




STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

March 18, 2003

MEMORANDUM TO: Electronic Bidders

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

SUBJECT: Upgrade to Expedite 5.1a

Please be advised that effective with the March 18th, 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/

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

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

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 JUNE 17, 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 MAY 20, 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.

DIV NO. DIVISION ENGINEER**LOCATION****TOWN****TELEPHONE**

00001	D. R. Conner	113 AIRPORT DRIVE	EDENTON	(252) 482-7977
00002	C. E. Lassiter, Jr.	105 PACTOLUS ROAD	GREENVILLE	(252) 830-3490
-00003	H. A. Pope	124 DIVISION DRIVE	WILMINGTON	(910) 251-5724
00004	J. H. Trogdon, III	509 WARD BOULEVARD	WILSON	(252) 237-6164
00005	J. G. Nance	2612 NORTH DUKE STREET	DURHAM	(919) 560-6851
00006	T. R. Gibson	558 GILLESPIE STREET	FAYETTEVILLE	(910) 486-1493
00007	J. M. Mills	1534 YANCEYVILLE STREET	GREENSBORO	(336) 334-3192
00008	W. F. Rosser	902 N. SANDHILLS BOULEVARD	ABERDEEN	(910) 944-2344
00009	S. P. Ivey	2125 CLOVERDALE AVENUE	WINSTON-SALEM	(336) 631-1340
00010	B. G. Payne	716 WEST MAIN STREET	ABLEMARLE	(704) 982-0101
00011	R. C. McCann	NC-115 WEST	NORTH WILKESBORO	(336) 667-9111
00012	M. L. Holder	1710 EAST MARION STREET	SHELBY	(704) 480-5400
00013	J. J. Swain	55 ORANGE STREET	ASHEVILLE	(828) 251-6171
00014	R. G. Watson	253 WEBSTER ROAD	SYLVA	(828) 586-2141

SUMMARY OF PROPOSALS

Bid Letting Number L030617

RPN	Contract Id	WBS	County	Length	JobType
004	C200731	34456.3.17	WASHINGTON	17.490 KM	PAVING, GUARDRAIL, GUIDERAIL & SIGNING.
005	C200561	34452.3.4	CRAVEN, PAMLICO	4.617 KM	WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURES.
006	C200717	32875.3.2	BRUNSWICK	0.238 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
007	C200727	32700.3.2	GRANVILLE, VANCE	0.143 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
008	C200732	34631.3.2	COLUMBUS	16.204 MI	WIDENING, RESURFACING, SAFETY IMPROVEMENTS & CULVERTS.
009	C200724	33275.3.1	CHATHAM	0.261 MI	GRADING, DRAINAGE, PAVING & STRUCTURE.
010	C200728	34431.3.3	LEE	2.163 KM	WIDENING, GRADING, DRAINAGE, PAVING NOISE WALL & STR.

Bid Letting Number L030715

RPN	Contract Id	WBS	County	Length	JobType
* 001	C200526	34154.3.14	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.

* THE NOTED PROJECTS ARE IN THE JUL 15 2003 LETTING WITH AN EIGHT WEEK ADVERTISEMENT. BECAUSE OF THE MAGNITUDE OF THESE PROJECTS, PRICES ARE AS FOLLOWS: Plans (SMALL SIZE) \$60.00 per set, Plans (LARGE SIZE) \$200.00 per set, plus sales tax for N.C. residents.

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L030617 004

CONTRACT ID : C200731 34456.3.17

DIV OFFICE EDENTON

LENGTH = 17.490 KM

COUNTY : WASHINGTON

PAVING, GUARDRAIL, GUIDERAIL & SIGNING.

MBE GOAL 8.0% WBE 4.0% COMPLETION DATE : SEP 01 2005

US-64 FROM WEST OF SR-1126 SOUTHEAST OF ROPER TO EAST OF SR-1304 WEST OF CRESWELL.

ROADWAY ITEMS

			500	M	TEMPORARY SILT FENCE
			415	MTN	STONE FOR EROSION CONTROL, CLASS A
			1,000	MTN	STONE FOR EROSION CONTROL, CLASS B
Lump Sum	LS	MOBILIZATION	1,000	MTN	SEDIMENT CONTROL STONE
Lump Sum	LS	CONSTRUCTION SURVEYING	32	HA	TEMPORARY MULCHING
Lump Sum	LS	GENERIC MISCELLANEOUS ITEM FINE GRADING	1,225	KG	SEED FOR TEMPORARY SEEDING
42,800	M3	BORROW EXCAVATION	9.75	MTN	FERTILIZER FOR TEMPORARY SEEDING
5,500	MTN	STABILIZER AGGREGATE	150	M	TEMPORARY SLOPE DRAINS
155,100	MTN	AGGREGATE BASE COURSE	10	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
67,400	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	2,000	M3	SILT EXCAVATION
44,000	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	1,000	M2	SYNTHETIC ROVING
6,028	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	1,000	M2	MATTING FOR EROSION CONTROL
56,500	M	MILLED RUMBLE STRIPS	200	M	6.4MM HARDWARE CLOTH
127	MTN	GENERIC PAVING ITEM #57 STONE FOR MEDIAN CROSSOVER	29	HA	SEEDING & MULCHING
18	MTN	GENERIC PAVING ITEM SAND FOR PAVING BLOCKS FOR MEDIAN CROSSOVER	18	HA	MOWING
940	EA	GENERIC PAVING ITEM PAVING BLOCKS FOR MEDIAN CROSSOVER	400	KG	SEED FOR REPAIR SEEDING
25	EA	FRAME WITH TWO GRATES, STD 840.***** (840.20)	1.5	MTN	FERTILIZER FOR REPAIR SEEDING
1,790	M	SHOULDER BERM GUTTER	825	KG	SEED FOR SUPPLEMENTAL SEEDING
1	EA	MODIFIED CONCRETE FLUME	48.5	MTN	FERTILIZER TOPDRESSING
25	EA	ADJUSTMENT OF DROP INLETS	140	HR	SPECIALIZED HAND MOWING
2,564.13	M	STEEL BM GUARDRAIL	8	EA	RESPONSE FOR EROSION CONTROL
10	EA	ADDITIONAL GUARDRAIL POSTS	2.6	HA	GENERIC EROSION CONTROL ITEM SPECIALIZED SEEDING UNDER GUARDRAIL & GUIDERAIL (CENTIPEDE)
33	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (B-83)			
13	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1			
13	EA	GUARDRAIL ANCHOR UNITS, TYPE 350			
11	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350			
14,000	M	DOUBLE FACED CABLE GUIDERAIL			
58	EA	CABLE GUIDERAIL ANCHOR UNITS			
800	M2	FILTER FABRIC FOR DRAINAGE			
10	M3	REINFORCED CONCRETE SIGN FOOTINGS			
2	M3	PLAIN CONCRETE SIGN FOOTINGS			
4,981	KG	SUPPORTS, BREAKAWAY STEEL BEAM			
259	KG	SUPPORTS, SIMPLE STEEL BEAM			
291	M	SUPPORTS, 4.5KG STEEL U-CHANNEL			
22	EA	SUPPORTS, 3KG STEEL U-CHANNEL			
333	M	SUPPORTS, WOOD			
16	EA	SIGN ERECTION, TYPE D			
56	EA	SIGN ERECTION, TYPE E			
27	EA	SIGN ERECTION, TYPE F			
9	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)			
16	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)			
22	EA	SIGN ERECTION, MILEMARKERS			
26	M2	WORK ZONE SIGNS (PORTABLE)			
30	EA	DRUMS			
63,681	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)			
6,725	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)			
1,013	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)			
12	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)			
1,514	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (100MM)			
1,514	M	CURING COMPOUND REMOVAL, LINES			
1,745	EA	PERMANENT RAISED PAVEMENT MARKERS			

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030617 005

CONTRACT ID : C200561

DIV OFFICE GREENVILLE

LENGTH = 4.617 KM

COUNTY : CRAVEN, PAMLICO

WIDENING, GRADING, DRAINAGE, PAVING & STRUCTURES.

DBE GOAL 10.0% COMPLETION DATE : DEC 31 2006

NC-55 FROM WEST OF SR-1600 IN CRAVEN COUNTY TO EAST OF SR-1127 IN PAMLICO COUNTY.

ROADWAY ITEMS					
			500	M	150MM PERFORATED SUBDRAIN PIPE
			50	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS
			4	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
			8	M	150MM OUTLET PIPE (SUBDRAINS)
Lump Sum	LS	MOBILIZATION	10.2	M3	ENDWALLS
38	MO	GENERIC MISCELLANEOUS ITEM FIELD OFFICE	9.1	M3	REINFORCED ENDWALLS
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)	5.64	M3	PIPE COLLARS
1.2	HA	SUPPLEMENTARY CLEARING & GRUBBING	0.2	M3	PIPE PLUGS
40,000	M3	UNCLASSIFIED EXCAVATION	4	EA	MASONRY DRAINAGE STRUCTURES
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (41+45.000)	4	EA	FRAME WITH TWO GRATES, STD 840.***** (840.29)
35,000	M3	UNDERCUT EXCAVATION	120	M	*** X ***MM CONCRETE CURB (200M X 450MM)
32,000	M3	BORROW EXCAVATION	46	M	SHOULDER BERM GUTTER
292	M3	DRAINAGE DITCH EXCAVATION	85	M2	150MM CONCRETE DRIVEWAY
1,610	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT	70	M2	125MM MONOLITHIC CONCRETE ISLANDS (KEYED IN)
250	M2	REMOVAL OF EXISTING CONCRETE PAVEMENT	483.91	M	STEEL BM GUARDRAIL
1,140	M2	BREAKING OF EXISTING CONCRETE PAVEMENT	5	EA	ADDITIONAL GUARDRAIL POSTS
17	HR	PROOF ROLLING	2	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
60,000	M3	SELECT GRANULAR MATERIAL	4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
2,500	M2	FABRIC FOR SOIL STABILIZATION	2	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
800	M2	TEMPORARY SHORING - BARRIER SUPPORTED	142	MTN	PLAIN RIP RAP, CLASS B
236	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	934	M2	FILTER FABRIC FOR DRAINAGE
194.1	M	****MM SIDE DRAIN PIPE (375MM)	5	M3	REINFORCED CONCRETE SIGN FOOTINGS
67.2	M	****MM SIDE DRAIN PIPE (450MM)	1	M3	PLAIN CONCRETE SIGN FOOTINGS
9.6	M	****MM SIDE DRAIN PIPE (600MM)	2,102	KG	SUPPORTS, BREAKAWAY STEEL BEAM
36	M	375MM RC PIPE CULVERTS, CLASS III	481	M	SUPPORTS, WOOD
142.8	M	450MM RC PIPE CULVERTS, CLASS III	5	EA	SIGN ERECTION, TYPE D
56.4	M	600MM RC PIPE CULVERTS, CLASS III	36	EA	SIGN ERECTION, TYPE E
157.2	M	750MM RC PIPE CULVERTS, CLASS III	16	EA	SIGN ERECTION, TYPE F
68.4	M	1050MM RC PIPE CULVERTS, CLASS III	3	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)
22.8	M	1350MM RC PIPE CULVERTS, CLASS III	4	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)
2	EA	***MM PIPE END SECTION (375MM)	2	EA	RELOCATE SIGN, TYPE ***** (B)
415.3	M	PIPE REMOVAL	5	EA	RELOCATE SIGN, TYPE ***** (D)
Lump Sum	LS	FINE GRADING	2	EA	RELOCATE SIGN, TYPE ***** (E)
500	KG	SEALING EXISTING PAVEMENT CRACKS	7	EA	DISPOSAL OF SUPPORT, WOOD
33,774	MTN	AGGREGATE BASE COURSE	15	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
1,000	MTN	INCIDENTAL STONE BASE	41	EA	DISPOSAL OF SIGN SYSTEM, WOOD
109,791	L	PRIME COAT	1	EA	DISPOSAL OF SUPPORT, U-CHANNEL
500	M2	MILLING ASPHALT PAVEMENT, **MM DEPTH (50MM)	25	M2	WORK ZONE SIGNS (STATIONARY)
1,131	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B	30	M2	WORK ZONE SIGNS (PORTABLE)
2,073	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C	5	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)
131	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	2	EA	FLASHING ARROW PANELS, TYPE C
12,418	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	6	EA	WARNING FLAG SETS
928	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	450	EA	DRUMS
15,123	MTN	ASPHALT CONC SURFACE COURSE, TYPE S12.5C	50	EA	CONES
788	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	70	M	BARRICADES (TYPE III)
832	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	1,540	MD	FLAGGER
500	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR	4	EA	WARNING LIGHTS (TYPE B)
414	M3	SUBDRAIN EXCAVATION	2	EA	TEMPORARY CRASH CUSHIONS
207	M3	SUBDRAIN FINE AGGREGATE	2	EA	RESET TEMPORARY CRASH CUSHIONS
			2	EA	TRUCK MOUNTED IMPACT ATTENUATOR (45 MPH)
			400	M	PORTABLE CONCRETE BARRIER
			85	M	PORTABLE CONCRETE BARRIER (ANCHORED)
			250	M	RESET PORTABLE CONCRETE BARRIER
			2,125	M	REMOVABLE TAPE PAVEMENT MARKING LINES (100MM)
			10	EA	REMOVABLE TAPE PAVEMENT MARKING SYMBOL

			0.1	HA	SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (CENTIPEDE)	
			5	HR	SPECIALIZED HAND MOWING	
			24	EA	RESPONSE FOR EROSION CONTROL	
			0.72	HA	REFORESTATION	
1,000	EA	TEMPORARY RAISED PAVEMENT MARKERS	560	M	SIGNAL CABLE	
11,000	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)	10	EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)	
15,100	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)	2	EA	VEHICLE SIGNAL HEAD (300MM, 4 SECTION)	
200	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)	2	EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)	
100	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)	150	M	MESSENGER CABLE (9.52MM)	
160	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)	385	M	TRENCHING (UNPAVED)	
54,077	M	PAINT PAVEMENT MARKING LINES (100MM)	7	EA	JUNCTION BOX (STANDARD SIZE)	
			4	EA	WOOD POLE	
100	M	PAINT PAVEMENT MARKING LINES (600MM)	8	EA	GUY ASSEMBLY	
10	EA	PAINT PAVEMENT MARKING SYMBOL	1	EA	25MM RISER WITH WEATHERHEAD	
2,500	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)	4	EA	50MM RISER WITH WEATHERHEAD	
800	EA	PERMANENT RAISED PAVEMENT MARKERS	510	M	INDUCTIVE LOOP SAWCUT	
4	EA	2.1M U-CHANNEL POSTS	1,000	M	LEAD-IN CABLE	
4	EA	OBJECT MARKERS (TYPE **) (TYPE 3)	1	EA	SIGNAL CABINET FOUNDATION	
757	MTN	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (VI)	1	EA	CABINET BASE ADAPTER	
757	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (VI)	1	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)	
18.8	MTN	PAVEMENT REPAIR FOR UTILITY WORK	23	EA	DETECTOR CHANNEL (TYPE 2070L)	
12	M	***MM PVC WATER PIPE, SDR **** (75MM, 21, 1.38MPA WP)	2	EA	GENERIC SIGNAL ITEM LUMINAIRE ARM FOR VIDEO IMAGING LOOP EMULATOR DETECTION SYSTEM	
276	M	150MM PVC WATER PIPE, SDR 21, 1.38MPA WP	3	EA	GENERIC SIGNAL ITEM RELOCATE CAMERA SENSOR UNIT	
1,045.7	M	200MM PVC WATER PIPE, SDR 21, 1.38MPA WP	1	EA	GENERIC SIGNAL ITEM SITE SURVEY	
1,070	M	250MM PVC WATER PIPE, SDR 21, 1.38MPA WP			***** BEGIN SCHEDULE HA ***** ***** (2 ALTERNATES) *****	
12,405.302	KG	DUCTILE IRON WATER PIPE FITTINGS, 1.72MPA MIN WP	4	EA	GENERIC SIGNAL ITEM CAMERA WITH INTERNAL LOOP EMULATOR PROCESSING UNIT	
241.1	M	20MM PE WATER TUBING, SDR 9, ****MPA WP (1.38MPA WP)			*** OR ***	
12	EA	20MM CORPORATION STOP	4	EA	GENERIC SIGNAL ITEM CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT	
1	EA	***MM GATE VALVE & VALVE BOX, ****MPA WP (75MM, 1.38MPA WP)	1	EA	GENERIC SIGNAL ITEM EXTERNAL LOOP EMULATOR PROCESSING UNIT	
8	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP			*** END SCHEDULE HA ***	
3	EA	200MM GATE VALVE & VALVE BOX, ****MPA WP (1.38MPA WP)			STRUCTURE ITEMS	
4	EA	250MM GATE VALVE & VALVE BOX, ****MPA WP (1.38MPA WP)	Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (41+45.000-L-REV)	
2	EA	*** X ***MM TAPPING SADDLE (150MM X 20MM)	Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (41+45.000-L- REV)	
2	EA	*** X ***MM TAPPING SADDLE (200MM X 20MM)	4,633.9	M2	REINFORCED CONCRETE DECK SLAB	
8	EA	*** X ***MM TAPPING SADDLE (250MM X 20MM)	4,238	M2	GROOVING BRIDGE FLOORS	
9	EA	RELOCATE EXISTING WATER METER	514.9	M3	CLASS AA CONCRETE (BRIDGE)	
2	EA	FIRE HYDRANT, ****MPA WP (1.38MPA WP)	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (41+45.000-L-REV)	
2	EA	RELOCATE EXISTING FIRE HYDRANT	46,651	KG	EPOXY COATED REINFORCING STEEL (BRIDGE)	
1,600	M	TEMPORARY SILT FENCE	2,171	M	1143MM PRESTRESSED CONCRETE GIRDERS	
520	MTN	STONE FOR EROSION CONTROL, CLASS A	1,280.5	M	406MM PRESTRESSED CONC PILES	
3,510	MTN	STONE FOR EROSION CONTROL, CLASS B	214.5	M	508MM PRESTRESSED CONC PILES	
1,000	MTN	SEDIMENT CONTROL STONE	463	M	HP310X79 STEEL PILES	
15.5	HA	TEMPORARY MULCHING	26	EA	STEEL PILE TIPS	
675	KG	SEED FOR TEMPORARY SEEDING	Lump Sum	LS	GALVANIZING STEEL PILES AT STA ***** (41+45.000-L-REV)	
5.5	MTN	FERTILIZER FOR TEMPORARY SEEDING	432.736	M	TWO BAR METAL RAIL	
90	M	TEMPORARY SLOPE DRAINS	438.044	M	*** X ****MPA CONCRETE PARAPET (355MM x 706MM)	
9	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS	407	MTN	PLAIN RIP RAP CLASS II (600MM THICK)	
10,550	M3	SILT EXCAVATION	415	M2	FILTER FABRIC FOR DRAINAGE	
4,700	M2	SYNTHETIC ROVING	Lump Sum	LS	ELASTOMERIC BEARINGS	
3,200	M2	MATTING FOR EROSION CONTROL	Lump Sum	LS	EVAZOTE JOINT SEALS	
50	M	6.4MM HARDWARE CLOTH	2	EA	GENERIC STRUCTURE ITEM DYNAMIC LOAD TEST	
16	HA	SEEDING & MULCHING				
8.5	HA	MOWING				
200	KG	SEED FOR REPAIR SEEDING				
0.75	MTN	FERTILIZER FOR REPAIR SEEDING				
450	KG	SEED FOR SUPPLEMENTAL SEEDING				
27	MTN	FERTILIZER TOPDRESSING				

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030617 006

CONTRACT ID : C200717

DIV OFFICE WILMINGTON

LENGTH = 0.238 MI

COUNTY : BRUNSWICK

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 10.0% COMPLETION DATE : JUN 30 2004

BRIDGE OVER ALLEN CREEK AND APPROACHES ON NC-133.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (15+96.75)
Lump Sum	LS	GRADING
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING
500	CY	UNDERCUT EXCAVATION
2,500	CY	SELECT GRANULAR MATERIAL
1,500	SY	FABRIC FOR SOIL STABILIZATION
4	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
32	LF	15" RC PIPE CULVERTS, CLASS III
7.82	SMI	SHOULDER RECONSTRUCTION
250	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
270	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
7,050	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
490	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
1,000	TON	PATCHING EXISTING PAVEMENT
2	EA	MASONRY DRAINAGE STRUCTURES
2	EA	FRAME WITH TWO GRATES, STD 840.29
500	LF	SHOULDER BERM GUTTER
687.5	LF	STEEL BM GUARDRAIL
5	EA	ADDITIONAL GUARDRAIL POSTS
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
424	LF	REMOVE EXISTING GUARDRAIL
2	TON	PLAIN RIP RAP, CLASS B
1,240	SY	FILTER FABRIC FOR DRAINAGE
256	SF	WORK ZONE SIGNS (STATIONARY)
96	SF	WORK ZONE SIGNS (PORTABLE)
57	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
2	EA	WARNING FLAG SETS
250	EA	DRUMS
64	LF	BARRICADES (TYPE III)
80	HR	FLAGGER
2	EA	WARNING LIGHTS (TYPE B)
43,702	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
43,702	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
546	EA	PERMANENT RAISED PAVEMENT MARKERS
2,410	LF	TEMPORARY SILT FENCE
90	TON	STONE FOR EROSION CONTROL, CLASS A
345	TON	STONE FOR EROSION CONTROL, CLASS B
730	TON	SEDIMENT CONTROL STONE
10.5	ACR	TEMPORARY MULCHING
400	LB	SEED FOR TEMPORARY SEEDING
1.5	TON	FERTILIZER FOR TEMPORARY SEEDING
50	LF	TEMPORARY SLOPE DRAINS
2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
595	CY	SILT EXCAVATION
480	SY	SYNTHETIC ROVING
880	SY	MATting FOR EROSION CONTROL
40	LF	1/4" HARDWARE CLOTH
24	EA	SPECIAL STILLING BASINS
10	ACR	SEEDING & MULCHING
6.5	ACR	MOWING
100	LB	SEED FOR REPAIR SEEDING
0.25	TON	FERTILIZER FOR REPAIR SEEDING
0.25	TON	FERTILIZER FOR SUPPLEMENTAL SEEDING

7.5	TON	FERTILIZER TOPDRESSING
2	HR	SPECIALIZED HAND MOWING
12	EA	RESPONSE FOR EROSION CONTROL
0.1	ACR	SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (CENTIPEDE)
0.25	ACR	GENERIC EROSION CONTROL ITEM WETLAND GRASS PLANTING

STRUCTURE ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (16+02.25 -L-)
474.8	LF	***" DIA DRILLED PIERS IN SOIL (3'-0")
40	LF	***" DIA DRILLED PIERS NOT IN SOIL (3'-0")
388.6	LF	PERMANENT STEEL CASING FOR ***" DIA DRILLED PIER (3'-0")
2	EA	SID INSPECTION
12	EA	SPT TESTING
2	EA	CROSSHOLE SONIC LOGGING
2,179	LF	CSL TUBES
1,525	CY	UNCLASSIFIED STRUCTURE EXCAVATION
97	CY	CLASS AA CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (16+02.25 -L-)
54,164	LB	EPOXY COATED REINFORCING STEEL (BRIDGE)
9,447	LB	EPOXY COATED SPIRAL REINFORCING STEEL (BRIDGE)
675	LF	HP12X53 STEEL PILES
594.75	LF	CONCRETE BARRIER RAIL
271	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)
300	SY	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	ELASTOMERIC BEARINGS
3,859.38	LF	3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030617 007

CONTRACT ID : C200727

DIV OFFICE DURHAM

LENGTH = 0.143 MI

COUNTY : GRANVILLE, VANCE

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 9.0% COMPLETION DATE : SEE SPECIAL PROVISIONS

BRIDGE OVER ISLAND CREEK & APPROACHES ON SR-1350.

ROADWAY ITEMS

			Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (18+56.00 -L-)
				84	LF **1-*** DIA DRILLED PIERS IN SOIL (3'-6")
				26	LF **1-*** DIA DRILLED PIERS NOT IN SOIL (3'-6")
				70	LF PERMANENT STEEL CASING FOR **1-*** DIA DRILLED PIER (3'-6")
				1	EA CROSSHOLE SONIC LOGGING
				480	LF CSL TUBES
				658	CY UNCLASSIFIED STRUCTURE EXCAVATION
				74.6	CY CLASS A CONCRETE (BRIDGE)
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (18+56.00 -L-)
				20,583	LB REINFORCING STEEL (BRIDGE)
				3,454	LB SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
				385	LF HP12X53 STEEL PILES
				295	LF CONCRETE BARRIER RAIL
				1,077	TON PLAIN RIP RAP CLASS II (2'-0" THICK)
				1,196	SY FILTER FABRIC FOR DRAINAGE
			Lump Sum	LS	ELASTOMERIC BEARINGS
				1,622.5	LF 3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	GRADING			
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING			
300	CY	UNDERCUT EXCAVATION			
8	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS			
32	LF	15" RC PIPE CULVERTS, CLASS III			
40	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			
45	TON	INCIDENTAL STONE BASE			
240	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B			
235	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5A			
30	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22			
2	EA	MASONRY DRAINAGE STRUCTURES			
2	EA	FRAME WITH TWO GRATES, STD 840.29			
90	LF	SHOULDER BERM GUTTER			
762.5	LF	STEEL BM GUARDRAIL			
5	EA	ADDITIONAL GUARDRAIL POSTS			
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III			
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350			
2	TON	PLAIN RIP RAP, CLASS I			
531	SY	FILTER FABRIC FOR DRAINAGE			
224	SF	WORK ZONE SIGNS (STATIONARY)			
94	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)			
72	LF	BARRICADES (TYPE III)			
1,512	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)			
1,512	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)			
10	EA	PERMANENT RAISED PAVEMENT MARKERS			
1,350	LF	TEMPORARY SILT FENCE			
50	TON	STONE FOR EROSION CONTROL, CLASS A			
70	TON	STONE FOR EROSION CONTROL, CLASS B			
145	TON	SEDIMENT CONTROL STONE			
0.5	ACR	TEMPORARY MULCHING			
50	LB	SEED FOR TEMPORARY SEEDING			
0.25	TON	FERTILIZER FOR TEMPORARY SEEDING			
100	CY	SILT EXCAVATION			
300	SY	SYNTHETIC ROVING			
600	SY	MATting FOR EROSION CONTROL			
60	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			
2.5	HR	SPECIALIZED HAND MOWING			
8	EA	RESPONSE FOR EROSION CONTROL			

STRUCTURE ITEMS

Lump Sum	LS	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (18+56.00 -L-)
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STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L030617 008

CONTRACT ID : C200732

DIV OFFICE FAYETTEVILLE

LENGTH = 16.204 MI

COUNTY : COLUMBUS

WIDENING, RESURFACING, SAFETY IMPROVEMENTS & CULVERTS.

MBE GOAL 10.0% WBE 5.0% COMPLETION DATE : OCT 15 2004

NC-130 FROM US-701 TO THE BRUNSWICK COUNTY LINE.

ROADWAY ITEMS

			4,800	HR	FLAGGER	
			8	EA	TEMPORARY CRASH CUSHIONS	
			8	EA	RESET TEMPORARY CRASH CUSHIONS	
			1	EA	TRUCK MOUNTED IMPACT ATTENUATOR (60 MPH)	
Lump Sum	LS	MOBILIZATION				
Lump Sum	LS	CONSTRUCTION SURVEYING				
Lump Sum	LS	CLEARING & GRUBBING .. ACRE(S)	1,200	LF	PORTABLE CONCRETE BARRIER	
	1	ACR SUPPLEMENTARY CLEARING & GRUBBING	1,200	LF	RESET PORTABLE CONCRETE BARRIER	
	1,700	CY UNCLASSIFIED EXCAVATION	1,426	EA	TEMPORARY RAISED PAVEMENT MARKERS	
	1,000	CY UNDERCUT EXCAVATION	197,304	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	
	8,000	CY BORROW EXCAVATION	205,349	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	
	620	SY REMOVAL OF EXISTING ASPHALT PAVEMENT	451	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	
	220	SF TEMPORARY SHORING	88	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	
	136	TON FOUNDATION CONDITIONING MATERIAL, MINOR STRS	12	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120MIL)	
	172	LF 15" RC PIPE CULVERTS, CLASS III	23	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	
	824	LF 18" RC PIPE CULVERTS, CLASS III	721,714	LF	PAINT PAVEMENT MARKING LINES (4")	
	188	LF 24" RC PIPE CULVERTS, CLASS III	902	LF	PAINT PAVEMENT MARKING LINES (8")	
	92	LF 72" RC PIPE CULVERTS, CLASS III	176	LF	PAINT PAVEMENT MARKING LINES (24")	
	44	LF GENERIC PIPE ITEM 66" CAA PIPE LINER, 0.168" THICK	24	EA	PAINT PAVEMENT MARKING CHARACTER	
	575	LF PIPE REMOVAL	46	EA	PAINT PAVEMENT MARKING SYMBOL	
Lump Sum	LS	FINE GRADING	1,000	LF	REMOVAL OF PAVEMENT MARKING LINES (4")	
	300	TON INCIDENTAL STONE BASE	1,426	EA	PERMANENT RAISED PAVEMENT MARKERS	
	3.9	SMI SHOULDER RECONSTRUCTION	2	TON	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (VI)	
	20,360	TON ASPHALT CONC BASE COURSE, TYPE B25.0C	5	LF	*** DI WATER PIPE, CLASS ***** (3/4", SDR 21 200# WP)	
	2,100	TON ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	1,580	LF	TEMPORARY SILT FENCE	
	2,475	TON ASPHALT CONC SURFACE COURSE, TYPE S9.5B	1,000	TON	STONE FOR EROSION CONTROL, CLASS A	
	47,000	TON ASPHALT CONC SURFACE COURSE, TYPE S9.5C	2,640	TON	STONE FOR EROSION CONTROL, CLASS B	
	1,150	TON ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	1,120	TON	SEDIMENT CONTROL STONE	
	3,055	TON ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	102	ACR	TEMPORARY MULCHING	
	75	TON ASPHALT PLANT MIX, PAVEMENT REPAIR	3,650	LB	SEED FOR TEMPORARY SEEDING	
	7.1	CY ENDWALLS	14.75	TON	FERTILIZER FOR TEMPORARY SEEDING	
	4	CY PIPE COLLARS	50	LF	TEMPORARY SLOPE DRAINS	
	3	EA MASONRY DRAINAGE STRUCTURES	2	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS	
	2	EA FRAME WITH TWO GRATES, STD 840.16	7,060	CY	SILT EXCAVATION	
	1	EA FRAME WITH TWO GRATES, STD 840.24	4,000	SY	SYNTHETIC ROVING	
	1	EA FRAME WITH COVER, STD 840.54	4,000	SY	MATTING FOR EROSION CONTROL	
	164	LF ***X *** CONCRETE CURB (8" X 12")	40	LF	1/4" HARDWARE CLOTH	
	75	LF CONCRETE VALLEY GUTTER	70	LF	*** TEMPORARY PIPE (42")	
	2	SY 4" CONCRETE SIDEWALK	15	EA	SPECIAL STILLING BASINS	
	100	SY 6" CONCRETE DRIVEWAY	97.5	ACR	SEEDING & MULCHING	
	270	SY 5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	60.5	ACR	MOWING	
	1	EA ADJUSTMENT OF MANHOLES	900	LB	SEED FOR REPAIR SEEDING	
	5	EA ADJUSTMENT OF METER BOXES OR VALVE BOXES	2	TON	FERTILIZER FOR REPAIR SEEDING	
	2,662	LF STEEL BM GUARDRAIL	2,425	LB	SEED FOR SUPPLEMENTAL SEEDING	
	5	EA ADDITIONAL GUARDRAIL POSTS	73.25	TON	FERTILIZER TOPDRESSING	
	28	EA GUARDRAIL ANCHOR UNITS, TYPE 350	830	LF	IMPERVIOUS DIKE	
	1,750	TON PLAIN RIP RAP, CLASS B	16	EA	RESPONSE FOR EROSION CONTROL	
	3,289	SY FILTER FABRIC FOR DRAINAGE				
	785	SF WORK ZONE SIGNS (STATIONARY)				
	372	SF WORK ZONE SIGNS (PORTABLE)				
	110	SF WORK ZONE SIGNS (BARRICADE MOUNTED)				
	8	EA WARNING FLAG SETS				
	500	EA DRUMS	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (STA 700+99.90 -L-)	
	130	EA CONES	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (STA. 268+80.40 -L-)	
	108	LF BARRICADES (TYPE II)				
	204	LF BARRICADES (TYPE III)				

CULVERT ITEMS

Lump Sum	LS	CULVERT EXCAVATION, STA ***** (STA. 376+97.00 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (STA. 753+99.74 -L-)
169	TON	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT
202.4	CY	CLASS A CONCRETE (CULVERT)
27,793	LB	REINFORCING STEEL (CULVERT)
107	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)
120	SY	FILTER FABRIC FOR DRAINAGE

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030617 009

CONTRACT ID : C200724

DIV OFFICE ABERDEEN

LENGTH = 0.261 MI

COUNTY : CHATHAM

GRADING, DRAINAGE, PAVING & STRUCTURE.

DBE GOAL 10.0% COMPLETION DATE : DEC 31 2004

BRIDGE OVER LANDRUM CREEK & APPROACHES ON NC-902.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
Lump Sum	LS	CONSTRUCTION SURVEYING
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (17+31.50 -L-)
Lump Sum	LS	GRADING
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING
22	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
96	LF	15" SIDE DRAIN PIPE
68	LF	18" RC PIPE CULVERTS, CLASS III
40	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK
4	EA	15" BIT COAT CS PIPE ELBOWS, TYPE B 0.064" THICK
60	LF	PIPE REMOVAL
1,145	TON	AGGREGATE BASE COURSE
50	TON	INCIDENTAL STONE BASE
230	SY	INCIDENTAL MILLING
480	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
490	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
680	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5A
90	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
25	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR
2	EA	MASONRY DRAINAGE STRUCTURES
2	EA	FRAME WITH TWO GRATES, STD 840.29
125	LF	SHOULDER BERM GUTTER
650	LF	STEEL BM GUARDRAIL
5	EA	ADDITIONAL GUARDRAIL POSTS
4	EA	GUARDRAIL ANCHOR UNITS, TYPE III
4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
150	LF	REMOVE & STOCKPILE EXISTING GUARDRAIL
50	LF	TEMPORARY STEEL BM GUARDRAIL
2	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY
550	LF	WOVEN WIRE FENCE, *** FABRIC (48")
200	LF	ADDITIONAL BARBED WIRE
550	LF	TEMP *** WOVEN WIRE FENCE, COMPLETE W/POSTS (48")
45	EA	GENERIC FENCING ITEM 6" TIMBER FENCE POSTS, 8'-0" LONG
4	TON	PLAIN RIP RAP, CLASS I
90	TON	PLAIN RIP RAP, CLASS II
3	TON	PLAIN RIP RAP, CLASS B
630	SY	FILTER FABRIC FOR DRAINAGE
18.75	SF	CONTRACTOR FURNISHED, TYPE *** SIGN (E)
42	LF	SUPPORTS, 3-LB STEEL U-CHANNEL
3	EA	SIGN ERECTION, TYPE E
11	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
52	SF	WORK ZONE SIGNS (STATIONARY)
96	SF	WORK ZONE SIGNS (PORTABLE)
36	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
65	EA	DRUMS
65	EA	CONES
48	LF	BARRICADES (TYPE III)
120	MD	FLAGGER
2	EA	TEMPORARY CRASH CUSHIONS
200	LF	PORTABLE CONCRETE BARRIER

596	LF	REMOVABLE TAPE PAVEMENT MARKING LINES (4")
19	EA	TEMPORARY RAISED PAVEMENT MARKERS
2,462	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
2,462	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
596	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (4")
9,848	LF	PAINT PAVEMENT MARKING LINES (4")
19	EA	PERMANENT RAISED PAVEMENT MARKERS
855	LF	TEMPORARY SILT FENCE
75	TON	STONE FOR EROSION CONTROL, CLASS A
325	TON	STONE FOR EROSION CONTROL, CLASS B
255	TON	SEDIMENT CONTROL STONE
2	ACR	TEMPORARY MULCHING
100	LB	SEED FOR TEMPORARY SEEDING
0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
30	LF	TEMPORARY SLOPE DRAINS
1	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
305	CY	SILT EXCAVATION
525	SY	SYNTHETIC ROVING
950	SY	MATTING FOR EROSION CONTROL
20	SY	FLOATING TURBIDITY CURTAIN
8	EA	SPECIAL STILLING BASINS
2	ACR	SEEDING & MULCHING
1	ACR	MOWING
50	LB	SEED FOR REPAIR SEEDING
0.25	TON	FERTILIZER FOR REPAIR SEEDING
50	LB	SEED FOR SUPPLEMENTAL SEEDING
1.5	TON	FERTILIZER TOPDRESSING
2	HR	SPECIALIZED HAND MOWING
8	EA	RESPONSE FOR EROSION CONTROL
1	ACR	REFORESTATION

STRUCTURE ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (17+31.50 -L-)
26.1	LF	***.*** DIA DRILLED PIERS IN SOIL (3'-6")
29	LF	***.*** DIA DRILLED PIERS NOT IN SOIL (3'-6")
26	LF	PERMANENT STEEL CASING FOR ***.*** DIA DRILLED PIER (3'-6")
1	EA	CROSSHOLE SONIC LOGGING
233.9	LF	CSL TUBES
4,229	SF	REINFORCED CONCRETE DECK SLAB
3,541	SF	GROOVING BRIDGE FLOORS
95.2	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (17+31.50 -L-)
17,100	LB	REINFORCING STEEL (BRIDGE)
1,687	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
597.34	LF	36" PRESTRESSED CONCRETE GIR- DERS
120	LF	HP12X53 STEEL PILES
12	EA	STEEL PILE POINTS
227.86	LF	TWO BAR METAL RAIL
245.02	LF	1'-***X ***** CONCRETE PARA- PET (1'-2" x 2'-6")
838	TON	PLAIN RIP RAP CLASS II (2'-0" THICK)

932	SY	FILTER FABRIC FOR DRAINAGE
Lump Sum	LS	ELASTOMERIC BEARINGS
Lump Sum	LS	EVAZOTE JOINT SEALS

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L030617 010

CONTRACT ID : C200728 34431.3.3

DIV OFFICE ABERDEEN

LENGTH = 2.163 KM

COUNTY : LEE

WIDENING, GRADING, DRAINAGE, PAVING NOISE WALL & STR.

MBE GOAL 10.0% WBE 5.0% COMPLETION DATE : JUL 01 2007

US-421 & NC-87 (SANFORD BYPASS) FROM WEST OF US-1 & US-15/501 TO EAST OF US-1 & US-15/501.

ROADWAY ITEMS

			23	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
			4	EA	450MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
			12	EA	600MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
			2	EA	800MM BIT COAT CS PIPE ELBOWS, TYPE B 2.01MM THICK
			290.4	M	****MM WELDED STEEL PIPE, ****MM THICK, GRADE B, INSTALLED BY BORING & JACKING (1200MM, 16MM)
			234	M	GENERIC PIPE ITEM 150MM D/DRAINAGE PIPE, CLASS PC350
			1,348	M	PIPE REMOVAL
			380	M2	150MM SLOPE PROTECTION
			160	M2	GENERIC GRADING ITEM 100MM SLOPE PROTECTION
			Lump Sum	LS	FINE GRADING
			500	KG	SEALING EXISTING PAVEMENT CRACKS
			25,100	M2	LIME TREATED SOIL (SLURRY METHOD)
			280	MTN	LIME FOR LIME TREATED SOIL
			500	MTN	STABILIZER AGGREGATE
			119,000	MTN	AGGREGATE BASE COURSE
			25,100	M2	***MM SOIL CEMENT BASE (180MM)
			760	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE
			170	MTN	AGGREGATE FOR SOIL CEMENT BASE
			45,200	L	ASPHALT CURING SEAL
			1,000	MTN	INCIDENTAL STONE BASE
			10,050	L	PRIME COAT
			4,090	M2	MILLING ASPHALT PAVEMENT, **MM DEPTH (55MM)
			1,020	M2	MILLING ASPHALT PAVEMENT, **MM DEPTH (70MM)
			1,950	M2	MILLING ASPHALT PAVEMENT, *** TO ***MM DEPTH (0MM TO 55MM)
			4,500	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B
			14,700	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
			22,500	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
			26,000	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
			14,000	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
			32,000	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
			4,020	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
			2,100	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22
			500	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR
			24,500	M	MILLED RUMBLE STRIPS
			154	EA	RIGHT OF WAY MARKERS
			828	M3	SUBDRAIN EXCAVATION
			414	M3	SUBDRAIN FINE AGGREGATE
			1,150	M	150MM PERFORATED SUBDRAIN PIPE
			100	EA	150MM SUBDRAIN PIPE WYES, TEES, & ELBOWS
			7	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET
			189	M	150MM OUTLET PIPE (SUBDRAINS)
			1,707	M	SHOULDER DRAIN
			1,707	M	100MM SHOULDER DRAIN PIPE
			125	M	100MM OUTLET PIPE (SHOULDER DRAINS)
			4	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET
			275	MTN	BLOTTING SAND
			20.1	M3	ENDWALLS
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING			
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)			
2	HA	SUPPLEMENTARY CLEARING & GRUBBING			
7	EA	SEALING ABANDONED WELLS			
825,000	M3	UNCLASSIFIED EXCAVATION			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (10+01.503 -L2-)			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (76+23.509 -L- LT)			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (76+23.509 -L- RT)			
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (9+74.580 -L1-)			
1,800	M3	UNDERCUT EXCAVATION			
1,254,000	M3	BORROW EXCAVATION			
4,400	M3	DRAINAGE DITCH EXCAVATION			
425	M	BERM DITCH CONSTRUCTION			
39,100	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT			
5,300	M2	BREAKING OF EXISTING ASPHALT PAVEMENT			
10	HR	PROOF ROLLING			
1,000	M3	SELECT GRANULAR MATERIAL			
1,000	M2	FABRIC FOR SOIL STABILIZATION			
28	MTN	GENERIC GRADING ITEM BOULDERS			
1	EA	GENERIC GRADING ITEM END BENT STABILIZATION			
1,550	MTN	SELECT MATERIAL, CLASS II			
3,650	MTN	SELECT MATERIAL, CLASS III			
3,050	MTN	SELECT MATERIAL, CLASS IV			
2,800	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS			
116.4	M	375MM SIDE DRAIN PIPE			
2,286.8	M	375MM RC PIPE CULVERTS, CLASS III			
1,312.8	M	450MM RC PIPE CULVERTS, CLASS III			
1,611.6	M	600MM RC PIPE CULVERTS, CLASS III			
612	M	750MM RC PIPE CULVERTS, CLASS III			
158.4	M	900MM RC PIPE CULVERTS, CLASS III			
66	M	1050MM RC PIPE CULVERTS, CLASS III			
108	M	****MM RC PIPE CULVERTS, CLASS IV (1200MM)			
67.2	M	****MM RC PIPE CULVERTS, CLASS IV (450MM)			
409.2	M	****MM RC PIPE CULVERTS, CLASS IV (600MM)			
366	M	****MM RC PIPE CULVERTS, CLASS IV (750MM)			
67.2	M	****MM RC PIPE CULVERTS, CLASS IV (900MM)			
433.2	M	400MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK			
310.8	M	450MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK			
148.8	M	600MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK			
68.4	M	800MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK			
55.2	M	900MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK			

			29	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) "A"
8.77	M3	PIPE COLLARS			
0.5	M3	PIPE PLUGS	10	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) "B"
6	M3	FLOWABLE FILL			
173	EA	MASONRY DRAINAGE STRUCTURES	8	EA	SIGN ERECTION, MILEMARKERS
48.1	M3	MASONRY DRAINAGE STRUCTURES	3	EA	RELOCATE SIGN, TYPE ***** "A"
21	EA	FRAME WITH TWO GRATES, STD 840.***** (840.20)	2	EA	RELOCATE SIGN, TYPE ***** "D"
121	EA	FRAME WITH TWO GRATES, STD 840.22	1	EA	RELOCATE SIGN, TYPE ***** "E"
5	EA	FRAME WITH TWO GRATES, STD 840.29	22	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM
8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	132	EA	DISPOSAL OF SIGN SYSTEM, U- CHANNEL
9	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	2	EA	DISPOSAL OF SIGN SYSTEM, WOOD
2	EA	FRAME WITH COVER, STD 840.54	2	EA	DISPOSAL OF SIGN, A OR B (GROUND MOUNTED)
2,030	M	750MM CONCRETE CURB & GUTTER	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B-NBL"
650	M	SHOULDER BERM GUTTER	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B-SBL"
2	EA	MODIFIED CONCRETE FLUME			
1,060	M	CONCRETE EXPRESSWAY GUTTER	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "H"
75	M2	100MM CONCRETE PAVED DITCH			
395	M2	125MM MONOLITHIC CONCRETE IS- LANDS (KEYED IN)	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "I"
350	M2	75MM CORRUGATED CONCRETE IS- LANDS	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "J"
213.36	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "L"
18	EA	ADJUSTMENT OF DROP INLETS			
2	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX			
4,732.02	M	STEEL BM GUARDRAIL	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "A"
19.05	M	STEEL BM GUARDRAIL, SHOP CURVED	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "B"
106.68	M	STEEL BM GUARDRAIL, DOUBLE FACED	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "C"
4	EA	STEEL BM GUARDRAIL TERMINAL SECTIONS	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "D"
10	EA	ADDITIONAL GUARDRAIL POSTS	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "E"
8	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (B-77)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "F"
5	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** (III MOD)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "G"
1	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "H"
14	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "I"
16	EA	GUARDRAIL ANCHOR UNITS, TYPE III	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "J"
37	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "K"
4	EA	GUARDRAIL ANCHOR UNITS, TYPE M-350	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "L"
7,677.15	M	REMOVE & RESET EXISTING GUARD- RAIL	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "M"
2,282.19	M	REMOVE EXISTING GUARDRAIL	Lump Sum	LS	GENERIC SIGNING ITEM STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY "A"
1,900	M	DOUBLE FACED CABLE GUIDERAIL			
10	EA	CABLE GUIDERAIL ANCHOR UNITS	Lump Sum	LS	GENERIC SIGNING ITEM STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY "C"
9,300	M	WOVEN WIRE FENCE, 1200MM FAB- RIC			
1,930	EA	100MM TIMBER FENCE POSTS, 2.30M LONG	Lump Sum	LS	GENERIC SIGNING ITEM STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY "D"
460	EA	125MM TIMBER FENCE POSTS, 2.50M LONG	Lump Sum	LS	GENERIC SIGNING ITEM STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY "E"
200	M	ADDITIONAL BARBED WIRE			
106.68	M	GENERIC FENCING ITEM VINYL COATED CL FENCE, 1219MM FABRIC W/ 12.7MM MESH (GUARD- RAIL MTD)	Lump Sum	LS	GENERIC SIGNING ITEM STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY "F"
500	M2	PLAIN RIP RAP, CLASS I	Lump Sum	LS	GENERIC SIGNING ITEM STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY "G"
2	MTN	PLAIN RIP RAP, CLASS A			
1,200	MTN	PLAIN RIP RAP, CLASS B			
7,985	M2	FILTER FABRIC FOR DRAINAGE	Lump Sum	LS	GENERIC SIGNING ITEM STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY "K"
1,486.8	M2	NOISE BARRIER WALL			
19	M3	REINFORCED CONCRETE SIGN FOOT- INGS	Lump Sum	LS	GENERIC SIGNING ITEM STATIC LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLY "M"
3	M3	PLAIN CONCRETE SIGN FOOTINGS			
8,527	KG	SUPPORTS, BREAKAWAY STEEL BEAM	220	M2	WORK ZONE SIGNS (STATIONARY)
2,134	KG	SUPPORTS, SIMPLE STEEL BEAM	135	M2	WORK ZONE SIGNS (PORTABLE)
728	M	SUPPORTS, 4.5KG STEEL U-CHANNEL	21	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)
8	EA	SUPPORTS, 3KG STEEL U-CHANNEL	2	EA	FLASHING ARROW PANELS, TYPE C
16	EA	SIGN ERECTION, TYPE D	2	EA	CHANGEABLE MESSAGE SIGNS
55	EA	SIGN ERECTION, TYPE E	14	EA	WARNING FLAG SETS
16	EA	SIGN ERECTION, TYPE F	725	EA	DRUMS
			200	EA	CONES

				1	EA	*** X ***MM TAPPING SADDLE (300MM x 20MM)
				1	EA	50MM BLOW OFF ASSEMBLY
190	M	BARRICADES (TYPE III)		2	EA	150MM TRANSITION COUPLING, ***** (AC, PVC)
500	MD	FLAGGER		3	EA	300MM TRANSITION COUPLING, ***** (AC, PVC)
6	EA	WARNING LIGHTS (TYPE B)		6	EA	RELOCATE EXISTING WATER METER
3	EA	TEMPORARY CRASH CUSHIONS		6	EA	RELOCATE EXISTING FIRE HYDRANT
13	EA	RESET TEMPORARY CRASH CUSHIONS		117.8	M	***MM DI SEWER PIPE, CLASS *** (450MM, CLASS 52)
2	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (60 MPH)		162.2	M	200MM DI SEWER PIPE, PC 2.41MPA
2,495	M	PORTABLE CONCRETE BARRIER		306	M	300MM DI SEWER PIPE, PC 2.41MPA
1,247	M	PORTABLE CONCRETE BARRIER (DRAINAGE)		8	EA	***MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1200MM)
6,256	M	RESET PORTABLE CONCRETE BAR- RIER		3	EA	***MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1500MM)
144	EA	TUBULAR MARKERS (FIXED)		8.9	M	PRECAST CONC MANHOLE WALL, ***MM DIA, OVER 1.8M HT (1200MM)
1,309	M	REMOVABLE TAPE PAVEMENT MARK- ING LINES (100MM)		0.5	M	PRECAST CONC MANHOLE WALL, ***MM DIA, OVER 1.8M HT (1500MM)
2	EA	REMOVABLE TAPE PAVEMENT MARK- ING CHARACTER		0.79	M	SEWER MANHOLE OUTSIDE DROP AS- SEMBLY
1,237	EA	TEMPORARY RAISED PAVEMENT MARKERS		1,026.2	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (150MM, AC WATER PIPE)
35,549	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)		109.5	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (200MM, AC WATER PIPE)
14,451	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)		314.5	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (300MM SEWER PIPE, TYPE UNKOWN)
3,480	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)		314.5	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (300MM, PVC)
81	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)		36	M	FILL OR REMOVE ABANDONED ***MM PIPE, ***** (450MM, PVC)
12	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)		842.4	M	FILL OR REMOVE ABANDONED 300MM PIPE, ***** (300MM, AC WATER PIPE)
56	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)		7	EA	BREAK DOWN, PLUG, & FILL ABAN- DONED UTILITY MANHOLE
1,345	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (100MM)		56.2	M	***MM STEEL ENCASEMENT PIPE, ***MM THICK, BY OPEN CUT (600MM, 6.35MM THICK)
101	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (200MM)		97	M	***MM STEEL ENCASEMENT PIPE, ***MM THICK, BY OPEN CUT (750MM, 7.92MM THICK)
4	EA	COLD APPLIED PLASTIC PAVEMENT MARKING CHARACTER		50	M	600MM STEEL ENCASEMENT PIPE, ***MM THICK, BY BORING & JACKING (600MM, 6.35MM THICK)
2	EA	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL		2	EA	GENERIC UTILITY ITEM REMOVE & STOCK PILE EXIST FIRE HYDRANT
91,914	M	PAINT PAVEMENT MARKING LINES (100MM)		32	M	GENERIC UTILITY ITEM 1.2M X 20MM THICK STEEL PLATE PROTECTOR
4,852	M	PAINT PAVEMENT MARKING LINES (200MM)		42	M	GENERIC UTILITY ITEM 300MM DI RIGID RJ SEWER PIPE, PC 2.41 MPA
114	M	PAINT PAVEMENT MARKING LINES (600MM)		10.2	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 300MM WATER PIPE IN SOIL
8	EA	PAINT PAVEMENT MARKING CHARAC- TER		10.2	M	GENERIC UTILITY ITEM TRENCHLESS INSTALLATION OF 300MM WATER PIPE NOT IN SOIL
84	EA	PAINT PAVEMENT MARKING SYMBOL		5	M3	GENERIC UTILITY ITEM CLASS A CONCRETE FOR PIER
6,900	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)		7,710	M	TEMPORARY SILT FENCE
3	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS		1,440	MTN	STONE FOR EROSION CONTROL, CLASS A
1,889	EA	PERMANENT RAISED PAVEMENT MARKERS		19,555	MTN	STONE FOR EROSION CONTROL, CLASS B
9	EA	2.1M U-CHANNEL POSTS		8,700	MTN	SEDIMENT CONTROL STONE
180	EA	FLEXIBLE DELINEATORS (CRYSTAL)		97	HA	TEMPORARY MULCHING
111	EA	FLEXIBLE DELINEATORS (YELLOW)		5,375	KG	SEED FOR TEMPORARY SEEDING
22	EA	FLEXIBLE DELINEATORS (CRYSTAL & RED)		43.25	MTN	FERTILIZER FOR TEMPORARY SEED- ING
9	EA	OBJECT MARKERS (END OF ROAD)		605	M	TEMPORARY SLOPE DRAINS
697	MTN	FOUNDATION CONDITIONING MATE- RIAL, UTILITIES CLASS ***** (V)		30	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
697	MTN	BEDDING MATERIAL, UTILITIES CLASS ***** (V)		87,795	M3	SILT EXCAVATION
16.9	M	150MM DI WATER PIPE, PC 2.41MPA		2,100	M2	SYNTHETIC ROVING
196.7	M	300MM DI WATER PIPE, PC 2.41MPA		21,035	M2	MATTING FOR EROSION CONTROL
35.5	M	***MM DI RESTRAINED JOINT WAT- ER PIPE, CLASS ***** WP (300MM, PC 2.41 MPA)		61	M2	PERMANENT SOIL REINFORCEMENT MAT
37.7	M	20MM COPPER WATER PIPE, TYPE K		1,380	M	6.4MM HARDWARE CLOTH
682.2	M	***MM PVC WATER PIPE, (C900), DR ***, ***MPA WP (150MM, C900 DR14, 1.38 MPA WP)				
942.7	M	***MM PVC WATER PIPE, (C900), DR *** **MPA WP (300MM, C900 DR14, 1.38 MPA WP)				
2,780.3	KG	DUCTILE IRON WATER PIPE FIT- TINGS, 1.72MPA MIN WP				
6	EA	20MM CORPORATION STOP				
11	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP				
3	EA	300MM GATE VALVE & VALVE BOX, ***MPA WP (1.38 MPA WP)				
5	EA	*** X ***MM TAPPING SADDLE (150MM X 20MM)				

			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (10+01.503 -L2-)
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (36+74.311 -Y1-)
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (45+11.843 -Y1-)
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (79+23.509 -L-LT)
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (79+23.509 -L-RT)
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (87+91.713 -L-)
			Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (9+74.580 -L1-)
			85,133	KG	REINFORCING STEEL (BRIDGE)
			4,821	KG	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
			1,682.96	M	MODIFIED 1829MM PRESTRESSED CONC GIRDBERS
			148,500	LS	APPROX KG STRUCTURAL STEEL
			1,830	M	HP310X79 STEEL PILES
			851.538	M	CONCRETE BARRIER RAIL
			3,553	M2	100MM SLOPE PROTECTION
			Lump Sum	LS	ELASTOMERIC BEARINGS
			Lump Sum	LS	EVAZOTE JOINT SEALS
			18	M	GENERIC STRUCTURE ITEM PILE EXCAVATION IN SOIL
			18	M	GENERIC STRUCTURE ITEM PILE EXCAVATION NOT IN SOIL
120	M	***MM TEMPORARY PIPE (450MM)			
710	M3	STILLING BASINS			
128	HA	SEEDING & MULCHING			
52.5	HA	MOWING			
1,150	KG	SEED FOR REPAIR SEEDING			
4	MTN	FERTILIZER FOR REPAIR SEEDING			
3,600	KG	SEED FOR SUPPLEMENTAL SEEDING			
215	MTN	FERTILIZER TOPDRESSING			
100	M	IMPERVIOUS DIKE			
96.5	HR	SPECIALIZED HAND MOWING			
24	EA	RESPONSE FOR EROSION CONTROL			
1,521	M3	CULVERT DIVERSION CHANNEL			
2	HA	REFORESTATION			
430	M	SIGNAL CABLE			
13	EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)			
3	EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)			
270	M	MESSENGER CABLE (9.52MM)			
520	M	TRENCHING (UNPAVED)			
14	EA	JUNCTION BOX (STANDARD SIZE)			
834	M	INDUCTIVE LOOP SAWCUT			
1,460	M	LEAD-IN CABLE			
8	EA	METAL STRAIN SIGNAL POLE			
8	EA	METAL SIGNAL POLE FOUNDATION			
2	EA	SIGNAL CABINET FOUNDATION			
2	EA	CABINET BASE ADAPTER			
2	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)			
21	EA	DETECTOR CHANNEL (TYPE 2070L)			

CULVERT ITEMS

Lump Sum	LS	CULVERT EXCAVATION, STA ***** (25+92.600 -Y1-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (3+86.000 RPB-Y1-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (43+53.820 -Y1-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (70+00.000 -L-)
757	MTN	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT
1,451.1	M3	CLASS A CONCRETE (CULVERT)
129,068	KG	REINFORCING STEEL (CULVERT)

STRUCTURE ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (36+74.311 -Y1-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (45+11.843 -Y1-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,10+01.503 -L2-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,36+74.311 -Y1-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,79+23.509 -L-LT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,79+23.509 -L-RT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,87+91.713 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1,9+74.580 -L1-)
3.8	M	***MM DIA DRILLED PIERS IN SOIL (1066MM)
6.5	M	***MM DIA DRILLED PIERS NOT IN SOIL (1066MM)
1	EA	CROSSHOLE SONIC LOGGING
47.1	M	CSL TUBES
5,231	M2	REINFORCED CONCRETE DECK SLAB
4,675.6	M2	GROOVING BRIDGE FLOORS
705.6	M3	CLASS A CONCRETE (BRIDGE)

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030715 001

CONTRACT ID : C200526

DIV OFFICE GREENSBORO

LENGTH = 3,909 KM

COUNTY : GUILFORD

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

			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 100MM CONCRETE COVER
4,600	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	10,500	M2	GENERIC PAVING ITEM 150MM CONCRETE COVER
9,300	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0D	11	EA	ADJUSTMENT OF MANHOLES
1,320	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5A	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	4	M3	REINFORCED CONCRETE SIGN FOOTINGS
6,382	M	100MM SHOULDER DRAIN PIPE	1	M3	PLAIN CONCRETE SIGN FOOTINGS
243	M	100MM OUTLET PIPE (SHOULDER DRAINS)	1,611	KG	SUPPORTS, BREAKAWAY STEEL BEAM
19	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET	599	KG	SUPPORTS, SIMPLE STEEL BEAM
50	MTN	BLOTTING SAND	532.6	M	SUPPORTS, 4.5KG STEEL U-CHANNEL
24.8	M3	ENDWALLS	2	EA	SIGN ERECTION, TYPE D
16.2	M3	REINFORCED ENDWALLS	95	EA	SIGN ERECTION, TYPE E
2.7	M3	PIPE COLLARS	5	EA	SIGN ERECTION, TYPE F
0.15	M3	PIPE PLUGS	5	EA	SIGN ERECTION, TYPE *** (OVERHEAD)
328	EA	MASONRY DRAINAGE STRUCTURES	3	EA	SIGN ERECTION, TYPE *** (OVERHEAD)
27	M3	MASONRY DRAINAGE STRUCTURES	9	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED)
38.04	M	MASONRY DRAINAGE STRUCTURES	1	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED)
1	EA	FRAME WITH GRATE, STD 840.22	1	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED)
81	EA	FRAME WITH TWO GRATES, STD 840.**** (840.20)	3	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM
20	EA	FRAME WITH TWO GRATES, STD 840.16	12	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
86	EA	FRAME WITH TWO GRATES, STD 840.22	6	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)
9	EA	FRAME WITH TWO GRATES, STD 840.24	Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN BENCH TEST UNIT
8	EA	FRAME WITH TWO GRATES, STD 840.29	Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN MAINTENANCE TRAINING
6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM DESIGN APPROVAL TESTS
24	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FACTORY TESTS
31	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)			
16	EA	FRAME WITH COVER, STD 840.54			
2	EA	STEEL FRAME WITH TWO GRATES, STD840.37			
5,200	M	750MM CONCRETE CURB & GUTTER			
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 DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FIELD TESTS		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "H"	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM "DMS-1"		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "I"	
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM "DMS-2"		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "J"	
Lump Sum	LS	GENERIC SIGNING ITEM INTEGRATION INTO EXT DMS SYS- TEM		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "K"	
Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING SYSTEM FOR PEDESTAL SIGN ASSEMBLY "L"		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "L"	
Lump Sum	LS	GENERIC SIGNING ITEM LIGHTING SYSTEM WITHOUT WALK- WAY FOR ASSEMBLY "DMS-1", SIGN 15		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "M"	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "A"		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "N"	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B"		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "O"	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "C"		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "P"	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "D"		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "Q"	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "E"		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "R"	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "F"		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "S"	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "G"		Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "T"	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "H"		106	M2	WORK ZONE SIGNS (STATIONARY)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "I"		91	M2	WORK ZONE SIGNS (PORTABLE)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "J"		16	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "K"		4	EA	FLASHING ARROW PANELS, TYPE C	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "L"		2	EA	CHANGEABLE MESSAGE SIGNS	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "M"		29	EA	WARNING FLAG SETS	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "N"		1,800	EA	DRUMS	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "O"		100	EA	CONES	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "P"		146	M	BARRICADES (TYPE III)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "Q"		2,800	HR	FLAGGER	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "R"		8	EA	WARNING LIGHTS (TYPE B)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "S"		6	EA	TEMPORARY CRASH CUSHIONS	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "T"		3	EA	RESET TEMPORARY CRASH CUSHIONS	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "A"		2	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (45 MPH)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B"		4	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (60 MPH)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "C"		2,400	M	PORTABLE CONCRETE BARRIER	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "D"		1,000	M	PORTABLE CONCRETE BARRIER (DRAINAGE)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "E"		3,700	M	RESET PORTABLE CONCRETE BAR- RIER	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "F"		267	EA	TUBULAR MARKERS (FIXED)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "G"		600	M	REMOVABLE TAPE PAVEMENT MARK- ING LINES (100MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "H"		1,110	EA	TEMPORARY RAISED PAVEMENT MARKERS	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "I"		23,200	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "J"		13,017	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "K"		850	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "L"		510	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 3.1MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "M"		60	M	THERMOPLASTIC PAVEMENT MARKING LINES (400MM, 3.1MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "N"		622	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "O"		8	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "P"		116	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "Q"		101,623	M	PAINT PAVEMENT MARKING LINES (100MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "R"		4,260	M	PAINT PAVEMENT MARKING LINES (150MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "S"		300	M	PAINT PAVEMENT MARKING LINES (200MM)	
Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "T"		580	M	PAINT PAVEMENT MARKING LINES (600MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-1"		59	EA	PAINT PAVEMENT MARKING SYMBOL	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-2"		5,625	M	REMOVAL OF PAVEMENT MARKING LINES (100MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "A"		150	M	REMOVAL OF PAVEMENT MARKING LINES (600MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "B"		17,877	M	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING LINES (150MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "C"		1,270	M	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING LINES (200MM)	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "D"		9	EA	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING SYMBOL	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "E"		517	EA	PERMANENT RAISED PAVEMENT MARKERS	
Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "F"					
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 FOUNDATION COVER
15	EA	2.1M U-CHANNEL POSTS	7	EA	GENERIC LIGHTING ITEM REMOVE LIGHT STANDARD
235	EA	FLEXIBLE DELINEATORS (CRYSTAL)	901	MTN	FOUNDATION CONDITIONING MATE- RIAL, UTILITIES CLASS ***** (VI)
125	EA	FLEXIBLE DELINEATORS (YELLOW)	95	MTN	PAVEMENT REPAIR FOR UTILITY WORK
10	EA	FLEXIBLE DELINEATORS (CRYSTAL & RED)	137	M	***MM DI WATER PIPE, CLASS ***** WP (400MM, 53, 2.41MPA)
10	EA	FLEXIBLE DELINEATORS (YELLOW & RED)	87	M	150MM DI WATER PIPE, PC 2.41MPA
15	EA	OBJECT MARKERS (END OF ROAD)	913	M	200MM DI WATER PIPE, PC 2.41MPA
20	EA	30.5M HIGH MOUNT STANDARD	368	M	300MM DI WATER PIPE, PC 2.41MPA
2	EA	PORTABLE DRIVE UNIT	31	M	400MM DI WATER PIPE, PC ***MPA (2.41MPA)
84	M3	HIGH MOUNT FOUNDATIONS	80	M	***MM COPPER WATER PIPE, TYPE K (50MM)
80	EA	HIGH MOUNT LUMINAIRES ***** (1KW HPS)	91	M	20MM COPPER WATER PIPE, TYPE K
132	EA	LIGHT STANDARD, TYPE MTLT ***** (13.7M SA 4.6M)	5,921	KG	DUCTILE IRON WATER PIPE FIT- TINGS, 1.72MPA MIN WP
169	EA	LIGHT STANDARD, TYPE MTLT ***** (13.7M TA 4.6M)	1	EA	20MM CORPORATION STOP
12	EA	LIGHT STANDARD, TYPE MTLT ***** (13.7M TWIN ARM 4.6M ON BREAK- AWAY BASE)	1	EA	50MM CORPORATION STOP
115	EA	STANDARD FOUNDATIONS ***** (TYPE R1)	2	EA	***MM GATE VALVE & VALVE BOX, ****MPA WP (400MM, 1.38MPA)
29	EA	STANDARD FOUNDATIONS ***** (TYPE R2)	1	EA	***MM GATE VALVE & VALVE BOX, ****MPA WP (500MM, 1.38MPA)
7	EA	LIGHT STANDARD LUMINAIRES, TYPE RDW 250W HPS	13	EA	150MM GATE VALVE & VALVE BOX, 1.38MPA WP
494	EA	LIGHT STANDARD LUMINAIRES, TYPE RDW 400W HPS	4	EA	200MM GATE VALVE & VALVE BOX, ****MPA WP (1.38MPA)
20	EA	ELECTRIC SERVICE POLES *** ***** (9.1M CLASS 4)	2	EA	300MM GATE VALVE & VALVE BOX, ****MPA WP (1.38MPA)
456	M	ELECTRIC SERVICE LATERAL ***** (3 #1/0 USE)	1	EA	*** X ***MM TAPPING SLEEVE, VALVE & VALVE BOX, ****MPA WP (300MM X 150MM, 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 200MM, 1.38MPA)
20	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (240/480 VOLT)	3	EA	*** X ***MM TAPPING SLEEVE, VALVE & VALVE BOX, ****MPA WP (300MM X 300MM, 1.38MPA)
316	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS2)	1	EA	*** X ***MM TAPPING SADDLE (300MM X 50MM)
191	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS3)	1	EA	*** X ***MM TAPPING SADDLE (400MM X 20MM)
194	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS2)	8	EA	RELOCATE EXISTING WATER METER
433	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS3)	9	EA	FIRE HYDRANT, ****MPA WP (1.38MPA)
20	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS4)	5	EA	RELOCATE EXISTING FIRE HYDRANT
98	M	**#8 W/G FEEDER CIRCUIT (2)	75	M	***MM PVC SEWER PIPE, SDR 35 (100MM)
1,335	M	**#6 W/G FEEDER CIRCUIT (2)	231	M	***MM DI SEWER PIPE, CLASS *** (300MM, 53)
10,980	M	**#4 W/G FEEDER CIRCUIT (2)	1,388	M	200MM DI SEWER PIPE, PC 2.41MPA
1,289	M	**#2 W/G FEEDER CIRCUIT (2)	868	M	300MM DI SEWER PIPE, PC 2.41MPA
1,645	M	***#8 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	896	M	***MM DI FORCE MAIN SEWER PIPE PC ****MPA (300MM, 2.41MPA)
4,992	M	***#6 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	85	M	***MM DI FORCE MAIN SEWER PIPE PC ****MPA (500MM, 2.41MPA)
7,715	M	***#4 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	2,548	KG	DUCTILE IRON SEWER PIPE FIT- TINGS, 1.72MPA MIN WP
2,810	M	***#2 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)	10	EA	SANITARY SEWER CLEAN-OUT
1	EA	ELECTRICAL JUNCTION BOXES ***** (BR18)	38	EA	***MM DIA PRECAST CONC SEWER MANHOLE 0-1.8M DEPTH (1200MM)
32	EA	ELECTRICAL JUNCTION BOXES ***** (PC18)	93.3	M	PRECAST CONC MANHOLE WALL, ****MM DIA, OVER 1.8M HT (1200MM)
37	EA	UNDERPASS LUMINAIRES ***** (TYPE WM 150W HPS)	2	M	SEWER MANHOLE OUTSIDE DROP AS- SEMBLY
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 136+20)	28	EA	BREAK DOWN, PLUG, & FILL ABAN- DONED UTILITY MANHOLE
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 43+70 L)	2	EA	BREAK DOWN & REBUILD EXISTING MANHOLE
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 45+74 L)	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

20	EA	GENERIC UTILITY ITEM 200MM RESTRAINED RETAINER GLAND, 1.72MPA WP
1	EA	GENERIC UTILITY ITEM 300MM LINE STOP ASSEMBLY
50	EA	GENERIC UTILITY ITEM 300MM RESTRAINED RETAINER GLAND, 1.72MPA WP
22	EA	GENERIC UTILITY ITEM 400MM RESTRAINED RETAINER GLAND, 1.72MPA WP
85	M	GENERIC UTILITY ITEM 3.66M GRAVEL ACCESS ROAD
60	M	GENERIC UTILITY ITEM REMOVE EXISTING SEWER PIPE FROM CULVERT
901	MTN	GENERIC UTILITY ITEM #67 BEDDING STONE
6,500	M	TEMPORARY SILT FENCE
2,020	MTN	STONE FOR EROSION CONTROL, CLASS A
23,410	MTN	STONE FOR EROSION CONTROL, CLASS B
11,400	MTN	SEDIMENT CONTROL STONE
49.5	HA	TEMPORARY MULCHING
5,100	KG	SEED FOR TEMPORARY SEEDING
41	MTN	FERTILIZER FOR TEMPORARY SEED- ING
2,380	M	TEMPORARY SLOPE DRAINS
135	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
81,240	M3	SILT EXCAVATION
4,000	M2	SYNTHETIC ROVING
2,600	M2	MATTING FOR EROSION CONTROL
520	M2	PERMANENT SOIL REINFORCEMENT MAT
2,440	M	6.4MM HARDWARE CLOTH
80	M	***MM TEMPORARY PIPE (450MM)
1	EA	***X ***X***MM PERFORATED CS PIPE TEE RISER, 2.01MM THICK (800MM X 800MM X 800MM)
350	M3	STILLING BASINS
149	HA	SEEDING & MULCHING
23.5	HA	MOWING
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
81	HR	SPECIALIZED HAND MOWING
32	EA	RESPONSE FOR EROSION CONTROL
320	M3	CULVERT DIVERSION CHANNEL
3	HA	REFORESTATION
1.62	HA	STREAMBANK REFORESTATION
80	EA	GENERIC EROSION CONTROL ITEM ROOTWADS
1,650	M2	GENERIC EROSION CONTROL ITEM COIR FIBER MATTING
200	M	GENERIC EROSION CONTROL ITEM TREE PROTECTION FENCE
1,560	M	SIGNAL CABLE
42	EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)
5	EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)
8	EA	LOUVER
595	M	MESSENGER CABLE (9.52MM)
4,500	M	TRACER WIRE
1,445	M	TRENCHING (PAVED)
910	M	TRENCHING (UNPAVED)
650	M	DIRECTIONAL DRILL OUTER-DUCT CONDUIT, 125MM
13,000	M	TRENCH MULTI-DUCT, 31.75MM (** CONDUIT) (4)
2,600	M	MULTI-DUCT, 31.75MM IN OUTER- DUCT (** CONDUIT) (4)
27	EA	JUNCTION BOX (STANDARD SIZE)
36	EA	JUNCTION BOX (OVER-SIZED)
21	EA	WOOD POLE
34	EA	GUY ASSEMBLY
20	EA	50MM RISER WITH WEATHERHEAD
2,029	M	INDUCTIVE LOOP SAWCUT
6,530	M	LEAD-IN CABLE

150	M	COMMUNICATIONS CABLE (** TWISTED-PAIR) (3)
3,900	M	COMMUNICATIONS CABLE (**FIBER) (14)
1,200	M	DROP CABLE
4	EA	AERIAL SPLICE ENCLOSURE
3	EA	INTERCONNECT CENTER
54	EA	DELINEATOR MARKER
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	PRINTER
6	EA	GENERIC SIGNAL ITEM BASE MOUNT CCTV CABINET
2	EA	GENERIC SIGNAL ITEM BASE MOUNT SPLICE CABINET
6	EA	GENERIC SIGNAL ITEM CCTV ASSEMBLY
1	EA	GENERIC SIGNAL ITEM CCTV JOYSTICK
6	EA	GENERIC SIGNAL ITEM CCTV METAL POLE
6	EA	GENERIC SIGNAL ITEM COLOR VIDEO MONITOR
8	EA	GENERIC SIGNAL ITEM EQUIPMENT CABINET FOUNDATION
1	EA	GENERIC SIGNAL ITEM FIBER OPTIC DATA TRANSCEIVER (IN CABINET)
1	EA	GENERIC SIGNAL ITEM FIBER OPTIC DATA TRANSCEIVER (IN RACK)
6	EA	GENERIC SIGNAL ITEM FIBER OPTIC VIDEO TRANSCEIVER (IN CABINET)
6	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
2,400	M	GENERIC SIGNAL ITEM MULTI-DUCT (31.75MM)

CULVERT ITEMS

Lump Sum	LS	CULVERT EXCAVATION, STA ***** (102+16.500 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (85+89.214 -I40 EX-)
666.7	MTN	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT
958	M3	CLASS A CONCRETE (CULVERT)
87,643	KG	REINFORCING STEEL (CULVERT)

WALL ITEMS

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 ***** (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 ***** (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-)

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

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	2	EA	***MM CS PIPE ELBOWS, ****MM THICK (300MM, 1.63MM)
1,705,000	M3	UNCLASSIFIED EXCAVATION	2	EA	***MM CS PIPE ELBOWS, ****MM THICK (450MM, 1.63MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+33 -Y5-)	622.8	M	400MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (16+03 -RPBD-)	109.2	M	450MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (19+60 -RPBD-)	39.6	M	600MM BIT COAT CS PIPE CULVERTS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (19+83 -RPCA-)	52.8	M	800MM BIT COAT CS PIPE CULVERTS, TYPE B 2.01MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+91 -RPCA-)	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- LEFT)	13.2	M	1000MM BIT COAT CS PIPE CULVERTS, TYPE B 2.77MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (23+92 -Y6-/Y7- RIGHT)	1	EA	***MM BIT COAT CS PIPE ELBOWS, TYPE B ***MM THICK (300MM, 1.63MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (55+18 -L- LEFT)	47	EA	400MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (55+30 -L- RIGHT)	8	EA	450MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (55+30 -L- RIGHT)	1	EA	600MM BIT COAT CS PIPE ELBOWS, TYPE B 1.63MM THICK
21,000	M3	UNDERCUT EXCAVATION	3	EA	800MM BIT COAT CS PIPE ELBOWS, TYPE B 2.01MM THICK
9,637	M3	DRAINAGE DITCH EXCAVATION	93	M	GENERIC PIPE ITEM 300MM POLYMER DRAIN LINE
850	M	BERM DITCH CONSTRUCTION	1,419.8	M	PIPE REMOVAL
10,500	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT	5,312	M2	150MM SLOPE PROTECTION
32	HR	PROOF ROLLING	Lump Sum	LS	FINE GRADING
12,450	M3	SELECT GRANULAR MATERIAL	86,155	M2	LIME TREATED SOIL (SLURRY METHOD)
6,810	M2	FABRIC FOR SOIL STABILIZATION	948	MTN	LIME FOR LIME TREATED SOIL
2,835	M2	TEMPORARY SHORING	500	MTN	STABILIZER AGGREGATE
815	M3	GENERIC GRADING ITEM CONTAMINATED SOILS EXCAVATION	31,965	MTN	AGGREGATE BASE COURSE
2,800	M2	GENERIC GRADING ITEM ROCK PLATING	57,437	M2	***MM SOIL CEMENT BASE (180MM)
2,150	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	1,723	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE
36	M	375MM SIDE DRAIN PIPE	388	MTN	AGGREGATE FOR SOIL CEMENT BASE
1,944	M	375MM RC PIPE CULVERTS, CLASS III	97,700	L	ASPHALT CURING SEAL
822	M	450MM RC PIPE CULVERTS, CLASS III	500	MTN	INCIDENTAL STONE BASE
1,316.4	M	600MM RC PIPE CULVERTS, CLASS III	17,864	M3	SHOULDER BORROW
295.2	M	750MM RC PIPE CULVERTS, CLASS III	7,700	L	PRIME COAT
603.6	M	900MM RC PIPE CULVERTS, CLASS III	16,729	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B
316.8	M	1050MM RC PIPE CULVERTS, CLASS III	22,679	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C
42	M	1200MM RC PIPE CULVERTS, CLASS III	15,641	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B
34.8	M	1350MM RC PIPE CULVERTS, CLASS III	16,078	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
109.2	M	1500MM RC PIPE CULVERTS, CLASS III	11,811	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
82.8	M	***MM RC PIPE CULVERTS, CLASS IV (1050MM)	2,126	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
106.8	M	***MM RC PIPE CULVERTS, CLASS IV (1200MM)	23,037	MTN	ASPHALT CONC SURFACE COURSE, TYPE S12.5C
121.2	M	***MM RC PIPE CULVERTS, CLASS IV (1650MM)	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	1	EA	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
14	EA	FRAME WITH TWO GRATES, STD 840.24	Lump Sum	LS	DESIGN APPROVAL TESTS
2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	Lump Sum	LS	GENERIC SIGNING ITEM
8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	Lump Sum	LS	DYNAMIC MESSAGE SIGN SYSTEM
11	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	Lump Sum	LS	OPERATIONAL FIELD TESTS
4	EA	FRAME WITH COVER, STD 840.54	Lump Sum	LS	GENERIC SIGNING ITEM
1	EA	STEEL FRAME WITH TWO GRATES, STD840.37	Lump Sum	LS	LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "A"
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 "B"
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)	138	MTN	GENERIC UTILITY ITEM #67 BEDDING STONE
93	M2	WORK ZONE SIGNS (PORTABLE)	1,605	M	TEMPORARY SILT FENCE
107	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)	1,590	MTN	STONE FOR EROSION CONTROL, CLASS A
6	EA	FLASHING ARROW PANELS, TYPE C	10,030	MTN	STONE FOR EROSION CONTROL, CLASS B
4	EA	CHANGEABLE MESSAGE SIGNS	6,850	MTN	SEDIMENT CONTROL STONE
10	EA	WARNING FLAG SETS	11	HA	TEMPORARY MULCHING
512	EA	DRUMS	1,400	KG	SEED FOR TEMPORARY SEEDING
50	EA	CONES	11.25	MTN	FERTILIZER FOR TEMPORARY SEEDING
342	M	BARRICADES (TYPE III)	250	M	TEMPORARY SLOPE DRAINS
1,600	HR	FLAGGER	16	EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
4	EA	WARNING LIGHTS (TYPE B)	46,931	M3	SILT EXCAVATION
8	EA	TEMPORARY CRASH CUSHIONS	3,025	M2	SYNTHETIC ROVING
4	EA	RESET TEMPORARY CRASH CUSHIONS	1,525	M2	MATTING FOR EROSION CONTROL
2	EA	TRUCK MOUNTED IMPACT ATTENUATOR (60 MPH)	1,450	M	6.4MM HARDWARE CLOTH
340	M	PORTABLE CONCRETE BARRIER	50	M	***MM TEMPORARY PIPE (450MM)
340	M	PORTABLE CONCRETE BARRIER (DRAINAGE)	830	M3	STILLING BASINS
243	EA	TUBULAR MARKERS (FIXED)	33.5	HA	SEEDING & MULCHING
1,562	M	REMOVABLE TAPE PAVEMENT MARKING LINES (100MM)	4.5	HA	MOWING
1	EA	REMOVABLE TAPE PAVEMENT MARKING SYMBOL	100	KG	SEED FOR REPAIR SEEDING
311	EA	TEMPORARY RAISED PAVEMENT MARKERS	0.25	MTN	FERTILIZER FOR REPAIR SEEDING
25,588	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)	925	KG	SEED FOR SUPPLEMENTAL SEEDING
8,647	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)	56	MTN	FERTILIZER TOPDRESSING
3,211	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)	1.8	HA	SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (HARD FESCUE/BLUEGRASS)
34	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)	150	M	IMPERVIOUS DIKE
8	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)	96	HR	SPECIALIZED HAND MOWING
31	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)	28	EA	RESPONSE FOR EROSION CONTROL
1,252	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (100MM)	1,800	M3	CULVERT DIVERSION CHANNEL
4	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (200MM)	3	HA	REFORESTATION
3	EA	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL	0.38	HA	STREAMBANK REFORESTATION
39,122	M	PAINT PAVEMENT MARKING LINES (100MM)	215	M	MESSENGER CABLE (****MM) (6MM)
10,050	M	PAINT PAVEMENT MARKING LINES (150MM)	3,000	M	TRACER WIRE
318	M	PAINT PAVEMENT MARKING LINES (200MM)	300	M	DIRECTIONAL DRILL OUTER-DUCT CONDUIT, 125MM
68	M	PAINT PAVEMENT MARKING LINES (600MM)	10,500	M	TRENCH MULTI-DUCT, 31.75MM (** CONDUIT) (4)
39	EA	PAINT PAVEMENT MARKING SYMBOL	1,200	M	MULTI-DUCT, 31.75MM IN OUTER-DUCT (** CONDUIT) (4)
3,596	M	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING LINES (150MM)	27	EA	JUNCTION BOX (OVER-SIZED)
1,349	EA	PERMANENT RAISED PAVEMENT MARKERS	8	EA	WOOD POLE
73	EA	FLEXIBLE DELINEATORS (CRYSTAL)	10	EA	GUY ASSEMBLY
24	EA	FLEXIBLE DELINEATORS (YELLOW)	6	EA	*****MM RISER WITH ***** (2", HEAT SHRINK TUBING)
138	MTN	FOUNDATION CONDITIONING MATERIAL, UTILITIES CLASS ***** (VI)	3,500	M	COMMUNICATIONS CABLE (**FIBER) (144)
5	MTN	PAVEMENT REPAIR FOR UTILITY WORK	40	M	DROP CABLE
251	M	300MM DI WATER PIPE, PC 2.41MPA	4	EA	AERIAL SPLICE ENCLOSURE
330	M	400MM DI WATER PIPE, PC ***MPA (2.41MPA)	2	EA	INTERCONNECT CENTER
1,074	KG	DUCTILE IRON WATER PIPE FITTINGS, 1.72MPA MIN WP	39	EA	DELINEATOR MARKER
1	EA	***MM GATE VALVE & VALVE BOX, ***MPA WP (400MM, 1.38MPA)	1	EA	FURNISH FIBER-OPTIC RESTORATION KIT
3	EA	300MM GATE VALVE & VALVE BOX, ***MPA WP (1.38MPA)	1	EA	FURNISH FIBER-OPTIC POWER METER
10	M	***MM PVC SEWER PIPE, SDR 35 (100MM)	1	EA	FURNISH OPTICAL LIGHT GENERATOR
186	M	***MM DI SEWER PIPE, CLASS *** (200MM, 53)	1	EA	FURNISH FIBER-OPTIC TRANSCEIVER
136	M	***MM DI SEWER PIPE, CLASS *** (400MM, 53)	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

1	EA	GENERIC SIGNAL ITEM CCTV TEST MONITOR
3	EA	GENERIC SIGNAL ITEM COLOR VIDEO MONITOR
5	EA	GENERIC SIGNAL ITEM EQUIPMENT CABINET FOUNDATION
2	EA	GENERIC SIGNAL ITEM FIBER OPTIC DATA TRANSCEIVER (IN CABINET)
1	EA	GENERIC SIGNAL ITEM FIBER OPTIC DATA TRANSCEIVER (IN RACK)
3	EA	GENERIC SIGNAL ITEM FIBER OPTIC VIDEO TRANSCEIVER (IN CABINET)
3	EA	GENERIC SIGNAL ITEM FIBER OPTIC VIDEO TRANSCEIVER (IN RACK)
Lump Sum	LS	GENERIC SIGNAL ITEM CCTV CENTRAL SOFTWARE
Lump Sum	LS	GENERIC SIGNAL ITEM TRAINING
100	M	GENERIC SIGNAL ITEM MULTI-DUCT (31.75MM)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (9+83.00-Y2-)

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 -RAMP-)
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-)

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)

Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,19+61.051 -RPCA-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,19+85.137 -RPBD-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,22+94.604 -RPCA-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,67+72.110 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,73+34.540 -L- RT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,73+48.544 -L- LT)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,22+94.604 -RPCA-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,67+72.110 -L-)
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (4,67+72.110 -L-)
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
8,357	M	HP310X79 STEEL PILES
330	M	HP360X108 STEEL PILES
42	EA	STEEL PILE POINTS
159,645	M	THREE BAR METAL RAIL
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

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L030715 003

CONTRACT ID : C200734

DIV OFFICE GREENSBORO

LENGTH = 6.921 KM

COUNTY : GUILFORD

WIDENING, GRADING, DRAINAGE, PAVING, LIGHTING & 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	28,000	M2	REMOVAL OF EXISTING ASPHALT PAVEMENT
Lump Sum	LS	CONSTRUCTION SURVEYING	1,300	M2	REMOVAL OF EXISTING CONCRETE PAVEMENT
Lump Sum	LS	CLEARING & GRUBBING ... HEC-TARE(S)	250	M2	BREAKING OF EXISTING ASPHALT PAVEMENT
2.8	HA	SUPPLEMENTARY CLEARING & GRUBBING	82	HR	PROOF ROLLING
4	EA	SEALING ABANDONED WELLS	19,450	M3	SELECT GRANULAR MATERIAL
2,042,000	M3	UNCLASSIFIED EXCAVATION	11,810	M2	FABRIC FOR SOIL STABILIZATION
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (109+13.980 -LNB-)	2,835	M2	TEMPORARY SHORING
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (11+73.750 -RPAC-)	75	M2	TEMPORARY SHORING - BARRIER SUPPORTED
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (110+65.100 -LNB-)	815	M3	GENERIC GRADING ITEM CONTAMINATED SOILS EXCAVATION
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (115+44.630 -LNB-)	3,886	M2	GENERIC GRADING ITEM ROCK PLATING
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (120+42.070 -L- SB)	16,800	MTN	SELECT MATERIAL, CLASS II
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (120+48.520 -L- NB)	8,850	MTN	SELECT MATERIAL, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (13+33 -Y5-)	2,600	MTN	SELECT MATERIAL, CLASS IV
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (135+87.160 -L- NB)	5,930	MTN	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (135+87.160 -L- SB)	280.8	M	375MM SIDE DRAIN PIPE
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (16+03 -RPBD-)	43.2	M	450MM SIDE DRAIN PIPE
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (18+45.710 -RPAC-)	24	M	600MM SIDE DRAIN PIPE
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (18+65.880 -LSB-)	204	M	300MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (19+60 -RPBD-)	6,333.2	M	375MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (19+83 -RPCA-)	2,138.4	M	450MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (20+45.630 -LSB-)	2,778	M	600MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+41.650 -LSB-)	914.4	M	750MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (22+91 -RPCA-)	829.2	M	900MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (23+92 -Y6-/-Y7- LEFT)	687.6	M	1050MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (23+92 -Y6-/-Y7- RIGHT)	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 ***** (39+59.890 -I40EB-)	290.4	M	1500MM RC PIPE CULVERTS, CLASS III
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (55+18 -L- LEFT)	494.4	M	****MM RC PIPE CULVERTS, CLASS IV (1050MM)
Lump Sum	LS	REINFORCED BRIDGE APPROACH FILL, STATION ***** (55+30 -L- RIGHT)	106.8	M	****MM RC PIPE CULVERTS, CLASS IV (1200MM)
Lump Sum	LS	UNDERCUT EXCAVATION	80.4	M	****MM RC PIPE CULVERTS, CLASS IV (1350MM)
45,500	M3	UNDERCUT EXCAVATION	205.2	M	****MM RC PIPE CULVERTS, CLASS IV (1500MM)
1,600	MTN	CLASS IV SUBGRADE STABILIZATION	121.2	M	****MM RC PIPE CULVERTS, CLASS IV (1650MM)
			100.8	M	****MM RC PIPE CULVERTS, CLASS IV (450MM)
			86.4	M	****MM RC PIPE CULVERTS, CLASS IV (600MM)
			230.4	M	****MM RC PIPE CULVERTS, CLASS IV (750MM)
			117.6	M	****MM RC PIPE CULVERTS, CLASS IV (900MM)
			6	EA	****MM PIPE END SECTION (375MM)
			52.8	M	****MM CS PIPE CULVERTS, ****MM THICK (300MM, 1.63MM)

			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, ***MM THICK (300MM, 1.63MM)	Lump Sum	LS	SURFACE TESTING CONCRETE PAVEMENT
2	EA	***MM CS PIPE ELBOWS, ***MM 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 ***MM 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	***MM WELDED STEEL PIPE, ***MM THICK, GRADE B, INSTALLED BY BORING & JACKING (1650MM, 22MM)	60	MTN	BLOTTING SAND
45.6	M	***MM WELDED STEEL PIPE, ***MM THICK, GRADE B, INSTALLED BY BORING & JACKING (600MM, 12.7MM)	57.4	M3	ENDWALLS
93	M	GENERIC PIPE ITEM 300MM POLYMER DRAIN LINE	24.8	M3	REINFORCED ENDWALLS
4,925.8	M	PIPE REMOVAL	10.7	M3	PIPE COLLARS
5,737	M2	150MM SLOPE PROTECTION	2.15	M3	PIPE PLUGS
Lump Sum	LS	FINE GRADING	525	EA	MASONRY DRAINAGE STRUCTURES
179,405	M2	LIME TREATED SOIL (SLURRY METHOD)	30.2	M3	MASONRY DRAINAGE STRUCTURES
1,978	MTN	LIME FOR LIME TREATED SOIL	72.76	M	MASONRY DRAINAGE STRUCTURES
500	MTN	STABILIZER AGGREGATE	1	EA	FRAME WITH GRATE, STD 840.*** (840.24)
96,765	MTN	AGGREGATE BASE COURSE	5	EA	FRAME WITH GRATE, STD 840.22
119,637	M2	***MM SOIL CEMENT BASE (180MM)	82	EA	FRAME WITH TWO GRATES, STD 840.*** (840.20)
3,593	MTN	PORTLAND CEMENT FOR SOIL CEMENT BASE	25	EA	FRAME WITH TWO GRATES, STD 840.16
1,018	MTN	AGGREGATE FOR SOIL CEMENT BASE	238	EA	FRAME WITH TWO GRATES, STD 840.22
111,700	L	ASPHALT CURING SEAL	23	EA	FRAME WITH TWO GRATES, STD 840.24
1,000	MTN	INCIDENTAL STONE BASE	8	EA	FRAME WITH TWO GRATES, STD 840.29
7,700	L	PRIME COAT	8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
1,950	M2	MILLING ASPHALT PAVEMENT, **MM DEPTH (30MM)	32	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
34,829	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0B	42	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
42,679	MTN	ASPHALT CONC BASE COURSE, TYPE B25.0C	20	EA	FRAME WITH COVER, STD 840.54
35,641	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	3	EA	STEEL FRAME WITH TWO GRATES, STD840.37
20,678	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	123	M3	CONCRETE RETAINING WALLS
9,300	MTN	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0D	6,605	M	750MM CONCRETE CURB & GUTTER
1,320	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5A	350	M	SHOULDER BERM GUTTER
36,811	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	2	EA	MODIFIED CONCRETE FLUME
5,726	MTN	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	6,655	M	CONCRETE EXPRESSWAY GUTTER
23,037	MTN	ASPHALT CONC SURFACE COURSE, TYPE S12.5C	3,550	M2	100MM CONCRETE SIDEWALK
5,900	MTN	ASPHALT CONC SURFACE COURSE, TYPE S12.5D	187	M2	CONCRETE WHEELCHAIR RAMPS
8,931	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	437	M2	100MM CONCRETE PAVED DITCH
2,078	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	700	M2	125MM MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)
325	MTN	ASPHALT BINDER FOR PLANT MIX, GRADE PG 76-22	170	M	CONCRETE BARRIER, TYPE ***** (T2)
15,725	MTN	PERMEABLE ASPHALT DRAINAGE COURSE, TYPE P-78M	2,430	M	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED
825	MTN	ASPHALT PLANT MIX PAVEMENT REPAIR	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 WALKWAY FOR ASSEMBLY "DMS-1", SIGN 15
2,287.3	M	REMOVE EXISTING GUARDRAIL	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "A"
613.41	M	TEMPORARY STEEL BM GUARDRAIL	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "B"
3	EA	GUARDRAIL ANCHOR UNITS, TYPE ***** TEMPORARY (CAT-1)	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "C"
5	EA	GUARDRAIL ANCHOR UNITS, TYPE 350 TEMPORARY	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "D"
17,216	M	CHAIN LINK FENCE, 1200MM FABRIC	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "E"
4,721	EA	METAL LINE POSTS FOR 1200MM CHAIN LINK FENCE	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "F"
236	EA	METAL TERMINAL POSTS FOR 1200MM CHAIN LINK FENCE	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "G"
2	EA	METAL GATE POSTS FOR *****MM CHAIN LINK FENCE, SINGLE GATE (1200MM)	Lump Sum	LS	GENERIC SIGNING ITEM LRS 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 LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "I"
2,135	MTN	PLAIN RIP RAP, CLASS I	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "J"
195	MTN	PLAIN RIP RAP, CLASS II	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "K"
64	MTN	PLAIN RIP RAP, CLASS A	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "L"
5,370	MTN	PLAIN RIP RAP, CLASS B	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "M"
24,160	M2	FILTER FABRIC FOR DRAINAGE	Lump Sum	LS	GENERIC SIGNING ITEM LRS 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 LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "O"
5,000	M2	GENERIC WALL ITEM FABRIC FOR TEMPORARY FABRIC WALL	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "P"
119	M2	GENERIC WALL ITEM PILE / PANEL RETAINING WALL	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "Q"
5	M3	REINFORCED CONCRETE SIGN FOOTINGS	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "R"
2	M3	PLAIN CONCRETE SIGN FOOTINGS	Lump Sum	LS	GENERIC SIGNING ITEM LRS LIGHTING FOR OVERHEAD SIGN ASSEMBLY "S"
2,000	KG	SUPPORTS, BREAKAWAY STEEL BEAM	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-1"
1,089	KG	SUPPORTS, SIMPLE STEEL BEAM	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD DYNAMIC MESSAGE SIGN ASSEMBLY "DMS-2"
902.6	M	SUPPORTS, 4.5KG STEEL U-CHANNEL	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "A"
2	EA	SIGN ERECTION, TYPE D	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "B"
145	EA	SIGN ERECTION, TYPE E	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "C"
5	EA	SIGN ERECTION, TYPE F	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "D"
5	EA	SIGN ERECTION, TYPE *** (OVERHEAD) (A)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "E"
3	EA	SIGN ERECTION, TYPE *** (OVERHEAD) (B)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "F"
16	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "G"
1	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "H"
12	EA	DISPOSAL OF SUPPORT, STEEL BEAM	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "I"
3	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "J"
69	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "K"
6	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "L"
1	EA	GENERIC SIGNING ITEM DMS SYSTEM CLIENT COMPUTER	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "M"
1	EA	GENERIC SIGNING ITEM DMS SYSTEM CONTROL SOFTWARE	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "N"
1	EA	GENERIC SIGNING ITEM DMS SYSTEM LAPTOP COMPUTER	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "O"
1	EA	GENERIC SIGNING ITEM DMS SYSTEM SERVER COMPUTER	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "P"
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN BENCH TEST UNIT	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "Q"
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN MAINTENANCE TRAINING	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "R"
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM DESIGN APPROVAL TESTS	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "S"
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FACTORY TESTS	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "T"
Lump Sum	LS	GENERIC SIGNING ITEM DYNAMIC MESSAGE SIGN SYSTEM OPERATIONAL FIELD TESTS	Lump Sum	LS	GENERIC SIGNING ITEM OVERHEAD SIGN ASSEMBLY "U"

			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
			84	M3	HIGH MOUNT FOUNDATIONS
			80	EA	HIGH MOUNT LUMINAIRES ***** (1KW HPS)
			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)			
123	M2	WORK ZONE SIGNS (BARRICADE MOUNTED)	12	EA	LIGHT STANDARD, TYPE MTLT ***** (13.7M TWIN ARM 4.6M ON BREAK- AWAY BASE)
10	EA	FLASHING ARROW PANELS, TYPE C			
6	EA	CHANGEABLE MESSAGE SIGNS			
39	EA	WARNING FLAG SETS	115	EA	STANDARD FOUNDATIONS ***** (TYPE R1)
2,312	EA	DRUMS	29	EA	STANDARD FOUNDATIONS ***** (TYPE R2)
150	EA	CONES	7	EA	LIGHT STANDARD LUMINAIRES, TYPE RDW 250W HPS
488	M	BARRICADES (TYPE III)	494	EA	LIGHT STANDARD LUMINAIRES, TYPE RDW 400W HPS
4,400	HR	FLAGGER	20	EA	ELECTRIC SERVICE POLES *** ***** (9.1M CLASS 4)
12	EA	WARNING LIGHTS (TYPE B)	456	M	ELECTRIC SERVICE LATERAL ***** (3 #1/0 USE)
14	EA	TEMPORARY CRASH CUSHIONS	2	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (120/240 VOLT)
7	EA	RESET TEMPORARY CRASH CUSHIONS	20	EA	LIGHT CONTROL EQUIPMENT, TYPE RW ***** (240/480 VOLT)
2	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (45 MPH)	316	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS2)
6	EA	TRUCK MOUNTED IMPACT ATTENUA- TOR (60 MPH)	191	M	ELECTRICAL DUCT, TYPE BD, SIZE **** (TS3)
2,740	M	PORTABLE CONCRETE BARRIER	194	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS2)
1,340	M	PORTABLE CONCRETE BARRIER (DRAINAGE)	433	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS3)
3,700	M	RESET PORTABLE CONCRETE BAR- RIER	20	M	ELECTRICAL DUCT, TYPE JA, SIZE **** (TS4)
510	EA	TUBULAR MARKERS (FIXED)	98	M	**#8 W/G FEEDER CIRCUIT (2)
2,162	M	REMOVABLE TAPE PAVEMENT MARK- ING LINES (100MM)	1,335	M	**#6 W/G FEEDER CIRCUIT (2)
1	EA	REMOVABLE TAPE PAVEMENT MARK- ING SYMBOL	10,980	M	**#4 W/G FEEDER CIRCUIT (2)
1,421	EA	TEMPORARY RAISED PAVEMENT MARKERS	1,289	M	**#2 W/G FEEDER CIRCUIT (2)
48,788	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 2.3MM)	1,645	M	***#8 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)
21,664	M	THERMOPLASTIC PAVEMENT MARKING LINES (100MM, 3.1MM)	4,992	M	***#6 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)
4,061	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 2.3MM)	7,715	M	***#4 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)
510	M	THERMOPLASTIC PAVEMENT MARKING LINES (200MM, 3.1MM)	2,810	M	***#2 W/G FEEDER CIRCUIT IN SIZE *** CONDUIT (2, TS1.5)
60	M	THERMOPLASTIC PAVEMENT MARKING LINES (400MM, 3.1MM)	1	EA	ELECTRICAL JUNCTION BOXES ***** (BR18)
656	M	THERMOPLASTIC PAVEMENT MARKING LINES (600MM, 3.1MM)	32	EA	ELECTRICAL JUNCTION BOXES ***** (PC18)
16	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (3.1MM)	37	EA	UNDERPASS LUMINAIRES ***** (TYPE WM 150W HPS)
147	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (2.3MM)	Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 136+20)
1,252	M	COLD APPLIED PLASTIC PAVEMENT MARKING LINES (100MM)	Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 43+70 L)
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
			2	EA	BREAK DOWN & REBUILD EXISTING MANHOLE
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 45+74 L)	137	M	600MM STEEL ENCASUREMENT PIPE, *****MM THICK, BY BORING & JACKING (9.53MM)
Lump Sum	LS	UNDERPASS CIRCUITRY AT ***** (STA 60+29 L)			
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
	7	EA		EA	GENERIC UTILITY ITEM 300MM LINE STOP ASSEMBLY
	1,039	MTN		EA	GENERIC UTILITY ITEM 300MM RESTRAINED RETAINER GLAND, 1.72MPA WP
	100	MTN		EA	GENERIC UTILITY ITEM 400MM RESTRAINED RETAINER GLAND, 1.72MPA WP
	137	M		M	GENERIC UTILITY ITEM 3.66M GRAVEL ACCESS ROAD
	87	M		M	GENERIC UTILITY ITEM REMOVE EXISTING SEWER PIPE FROM CULVERT
	913	M		M	GENERIC UTILITY ITEM
	619	M		M	GENERIC UTILITY ITEM #67 BEDDING STONE
	361	M		M	TEMPORARY SILT FENCE
	80	M		MTN	STONE FOR EROSION CONTROL, CLASS A
	91	M		MTN	STONE FOR EROSION CONTROL, CLASS B
6,995	KG	DUCTILE IRON WATER PIPE FITTINGS, 1.72MPA MIN WP	18,250	MTN	SEDIMENT CONTROL STONE
	1	EA		HA	TEMPORARY MULCHING
	1	EA		KG	SEED FOR TEMPORARY SEEDING
	3	EA		MTN	FERTILIZER FOR TEMPORARY SEEDING
	1	EA		M	TEMPORARY SLOPE DRAINS
	13	EA		EA	INLET PROTECTION AT TEMPORARY SLOPE DRAINS
	4	EA		M3	SILT EXCAVATION
	5	EA		M2	SYNTHETIC ROVING
	1	EA		M2	MATting FOR EROSION CONTROL
	1	EA		M2	PERMANENT SOIL REINFORCEMENT MAT
	1	EA		M	6.4MM HARDWARE CLOTH
	1	EA		M	*****MM TEMPORARY PIPE (450MM)
	1	EA		EA	***X***X*****MM PERFORATED CS PIPE TEE RISER, 2.01MM THICK (800MM X 800MM X 800MM)
	3	EA		M3	STILLING BASINS
	1	EA		HA	SEEDING & MULCHING
	1	EA		HA	MOWING
	3	EA		KG	SEED FOR REPAIR SEEDING
	1	EA		MTN	FERTILIZER FOR REPAIR SEEDING
	1	EA		KG	SEED FOR SUPPLEMENTAL SEEDING
	8	EA		MTN	FERTILIZER TOPDRESSING
	9	EA		HA	SPECIALIZED SEEDING UNDER GUIDERAIL & GUARDRAIL (HARD FESCUE/BLUEGRASS)
	5	EA		M	IMPERVIOUS DIKE
	85	M		HR	SPECIALIZED HAND MOWING
	186	M		EA	RESPONSE FOR EROSION CONTROL
	231	M		M3	CULVERT DIVERSION CHANNEL
	136	M		HA	REFORESTATION
	76	M		HA	STREAMBANK REFORESTATION
	1,388	M		EA	GENERIC EROSION CONTROL ITEM ROOTWADS
	868	M		M2	GENERIC EROSION CONTROL ITEM COIR FIBER MATTING
	896	M		M	GENERIC EROSION CONTROL ITEM TREE PROTECTION FENCE
	85	M		M	SIGNAL CABLE
	2,548	KG		EA	VEHICLE SIGNAL HEAD (300MM, 3 SECTION)
	12	EA		EA	VEHICLE SIGNAL HEAD (300MM, 5 SECTION)
	44	EA		EA	LOUVER
	105	M		M	MESSANGER CABLE (*****MM) (6MM)
				M	MESSANGER CABLE (9.52MM)
				M	TRACER WIRE
				M	TRENCHING (PAVED)
				M	TRENCHING (UNPAVED)
				M	DIRECTIONAL DRILL OUTER-DUCT CONDUIT, 125MM
				M	TRENCH MULTI-DUCT, 31.75MM (** CONDUIT) (4)

3,800	M	MULTI-DUCT, 31.75MM IN OUTER-DUCT (** CONDUIT) (4)
27	EA	JUNCTION BOX (STANDARD SIZE)
63	EA	JUNCTION BOX (OVER-SIZED)
29	EA	WOOD POLE
44	EA	GUY ASSEMBLY
6	EA	*****MM RISER WITH ***** (2", HEAT SHRINK TUBING)
20	EA	50MM RISER WITH WEATHERHEAD
2,029	M	INDUCTIVE LOOP SAWCUT
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-)

CULVERT ITEMS

Lump Sum	LS	CULVERT EXCAVATION, STA ***** (102+16.500 -L-)
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-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (85+89.214 -I40 EX-)
2,926.7	MTN	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT
5,904.4	M3	CLASS A CONCRETE (CULVERT)
449,862	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 ***** (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 -RAMP C-)
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-)

STRUCTURE ITEMS

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 -I40 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+34.540 -L- RT)	7,705,500	LS		APPROX KG STRUCTURAL STEEL
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2,73+48.544 -L- LT)	19,170.7	M		HP310X79 STEEL PILES
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,18+86.874 -L SB-)	2,094	M		HP360X108 STEEL PILES
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,22+94.604 -RPCA-)	42	EA		STEEL PILE POINTS
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3,67+72.110 -L-)	159,645	M		THREE BAR METAL RAIL
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (4,67+72.110 -L-)	4,049,742	M		CONCRETE BARRIER RAIL
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (109+17.439 -L NB-)	18,137.4	M2		100MM SLOPE PROTECTION
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (11+74.251 -RP AC-)		Lump Sum	LS	POT BEARINGS
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (110+26.064 -L NB-)		Lump Sum	LS	ELASTOMERIC BEARINGS
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (115+44.291 -L NB-)		Lump Sum	LS	EVAZOTE JOINT SEALS
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (120+49.924 -L-LT)		Lump Sum	LS	EXPANSION JOINT SEALS
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (120+49.924 -L-RT)		Lump Sum	LS	MODULAR EXPANSION JOINT SEALS
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (135+86.839 -L-LT)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (135+86.839 -L-RT)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (16+02.423 -RPBD-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (18+08.293 -RP AC-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (18+86.874 -L SB-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (19+61.051 -RPCA-)				
Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (19+85.137 -RPBD-)				
18.2	M	****MM DIA DRILLED PIERS IN SOIL (1372MM)				
14.8	M	****MM DIA DRILLED PIERS NOT IN SOIL (1372MM)				
36,209.9	M2	REINFORCED CONCRETE DECK SLAB				
33,622.7	M2	GROOVING BRIDGE FLOORS				
5,688.5	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 ***** (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-)				

**N.C. DEPARTMENT OF TRANSPORTATION
1591 MAIL SERVICE CENTER
RALEIGH, N.C. 27699-1591**

FIRST CLASS MAIL

INVITATION TO BID FOR JUNE 17 , 2003 HIGHWAY LETTING