PP ** X **** STEEL PILES (12 X 0.50)
1,813.495	LF	CONCRETE BARRIER RAIL
1,640	SY	4" SLOPE PROTECTION
1,340	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)
1,490	SY	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	POT BEARINGS
Lump Sum	LS	MODULAR EXPANSION JOINT SEALS
3	EA	GENERIC STRUCTURE ITEM DYNAMIC LOAD TEST

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030715 008

CONTRACT ID : C200680 33154.3.1

DIV OFFICE GREENSBORO

LENGTH = 0.080 MI

COUNTY : ALAMANCE

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 8.0% COMPLETION DATE : SEE SPECIAL PROVISIONS

BRIDGE OVER BUTTERMILK CREEK AND APPROACHES ON SR-1002.

ROADWAY ITEMS

			Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (14+58.50-L-)	
			46	LF	**1.**" DIA DRILLED PIERS IN SOIL (3'-6")	
Lump Sum	LS	MOBILIZATION				
Lump Sum	LS	CONSTRUCTION SURVEYING				
Lump Sum	LS	GRADING	36	LF	**1.**" DIA DRILLED PIERS NOT IN SOIL (3'-6")	
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING				
500	CY	UNDERCUT EXCAVATION	48	LF	PERMANENT STEEL CASING FOR **1.**" DIA DRILLED PIER (3'-6")	
8	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS				
60	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	1	EA	CROSSHOLE SONIC LOGGING	
4	EA	15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK	368	LF	CSL TUBES	
			Lump Sum	LS	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (14+58.50-L-)	
100	TON	INCIDENTAL STONE BASE	66.6	CY	CLASS A CONCRETE (BRIDGE)	
80	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (14+58.50-L-)	
65	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	14,282	LB	REINFORCING STEEL (BRIDGE)	
115	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5A	2,453	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	
15	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	210	LF	HP12X53 STEEL PILES	
4	EA	MASONRY DRAINAGE STRUCTURES	6	EA	STEEL PILE POINTS	
4	EA	FRAME WITH TWO GRATES, STD 840.29	210.5	LF	TWO BAR METAL RAIL	
160	LF	SHOULDER BERM GUTTER	225.5	LF	1'-**"X ***** CONCRETE PARAPET (1'-2" X 2'-8 1/2")	
412.5	LF	STEEL BM GUARDRAIL	480	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)	
5	EA	ADDITIONAL GUARDRAIL POSTS				
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III	534	SY	FILTER FABRIC FOR DRAINAGE	
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	Lump Sum	LS	ELASTOMERIC BEARINGS	
4	TON	PLAIN RIP RAP, CLASS B	1,237.5	LF	3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS	
545	SY	FILTER FABRIC FOR DRAINAGE				
119	SF	WORK ZONE SIGNS (STATIONARY)				
37	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)				
2	EA	WARNING FLAG SETS				
512	LF	BARRICADES (TYPE III)				
1,710	LF	PAINT PAVEMENT MARKING LINES (4")				
7	EA	PERMANENT RAISED PAVEMENT MARKERS				
750	LF	TEMPORARY SILT FENCE				
75	TON	STONE FOR EROSION CONTROL, CLASS A				
100	TON	STONE FOR EROSION CONTROL, CLASS B				
225	TON	SEDIMENT CONTROL STONE				
0.5	ACR	TEMPORARY MULCHING				
50	LB	SEED FOR TEMPORARY SEEDING				
0.25	TON	FERTILIZER FOR TEMPORARY SEEDING				
155	CY	SILT EXCAVATION				
160	SY	SYNTHETIC ROVING				
450	SY	MATTING FOR EROSION CONTROL				
100	LF	1/4" HARDWARE CLOTH				
8	EA	SPECIAL STILLING BASINS				
0.5	ACR	SEEDING & MULCHING				
0.5	ACR	MOWING				
50	LB	SEED FOR REPAIR SEEDING				
0.25	TON	FERTILIZER FOR REPAIR SEEDING				
50	LB	SEED FOR SUPPLEMENTAL SEEDING				
0.5	TON	FERTILIZER TOPDRESSING				
2	HR	SPECIALIZED HAND MOWING				
8	EA	RESPONSE FOR EROSION CONTROL				

STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (14+58.50-L-)
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FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030715 009

CONTRACT ID : C200746 33157.3.2

DIV OFFICE GREENSBORO

LENGTH = 0.329 MI

COUNTY : ALAMANCE

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 8.0% COMPLETION DATE : SEP 15 2004

BRIDGE OVER CANE CREEK & APPROACHES ON SR-2351.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+44.00)
1	ACR	SUPPLEMENTARY CLEARING & GRUB- BING
500	CY	UNDERCUT EXCAVATION
Lump Sum	LS	GRADING
7,150	CY	BORROW EXCAVATION
1,120	CY	DRAINAGE DITCH EXCAVATION
15	TON	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRS
80	LF	15" SIDE DRAIN PIPE
20	LF	18" SIDE DRAIN PIPE
32	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
108	LF	PIPE REMOVAL
200	TON	INCIDENTAL STONE BASE
475	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
400	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
295	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5A
59	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
16	EA	RIGHT OF WAY MARKERS
1	EA	MASONRY DRAINAGE STRUCTURES
1	EA	FRAME WITH TWO GRATES, STD 840.29
210	LF	SHOULDER BERM GUTTER
875	LF	STEEL BM GUARDRAIL
5	EA	ADDITIONAL GUARDRAIL POSTS
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
6	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
520	TON	PLAIN RIP RAP, CLASS I
95	TON	PLAIN RIP RAP, CLASS B
1,270	SY	FILTER FABRIC FOR DRAINAGE
1	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON
474	SF	WORK ZONE SIGNS (STATIONARY)
83	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
6	EA	WARNING FLAG SETS
70	EA	DRUMS
96	LF	BARRICADES (TYPE III)
14,000	LF	PAINT PAVEMENT MARKING LINES (4")
700	LF	TEMPORARY SILT FENCE
75	TON	STONE FOR EROSION CONTROL, CLASS A
355	TON	STONE FOR EROSION CONTROL, CLASS B
270	TON	SEDIMENT CONTROL STONE
3	ACR	TEMPORARY MULCHING
100	LB	SEED FOR TEMPORARY SEEDING
0.5	TON	FERTILIZER FOR TEMPORARY SEED- ING
150	LF	TEMPORARY SLOPE DRAINS
5	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
725	CY	SILT EXCAVATION
500	SY	SYNTHETIC ROVING
1,100	SY	MATting FOR EROSION CONTROL
65	SY	PERMANENT SOIL REINFORCEMENT MAT
40	LF	1/4" HARDWARE CLOTH
8	EA	SPECIAL STILLING BASINS
3.5	ACR	SEEDING & MULCHING
2	ACR	MOWING
50	LB	SEED FOR REPAIR SEEDING

0.25	TON	FERTILIZER FOR REPAIR SEEDING
75	LB	SEED FOR SUPPLEMENTAL SEEDING
2.5	TON	FERTILIZER TOPDRESSING
2.5	HR	SPECIALIZED HAND MOWING
8	EA	RESPONSE FOR EROSION CONTROL

STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (22+44.00 -L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (22+44.00 -L-)
60.6	LF	***.***" DIA DRILLED PIERS IN SOIL (3'-6")
40	LF	***.***" DIA DRILLED PIERS NOT IN SOIL (3'-6")
48.6	LF	PERMANENT STEEL CASING FOR ***.***" DIA DRILLED PIER (3'-6")
2	EA	CROSSHOLE SONIC LOGGING
442.4	LF	CSL TUBES
Lump Sum	LS	UNCLASSIFIED STRUCTURE EXCAVA- TION AT STATION ***** (22+44.00 -L-)
4,575	SF	REINFORCED CONCRETE DECK SLAB
3,698	SF	GROOVING BRIDGE FLOORS
112.2	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (22+44.00 -L-)
22,784	LB	REINFORCING STEEL (BRIDGE)
3,218	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
557.17	LF	45" PRESTRESSED CONCRETE GIR- DERS
255	LF	HP12X53 STEEL PILES
285.19	LF	CONCRETE BARRIER RAIL
560	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)
630	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

L030715 010

CONTRACT ID : C200737 33082.3.3

DIV OFFICE GREENSBORO

LENGTH = 0.394 MI

COUNTY : GUILFORD

WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 10.0% COMPLETION DATE : DEC 31 2004

BRIDGE OVER BUFFALO CREEK & APPROACHES ON SR-2770.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (23+24.00)
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING
500	CY	UNDERCUT EXCAVATION
Lump Sum	LS	GRADING
300	TON	CLASS IV SUBGRADE STABILIZATION
16,700	CY	BORROW EXCAVATION
50	CY	DRAINAGE DITCH EXCAVATION
200	CY	SELECT GRANULAR MATERIAL
1,000	SY	FABRIC FOR SOIL STABILIZATION
35	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
40	LF	15" SIDE DRAIN PIPE
292	LF	15" RC PIPE CULVERTS, CLASS III
28	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
108	LF	PIPE REMOVAL
200	TON	INCIDENTAL STONE BASE
1,215	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
555	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
1,020	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5A
145	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
17	EA	RIGHT OF WAY MARKERS
2	EA	MASONRY DRAINAGE STRUCTURES
1	EA	FRAME WITH TWO GRATES, STD 840.24
1	EA	FRAME WITH TWO GRATES, STD 840.29
75	LF	SHOULDER BERM GUTTER
625	LF	STEEL BM GUARDRAIL
5	EA	ADDITIONAL GUARDRAIL POSTS
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
575	LF	TEMPORARY STEEL BM GUARDRAIL
2	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY
79	TON	PLAIN RIP RAP, CLASS B
817	SY	FILTER FABRIC FOR DRAINAGE
52	SF	WORK ZONE SIGNS (STATIONARY)
96	SF	WORK ZONE SIGNS (PORTABLE)
20	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
40	EA	DRUMS
40	EA	CONES
80	LF	BARRICADES (TYPE III)
500	HR	FLAGGER
2	EA	TEMPORARY CRASH CUSHIONS
4	EA	RESET TEMPORARY CRASH CUSHIONS
2	EA	TRUCK MOUNTED IMPACT ATTENUATOR (60 MPH)
2,500	LF	PORTABLE CONCRETE BARRIER
1,000	LF	REMOVABLE TAPE PAVEMENT MARKING LINES (4")
50	EA	TEMPORARY RAISED PAVEMENT MARKERS
43,600	LF	PAINT PAVEMENT MARKING LINES (4")
100	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
30	EA	PERMANENT RAISED PAVEMENT MARKERS
1,275	LF	TEMPORARY SILT FENCE

75	TON	STONE FOR EROSION CONTROL, CLASS A
600	TON	STONE FOR EROSION CONTROL, CLASS B
400	TON	SEDIMENT CONTROL STONE
5	ACR	TEMPORARY MULCHING
200	LB	SEED FOR TEMPORARY SEEDING
0.75	TON	FERTILIZER FOR TEMPORARY SEEDING
80	LF	TEMPORARY SLOPE DRAINS
2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
1,500	CY	SILT EXCAVATION
800	SY	SYNTHETIC ROVING
1,200	SY	MATTING FOR EROSION CONTROL
80	LF	1/4" HARDWARE CLOTH
100	SY	FLOATING TURBIDITY CURTAIN
10	EA	SPECIAL STILLING BASINS
6.5	ACR	SEEDING & MULCHING
3	ACR	MOWING
50	LB	SEED FOR REPAIR SEEDING
0.25	TON	FERTILIZER FOR REPAIR SEEDING
125	LB	SEED FOR SUPPLEMENTAL SEEDING
4.75	TON	FERTILIZER TOPDRESSING
2	HR	SPECIALIZED HAND MOWING
8	EA	RESPONSE FOR EROSION CONTROL
1	ACR	REFORESTATION

STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (23+24.00 -L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (23+24.00 -L-)
105.6	LF	**1.**" DIA DRILLED PIERS IN SOIL (3'-6")
60	LF	**1.**" DIA DRILLED PIERS NOT IN SOIL (3'-6")
37.6	LF	PERMANENT STEEL CASING FOR **1.**" DIA DRILLED PIER (3'-6")
2	EA	CROSSHOLE SONIC LOGGING
742.4	LF	CSL TUBES
132.6	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (23+24.00 -L-)
39,043	LB	REINFORCING STEEL (BRIDGE)
6,244	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
330	LF	HP12X53 STEEL PILES
435.5	LF	CONCRETE BARRIER RAIL
1,397	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)
1,554	SY	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	ELASTOMERIC BEARINGS
2,387.69	LF	3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030715 011

CONTRACT ID : C200742 33181.3.1

DIV OFFICE ABERDEEN

LENGTH = 0.152 MI

COUNTY : CHATHAM

GRADING, DRAINAGE, PAVING & CULVERT.

DBE GOAL 8.0% COMPLETION DATE : SEE SPECIAL PROVISIONS

BRIDGE OVER LITTLE BRUSH CREEK & APPROACHES ON SR-1100.

ROADWAY ITEMS

165 CY CLASS A CONCRETE (CULVERT)  
 Lump Sum LS GENERIC CULVERT ITEM  
 PRECAST REINFORCED CONC THREE-  
 SIDED CULVERT, STA 16+63.20-L-

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	CONSTRUCTION SURVEYING
Lump Sum	LS	GRADING
1	ACR	SUPPLEMENTARY CLEARING & GRUB- BING
4	CY	DRAINAGE DITCH EXCAVATION
5	TON	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRS
28	LF	18" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK
1	EA	18" BIT COAT CS PIPE ELBOWS, T YPE B 0.064" THICK
740	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
400	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
58	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
1	EA	MASONRY DRAINAGE STRUCTURES
1	EA	FRAME WITH TWO GRATES, STD 840.29
330	LF	SHOULDER BERM GUTTER
875	LF	STEEL BM GUARDRAIL
5	EA	ADDITIONAL GUARDRAIL POSTS
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
17	TON	PLAIN RIP RAP, CLASS I
159	TON	PLAIN RIP RAP, CLASS A
14	TON	PLAIN RIP RAP, CLASS B
400	SY	FILTER FABRIC FOR DRAINAGE
203	SF	WORK ZONE SIGNS (STATIONARY)
69	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
2	EA	WARNING FLAG SETS
90	LF	BARRICADES (TYPE III)
6,800	LF	PAINT PAVEMENT MARKING LINES (4")
12	EA	PERMANENT RAISED PAVEMENT MARKERS
705	LF	TEMPORARY SILT FENCE
75	TON	STONE FOR EROSION CONTROL, CLASS A
205	TON	STONE FOR EROSION CONTROL, CLASS B
120	TON	SEDIMENT CONTROL STONE
2.5	ACR	TEMPORARY MULCHING
100	LB	SEED FOR TEMPORARY SEEDING
0.5	TON	FERTILIZER FOR TEMPORARY SEED- ING
150	LF	TEMPORARY SLOPE DRAINS
3	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
365	CY	SILT EXCAVATION
310	SY	SYNTHETIC ROVING
775	SY	MATTING FOR EROSION CONTROL
20	LF	1/4" HARDWARE CLOTH
4	EA	SPECIAL STILLING BASINS
3	ACR	SEEDING & MULCHING
1.5	ACR	MOWING
50	LB	SEED FOR REPAIR SEEDING
0.25	TON	FERTILIZER FOR REPAIR SEEDING
50	LB	SEED FOR SUPPLEMENTAL SEEDING
2	TON	FERTILIZER TOPDRESSING
325	LF	IMPERVIOUS DIKE
2.5	HR	SPECIALIZED HAND MOWING
8	EA	RESPONSE FOR EROSION CONTROL

CULVERT ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (16+63.20 -L-)
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FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030715 012

CONTRACT ID : C200744 34872.3.3

DIV OFFICE WINSTON-SALEM

LENGTH = 1.648 MI

COUNTY : FORSYTH

PVT REHAB, SAFETY IMPROVEMENTS, SIGNING & STR REHAB.

DBE GOAL 10.0% COMPLETION DATE : SEP 15 2005

I-40BUS/US-421 FROM WEST OF US-311 TO WEST OF US-158 IN WINSTON-SALEM.

ROADWAY ITEMS

			2	EA	CONCRETE BARRIER TRANSITION SECTION
			350	LF	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED
			2	EA	ADJUSTMENT OF DROP INLETS
Lump Sum	LS	MOBILIZATION	11,450	LF	STEEL BM GUARDRAIL
Lump Sum	LS	GRADING	10	EA	ADDITIONAL GUARDRAIL POSTS
1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING	1	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (B-77)
750	CY	UNDERCUT EXCAVATION	9	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
350	TON	CLASS IV SUBGRADE STABILIZATION	12	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
5,000	SY	REMOVAL OF EXISTING CONCRETE PAVEMENT SLABS	11,840	LF	REMOVE EXISTING GUARDRAIL
500	CY	SELECT GRANULAR MATERIAL	920	LF	WOVEN WIRE FENCE, 47" FABRIC
500	SY	FABRIC FOR SOIL STABILIZATION	35	EA	4" TIMBER FENCE POSTS, 7'-6" LONG
120	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	35	EA	5" TIMBER FENCE POSTS, 8'-0" LONG
20	LF	15" RC PIPE CULVERTS, CLASS III	100	LF	ADDITIONAL BARBED WIRE
388	LF	18" RC PIPE CULVERTS, CLASS III	30	TON	PLAIN RIP RAP, CLASS B
360	LF	24" RC PIPE CULVERTS, CLASS III	690	SY	FILTER FABRIC FOR DRAINAGE
172	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	7	CY	REINFORCED CONCRETE SIGN FOOTINGS
20	LF	18" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	2	CY	PLAIN CONCRETE SIGN FOOTINGS
128	LF	30" BIT COAT CS PIPE CULVERTS, TYPE B 0.079" THICK	4,558	LB	SUPPORTS, BREAKAWAY STEEL BEAM
2	EA	*** BIT COAT CS PIPE ELBOWS, TYPE B ***** THICK (15", 0.064")	2,630	LB	SUPPORTS, SIMPLE STEEL BEAM
1,500	LB	SEALING EXISTING PAVEMENT CRACKS	538	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
500	TON	STABILIZER AGGREGATE	4	EA	SUPPORTS, 2-LB STEEL U-CHANNEL
30,640	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C	2	EA	SUPPORTS, BARRIER (SMALL)
13,570	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	13	EA	SIGN ERECTION, TYPE E
17,040	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	2	EA	SIGN ERECTION, TYPE F
1,695	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	5	EA	SIGN ERECTION, TYPE *** (OVERHEAD) (B)
1,000	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	12	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)
95	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 76-22	6	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)
1,440	TON	OPEN-GRADED ASPHALT FRICTION COURSE, TYPE FC-1 MODIFIED	4	EA	SIGN ERECTION, MILEMARKERS
1,425	SY	GENERIC PAVING ITEM MILLING ASPHALT PAVEMENT, 0" TO VARIABLE DEPTH	4	EA	DISPOSAL OF SIGN SYSTEM, OVERHEAD
7,950	SY	GENERIC PAVING ITEM MILLING ASPHALT PAVEMENT, VARIABLE DEPTH	16	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM
12	EA	RIGHT OF WAY MARKERS	20	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
4.3	CY	PIPE COLLARS	12	EA	TEMPORARY SIGN COVERS
41	EA	MASONRY DRAINAGE STRUCTURES	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "A" (EASTBOUND)
19	EA	FRAME WITH TWO GRATES, STD 840.***** (840.20)	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B"
8	EA	FRAME WITH TWO GRATES, STD 840.22	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "E"
3	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "F"
3	EA	FRAME WITH COVER, STD 840.54	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "A"
8	EA	STEEL FRAME WITH TWO GRATES, STD 840.37	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "B"
1,640	LF	2'-6" CONCRETE CURB & GUTTER	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "C"
7,090	LF	CONCRETE EXPRESSWAY GUTTER	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "D"
190	SY	4" CONCRETE PAVED DITCH	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "E"
2,780	LF	*** CONCRETE GLARE SCREEN (18")	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "F"
2,740	LF	*** CONCRETE GLARE SCREEN (27")	Lump Sum	LS	GENERIC SIGNING ITEM
2,740	LF	CONCRETE BARRIER, TYPE ***** (I)	Lump Sum	LS	STATIC LIGHTING SYSTEM FOR OVERHEAD ASSEMBLY "A" (WESTBOUND)
2,780	LF	CONCRETE BARRIER, TYPE ***** (II)	Lump Sum	LS	GENERIC SIGNING ITEM STATIC LIGHTING SYSTEM FOR OVERHEAD ASSEMBLY "C"

Lump Sum	LS	GENERIC SIGNING ITEM STATIC LIGHTING SYSTEM FOR OVERHEAD ASSEMBLY "D"	184	LF	** #8 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1-1/2")
1,615	SF	WORK ZONE SIGNS (STATIONARY)	428	LF	** #4 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1-1/2")
782	SF	WORK ZONE SIGNS (PORTABLE)	672	LF	** #2 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1-1/2")
50	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	149	LF	***** FEEDER CIRCUIT IN ** CONDUIT (2-#1/0 W/G, 1-1/2")
3	EA	FLASHING ARROW PANELS, TYPE C	4	EA	ELECTRICAL JUNCTION BOXES ***** (PC18)
3	EA	CHANGEABLE MESSAGE SIGNS	Lump Sum	LS	PORTABLE LIGHTING
16	EA	WARNING FLAG SETS	40	EA	GENERIC LIGHTING ITEM REMOVE LIGHT STANDARD
450	EA	DRUMS	625	LF	TEMPORARY SILT FENCE
216	LF	BARRICADES (TYPE III)	400	TON	STONE FOR EROSION CONTROL, CLASS A
4	EA	WARNING LIGHTS (TYPE B)	1,880	TON	STONE FOR EROSION CONTROL, CLASS B
2	EA	TEMPORARY CRASH CUSHIONS	790	TON	SEDIMENT CONTROL STONE
11	EA	RESET TEMPORARY CRASH CUSHIONS	11.5	ACR	TEMPORARY MULCHING
2	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (60 MPH)	400	LB	SEED FOR TEMPORARY SEEDING
6,660	LF	PORTABLE CONCRETE BARRIER	1.75	TON	FERTILIZER FOR TEMPORARY SEED- ING
10,650	LF	PORTABLE CONCRETE BARRIER (ANCHORED)	6,500	CY	SILT EXCAVATION
26,520	LF	RESET PORTABLE CONCRETE BAR- RIER	3,510	SY	SYNTHETIC ROVING
33,490	LF	RESET PORTABLE CONCRETE BAR- RIER (ANCHORED)	12,670	SY	MATTING FOR EROSION CONTROL
8,599	LF	REMOVABLE TAPE PAVEMENT MARK- ING LINES (6")	800	LF	1/4" HARDWARE CLOTH
13	EA	REMOVABLE TAPE PAVEMENT MARK- ING CHARACTER	12.5	ACR	SEEDING & MULCHING
8	EA	REMOVABLE TAPE PAVEMENT MARK- ING SYMBOL	7	ACR	MOWING
1,058	EA	TEMPORARY RAISED PAVEMENT MARKERS	100	LB	SEED FOR REPAIR SEEDING
35,405	LF	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	0.25	TON	FERTILIZER FOR REPAIR SEEDING
6,077	LF	THERMOPLASTIC PAVEMENT MARKING LINES (6", 120 MILS)	275	LB	SEED FOR SUPPLEMENTAL SEEDING
7,008	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	9.25	TON	FERTILIZER TOPDRESSING
20	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120MIL)	1.2	ACR	SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (HARD FESCUE/BLUEGRASS)
14	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	26.5	HR	SPECIALIZED HAND MOWING
2,038	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (6")	16	EA	RESPONSE FOR EROSION CONTROL
2	EA	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL			***** BEGIN SCHEDULE AA ***** ***** ( 2 ALTERNATES ) *****
281,964	LF	PAINT PAVEMENT MARKING LINES (6")	Lump Sum	CY	CONCRETE RETAINING WALLS GENERIC RETAINING WALL ITEM SOIL NAIL RETAINING WALL (RETAINING WALL 1)
28,128	LF	PAINT PAVEMENT MARKING LINES (12")			*** OR ***
52	EA	PAINT PAVEMENT MARKING CHARAC- TER	370	CY	CONCRETE RETAINING WALLS
50	EA	PAINT PAVEMENT MARKING SYMBOL			*** END SCHEDULE AA ***
17,090	LF	REMOVAL OF PAVEMENT MARKING LINES (4")			<b>STRUCTURE ITEMS</b>
37,679	LF	REMOVAL OF PAVEMENT MARKING LINES (6")	59,500	LS	APPROX ..... LBS STRUCTURAL STEEL
2,606	LF	REMOVAL OF PAVEMENT MARKING LINES (8")	18	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)
2,097	LF	REMOVAL OF PAVEMENT MARKING LINES (12")	685	CF	SHOTCRETE REPAIRS
614	EA	SNOWPLOWABLE RAISED PAVEMENT MARKERS	24	EA	SHOTCRETE CORE SAMPLES
24	EA	FLEXIBLE DELINEATORS (CRYSTAL)	60	LF	EPOXY RESIN INJECTION
32	EA	FLEXIBLE DELINEATORS (YELLOW)	Lump Sum	LS	EVAZOTE JOINT SEALS
3	EA	100' HIGH MOUNT STANDARD	Lump Sum	LS	GENERIC STRUCTURE ITEM ELASTOMERIC BEARINGS
1	EA	PORTABLE DRIVE UNIT	5	SY	GENERIC STRUCTURE ITEM CLASS II REPAIR
15.3	CY	HIGH MOUNT FOUNDATIONS	179	SY	GENERIC STRUCTURE ITEM CLASS III REPAIR
12	EA	HIGH MOUNT LUMINAIRES ***** (1KW HPS)			
30	LF	ELECTRIC SERVICE LATERAL ***** (3 #1/0 USE)			
1	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (120/240 VOLT)			
30	LF	ELECTRICAL DUCT, TYPE BD, SIZE ***** (2")			
20	LF	ELECTRICAL DUCT, TYPE BD, SIZE ***** (3")			
111	LF	ELECTRICAL DUCT, TYPE JA, SIZE ***** (2")			
77	LF	ELECTRICAL DUCT, TYPE JA, SIZE ***** (3")			
161	LF	** #4 W/G FEEDER CIRCUIT (2)			
161	LF	** #2 W/G FEEDER CIRCUIT (2)			

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

L030715 013

CONTRACT ID : C200736 35033.3.2

DIV OFFICE ABLEMARLE

LENGTH = 8.553 MI

COUNTY : MECKLENBURG

INTELLEAGENT TRANSPORTATION SYSTEM.

DBE GOAL 0.0% COMPLETION DATE : NOV 01 2004

I-85 FROM I-77 TO BROOKSHIRE FWY, BROOKSHIRE FWY FROM I-85 TO DAVIDSON ST, I-77 FROM I-85 TO I-277.

## ROADWAY ITEMS

			21	EA	GENERIC SIGNAL ITEM POLE-MOUNTED EQUIPMENT CABINET
			1	EA	GENERIC SIGNAL ITEM POLE-MOUNTED SPLICE CABINET
			16	EA	GENERIC SIGNAL ITEM SINGLE MICROWAVE VEHICLE DETECTOR ASSEMBLY
			2	EA	GENERIC SIGNAL ITEM SPLICE CABINET FOUNDATION
			8	EA	GENERIC SIGNAL ITEM SPLICE ENCLOSURE, TYPE A
			5	EA	GENERIC SIGNAL ITEM SPLICE ENCLOSURE, TYPE B
			5	EA	GENERIC SIGNAL ITEM TERMINAL SERVER
			2	EA	GENERIC SIGNAL ITEM VIDEO DISTRIBUTION AMPLIFIER
			5	EA	GENERIC SIGNAL ITEM VOR-D
			3	EA	GENERIC SIGNAL ITEM VORDEMUX
			5	EA	GENERIC SIGNAL ITEM VOT-D
			3	EA	GENERIC SIGNAL ITEM VOTMUX
			Lump Sum	LS	GENERIC SIGNAL ITEM CHARLOTTE TOC SOFTWARE MODIFICATIONS
			Lump Sum	LS	GENERIC SIGNAL ITEM CHARLOTTE TOC VIDEO MATRIX SWITCH MODIFICATIONS
			Lump Sum	LS	GENERIC SIGNAL ITEM MRTMC SOFTWARE MODIFICATIONS
			Lump Sum	LS	GENERIC SIGNAL ITEM MRTMC VIDEO MATRIX SWITCH MODIFICATIONS
			Lump Sum	LS	GENERIC SIGNAL ITEM TRAINING
			1,170	LF	GENERIC SIGNAL ITEM DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 2" (1 CONDUIT)
			4,725	LF	GENERIC SIGNAL ITEM DROP CABLE (12 FIBER)
			1,110	LF	GENERIC SIGNAL ITEM TRENCH 2" POLYETHYLENE (1 CON- DUIT)
Lump Sum	LS	MOBILIZATION			
1,760	SF	WORK ZONE SIGNS (PORTABLE)			
4	EA	FLASHING ARROW PANELS, TYPE C			
3	EA	CHANGEABLE MESSAGE SIGNS			
12	EA	WARNING FLAG SETS			
577	EA	DRUMS			
30	EA	CONES			
300	HR	FLAGGER			
7	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (60 MPH)			
2,950	LF	MESSENGER CABLE (1/4")			
45,105	LF	TRACER WIRE			
5,540	LF	DIRECTIONAL DRILL OUTER-DUCT CONDUIT, 5"			
19,135	LF	TRENCH MULTI-DUCT, 1-1/4" (** CONDUIT) (4)			
5,540	LF	MULTI-DUCT, 1-1/4" IN OUTER- DUCT (** CONDUIT) (4)			
8	EA	GUY ASSEMBLY			
11	EA	2" RISER WITH HEAT SHRINK TUBING			
29,115	LF	COMMUNICATIONS CABLE (**FIBER) (144)			
700	LF	COMMUNICATIONS CABLE (**FIBER) (24)			
11,695	LF	COMMUNICATIONS CABLE (**FIBER) (288)			
23,810	LF	COMMUNICATIONS CABLE (**FIBER) (72)			
26	EA	INTERCONNECT CENTER			
22	EA	DELINEATOR MARKER			
2	EA	GENERIC SIGNAL ITEM BASE-MOUNTED SPLICE CABINET			
5	EA	GENERIC SIGNAL ITEM CCTV ASSEMBLY			
5	EA	GENERIC SIGNAL ITEM CCTV METAL POLE			
1	EA	GENERIC SIGNAL ITEM CENTRAL FIBER OPTIC INTER- CONNECT CENTER			
1	EA	GENERIC SIGNAL ITEM COMMUNICATIONS CLOSET RACK CABINET			
3	EA	GENERIC SIGNAL ITEM DUAL MICROWAVE VEHICLE DETECTOR ASSEMBLY			
1	EA	GENERIC SIGNAL ITEM ETHERNET LAN SWITCH			
2	EA	GENERIC SIGNAL ITEM ETHERNET ROUTER			
2	EA	GENERIC SIGNAL ITEM FIBER OPTIC MEDIA CONVERTER			
22	EA	GENERIC SIGNAL ITEM FOT			
3	EA	GENERIC SIGNAL ITEM FURNISH FOT (CHASSIS MOUNT)			
2	EA	GENERIC SIGNAL ITEM FURNISH FOT (STAND-ALONE)			
2	EA	GENERIC SIGNAL ITEM FURNISH VOR-D			
2	EA	GENERIC SIGNAL ITEM FURNISH VOT-D			
86	EA	GENERIC SIGNAL ITEM JUNCTION BOX (OVER-SIZED)			
12	EA	GENERIC SIGNAL ITEM JUNCTION BOX (OVER-SIZED, HEAVY DUTY)			
1	EA	GENERIC SIGNAL ITEM MRTMC COMPUTER ROOM RACK CABI- NET			
15	EA	GENERIC SIGNAL ITEM MVD METAL POLE			
2	EA	GENERIC SIGNAL ITEM OPTELECOM VOR-D			
2	EA	GENERIC SIGNAL ITEM OPTELECOM VOT-D			



STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L030715 014

CONTRACT ID : C200741 34496.3.1

DIV OFFICE NORTH WILKESBORO

LENGTH = 0.990 KM

COUNTY : YADKIN

WIDENING, GRADING, DRAINAGE & PAVING.

MBE GOAL 7.0% WBE 4.0% COMPLETION DATE : SEP 01 2004

NC-67 FROM I-77 TO SR-1355 (MESSICK RD).

ROADWAY ITEMS

			2	EA	WARNING FLAG SETS
			260	EA	DRUMS
			66	EA	CONES
			15	M	BARRICADES (TYPE II)
Lump Sum	LS	MOBILIZATION	4,800	HR	FLAGGER
Lump Sum	LS	CONSTRUCTION SURVEYING	1	EA	TRUCK MOUNTED IMPACT ATTENUATOR (45 MPH)
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)	40	HR	POLICE
0.4	HA	SUPPLEMENTARY CLEARING & GRUBBING	83	EA	TEMPORARY RAISED PAVEMENT MARKERS
1	EA	SEALING ABANDONED WELLS	1,825	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)
8,000	M3	UNCLASSIFIED EXCAVATION	2,970	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)
1,000	M3	UNDERCUT EXCAVATION	84	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)
100	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT	19	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)
200	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	23	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)
84	M	375MM SIDE DRAIN PIPE	12,715	M	PAINT PAVEMENT MARKING LINES (100MM)
18	M	450MM SIDE DRAIN PIPE	94	M	PAINT PAVEMENT MARKING LINES (200MM)
12	M	300MM RC PIPE CULVERTS, CLASS III	25	M	PAINT PAVEMENT MARKING LINES (600MM)
109.2	M	375MM RC PIPE CULVERTS, CLASS III	23	EA	PAINT PAVEMENT MARKING SYMBOL
192	M	450MM RC PIPE CULVERTS, CLASS III	3,500	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)
145.2	M	600MM RC PIPE CULVERTS, CLASS III	23	EA	PERMANENT RAISED PAVEMENT MARKERS
69.6	M	900MM RC PIPE CULVERTS, CLASS III	156	EA	SNOWPLOWABLE RAISED PAVEMENT MARKERS
251.1	M	PIPE REMOVAL	165	MTN	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (VI)
Lump Sum	LS	FINE GRADING	440	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (I)
30	MTN	AGGREGATE BASE COURSE	165	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (IV)
500	MTN	INCIDENTAL STONE BASE	330	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (VI)
1,000	M3	SHOULDER BORROW	73	MTN	PAVEMENT REPAIR FOR UTILITY WORK
7,500	M2	MILLING ASPHALT PAVEMENT, **MM DEPTH (55MM)	27	M	150MM DI WATER PIPE, PC 2.41MPA
1,850	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B	55	M	200MM DI WATER PIPE, PC 2.41MPA
2,500	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	875	M	300MM DI WATER PIPE, PC 2.41MPA
3,300	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	246	KG	DI RESTRAINED JOINT WATER PIPE FITTINGS, 1.72MPA MIN WP
450	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	106	M	20MM COPPER WATER PIPE, TYPE K
150	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR	1,436	KG	DUCTILE IRON WATER PIPE FITTINGS, 1.72MPA MIN WP
21	EA	RIGHT OF WAY MARKERS	56	M	20MM PE WATER TUBING, SDR 9, ****MPA WP (1.38 MPA WP)
4	EA	TEMPORARY STEEL PLATE COVERS FOR MASONRY DRAINAGE STRUCTURE	20	M	***MM PE WATER TUBING, SDR 9, ****MPA WP (25MM, 1.38 MPA WP)
22	EA	MASONRY DRAINAGE STRUCTURES	12	EA	20MM CORPORATION STOP
9.09	M	MASONRY DRAINAGE STRUCTURES	1	EA	25MM CORPORATION STOP
1	EA	FRAME WITH TWO GRATES, STD 840.16	6	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP
10	EA	FRAME WITH TWO GRATES, STD 840.24	1	EA	200MM GATE VALVE & VALVE BOX, ****MPA WP (1.38 MPA WP)
1	EA	FRAME WITH TWO GRATES, STD 840.29	7	EA	300MM GATE VALVE & VALVE BOX, ****MPA WP (1.38 MPA WP)
1	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	6	EA	*** X ****MM TAPPING SADDLE (300MM X 20MM)
3	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	1	EA	*** X ****MM TAPPING SADDLE (300MM X 25MM)
6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	1	EA	RELOCATE EXISTING WATER METER
90	M	*** X ****MM CONCRETE CURB (200MM X 450MM)	3	EA	FIRE HYDRANT, ****MPA WP (1.03 MPA WP)
215	M	750MM CONCRETE CURB & GUTTER			
90	M	CONCRETE EXPRESSWAY GUTTER			
240	M2	150MM CONCRETE DRIVEWAY			
5	EA	ADJUSTMENT OF MANHOLES			
11	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES			
94	MTN	PLAIN RIP RAP, CLASS B			
356.5	M2	FILTER FABRIC FOR DRAINAGE			
20	M2	WORK ZONE SIGNS (STATIONARY)			
23	M2	WORK ZONE SIGNS (PORTABLE)			

3	EA	RELOCATE EXISTING FIRE HYDRANT
180	M	***MM PVC SEWER PIPE, SDR 35 (100MM)
746	M	200MM PVC SEWER PIPE, SDR 35
11	EA	SANITARY SEWER CLEAN-OUT
15	EA	****MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1200MM)
13	M	PRECAST CONC MANHOLE WALL, ****MM DIA, OVER 1.8M HT (1200MM)
6	EA	GENERIC UTILITY ITEM 20MM METER YOKE & METER BOX
225	M	TEMPORARY SILT FENCE
175	MTN	STONE FOR EROSION CONTROL, CLASS A
425	MTN	STONE FOR EROSION CONTROL, CLASS B
245	MTN	SEDIMENT CONTROL STONE
3	HA	TEMPORARY MULCHING
125	KG	SEED FOR TEMPORARY SEEDING
1	MTN	FERTILIZER FOR TEMPORARY SEED- ING
50	M3	SILT EXCAVATION
990	M2	SYNTHETIC ROVING
990	M2	MATting FOR EROSION CONTROL
144	M	6.4MM HARDWARE CLOTH
3	HA	SEEDING & MULCHING
2	HA	MOWING
50	KG	SEED FOR REPAIR SEEDING
0.25	MTN	FERTILIZER FOR REPAIR SEEDING
75	KG	SEED FOR SUPPLEMENTAL SEEDING
4.5	MTN	FERTILIZER TOPDRESSING
8	EA	RESPONSE FOR EROSION CONTROL

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

L030715 015

CONTRACT ID : C200674 34791.3.7

DIV OFFICE SHELBY

LENGTH = 2.595 KM

COUNTY : CATAWBA

GRADING, DRAINAGE, PAVING &amp; STRUCTURE.

DBE GOAL 9.0% COMPLETION DATE : MAY 15 2006

HICKORY EASTSIDE THROUGHFARE FROM NORTH OF SR-1692 (TATE BLDV) TO SR-1453 (SPRINGS RD).

ROADWAY ITEMS				
		25,900	M2	LIME TREATED SOIL (SLURRY METHOD)
		285	MTN	LIME FOR LIME TREATED SOIL
		41,600	MTN	AGGREGATE BASE COURSE
		25,900	M2	***MM SOIL CEMENT BASE (180MM)
		780	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE
		175	MTN	AGGREGATE FOR SOIL CEMENT BASE
		35,225	L	ASPHALT CURING SEAL
		200	MTN	INCIDENTAL STONE BASE
		10,100	L	PRIME COAT
		2,700	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B
		700	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
		2,900	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
		16,000	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
		1,025	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5A
		3,100	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
		11,400	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
		1,303	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
		741	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
		130	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR
		420	M3	SUBDRAIN EXCAVATION
		210	M3	SUBDRAIN FINE AGGREGATE
		500	M	150MM PERFORATED SUBDRAIN PIPE
		51	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS
		3	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
		6	M	150MM OUTLET PIPE (SUBDRAINS)
		10	MTN	BLOTTING SAND
		11	M3	ENDWALLS
		11	M3	REINFORCED ENDWALLS
		1	M3	PIPE COLLARS
		5	M3	FLOWABLE FILL
		69	EA	MASONRY DRAINAGE STRUCTURES
		5	M	MASONRY DRAINAGE STRUCTURES
		2	EA	FRAME WITH GRATE, STD 840.22
		1	EA	FRAME WITH GRATE, STD 840.29
		6	EA	FRAME WITH TWO GRATES, STD 840.**** (840.20)
		5	EA	FRAME WITH TWO GRATES, STD 840.16
		21	EA	FRAME WITH TWO GRATES, STD 840.22
		2	EA	FRAME WITH TWO GRATES, STD 840.24
		1	EA	FRAME WITH TWO GRATES, STD 840.29
		7	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
		11	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
		13	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
		2	EA	FRAME WITH COVER, STD 840.54
		12	EA	CONCRETE APRON FOR CATCH BASIN
		2	EA	CONCRETE APRON FOR DROP INLETS
		220	M	*** X ****M CONCRETE CURB (200MM X 450MM)
		3,450	M	450MM CONCRETE CURB & GUTTER
		1,575	M	750MM CONCRETE CURB & GUTTER
		415	M	SHOULDER BERM GUTTER
		140	M2	CONCRETE WHEELCHAIR RAMPS
		160	M2	150MM CONCRETE DRIVEWAY
Lump Sum	LS			MOBILIZATION
Lump Sum	LS			CONSTRUCTION SURVEYING
Lump Sum	LS			CLEARING & GRUBBING ... HEC-TARE(S)
0.8	HA			SUPPLEMENTARY CLEARING & GRUBBING
3	EA			SEALING ABANDONED WELLS
217,500	M3			UNCLASSIFIED EXCAVATION
3,250	M3			UNDERCUT EXCAVATION
200	MTN			CLASS IV SUBGRADE STABILIZATION
37,500	M3			BORROW EXCAVATION
1,900	M3			DRAINAGE DITCH EXCAVATION
120	M			BERM DITCH CONSTRUCTION
3,450	M2			REMOVAL OF EXISTING ASPHALT PAVEMENT
135	M2			REMOVAL OF EXISTING CONCRETE PAVEMENT
3,850	M2			BREAKING OF EXISTING ASPHALT PAVEMENT
15	HR			PROOF ROLLING
500	M3			SELECT GRANULAR MATERIAL
500	M2			FABRIC FOR SOIL STABILIZATION
55	M2			TEMPORARY SHORING
955	MTN			FOUNDATION CONDITIONING MATERIAL, MINOR STRS
112.8	M			375MM SIDE DRAIN PIPE
21.6	M			450MM SIDE DRAIN PIPE
1,627.2	M			375MM RC PIPE CULVERTS, CLASS III
162	M			450MM RC PIPE CULVERTS, CLASS III
271.2	M			600MM RC PIPE CULVERTS, CLASS III
58.8	M			750MM RC PIPE CULVERTS, CLASS III
42	M			900MM RC PIPE CULVERTS, CLASS III
192	M			1050MM RC PIPE CULVERTS, CLASS III
96	M			****MM RC PIPE CULVERTS, CLASS IV (1500MM)
81.6	M			****MM RC PIPE CULVERTS, CLASS IV (1650MM)
1	EA			***MM PIPE END SECTION (450MM)
1	EA			***MM PIPE END SECTION (600MM)
2	EA			1650 X 1050MM RC PIPE TAPERED INLET, CLASS III
1	EA			2100 X 1500MM RC PIPE TAPERED INLET, CLASS III
1	EA			2250 X 1650MM RC PIPE TAPERED INLET, CLASS III
66	M			450MM CS PIPE CULVERTS, 1.63MM THICK
163.2	M			400MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
67.2	M			450MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
63.6	M			800MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK
7.2	M			900MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK
1	EA			***MM BIT COAT CS PIPE ELBOWS, TYPE B ****MM THICK (900MM, 2.01MM THICK,)
18	EA			400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
3	EA			450MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
470.4	M			PIPE REMOVAL
90	M2			150MM SLOPE PROTECTION
Lump Sum	LS			FINE GRADING

			2	EA	GENERIC TRACKWORK ITEM REMOVE TURNOUTS
			3,040	MTN	GENERIC TRACKWORK ITEM STONE BALLAST (AREMA #3)
50	M2	100MM CONCRETE PAVED DITCH	483	M	SUPPORTS, 4.5KG STEEL U-CHANNEL
225	M2	75MM CONCRETE ISLAND COVERS	1	EA	SIGN ERECTION, TYPE D
1,190	M2	125MM MONOLITHIC CONCRETE ISLANDS (KEYED IN)	105	EA	SIGN ERECTION, TYPE E
95	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	2	EA	RELOCATE SIGN, TYPE ***** (D)
20	EA	ADJUSTMENT OF MANHOLES	1	EA	RELOCATE SIGN, TYPE ***** (E)
50	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	18	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
1	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX	2	EA	DISPOSAL OF SUPPORT, U-CHANNEL
2	EA	IMPACT ATTENUATOR UNIT, TYPE 350	63	M2	WORK ZONE SIGNS (STATIONARY)
1,668.78	M	STEEL BM GUARDRAIL	46	M2	WORK ZONE SIGNS (PORTABLE)
217.17	M	STEEL BM GUARDRAIL, SHOP CURVED	12	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)
4	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS	2	EA	FLASHING ARROW PANELS, TYPE C
10	EA	ADDITIONAL GUARDRAIL POSTS	7	EA	WARNING FLAG SETS
4	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1	166	EA	DRUMS
6	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	71	EA	CONES
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III	296	M	BARRICADES (TYPE III)
15	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	7,200	HR	FLAGGER
5	EA	GUARDRAIL ANCHOR UNITS, TYPE XI (MOD)	7	EA	WARNING LIGHTS (TYPE B)
4,710	M	WOVEN WIRE FENCE, 1200MM FABRIC	2	EA	TRUCK MOUNTED IMPACT ATTENUATOR (60 MPH)
980	EA	100MM TIMBER FENCE POSTS, 2.30M LONG	350	M	WATER FILLED BARRIER
245	EA	125MM TIMBER FENCE POSTS, 2.50M LONG	150	M	RESET WATER FILLED BARRIER
125	M	CHAIN LINK FENCE, *****M FABRIC (1800MM)	178	EA	TEMPORARY RAISED PAVEMENT MARKERS
300	M	ADDITIONAL BARBED WIRE	13,252	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)
530	MTN	PLAIN RIP RAP, CLASS I	9,195	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)
1,640	MTN	PLAIN RIP RAP, CLASS B	540	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)
5,717	M2	FILTER FABRIC FOR DRAINAGE	164	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)
3,800	MTN	AGGREGATE BASE COURSE (SUB-BALLAST)	4	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)
312.4	M	RAILROAD TRACK TO BE REMOVED	129	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)
25	EA	CROSS TIE REPLACEMENTS	110	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (100MM)
43	M	GENERIC TRACKWORK ITEM DETOUR MAIN TRACK IN SKELETON-FORM TO BE CONSTRUCTED	30,939	M	PAINT PAVEMENT MARKING LINES (100MM)
232.5	M	GENERIC TRACKWORK ITEM DETOUR MAIN TRACK TO BE CONSTRUCTED & REMOVED (DETOUR -Y6-)	736	M	PAINT PAVEMENT MARKING LINES (200MM)
33	M	GENERIC TRACKWORK ITEM DETOUR PASSING TRACK IN SKELETON-FORM TO BE CONSTRUCTED	212	M	PAINT PAVEMENT MARKING LINES (600MM)
196.4	M	GENERIC TRACKWORK ITEM DETOUR PASSING TRACK TO BE CONSTRUCTED & REMOVED (DETOUR -Y6-)	97	EA	PAINT PAVEMENT MARKING SYMBOL
34	M	GENERIC TRACKWORK ITEM EXTING LONG-LEAD TRACK TO BE LINED (PERMANENT ALIGNMENT)	333	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)
34	M	GENERIC TRACKWORK ITEM EXTING LONG-LEAD TRACK TO BE RAISED (PERMANENT PROFILE)	16	M	REMOVAL OF PAVEMENT MARKING LINES (600MM)
182.3	M	GENERIC TRACKWORK ITEM EXTING MAIN TRACK TO BE LINED (PERMANENT ALIGNMENT)	851	EA	SNOWPLOWABLE RAISED PAVEMENT MARKERS
182.3	M	GENERIC TRACKWORK ITEM EXTING MAIN TRACK TO BE RAISED (PERMANENT PROFILE)	3	EA	2.1M U-CHANNEL POSTS
195	M	GENERIC TRACKWORK ITEM EXTING PASSING TRACK TO BE LINED (PERMANENT ALIGNMENT)	3	EA	OBJECT MARKERS (END OF ROAD)
195	M	GENERIC TRACKWORK ITEM EXTING PASSING TRACK TO BE RAISED (PERMANENT PROFILE)	334.1	MTN	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (V)
35.5	M	GENERIC TRACKWORK ITEM MAIN TRACK TO BE CONSTRUCTED (-Y6-)	334.1	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (V)
85	M	GENERIC TRACKWORK ITEM MAIN TRACK TO BE REMOVED & RELAID (-Y6-)	137.1	M	150MM DI WATER PIPE, PC 2.41MPA
85	M	GENERIC TRACKWORK ITEM PASSING TRACK TO BE REMOVED & RELAID (-Y6B-)	156.4	M	200MM DI WATER PIPE, PC 2.41MPA
335	EA	GENERIC TRACKWORK ITEM GRADE 5 CROSS TIES	91.3	M	250MM DI WATER PIPE, PC 2.41MPA
2	EA	GENERIC TRACKWORK ITEM INSTALL NO 10 TURNOUT	100.6	M	400MM DI WATER PIPE, PC ***MPA (PC 2.41)
2	EA	GENERIC TRACKWORK ITEM REMOVE NO 10 TURNOUT	42.9	M	***MM DI RESTRAINED JOINT WATER PIPE, CLASS ***** WP (200MM, PC 2.41 MPA)
			129.8	M	***MM DI RESTRAINED JOINT WATER PIPE, CLASS ***** WP (250MM, PC2.41 MPA)
			133.1	M	***MM DI RESTRAINED JOINT WATER PIPE, CLASS ***** WP (400MM, PC 2.41 MPA)
			101.7	M	20MM COPPER WATER PIPE, TYPE K
			281.9	M	***MM PVC WATER PIPE, (C900), DR ***, ****MPA WP (150MM, DR14, 1.38 MPA)
			555.6	M	***MM PVC WATER PIPE, (C900), DR ***, ****MPA WP (300MM, DR14, 1.38 MPA)
			234.1	M	200MM PVC WATER PIPE, (C900), DR ***, ****MPA WP (C900, DR14, 1.38 MPA)
			5,508.64	KG	DUCTILE IRON WATER PIPE FITTINGS, 1.72MPA MIN WP

			18	HA	TEMPORARY MULCHING
			725	KG	SEED FOR TEMPORARY SEEDING
			6	MTN	FERTILIZER FOR TEMPORARY SEEDING
8	EA	20MM CORPORATION STOP			
2	EA	***MM GATE VALVE & VALVE BOX, ****MPA WP (400MM, 1.38MPA)	382	M	TEMPORARY SLOPE DRAINS
6	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP	24	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
1	EA	200MM GATE VALVE & VALVE BOX, ****MPA WP (1.38MPA)	13,500	M3	SILT EXCAVATION
2	EA	250MM GATE VALVE & VALVE BOX, ****MPA WP (1.38 MPA)	2,600	M2	SYNTHETIC ROVING
2	EA	300MM GATE VALVE & VALVE BOX, ****MPA WP (1.38MPA)	3,600	M2	MATTING FOR EROSION CONTROL
7	EA	*** X ***MM TAPPING SADDLE (150MM x 20MM)	105	M2	PERMANENT SOIL REINFORCEMENT MAT
1	EA	*** X ***MM TAPPING SADDLE (300MM x 20MM)	402	M	6.4MM HARDWARE CLOTH
2	EA	150MM TRANSITION COUPLING, ***** (AC, PVC)	55	M	***MM TEMPORARY PIPE (450MM)
2	EA	300MM TRANSITION COUPLING, ***** (AC, PVC)	400	M3	STILLING BASINS
13	EA	RELOCATE EXISTING WATER METER	18.5	HA	SEEDING & MULCHING
7	EA	RELOCATE EXISTING FIRE HYDRANT	10	HA	MOWING
134.1	M	***MM PVC SEWER PIPE, SDR 35 (250MM, SDR 35)	225	KG	SEED FOR REPAIR SEEDING
38.4	M	200MM PVC SEWER PIPE, SDR 35	0.75	MTN	FERTILIZER FOR REPAIR SEEDING
194.9	M	***MM DI SEWER PIPE, CLASS *** (200MM, CI 51)	500	KG	SEED FOR SUPPLEMENTAL SEEDING
383.4	M	***MM DI SEWER PIPE, CLASS *** (200MM, CI50)	29	MTN	FERTILIZER TOPDRESSING
407.2	M	***MM DI SEWER PIPE, CLASS *** (250MM, CI 50)	55	M	IMPERVIOUS DIKE
69.7	M	***MM DI SEWER PIPE, CLASS *** (400MM, CI 52)	14	HR	SPECIALIZED HAND MOWING
27	EA	*****MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1200MM)	16	EA	RESPONSE FOR EROSION CONTROL
3	EA	*****MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1500MM)	2,655	M	SIGNAL CABLE
38.95	M	PRECAST CONC MANHOLE WALL, *****MM DIA, OVER 1.8M HT (1200MM)	48	EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)
5.83	M	PRECAST CONC MANHOLE WALL, *****MM DIA, OVER 1.8M HT (1500MM)	21	EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)
3.38	M	SEWER MANHOLE OUTSIDE DROP ASSEMBLY	2,815	M	MESSENGER CABLE (6.35MM)
413.5	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (200MM, PVC SEWER)	1,194	M	MESSENGER CABLE (9.52MM)
412.2	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (200MM, PVC WATER)	335	M	TRACER WIRE
306.5	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (250MM, PVC SEWER)	25	M	TRENCHING (PAVED)
75.2	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (350MM, PVC SEWER)	1,645	M	TRENCHING (UNPAVED)
385.8	M	FILL OR REMOVE ABANDONED 300MM PIPE, ***** (AC WATER)	135	M	DIRECTIONAL DRILL POLYETHYLENE CONDUIT, 31.75MM (** CONDUIT) (1)
10	EA	BREAK DOWN, PLUG, & FILL ABANDONED UTILITY MANHOLE	33	EA	JUNCTION BOX (STANDARD SIZE)
2	EA	BREAK DOWN & REBUILD EXISTING MANHOLE	7	EA	JUNCTION BOX (OVER-SIZED)
35	M	***MM STEEL ENCASEMENT PIPE, *****MM THICK, BY OPEN CUT (600MM, 6.35MM)	32	EA	WOOD POLE
35	M	***MM STEEL ENCASEMENT PIPE, *****MM THICK, BY OPEN CUT (750MM, 7.92MM)	21	EA	GUY ASSEMBLY
12	M	450MM STEEL ENCASEMENT PIPE, *****MM THICK, BY BORING & JACKING (6.35MM)	2	EA	25MM RISER WITH WEATHERHEAD
1	EA	GENERIC UTILITY ITEM 1200MM FALSE BOTTOM MANHOLE WITH VENT 0-2M DEPTH	8	EA	50MM RISER WITH WEATHERHEAD
1	EA	GENERIC UTILITY ITEM RELOCATE 150MM BACKFLOW PREVENTER ASSEMBLY & PRECAST VAULT	6	EA	50MM RISER WITH HEAT SHRINK TUBING
640	M	TEMPORARY SILT FENCE	2,659	M	INDUCTIVE LOOP SAWCUT
325	MTN	STONE FOR EROSION CONTROL, CLASS A	5,360	M	LEAD-IN CABLE
3,650	MTN	STONE FOR EROSION CONTROL, CLASS B	1	EA	LOOP EMULATOR DETECTION SYSTEM
1,520	MTN	SEDIMENT CONTROL STONE	3,805	M	COMMUNICATIONS CABLE (**FIBER) (12)
			5	EA	INTERCONNECT CENTER
			4	EA	FIBER-OPTIC TRANSCEIVER
			7	EA	DELINEATOR MARKER
			1	EA	FURNISH FIBER-OPTIC TRANSCEIVER
			16	EA	METAL STRAIN SIGNAL POLE
			16	EA	METAL SIGNAL POLE FOUNDATION
			9	EA	SIGN FOR SIGNALS
			4	EA	SIGNAL CABINET FOUNDATION
			4	EA	CONTROLLER WITH CABINET (TYPE 170E, BASE MOUNTED)
			37	EA	DETECTOR CHANNEL (TYPE 170)
			5	EA	GENERIC SIGNAL ITEM CABINET BASE ADAPTER
			15	EA	GENERIC SIGNAL ITEM RECEIVER / DETECTOR
			4	EA	GENERIC SIGNAL ITEM SIGNAL PROCESSOR MODULE
			Lump Sum	LS	CULVERT EXCAVATION, STA ***** (10+35.500 -Y8A-)
			Lump Sum	LS	CULVERT EXCAVATION, STA ***** (45+70.500 -L-)
			365	MTN	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT
			545.8	M3	CLASS A CONCRETE (CULVERT)
			42,427	KG	REINFORCING STEEL (CULVERT)

**CULVERT ITEMS**

**WALL ITEMS**

Lump Sum LS GENERIC RETAINING WALL ITEM  
PERMANENT ANCHOR TIEBACK RE-  
TAINING WALL AT STA 42+55.963-  
L-

**STRUCTURE ITEMS**

8 M \*\*\*\*\*MM DIA DRILLED PIERS IN  
SOIL  
(1220MM)

19.5 M \*\*\*\*\*MM DIA DRILLED PIERS IN  
SOIL  
(1829MM)

8 M \*\*\*\*\*MM DIA DRILLED PIERS NOT  
IN SOIL  
(1220MM)

12 M \*\*\*\*\*MM DIA DRILLED PIERS NOT  
IN SOIL  
(1829MM)

2 EA CROSSHOLE SONIC LOGGING

273.8 M CSL TUBES

1,145.6 M2 REINFORCED CONCRETE DECK SLAB

407 M2 GROOVING BRIDGE FLOORS

254.3 M3 CLASS AA CONCRETE (BRIDGE)

62 M3 CLASS A CONCRETE (BRIDGE)

Lump Sum LS BRIDGE APPROACH SLABS, STATION  
\*\*\*\*\*  
(42+55.963 -L-)

62,364 KG REINFORCING STEEL (BRIDGE)

3,829 KG SPIRAL COLUMN REINFORCING  
STEEL (BRIDGE)

185.624 M 1372MM PRESTRESSED CONCRETE  
GIRDERS

543,860 LS APPROX ..... KG STRUCTURAL  
STEEL

Lump Sum LS PAINTING STRUCTURAL STEEL, STA  
\*\*\*\*\*  
(42+30.172 -L-)

994 M HP310X79 STEEL PILES

86 M2 METHOD A WATERPROOFING

256 M2 METHOD D DAMPPROOFING

94.062 M CONCRETE BARRIER RAIL

496 M2 100MM SLOPE PROTECTION

Lump Sum LS SELF-LUBRICATING EXPANSION  
BEARING ASSEMBLIES

Lump Sum LS ELASTOMERIC BEARINGS

Lump Sum LS EVAZOTE JOINT SEALS

Lump Sum LS STRUCTURE DRAINAGE SYSTEM, STA  
\*\*\*\*\*  
(13+83.216 -Y6-)

Lump Sum LS GENERIC STRUCTURE ITEM  
CONDUIT IN PARAPET AT STA  
13+83.216 -Y6-

140.5 M GENERIC STRUCTURE ITEM  
METAL HANDRAIL (ALUM)