



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

February 20, 2018

NOTICE TO: All Prequalified Contractors

FROM: Ronald E Davenport, PE
State Contract Officer

DocuSigned by:
Ronald E. Davenport, Jr.
F81B6038A47A442...

SUBJECT: Combined Contract Goal for MBE/WBE Participation on State-Funded Projects

Effective April 1, 2018, all state funded contracts will be advertised with one combined goal that is comprised of both the MBE and WBE participation anticipated for the project. The **Combined MBE/WBE Goal** may be met with all MBE or WBE participation, or any combination of MBE and WBE participation.

When entering this information in Expedite Bid, users will not see the words "Combined MBE/WBE" in which to enter their participation value, but will enter the value under "DBE".

For assistance in participation entry in Expedite, please contact Ms. Jaci Kincaid at 919-707-6920 or jakincaid@ncdot.gov.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONSTRUCTION UNIT
1543 MAIL SERVICE CENTER
RALEIGH, NC 27699-1543

Telephone: (919) 707-2400
Fax: (919) 733-8441
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH, NC 27601



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

December 7, 2017

To Whom It May Concern:

In an effort to maximize transparency and competition on Department projects, starting January 1, 2018, NCDOT will make all requests for plans or proposals for purposes of bidding public. NCDOT will no longer give the option of the name being withheld from the Planholder's list. This change is reflected in the Section 102-3 of the 2018 Standard Specifications for Roads and Structures that will be effective January 1, 2018.

Sincerely,

A handwritten signature in black ink, appearing to read "R. E. Davenport", written over a horizontal line.

Ronald E. Davenport, PE
State Contract Officer

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT
1591 MAIL SERVICE CENTER
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900
Fax: (919) 250-4127
Customer Service: 1-877-368-4968

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

Website: www.ncdot.gov



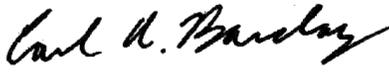
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

November 15, 2017

NOTICE TO: All Prequalified Contractors

FROM: Carl Barclay, PE 
State Utilities Manager

SUBJECT: Design and Certification of Trenchless Installations (all methods)

Through the AGC/NCDOT Roadway Subcommittee, it has been determined there is little consistency with the enforcement of this requirement. This has resulted in some Contractors not accounting for this expense in their bid. In an effort to improve consistency and fairness among bidders, the Department will enforce this longstanding requirement of the North Carolina Board of Examiners for Engineers and Land Surveyors and NC GS Chapter 89C.

Effective with the January 2018 letting, there will be a renewed effort of enforcement of Articles 1550-1 and 1550-3(B) of the *Standard Specifications for Roads and Structures*, Section 1550-1 requires:

An engineer licensed by the State of North Carolina shall design the method and certify the work will not damage the roadway above or endanger the roadway user.

Article 1550-3(B) requires:

Before construction, provide detailed plans for the method of installation certified by an engineer licensed by the State of North Carolina. Provide certified calculations demonstrating the method of installation as safe and of minimal risk. Provide certified calculations of the structural adequacy of all materials. The design shall meet AASHTO LRFD Bridge Design Specifications. An engineer licensed by the State of North Carolina shall certify changes or modifications to the designed method as needed for actual field conditions.

If you have any questions, please do not hesitate to contact me at cbarclay@ncdot.gov or (919) 707-6982.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
UTILITIES UNIT
1555 MAIL SERVICE CENTER
RALEIGH NC 27699-1555

TELEPHONE: 919-707-6690
FAX: 919-250-4151
CUSTOMER SERVICE: 1-877-368-4968

WEBSITE: WWW.NCDOT.GOV

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

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

ELECTRONIC BIDS (UNLESS OTHERWISE SPECIFIED IN THE PROJECT SPECIAL PROVISION) FOR THE CONSTRUCTION OF THE FOLLOWING PROJECTS WILL BE PUBLICLY READ IN ROOM 156-A/B, THE CONTRACT STANDARDS AND DEVELOPMENT UNIT LARGE CONFERENCE ROOM, LOCATED IN BUILDING B AT 1020 BIRCH RIDGE DRIVE, RALEIGH, N.C. AT **2:00 PM** ON JULY 17, 2018. NO ELECTRONIC BIDS WILL BE RECEIVED AFTER 2.00 PM.

1. THE BIDDER SHALL PURCHASE A PROPOSAL FOR EACH PROJECT FOR WHICH HE INTENDS TO SUBMIT A BID IN RESPONSE TO THIS INVITATION TO BID.
2. A BID BOND OR BID DEPOSIT IN THE AMOUNT OF 5% OF THE TOTAL AMOUNT BID WILL BE REQUIRED. THE BIDDER SHALL SUBMIT AN ELECTRONIC BID BOND WITH EACH ELECTRONIC BID SUBMITTAL UNLESS HE ELECTS TO FURNISH A BID DEPOSIT.
3. UPON RECEIPT OF AWARD LETTER, THE SUCCESSFUL BIDDER SHALL FURNISH A PROPERLY EXECUTED EXECUTION OF CONTRACT, NON-COLLUSION, DEBARMENT AND GIFT BAN CERTIFICATION, AND EXECUTED PAYMENT AND PERFORMANCE BONDS FOR EACH CONTRACT. CERTIFICATION FORMS AND BOND FORMS ARE AVAILABLE AS PART OF THE CONTRACT EXECUTION FORMS AT THE FOLLOWING WEBSITE <https://connect.ncdot.gov/letting/Pages/Central-Letting-Forms.aspx>.

ALL QUESTIONS RELATED TO PROJECTS DURING THE ADVERTISEMENT PERIOD SHALL BE ADDRESSED TO THE STATE CONTRACT OFFICER AT 919-707-6900.

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. ON FEDERAL PROJECTS, THE APPROPRIATE CONTRACTORS LICENSE SHALL BE OBTAINED WITHIN 60 DAYS OF BID OPENING. FOR ADDITIONAL INFORMATION OR TO MAKE APPLICATION FOR A LICENSE, APPLY TO THE EXECUTIVE SECRETARY OF THE CONTRACTOR LICENSING BOARD, P.O. BOX 17187, RALEIGH, NC 27619, (919-571-4183).

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

THE DEPARTMENT OF TRANSPORTATION HEREBY NOTIFIES ALL BIDDERS THAT IT WILL AFFIRMATIVELY ENSURE 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 (919-707-6925), FAXING (919-250-4127), OR WRITING TO: PLANS AND PROPOSALS, CONTRACT STANDARDS AND DEVELOPMENT UNIT, DEPARTMENT OF TRANSPORTATION, 1020 BIRCH RIDGE DRIVE, RALEIGH, N.C., 27610. 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 6.75% SALES TAX. ORDERS MAILED TO OUT OF STATE CONTRACTORS ARE NOT SUBJECT TO SALES TAX. MAKE ALL CHECKS PAYABLE TO THE "**N.C. DEPARTMENT OF TRANSPORTATION**".

THE RIGHT IS RESERVED TO REJECT ANY OR ALL BIDS.

**TODAY'S DATE IS JUNE 19, 2018.
BY ORDER OF THE DEPARTMENT OF TRANSPORTATION
(THE WORK WILL CONSIST APPROXIMATELY AS SHOWN ON THE FOLLOWING SHEETS)**

(Revised on 08 Nov 2017)

REVIEW OF PLANS AND PROPOSALS IN DIVISION OFFICE

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

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

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

<u>DIV NO.</u>	<u>DIVISION ENGINEER</u>	<u>LOCATION</u>	<u>TOWN</u>	<u>TELEPHONE</u>
00001	Jerry Jennings, PE	113 AIRPORT DRIVE, SUITE 100	EDENTON	(252) 482-1850
00002	R. Preston Hunter, PE	PO BOX 1587	GREENVILLE	(252) 439-2800
00003	Karen Eason Collette, PE	5501 BARBADOS BLVD	CASTLE HAYNE	(910) 341-2000
00004	Ronald L Keeter, Jr., PE	PO BOX 3165	WILSON	(252) 237-6164
00005	Joseph R Hopkins, PE	2612 NORTH DUKE STREET	DURHAM	(919) 220-4600
00006	Gregory W Burns, PE	PO BOX 1150	FAYETTEVILLE	(910) 486-1493
00007	James M Mills, PE	PO BOX 14996	GREENSBORO	(336) 487-0000
00008	Brandon H Jones, PE	902 N. SANDHILLS BLVD.	ABERDEEN	(910) 944-2344
00009	S. Pat Ivey, PE	375 SILAS CREEK PARKWAY	WINSTON-SALEM	(336) 747-7800
00010	J. Scott Cole, PE	716 WEST MAIN STREET	ALBEMARLE	(704) 983-4400
00011	Michael A Pettyjohn, PE	PO BOX 250	NORTH WILKESBORO	(336) 903-9101
00012	Mark E Stafford, PE	PO BOX 47	SHELBY	(704) 480-5400
00013	Jay J Swain, PE	PO BOX 3279	ASHEVILLE	(828) 251-6171
00014	Brian C Burch, PE	253 WEBSTER ROAD	SYLVA	(828) 586-2141

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

Bid Letting Number L180717

RPN	Contract Id	WBS	County	Length	JobType
001	C204212	2019CPT.01.01.10081.1 ETC.	BERTIE, HERTFORD, NORTHAMPTON	32.000 MI	MILLING, RESURFACING, AND SHOULDER RECONSTRUCTION.
002	C204201	2019CPT.03.01.10311 ETC.	DUPLIN	18.970 MI	MILLING, RESURFACING & SHOULDER RECONSTRUCTION.
003	C204199	2020CPT.05.01.10351.1	FRANKLIN	11.820 MI	MILLING, RESURFACING, SIGNALS, & SHOULDER RECONSTRUCTION.
004	C204105	34506.3.12	FRANKLIN, WAKE	6.595 MI	GRADING, DRAINAGE, PAVING, SIGNALS, AND CULVERT.
005	C204107	39049.3.1	CUMBERLAND	6.231 MI	GRADING, DRAINAGE, PAVING, SIGNALS, WALLS, AND STRUCTURES.
006	C204106	34900.3.4	ALAMANCE	1.424 MI	GRADING, DRAINAGE, PAVING, AND STRUCTURE.
007	C204104	42376.3.1 ETC.	MECKLENBURG	1.226 MI	GRADING, DRAINAGE, PAVING, SIGNALS, RET WALLS, & STRUCTURE.

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L180717 001

CONTRACT ID : C204212 2019CPT.01.01.10081.1 DIV OFFICE EDENTON

LENGTH = 32.000 MI

COUNTY : BERTIE, HERTFORD, NORTHAMPTON

MILLING, RESURFACING, AND SHOULDER RECONSTRUCTION.

DBE GOAL 5.0% COMPLETION DATE : JUN 26 2020

5 SECTIONS OF NC-308, 3 SECTIONS OF NC-35, 2 SECTIONS OF US-13, AND 1 SECTION OF NC-305 AND NC-11.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
975	CY	BORROW EXCAVATION
1,275	TON	INCIDENTAL STONE BASE
9.68	SMI	SHOULDER RECONSTRUCTION
512,125	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")
11,150	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0C
47,440	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
3,591	TON	ASPHALT BINDER FOR PLANT MIX
250	TON	PATCHING EXISTING PAVEMENT
11	EA	ADJUSTMENT OF MANHOLES
11	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
3,484	SF	WORK ZONE ADVANCE/GENERAL WARNING SIGNING
Lump Sum	LS	TEMPORARY TRAFFIC CONTROL
330,128	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
220,167	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
1,100	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)
100	LF	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)
575	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
40	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
25	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
622,798	LF	PAINT PAVEMENT MARKING LINES (4")
100	LF	PAINT PAVEMENT MARKING LINES (16")
575	LF	PAINT PAVEMENT MARKING LINES (24")
40	EA	PAINT PAVEMENT MARKING CHARAC- TER
25	EA	PAINT PAVEMENT MARKING SYMBOL
1,380	LF	POLYUREA PAVEMENT MARKING LINES (4", 30 MILS)
1,380	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
2,141	EA	SNOWPLOWABLE PAVEMENT MARKERS
625	LF	TEMPORARY SILT FENCE
500	LF	COIR FIBER WATTLE
6	ACR	SEEDING & MULCHING
750	LF	INDUCTIVE LOOP SAWCUT
200	LF	LEAD-IN CABLE (***** (14-2)

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L180717 002

CONTRACT ID : C204201 2019CPT.03.01.10311 DIV OFFICE CASTLE HAYNE

LENGTH = 18.970 MI

COUNTY : DUPLIN

MILLING, RESURFACING & SHOULDER RECONSTRUCTION.

DBE GOAL 5.0% COMPLETION DATE : AUG 31 2019

1 SECTION OF NC-50 AND 9 SECTIONS OF SECONDARY ROADS.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
436	CY	BORROW EXCAVATION
1,270	TON	INCIDENTAL STONE BASE
3.72	SMI	SHOULDER RECONSTRUCTION
307	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1")
10,325	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")
3,816	SY	INCIDENTAL MILLING
1,405	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0C
24,868	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
450	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B (LEVELING COURSE)
1,762	TON	ASPHALT BINDER FOR PLANT MIX
12,807	SY	ASPHALT SURFACE TREATMENT, MAT COAT, #6 STONE
4,485	GAL	EMULSION FOR ASPHALT SURFACE TREATMENT
577	TON	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (FULL DEPTH)
610	TON	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT (MILL)
430	TON	GENERIC PAVING ITEM PATCHING EXISTING PAVEMENT 119.0C (MILL)
625	LF	GENERIC DRAINAGE ITEM REMOVE & REPLACE 2'-6" CURB & GUTTER
154	SY	6" CONCRETE DRIVEWAY
8	EA	ADJUSTMENT OF MANHOLES
6	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
2,208	SF	WORK ZONE ADVANCE/GENERAL WARNING SIGNING
Lump Sum	LS	TEMPORARY TRAFFIC CONTROL
19,642	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
14,462	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
2	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
597,645	LF	PAINT PAVEMENT MARKING LINES (4")
200	LF	PAINT PAVEMENT MARKING LINES (16")
224	LF	PAINT PAVEMENT MARKING LINES (24")
8	EA	PAINT PAVEMENT MARKING CHARAC- TER
1	EA	PAINT PAVEMENT MARKING SYMBOL
1,252	EA	PERMANENT RAISED PAVEMENT MARKERS
190	LF	TEMPORARY SILT FENCE
48	TON	STONE FOR EROSION CONTROL, CLASS B
48	TON	SEDIMENT CONTROL STONE
1.9	ACR	TEMPORARY MULCHING
95	LB	SEED FOR TEMPORARY SEEDING
0.48	TON	FERTILIZER FOR TEMPORARY SEED- ING
20	SY	MATTING FOR EROSION CONTROL
95	LF	1/4" HARDWARE CLOTH
30	LF	WATTLE
1.84	ACR	SEEDING & MULCHING
95	LB	SEED FOR REPAIR SEEDING
0.48	TON	FERTILIZER FOR REPAIR SEEDING
2	EA	RESPONSE FOR EROSION CONTROL

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L180717 003

CONTRACT ID : C204199 2020CPT.05.01.10351.1 DIV OFFICE DURHAM

LENGTH = 11.820 MI

COUNTY : FRANKLIN

MILLING, RESURFACING, SIGNALS, & SHOULDER RECONSTRUCTION.

DBE GOAL 7.0% COMPLETION DATE : NOV 30 2019

1 SECTION OF US-1.

ROADWAY ITEMS

Lump Sum	LS	MOBILIZATION
1,200	SY	GEOTEXTILE FOR SOIL STABILIZATION
46.53	SMI	GENERIC GRADING ITEM
400	CY	SHOULDER GRADING
800	TON	SHALLOW UNDERCUT
1,168	TON	CLASS IV SUBGRADE STABILIZATION
2,870	TON	INCIDENTAL STONE BASE
234,341	SY	AGGREGATE SHOULDER BORROW
369	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")
1,503	SY	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 1/2")
20,813	SY	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 1-1/2")
50,811	TON	INCIDENTAL MILLING
3,048	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
1,503	TON	ASPHALT BINDER FOR PLANT MIX
7	EA	PATCHING EXISTING PAVEMENT
2,646	SF	ADJUSTMENT OF DROP INLETS
Lump Sum	LS	WORK ZONE ADVANCE/GENERAL WARNING SIGNING
240	HR	TEMPORARY TRAFFIC CONTROL
248,448	LF	LAW ENFORCEMENT
60,177	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
4,896	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
1,041	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
50	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)
1,255	LF	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)
2	EA	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
310	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
1,487	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
152,912	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)
2,602	LF	PAINT PAVEMENT MARKING LINES (4")
667	LF	PAINT PAVEMENT MARKING LINES (8")
148	EA	PAINT PAVEMENT MARKING LINES (24")
1,487	EA	PAINT PAVEMENT MARKING SYMBOL
2,256	EA	REMOVAL OF PAVEMENT MARKING LINES (4")
Lump Sum	LS	SNOWPLOWABLE PAVEMENT MARKERS
986	LF	PORTABLE LIGHTING
	LF	INDUCTIVE LOOP SAWCUT

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L180717 004

CONTRACT ID : C204105 34506.3.12

DIV OFFICE FAYETTEVILLE

LENGTH = 6.595 MI

COUNTY : FRANKLIN, WAKE

GRADING, DRAINAGE, PAVING, SIGNALS, AND CULVERT.

DBE GOAL 10.0% COMPLETION DATE : DEC 12 2022

US-401 FROM NC-96 TO SR-1103 (FLAT ROCK CHURCH RD/CLIFTON POND RD).

ROADWAY ITEMS					
			2	EA	*** CS PIPE ELBOWS, ***** THICK (18", 0.064")
			2	EA	*** CS PIPE ELBOWS, ***** THICK (24", 0.064")
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING			
Lump Sum	LS	CLEARING & GRUBBING . ACRE(S)	4,927	LF	PIPE REMOVAL
3	ACR	SUPPLEMENTARY CLEARING & GRUBBING	4	EA	PIPE CLEAN OUT
9	EA	SEALING ABANDONED WELLS	Lump Sum	LS	FINE GRADING
2,400	CY	DRAINAGE DITCH EXCAVATION	91,480	SY	LIME TREATED SOIL (SLURRY METHOD)
1,500	LF	BERM DITCH CONSTRUCTION	920	TON	LIME FOR LIME TREATED SOIL
50,110	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT	3,060	TON	#57 STONE
50	HR	PROOF ROLLING	1,300	CY	SHALLOW UNDERCUT
10,500	CY	SELECT GRANULAR MATERIAL	2,700	TON	CLASS IV SUBGRADE STABILIZATION
24,600	SY	GEOTEXTILE FOR SOIL STABILIZATION	500	TON	STABILIZER AGGREGATE
5,050	SF	TEMPORARY SHORING	4,200	SY	GEOTEXTILE FOR PAVEMENT STABILIZATION
9,960	TON	ROCK EMBANKMENTS	137,220	SY	SOIL CEMENT BASE
5,620	SY	GEOTEXTILE FOR ROCK EMBANKMENTS	3,774	TON	PORTLAND CEMENT FOR SOIL CEMENT BASE
80	SY	ROCK PLATING	34,310	GAL	ASPHALT CURING SEAL
1,000	TON	GENERIC GRADING ITEM	2,000	TON	INCIDENTAL STONE BASE
		HAULING AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	6,300	SY	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 6")
2,700	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	1,540	SY	INCIDENTAL MILLING
8,480	SY	FOUNDATION CONDITIONING GEOTEXTILE	61,840	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
3,276	LF	15" SIDE DRAIN PIPE	4,080	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
672	LF	18" SIDE DRAIN PIPE	45,120	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
232	LF	24" SIDE DRAIN PIPE	670	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR
10,012	LF	**** RC PIPE CULVERTS, CLASS ***** (15", V)	179	EA	RIGHT-OF-WAY MARKERS
1,672	LF	**** RC PIPE CULVERTS, CLASS ***** (18", V)	20	EA	CONTROL-OF-ACCESS MARKERS
1,044	LF	**** RC PIPE CULVERTS, CLASS ***** (24", V)	580	CY	SUBDRAIN EXCAVATION
716	LF	**** RC PIPE CULVERTS, CLASS ***** (30", V)	290	CY	SUBDRAIN FINE AGGREGATE
956	LF	15" RC PIPE CULVERTS, CLASS III	1,700	LF	6" PERFORATED SUBDRAIN PIPE
668	LF	18" RC PIPE CULVERTS, CLASS III	4	EA	SUBDRAIN PIPE OUTLET
308	LF	24" RC PIPE CULVERTS, CLASS III	24	LF	6" OUTLET PIPE
992	LF	30" RC PIPE CULVERTS, CLASS III	26,890	LF	SHOULDER DRAIN
480	LF	36" RC PIPE CULVERTS, CLASS III	26,890	LF	4" SHOULDER DRAIN PIPE
176	LF	54" RC PIPE CULVERTS, CLASS III	1,980	LF	4" OUTLET PIPE FOR SHOULDER DRAINS
264	LF	66" RC PIPE CULVERTS, CLASS III	100	EA	CONCRETE PAD FOR SHOULDER DRAIN PIPE OUTLET
976	LF	15" RC PIPE CULVERTS, CLASS IV	15	TON	BLOTTING SAND
480	LF	18" RC PIPE CULVERTS, CLASS IV	6.8	CY	ENDWALLS
888	LF	24" RC PIPE CULVERTS, CLASS IV	11.4	CY	REINFORCED ENDWALLS
536	LF	30" RC PIPE CULVERTS, CLASS IV	23	CY	FLOWABLE FILL
152	LF	36" RC PIPE CULVERTS, CLASS IV	249	EA	MASONRY DRAINAGE STRUCTURES
24	LF	6" CS PIPE CULVERTS, 0.064" THICK (SPRING BOX)	4	CY	MASONRY DRAINAGE STRUCTURES
48	LF	*** CS PIPE CULVERTS, ***** THICK (36", 0.079")	45.9	LF	MASONRY DRAINAGE STRUCTURES
700	LF	15" CS PIPE CULVERTS, 0.064" THICK	38	EA	FRAME WITH TWO GRATES, STD 840.16
144	LF	18" CS PIPE CULVERTS, 0.064" THICK	41	EA	FRAME WITH TWO GRATES, STD 840.20
48	LF	24" CS PIPE CULVERTS, 0.064" THICK	57	EA	FRAME WITH TWO GRATES, STD 840.22
15	EA	*** CS PIPE ELBOWS, ***** THICK (15", 0.064")	3	EA	FRAME WITH TWO GRATES, STD 840.24
			3	EA	FRAME WITH TWO GRATES, STD 840.29
			8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
			38	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
			56	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
			4	EA	FRAME WITH COVER, STD 840.54
			62	EA	CONCRETE TRANSITIONAL SECTION FOR DROP INLET

			39,300	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
			700	LF	REMOVAL OF PAVEMENT MARKING LINES (24")
4,080	LF	***.** CONCRETE CURB & GUTTER (2'-9")	55	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS
16,290	LF	1'-6" CONCRETE CURB & GUTTER	3,190	EA	SNOWFLOWABLE PAVEMENT MARKERS
22,910	LF	2'-6" CONCRETE CURB & GUTTER	623	LF	4" WATER LINE
1,860	LF	SHOULDER BERM GUTTER	495	LF	8" WATER LINE
1,230	LF	CONCRETE EXPRESSWAY GUTTER	1,314	LF	12" WATER LINE
1,360	SY	6" CONCRETE DRIVEWAY	5,070	LB	DUCTILE IRON WATER PIPE FITTINGS
33	SY	4" CONCRETE PAVED DITCH	2	EA	4" VALVE
8,360	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	1	EA	12" VALVE
1	EA	ADJUSTMENT OF DROP INLETS	2	EA	8" TAPPING SLEEVE & VALVE
6,625	LF	STEEL BEAM GUARDRAIL	2	EA	10" TAPPING SLEEVE & VALVE
300	LF	STEEL BEAM GUARDRAIL, SHOP CURVED	1	EA	4" BLOW OFF
20	EA	ADDITIONAL GUARDRAIL POSTS	1	EA	8" BLOW OFF
2	EA	GUARDRAIL END UNITS, TYPE AT-1	1	EA	2" WATER METER
19	EA	GUARDRAIL END UNITS, TYPE CAT-1	1	EA	RELOCATE WATER METER
19	EA	GUARDRAIL END UNITS, TYPE TL-3	718	LF	ABANDON 8" UTILITY PIPE
100	LF	REMOVE EXISTING GUARDRAIL	881	LF	ABANDON 12" UTILITY PIPE
1,400	LF	TEMPORARY STEEL BEAM GUARDRAIL	138	LF	30" ENCASEMENT PIPE
6	EA	TEMPORARY GUARDRAIL END UNITS, TYPE ***** (TL-3)	138	LF	BORE AND JACK OF *** (30")
70,630	LF	WOVEN WIRE FENCE, 47" FABRIC	315	LF	DIRECTIONAL DRILLING OF *** (8")
3,987	EA	4" TIMBER FENCE POSTS, 7'-6" LONG	70,840	LF	TEMPORARY SILT FENCE
1,953	EA	5" TIMBER FENCE POSTS, 8'-0" LONG	3,050	TON	STONE FOR EROSION CONTROL, CLASS A
1,730	TON	RIP RAP, CLASS I	15,420	TON	STONE FOR EROSION CONTROL, CLASS B
680	TON	RIP RAP, CLASS II	18,855	TON	SEDIMENT CONTROL STONE
1,330	TON	RIP RAP, CLASS A	25	ACR	TEMPORARY MULCHING
3,520	TON	RIP RAP, CLASS B	1,300	LB	SEED FOR TEMPORARY SEEDING
13,510	SY	GEOTEXTILE FOR DRAINAGE	7	TON	FERTILIZER FOR TEMPORARY SEEDING
4,300	LF	SUPPORTS, 3-LB STEEL U-CHANNEL	4,005	LF	TEMPORARY SLOPE DRAINS
9	EA	SIGN ERECTION, TYPE D	7,000	LF	SAFETY FENCE
165	EA	SIGN ERECTION, TYPE E	45,110	CY	SILT EXCAVATION
52	EA	SIGN ERECTION, TYPE F	254,810	SY	MATTING FOR EROSION CONTROL
10	EA	SIGN ERECTION, RELOCATE TYPE ***** (GROUND MOUNTED) (E)	615	SY	COIR FIBER MAT
66	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	12,720	LF	1/4" HARDWARE CLOTH
10	EA	DISPOSAL OF SUPPORT, U-CHANNEL	290	LF	*** TEMPORARY PIPE (24")
1,701	SF	WORK ZONE SIGNS (STATIONARY)	315	LF	*** TEMPORARY PIPE (36")
416	SF	WORK ZONE SIGNS (PORTABLE)	484	LF	*** TEMPORARY PIPE (42")
326	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	124	LF	*** TEMPORARY PIPE (48")
2	EA	FLASHING ARROW BOARD	150	LF	TEMPORARY PIPE FOR STREAM CROSSING
2	EA	PORTABLE CHANGEABLE MESSAGE SIGN	380	SY	FLOATING TURBIDITY CURTAIN
675	EA	DRUMS	2,400	CY	STILLING BASINS
26	EA	SEQUENTIAL FLASHING WARNING LIGHTS	12	EA	SPECIAL STILLING BASINS
50	EA	CONES	4,120	LF	COIR FIBER WATTLE
360	LF	BARRICADES (TYPE III)	3,925	LB	POLYACRYLAMIDE (PAM)
600	DAY	FLAGGER	9,665	LF	COIR FIBER BAFFLE
10	EA	TEMPORARY CRASH CUSHIONS	49	EA	*** SKIMMER (1-1/2")
4	EA	REMOVE & RESET TEMPORARY CRASH CUSHION	2	EA	*** SKIMMER (2")
2	EA	TMA	30	ACR	SEEDING & MULCHING
2,880	LF	PORTABLE CONCRETE BARRIER	20	ACR	MOWING
1,100	LF	REMOVE & RESET PORTABLE CONCRETE BARRIER	250	LB	SEED FOR REPAIR SEEDING
240	HR	LAW ENFORCEMENT	1.5	TON	FERTILIZER FOR REPAIR SEEDING
200	EA	SKINNY DRUM	825	LB	SEED FOR SUPPLEMENTAL SEEDING
30	EA	TUBULAR MARKERS (FIXED)	24.5	TON	FERTILIZER TOPDRESSING
2,800	EA	TEMPORARY RAISED PAVEMENT MARKERS	1,428	LF	IMPERVIOUS DIKE
168,503	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	30	MHR	SPECIALIZED HAND MOWING
38,124	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	100	EA	RESPONSE FOR EROSION CONTROL
28,034	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	15	EA	CONCRETE WASHOUT STRUCTURE
579	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	867	CY	CULVERT DIVERSION CHANNEL
52	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	26	ACR	REFORESTATION
222	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	11,000	LF	SIGNAL CABLE
692,770	LF	PAINT PAVEMENT MARKING LINES (4")	66	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
4,860	LF	PAINT PAVEMENT MARKING LINES (8")	5	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)
2,630	LF	PAINT PAVEMENT MARKING LINES (24")	2,700	LF	MESSENGER CABLE (3/8")
171	EA	PAINT PAVEMENT MARKING SYMBOL	325	LF	PAVED TRENCHING (***** (1, 2"))
			880	LF	UNPAVED TRENCHING (***** (1, 2"))
			300	LF	UNPAVED TRENCHING (***** (3, 2"))
			4,350	LF	UNPAVED TRENCHING FOR TEMPORARY LEAD-IN
			200	LF	DIRECTIONAL DRILL (***** (1, 2"))

			Lump Sum	LS	CULVERT EXCAVATION, STA ***** (314+63.00-L-)
			1,592	TON	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT
100	LF	DIRECTIONAL DRILL (*****) (2, 2")	2,172.5	CY	CLASS A CONCRETE (CULVERT)
35	EA	JUNCTION BOX (STANDARD SIZE)	282,575	LB	REINFORCING STEEL (CULVERT)
16	EA	WOOD POLE			
32	EA	GUY ASSEMBLY			
4	EA	1" RISER WITH WEATHERHEAD			
15	EA	2" RISER WITH WEATHERHEAD			
6,625	LF	INDUCTIVE LOOP SAWCUT			
20,750	LF	LEAD-IN CABLE (*****) (14-2)			
2	EA	SITE SURVEY			
12	EA	LUMINAIRE ARM FOR VIDEO SYSTEM			
12	EA	CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT			
2	EA	EXTERNAL LOOP EMULATOR PRO- CESSING UNIT			
4	EA	900MHZ SERIAL SPREAD SPECTRUM RADIO			
2	EA	METAL POLE WITH SINGLE MAST ARM			
2	EA	SOIL TEST			
12	CY	DRILLED PIER FOUNDATION			
2	EA	MAST ARM WITH METAL POLE DE- SIGN			
12	EA	SIGN FOR SIGNALS			
4	EA	TYPE II PEDESTAL WITH FOUND- ATION			
4	EA	SIGNAL CABINET FOUNDATION			
4	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)			
4	EA	CONTROLLER WITH CABINET (TYPE 2070L, POLE MOUNTED)			
26	EA	DETECTOR CARD (TYPE 2070L)			
4	EA	CABINET BASE EXTENDER			
4	EA	TRAFFIC SIGNAL REMOVAL			

***** BEGIN SCHEDULE AA *****
***** (2 ALTERNATES) *****

144,000	CY	UNCLASSIFIED EXCAVATION			
12,000	CY	UNDERCUT EXCAVATION			
279,000	CY	BORROW EXCAVATION			
2,775	TON	AGGREGATE BASE COURSE			
75,280	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C			
9,340	TON	ASPHALT BINDER FOR PLANT MIX *** OR ***			
164,000	CY	UNCLASSIFIED EXCAVATION			
11,000	CY	UNDERCUT EXCAVATION			
225,500	CY	BORROW EXCAVATION			
86,200	TON	AGGREGATE BASE COURSE			
38,920	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C			
7,705	TON	ASPHALT BINDER FOR PLANT MIX			

*** END SCHEDULE AA ***

CULVERT ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (107+88.00-L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (137+22.00-L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (168+21.00-L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (21+86.00-Y6-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (283+77.00-L-)
Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (314+63.00-L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (107+88.00-L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (137+22.00-L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (168+21.00-L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (21+86.00-Y6-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (283+77.00-L-)

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L180717 005

CONTRACT ID : C204107 39049.3.1

DIV OFFICE FAYETTEVILLE

LENGTH = 6.231 MI

COUNTY : CUMBERLAND

GRADING, DRAINAGE, PAVING, SIGNALS, WALLS, AND STRUCTURES.

DBE GOAL 10.0% COMPLETION DATE : JAN 28 2023

US-401 (RAEFORD RD) FROM OLD RAEFORD RD TO EAST OF FAIRWAY DR IN FAYETTEVILLE.

ROADWAY ITEMS					
			25,220	LF	15" RC PIPE CULVERTS, CLASS IV
			6,996	LF	18" RC PIPE CULVERTS, CLASS IV
			6,916	LF	24" RC PIPE CULVERTS, CLASS IV
			4,372	LF	30" RC PIPE CULVERTS, CLASS IV
			5,148	LF	36" RC PIPE CULVERTS, CLASS IV
			4,452	LF	42" RC PIPE CULVERTS, CLASS IV
			40	LF	18" CS PIPE CULVERTS, 0.064" THICK
			2	EA	*** CS PIPE ELBOWS, ***** THICK (18", 0.064")
			22	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (30", 0.500")
			46	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (36", 0.500")
			140	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (60", 0.875")
			216	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (72", 1")
			22	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (30", 0.500")
			46	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (36", 0.500")
			140	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (60", 0.875")
			216	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (72", 1")
			30	LF	GENERIC PIPE ITEM 15" CS SLOTTED DRAIN, 0.064" THICK
			950	LF	GENERIC PIPE ITEM 4" PVC SLEEVE
			28,887	LF	PIPE REMOVAL
			4	EA	PIPE CLEAN OUT
			Lump Sum	LS	FINE GRADING
			4,300	CY	SHALLOW UNDERCUT
			9,800	TON	CLASS IV SUBGRADE STABILIZATION
			4,000	TON	INCIDENTAL STONE BASE
			16,490	SY	MILLING ASPHALT PAVEMENT, *** DEPTH (1-1/2")
			15,000	SY	INCIDENTAL MILLING
			13,650	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C
			8,850	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C
			3,070	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
			7,200	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C
			1,685	TON	ASPHALT BINDER FOR PLANT MIX
			14,879.1	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR
			385.4	CY	SUBDRAIN EXCAVATION
			1,600	SY	GEOTEXTILE FOR SUBSURFACE DRAINS
			268.8	CY	SUBDRAIN COARSE AGGREGATE
			1,600	LF	6" PERFORATED SUBDRAIN PIPE
			4	EA	SUBDRAIN PIPE OUTLET
			24	LF	6" OUTLET PIPE
			21	CY	ENDWALLS
			12.6	CY	REINFORCED ENDWALLS
			22.95	CY	PIPE COLLARS
			1.25	CY	PIPE PLUGS
			185	CY	FLOWABLE FILL
			773	EA	MASONRY DRAINAGE STRUCTURES
			98.374	CY	MASONRY DRAINAGE STRUCTURES
			480.5	LF	MASONRY DRAINAGE STRUCTURES
			252	EA	FRAME WITH TWO GRATES, STD 840.16
Lump Sum	LS	MOBILIZATION			
Lump Sum	LS	CONSTRUCTION SURVEYING			
Lump Sum	LS	CLEARING & GRUBBING . ACRE(S)			
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING			
18,000	CY	UNCLASSIFIED EXCAVATION			
Lump Sum	LS	TYPE III REINFORCED APPROACH FILL, STATION ***** (26+78.00 -RPB-)			
3,200	CY	UNDERCUT EXCAVATION			
165,000	CY	BORROW EXCAVATION			
3,740	CY	DRAINAGE DITCH EXCAVATION			
1,880	SY	REMOVAL OF EXISTING ASPHALT PAVEMENT			
3,200	CY	SELECT GRANULAR MATERIAL			
19,300	SY	GEOTEXTILE FOR SOIL STABILIZATION			
40,949.37	SF	TEMPORARY SHORING			
935	SY	ROCK PLATING			
100	TON	GENERIC GRADING ITEM HAULING & DISPOSAL OF PETROLEUM CONTAMINATED SOIL			
20,826.79	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES			
48,703.99	SY	FOUNDATION CONDITIONING GEOTEXTILE			
416	LF	*** DRAINAGE PIPE (54")			
52	LF	*** DRAINAGE PIPE (60")			
52	LF	*** DRAINAGE PIPE (66")			
52	LF	12" DRAINAGE PIPE			
2,656	LF	15" DRAINAGE PIPE			
1,456	LF	18" DRAINAGE PIPE			
468	LF	24" DRAINAGE PIPE			
704	LF	30" DRAINAGE PIPE			
120	LF	36" DRAINAGE PIPE			
824	LF	42" DRAINAGE PIPE			
704	LF	48" DRAINAGE PIPE			
2	EA	*** DRAINAGE PIPE ELBOWS (12")			
2	EA	*** DRAINAGE PIPE ELBOWS (15")			
2	EA	*** DRAINAGE PIPE ELBOWS (24")			
4	EA	*** DRAINAGE PIPE ELBOWS (30")			
2	EA	*** DRAINAGE PIPE ELBOWS (48")			
60	LF	15" SIDE DRAIN PIPE			
100	LF	***** RC PIPE CULVERTS, CLASS ***** (66", V)			
28	LF	15" RC PIPE CULVERTS, CLASS III			
20	LF	48" RC PIPE CULVERTS, CLASS III			
284	LF	60" RC PIPE CULVERTS, CLASS III			
48	LF	66" RC PIPE CULVERTS, CLASS III			
404	LF	72" RC PIPE CULVERTS, CLASS III			
40	LF	***** RC PIPE CULVERTS, CLASS IV (12")			
3,264	LF	***** RC PIPE CULVERTS, CLASS IV (48")			
2,248	LF	***** RC PIPE CULVERTS, CLASS IV (54")			
344	LF	***** RC PIPE CULVERTS, CLASS IV (60")			

			5	EA	DISPOSAL OF SIGN, A OR B (OVERHEAD)	
			2	EA	GENERIC SIGNING ITEM DISPOSAL OF SIGN SYSTEM SPAN WIRE	
12	EA	FRAME WITH TWO GRATES, STD 840.24	346	SF	WORK ZONE SIGNS (STATIONARY)	
27	EA	FRAME WITH TWO GRATES, STD 840.29	384	SF	WORK ZONE SIGNS (PORTABLE)	
58	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	127	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	
193	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	4	EA	FLASHING ARROW BOARD	
199	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	6	EA	PORTABLE CHANGEABLE MESSAGE SIGN	
49	EA	FRAME WITH COVER, STD 840.54	335	EA	DRUMS	
143	EA	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	152	LF	BARRICADES (TYPE III)	
7,970	LF	***X *** CONCRETE CURB (8" X 12")	300	DAY	FLAGGER	
22,170	LF	1'-6" CONCRETE CURB & GUTTER	3	EA	TEMPORARY CRASH CUSHIONS	
69,178.18	LF	2'-6" CONCRETE CURB & GUTTER	4	EA	TMA	
490	LF	SHOULDER BERM GUTTER	403	LF	PORTABLE CONCRETE BARRIER	
64	LF	CONCRETE VALLEY GUTTER	1,290	LF	PORTABLE CONCRETE BARRIER (ANCHORED)	
35,905.85	SY	4" CONCRETE SIDEWALK	100	HR	LAW ENFORCEMENT	
306	EA	CONCRETE CURB RAMPS	128	LF	GENERIC TRAFFIC CONTROL ITEM PEDESTRIAN BARRICADE	
4,908.89	SY	6" CONCRETE DRIVEWAY	58,600	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	
14,770	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	88,560	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	
2,372	LF	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	14,570	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	
12	EA	ADJUSTMENT OF CATCH BASINS	26,900	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	
3	EA	ADJUSTMENT OF DROP INLETS	300	LF	THERMOPLASTIC PAVEMENT MARKING LINES (16", 120 MILS)	
7	EA	ADJUSTMENT OF MANHOLES	7,320	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	
11.01	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	415	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	
4	EA	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX	745	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	
2	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX	233,461	LF	PAINT PAVEMENT MARKING LINES (4")	
3,625	LF	STEEL BEAM GUARDRAIL	38,787	LF	PAINT PAVEMENT MARKING LINES (8")	
5	EA	ADDITIONAL GUARDRAIL POSTS	1,336	LF	PAINT PAVEMENT MARKING LINES (24")	
12	EA	GUARDRAIL END UNITS, TYPE CAT-1	124	EA	PAINT PAVEMENT MARKING CHARACTER	
12	EA	GUARDRAIL END UNITS, TYPE TL-3	1,376	EA	PAINT PAVEMENT MARKING SYMBOL	
5	EA	GUARDRAIL ANCHOR UNITS, TYPE B-77	2,850	EA	PERMANENT RAISED PAVEMENT MARKERS	
1,101	LF	REMOVE EXISTING GUARDRAIL	Lump Sum	LS	PORTABLE LIGHTING	
1,600	LF	WOVEN WIRE FENCE, 47" FABRIC	619	LF	2" WATER LINE	
98	EA	4" TIMBER FENCE POSTS, 7'-6" LONG	1,324	LF	6" WATER LINE	
30	EA	5" TIMBER FENCE POSTS, 8'-0" LONG	13,019.07	LF	8" WATER LINE	
573	LF	CHAIN LINK FENCE, *** FABRIC (72")	13,252.27	LF	12" WATER LINE	
56	EA	METAL LINE POSTS FOR *** CHAIN LINK FENCE (72")	880	LF	16" WATER LINE	
49	EA	METAL TERMINAL POSTS FOR *** CHAIN LINK FENCE (72")	14,230	LF	24" WATER LINE	
310	TON	RIP RAP, CLASS I	7,842	LF	30" WATER LINE	
2,800	TON	RIP RAP, CLASS II	327,584.15	LB	DUCTILE IRON WATER PIPE FITTINGS	
100	TON	RIP RAP, CLASS B	38	EA	2" VALVE	
5,000	SY	GEOTEXTILE FOR DRAINAGE	124	EA	6" VALVE	
2	CY	REINFORCED CONCRETE SIGN FOUNDATIONS	59	EA	8" VALVE	
1	CY	PLAIN CONCRETE SIGN FOUNDATIONS	28	EA	12" VALVE	
18	CY	OVERHEAD FOOTING	1	EA	16" VALVE	
2,196	LB	SUPPORTS, BREAKAWAY STEEL BEAM	18	EA	24" VALVE	
6,650	LF	SUPPORTS, 3-LB STEEL U-CHANNEL	5	EA	30" VALVE	
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (12+74 -RPB-)	3	EA	6" TAPPING SLEEVE & VALVE	
7	EA	SIGN ERECTION, TYPE D	4	EA	8" TAPPING SLEEVE & VALVE	
469	EA	SIGN ERECTION, TYPE E	3	EA	12" TAPPING SLEEVE & VALVE	
44	EA	SIGN ERECTION, TYPE F	8	EA	24" TAPPING SLEEVE & VALVE	
4	EA	SIGN ERECTION, TYPE *** (OVERHEAD) (A)	2	EA	*** BLOW OFF (1")	
4	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	5	EA	2" BLOW OFF	
69	EA	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (D)	173	EA	RELOCATE WATER METER	
2	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	6	EA	RECONNECT WATER METER	
279	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	1	EA	RELOCATE *** DCV BACKFLOW PREVENTION ASSEMBLY (1")	
69	EA	DISPOSAL OF SUPPORT, U-CHANNEL	2	EA	RELOCATE 2" DCV BACKFLOW PREVENTION ASSEMBLY	
			2	EA	RELOCATE 6" DCV BACKFLOW PREVENTION ASSEMBLY	
			110	EA	FIRE HYDRANT	
			7	EA	RELOCATE FIRE HYDRANT	
			1,687.5	LF	FIRE HYDRANT LEG	
			2	EA	24" LINE STOP	
			837.01	LF	*** WATER SERVICE LINE (2")	
			1,862	LF	WATER SERVICE LINE	
			1,731.5	LF	8" SANITARY GRAVITY SEWER	
			90	LF	10" SANITARY GRAVITY SEWER	

			1,850	TON	STONE FOR EROSION CONTROL, CLASS A
			3,100	TON	STONE FOR EROSION CONTROL, CLASS B
2,934.75	LF	12" SANITARY GRAVITY SEWER	13,050	TON	SEDIMENT CONTROL STONE
302.39	LF	16" SANITARY GRAVITY SEWER	60	ACR	TEMPORARY MULCHING
68	EA	SANITARY SEWER CLEAN-OUT	3,000	LB	SEED FOR TEMPORARY SEEDING
3,018.52	LF	SEWER SERVICE LINE	16	TON	FERTILIZER FOR TEMPORARY SEEDING
30	EA	4' DIA UTILITY MANHOLE	2,000	LF	TEMPORARY SLOPE DRAINS
2	EA	5' DIA UTILITY MANHOLE	200	LF	SAFETY FENCE
165.39	LF	UTILITY MANHOLE WALL 4' DIA	6,000	CY	SILT EXCAVATION
11.41	LF	UTILITY MANHOLE WALL 5' DIA	60,000	SY	MATTING FOR EROSION CONTROL
100	LF	ABANDON *** UTILITY PIPE (15")	100	SY	COIR FIBER MAT
877.01	LF	ABANDON *** UTILITY PIPE (2")	300	SY	PERMANENT SOIL REINFORCEMENT MAT
10,065.01	LF	ABANDON 6" UTILITY PIPE	51,600	LF	1/4" HARDWARE CLOTH
2,569.66	LF	ABANDON 8" UTILITY PIPE	100	SY	LOW PERMEABILITY GEOTEXTILE
15,017.01	LF	ABANDON 12" UTILITY PIPE	50	SY	FLOATING TURBIDITY CURTAIN
665.01	LF	ABANDON 16" UTILITY PIPE	557	CY	STILLING BASINS
12,106	LF	ABANDON 24" UTILITY PIPE	20	EA	SPECIAL STILLING BASINS
5	EA	REMOVE WATER METER	7,320	LF	COIR FIBER WATTLE
37	EA	REMOVE FIRE HYDRANT	4,515	LB	POLYACRYLAMIDE (PAM)
6	EA	ABANDON UTILITY MANHOLE	2,200	LF	COIR FIBER BAFFLE
3.01	EA	REMOVE UTILITY MANHOLE	5	EA	*** SKIMMER (1-1/2")
102	LF	*** ENCASEMENT PIPE (4")	52	ACR	SEEDING & MULCHING
125	LF	*** ENCASEMENT PIPE (42")	26	ACR	MOWING
75.01	LF	12" ENCASEMENT PIPE	750	LB	SEED FOR REPAIR SEEDING
298	LF	16" ENCASEMENT PIPE	2.25	TON	FERTILIZER FOR REPAIR SEEDING
648.01	LF	24" ENCASEMENT PIPE	1,250	LB	SEED FOR SUPPLEMENTAL SEEDING
414	LF	30" ENCASEMENT PIPE	37.5	TON	FERTILIZER TOPDRESSING
588	LF	36" ENCASEMENT PIPE	1,050	LF	IMPERVIOUS DIKE
75.01	LF	BORE AND JACK OF *** (12")	25	MHR	SPECIALIZED HAND MOWING
454	LF	BORE AND JACK OF *** (16")	125	EA	RESPONSE FOR EROSION CONTROL
588.01	LF	BORE AND JACK OF *** (24")	10	EA	CONCRETE WASHOUT STRUCTURE
414	LF	BORE AND JACK OF *** (30")	300	CY	CULVERT DIVERSION CHANNEL
588	LF	BORE AND JACK OF *** (36")	300	EA	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE CLEANOUT
102	LF	BORE AND JACK OF *** (4")	100	EA	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE
399	LF	BORE AND JACK OF *** (42")	132	EA	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)
368	LF	DIRECTIONAL DRILLING OF *** (16")	109,620	LF	SIGNAL CABLE
540	LF	DIRECTIONAL DRILLING OF *** (30")	376	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
22	EA	GENERIC UTILITY ITEM 12" NITRILE GASKETS	61	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)
3	EA	GENERIC UTILITY ITEM 16" NITRILE GASKETS	47	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
1	EA	GENERIC UTILITY ITEM 2" COMBINATION AIR RELEASE VALVE	3,480	LF	MESSENGER CABLE (1/4")
44	EA	GENERIC UTILITY ITEM 24" NITRILE GASKETS	20,490	LF	MESSENGER CABLE (3/8")
11	EA	GENERIC UTILITY ITEM 30" NITRILE GASKETS	745	LF	TRACER WIRE
34	EA	GENERIC UTILITY ITEM 8" NITRILE GASKETS	530	LF	PAVED TRENCHING (***** (1, 2"))
44	EA	GENERIC UTILITY ITEM ADJUSTMENT OF BRICK AND MORTAR MANHOLES	30	LF	PAVED TRENCHING (***** (3, 2"))
35	EA	GENERIC UTILITY ITEM ADJUSTMENT OF PRECAST MANHOLES	9,150	LF	UNPAVED TRENCHING (***** (1, 2"))
6	EA	GENERIC UTILITY ITEM AERIAL WATER MAIN STEEL PILE PIER	2,570	LF	UNPAVED TRENCHING (***** (2, 2"))
4	EA	GENERIC UTILITY ITEM REMOVE EXISTING PIERS	270	LF	UNPAVED TRENCHING (***** (3, 2"))
0.86	LF	GENERIC UTILITY ITEM BRICK AND MORTAR MANHOLE	420	LF	UNPAVED TRENCHING (***** (4, 2"))
297	LF	GENERIC UTILITY ITEM POLYETHYLENE ENCASEMENT ON 12" DIA. MAIN	510	LF	UNPAVED TRENCHING FOR TEMPORARY LEAD-IN
101	LF	GENERIC UTILITY ITEM POLYETHYLENE ENCASEMENT ON 16" DIA. MAIN	650	LF	DIRECTIONAL DRILL (***** (1, 2"))
540	LF	GENERIC UTILITY ITEM POLYETHYLENE ENCASEMENT ON 24" DIA. MAIN	235	LF	DIRECTIONAL DRILL (***** (2, 2"))
270	LF	GENERIC UTILITY ITEM POLYETHYLENE ENCASEMENT ON 8" DIA. MAIN	214	EA	JUNCTION BOX (STANDARD SIZE)
0.33	LF	GENERIC UTILITY ITEM PRECAST MANHOLE	13	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)
3.17	LF	GENERIC UTILITY ITEM SEWER MANHOLE VENT	71	EA	WOOD POLE
39,000	LF	TEMPORARY SILT FENCE	145	EA	GUY ASSEMBLY
			18	EA	1/2" RISER WITH WEATHERHEAD
			22	EA	1" RISER WITH WEATHERHEAD
			54	EA	2" RISER WITH WEATHERHEAD
			2	EA	2" RISER WITH HEAT SHRINK TUBING
			31,420	LF	INDUCTIVE LOOP SAWCUT
			127,800	LF	LEAD-IN CABLE (***** (14-2))
			20	EA	SITE SURVEY
			75	EA	LUMINAIRE ARM FOR VIDEO SYSTEM
			75	EA	CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT
			20	EA	EXTERNAL LOOP EMULATOR PROCESSING UNIT

114	EA	RELOCATE CAMERA SENSOR UNIT
7,388	LF	COMMUNICATIONS CABLE (**FIBER) (12)
22,656	LF	COMMUNICATIONS CABLE (**FIBER) (24)
18,736	LF	COMMUNICATIONS CABLE (**FIBER) (72)
7,045	LF	DROP CABLE
18	EA	SPLICE ENCLOSURE
25	EA	INTERCONNECT CENTER
19	EA	DELINEATOR MARKER
4	EA	FIBER-OPTIC SPLICE CABINET (BASE MOUNTED)
30,854	LF	REMOVE EXISTING COMMUNICATIONS CABLE
73	EA	METAL STRAIN SIGNAL POLE
73	EA	SOIL TEST
438	CY	DRILLED PIER FOUNDATION
57	EA	SIGN FOR SIGNALS
1	EA	TYPE I POST WITH FOUNDATION
113	EA	TYPE II PEDESTAL WITH FOUND- ATION
2	EA	TYPE III PEDESTAL WITH FOUND- ATION
2	EA	LED BLANKOUT SIGN
25	EA	SIGNAL CABINET FOUNDATION
7	EA	CONTROLLERS WITH CABINET (***** (2070LX, BASE MOUNTED)
216	EA	DETECTOR CARD (TYPE 2070L)
11	EA	CABINET BASE EXTENDER
10	EA	METAL POLE FOUNDATION REMOVAL
10	EA	METAL POLE REMOVAL
1	EA	GENERIC SIGNAL ITEM CCTV METAL POLE (40')
1	EA	GENERIC SIGNAL ITEM DIGITAL CCTV CAMERA ASSEMBLY
1	EA	GENERIC SIGNAL ITEM DMS ELECTRICAL SERVICE
1	EA	GENERIC SIGNAL ITEM DMS STRUCTURE
1	EA	GENERIC SIGNAL ITEM DUAL DMS MOUNTED BACK TO BACK
7	EA	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH
16	EA	GENERIC SIGNAL ITEM HUB SPLICE CENTER
1	EA	GENERIC SIGNAL ITEM SOIL TEST FOR CCTV POLE
1	EA	GENERIC SIGNAL ITEM SOIL TEST FOR DMS FOUNDATION
1,550	LF	GENERIC SIGNAL ITEM BACK PULL FIBER OPTIC CABLE
15	CY	GENERIC SIGNAL ITEM DMS FOUNDATION
6	CY	GENERIC SIGNAL ITEM DRILLED PIER FOUNDATION FOR CCTV POLE

45,110	SF	GENERIC RETAINING WALL ITEM ARCHITECTURAL SURFACE TREATMENT
27,855	SF	GENERIC RETAINING WALL ITEM SOUND BARRIER WALL

STRUCTURE ITEMS

1	EA	PDA TESTING
3,042	SF	REINFORCED CONCRETE DECK SLAB
4,473	SF	GROOVING BRIDGE FLOORS
89.5	CY	CLASS A CONCRETE (BRIDGE)
Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (26+78.00 -RPB-)
12,844	LB	REINFORCING STEEL (BRIDGE)
396.88	LF	45" PRESTRESSED CONCRETE GIR- DERS
14	EA	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 12 X 53)
1,225	LF	HP12X53 STEEL PILES
8	EA	PILE REDRIVES
220.3	LF	CONCRETE BARRIER RAIL
28	SY	4" SLOPE PROTECTION
Lump Sum	LS	ELASTOMERIC BEARINGS
Lump Sum	LS	EXPANSION JOINT SEALS

CULVERT ITEMS

Lump Sum	LS	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (137+99.59 -L-)
Lump Sum	LS	CULVERT EXCAVATION, STA ***** (137+99.59 -L-)
117	TON	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT
160	CY	CHANNEL EXCAVATION
247.2	CY	CLASS A CONCRETE (CULVERT)
32,201	LB	REINFORCING STEEL (CULVERT)
2,363	SF	GENERIC RETAINING WALL ITEM ANCHORED SHEET PILE WALL

WALL ITEMS

17,470	SF	MSE RETAINING WALL NO **** (1)
11,360	SF	MSE RETAINING WALL NO **** (2)
450	SF	SEGMENTAL GRAVITY RETAINING WALLS

FEDERAL AID PROPOSAL, CONTRACTOR LICENSE NOT REQUIRED TO BID

L180717 006

CONTRACT ID : C204106 34900.3.4

DIV OFFICE GREENSBORO

LENGTH = 1.424 MI

COUNTY : ALAMANCE

GRADING, DRAINAGE, PAVING, AND STRUCTURE.

DBE GOAL 11.0% COMPLETION DATE : NOV 28 2020

NC-119 RELOCATION NORTH OF SR-1921 (MEBANE ROGERS RD) TO SOUTH OF SR-1918 (MRS WHITE RD).

ROADWAY ITEMS				
			6	LF 6" OUTLET PIPE
			10	TON BLOTTING SAND
			15	CY ENDWALLS
			22	EA MASONRY DRAINAGE STRUCTURES
			13.7	LF MASONRY DRAINAGE STRUCTURES
			12	EA FRAME WITH TWO GRATES, STD 840.20
			4	EA FRAME WITH TWO GRATES, STD 840.22
			1	EA FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
			3	EA FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
			2	EA FRAME WITH COVER, STD 840.54
			6	EA *** SLUICE GATE (18")
			90	LF ***X*** CONCRETE CURB (8" X 18")
			1,620	LF 1'-6" CONCRETE CURB & GUTTER
			260	LF 2'-6" CONCRETE CURB & GUTTER
			2,015	LF SHOULDER BERM GUTTER
			6,150	LF STEEL BEAM GUARDRAIL
			350	LF STEEL BEAM GUARDRAIL, SHOP CURVED
			10	EA ADDITIONAL GUARDRAIL POSTS
			14	EA GUARDRAIL END UNITS, TYPE TL-3
			4	EA GUARDRAIL ANCHOR UNITS, TYPE B-77
			16,090	LF WOVEN WIRE FENCE, *** FABRIC (48")
			1,036	EA 4" TIMBER FENCE POSTS, 7'-6" LONG
			208	EA 5" TIMBER FENCE POSTS, 8'-0" LONG
			287	TON RIP RAP, CLASS I
			131	TON RIP RAP, CLASS B
			807	SY GEOTEXTILE FOR DRAINAGE
			573	LF SUPPORTS, 3-LB STEEL U-CHANNEL
			2	EA SIGN ERECTION, TYPE D
			29	EA SIGN ERECTION, TYPE E
			7	EA SIGN ERECTION, TYPE F
			1	EA DISPOSAL OF SIGN SYSTEM, U-CHANNEL
			405	SF WORK ZONE SIGNS (STATIONARY)
			144	SF WORK ZONE SIGNS (PORTABLE)
			104	SF WORK ZONE SIGNS (BARRICADE MOUNTED)
			140	EA DRUMS
			45	EA CONES
			220	LF BARRICADES (TYPE III)
			80	DAY FLAGGER
			24	HR LAW ENFORCEMENT
			331	EA TEMPORARY RAISED PAVEMENT MARKERS
			20,418	LF THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
			24,196	LF THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)
			2,523	LF THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
			1,441	LF THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)
			298	LF THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
			69	EA THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
			640	LF COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)
			130,874	LF PAINT PAVEMENT MARKING LINES (4")
			7,660	LF PAINT PAVEMENT MARKING LINES (8")
			556	LF PAINT PAVEMENT MARKING LINES (24")
			89	EA PAINT PAVEMENT MARKING SYMBOL
Lump Sum	LS	MOBILIZATION		
Lump Sum	LS	CONSTRUCTION SURVEYING		
166,025	CY	UNCLASSIFIED EXCAVATION		
Lump Sum	LS	TYPE I STANDARD APPROACH FILL STATION ***** (227+33.50)		
11,850	CY	UNDERCUT EXCAVATION		
1	ACR	SUPPLEMENTARY CLEARING & GRUBBING		
Lump Sum	LS	GRADING		
22,680	CY	DRAINAGE DITCH EXCAVATION		
1,120	LF	BERM DITCH CONSTRUCTION		
10	HR	PROOF ROLLING		
8,600	CY	SELECT GRANULAR MATERIAL		
11,100	SY	GEOTEXTILE FOR SOIL STABILIZATION		
400	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES		
1,250	SY	FOUNDATION CONDITIONING GEOTEXTILE		
420	LF	15" SIDE DRAIN PIPE		
648	LF	18" SIDE DRAIN PIPE		
4	EA	*** SIDE DRAIN PIPE ELBOWS (15")		
10	EA	*** SIDE DRAIN PIPE ELBOWS (18")		
352	LF	15" RC PIPE CULVERTS, CLASS III		
179	LF	18" RC PIPE CULVERTS, CLASS III		
530	LF	24" RC PIPE CULVERTS, CLASS III		
240	LF	30" RC PIPE CULVERTS, CLASS III		
160	LF	36" RC PIPE CULVERTS, CLASS III		
232	LF	42" RC PIPE CULVERTS, CLASS III		
740	LF	15" RC PIPE CULVERTS, CLASS IV		
111	LF	24" RC PIPE CULVERTS, CLASS IV		
123	LF	30" RC PIPE CULVERTS, CLASS IV		
278	LF	PIPE REMOVAL		
16,540	SY	LIME TREATED SOIL (SLURRY METHOD)		
170	TON	LIME FOR LIME TREATED SOIL		
500	CY	SHALLOW UNDERCUT		
1,000	TON	CLASS IV SUBGRADE STABILIZATION		
500	TON	STABILIZER AGGREGATE		
8,379	SY	GEOTEXTILE FOR PAVEMENT STABILIZATION		
20,200	TON	AGGREGATE BASE COURSE		
16,540	SY	SOIL CEMENT BASE		
460	TON	PORTLAND CEMENT FOR SOIL CEMENT BASE		
4,970	GAL	ASPHALT CURING SEAL		
1,000	TON	INCIDENTAL STONE BASE		
14,283	GAL	PRIME COAT		
1,500	SY	INCIDENTAL MILLING		
2,300	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C		
8,030	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C		
7,490	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B		
980	TON	ASPHALT BINDER FOR PLANT MIX		
500	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR		
112	CY	SUBDRAIN EXCAVATION		
500	SY	GEOTEXTILE FOR SUBSURFACE DRAINS		
84	CY	SUBDRAIN COARSE AGGREGATE		
500	LF	6" PERFORATED SUBDRAIN PIPE		
1	EA	SUBDRAIN PIPE OUTLET		

5,513	LF	REMOVAL OF PAVEMENT MARKING LINES (4")	1	EA	CABINET BASE EXTENDER
552	EA	PERMANENT RAISED PAVEMENT MARKERS			
560	LF	6" WATER LINE			
1,000	LF	12" WATER LINE			
1,700	LB	DUCTILE IRON WATER PIPE FITTINGS			
2	EA	6" VALVE	Lump Sum	LS	CULVERT EXCAVATION, STA ***** (207+85.77-L-)
2	EA	12" VALVE	141	TON	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT
1	EA	12" TAPPING SLEEVE & VALVE	188.1	CY	CLASS A CONCRETE (CULVERT)
1	EA	** AIR RELEASE VALVE (12")	39,535	LB	REINFORCING STEEL (CULVERT)
4	EA	RECONNECT WATER METER			
1	EA	FIRE HYDRANT			
120	LF	WATER SERVICE LINE			
520	LF	ABANDON 6" UTILITY PIPE			
1,000	LF	ABANDON 12" UTILITY PIPE			
1	EA	REMOVE FIRE HYDRANT			
80	LF	12" ENCASEMENT PIPE	1	EA	PDA TESTING
100	LF	20" ENCASEMENT PIPE	6,210	SF	REINFORCED CONCRETE DECK SLAB
80	LF	BORE AND JACK OF *** (12")	6,938	SF	GROOVING BRIDGE FLOORS
100	LF	BORE AND JACK OF *** (20")	78.2	CY	CLASS A CONCRETE (BRIDGE)
2	EA	GENERIC UTILITY ITEM 12" INSERT VALVE	Lump Sum	LS	BRIDGE APPROACH SLABS, STATION ***** (227+33.50-L-)
13,160	LF	TEMPORARY SILT FENCE	11,512	LB	REINFORCING STEEL (BRIDGE)
465	TON	STONE FOR EROSION CONTROL, CLASS A	238,000	LS	APPROX LBS STRUCTURAL STEEL
3,000	TON	STONE FOR EROSION CONTROL, CLASS B	14	EA	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 14 X 73)
1,675	TON	SEDIMENT CONTROL STONE	385	LF	HP14X73 STEEL PILES
40	ACR	TEMPORARY MULCHING	14	EA	STEEL PILE POINTS
2,400	LB	SEED FOR TEMPORARY SEEDING	316.5	LF	CONCRETE BARRIER RAIL
13.5	TON	FERTILIZER FOR TEMPORARY SEEDING	1,459	TON	RIP RAP CLASS II (2'-0" THICK)
3,020	LF	TEMPORARY SLOPE DRAINS	1,621	SY	GEOTEXTILE FOR DRAINAGE
2,200	LF	SAFETY FENCE	Lump Sum	LS	ELASTOMERIC BEARINGS
12,540	CY	SILT EXCAVATION			
31,000	SY	MATTING FOR EROSION CONTROL			
1,000	SY	COIR FIBER MAT			
2,600	SY	PERMANENT SOIL REINFORCEMENT MAT			
2,730	LF	1/4" HARDWARE CLOTH			
155	CY	STILLING BASINS			
2	EA	SPECIAL STILLING BASINS			
3,080	LF	COIR FIBER WATTLE			
1,900	LB	POLYACRYLAMIDE (PAM)			
4,400	LF	COIR FIBER BAFFLE			
35	EA	*** SKIMMER (1-1/2')			
40	ACR	SEEDING & MULCHING			
20	ACR	MOWING			
450	LB	SEED FOR REPAIR SEEDING			
1.25	TON	FERTILIZER FOR REPAIR SEEDING			
900	LB	SEED FOR SUPPLEMENTAL SEEDING			
26.5	TON	FERTILIZER TOPDRESSING			
30	LF	IMPERVIOUS DIKE			
25	MHR	SPECIALIZED HAND MOWING			
50	EA	RESPONSE FOR EROSION CONTROL			
7	EA	CONCRETE WASHOUT STRUCTURE			
135	CY	CULVERT DIVERSION CHANNEL			
1	ACR	REFORESTATION			
2,275	LF	SIGNAL CABLE			
9	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)			
4	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)			
1	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)			
625	LF	MESSENGER CABLE (3/8")			
1,400	LF	UNPAVED TRENCHING (***** (2, 2"))			
15	EA	JUNCTION BOX (STANDARD SIZE)			
1,700	LF	INDUCTIVE LOOP SAWCUT			
3,725	LF	LEAD-IN CABLE (***** (14-2))			
4	EA	METAL STRAIN SIGNAL POLE			
4	EA	SOIL TEST			
24	CY	DRILLED PIER FOUNDATION			
4	EA	SIGN FOR SIGNALS			
1	EA	SIGNAL CABINET FOUNDATION			
1	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)			
8	EA	DETECTOR CARD (TYPE 2070L)			

CULVERT ITEMS

STRUCTURE ITEMS

STATE FUNDED PROPOSAL, CONTRACTOR LICENSE REQUIRED TO BID

L180717 007

CONTRACT ID : C204104 42376.3.1

DIV OFFICE ALBEMARLE

LENGTH = 1.226 MI

COUNTY : MECKLENBURG

GRADING, DRAINAGE, PAVING, SIGNALS, RET WALLS, & STRUCTURE.

DBE GOAL 13.0% COMPLETION DATE : DEC 28 2021

I-77/SR-2136/US-21 DIVERGING DIAMOND INTERCHANGE IN HUNTERSVILLE.

ROADWAY ITEMS				
			3,135	TON ASPHALT BINDER FOR PLANT MIX
			700	TON ASPHALT PLANT MIX, PAVEMENT REPAIR
			740	SY GENERIC PAVING ITEM
				8" REINFORCED CONCRETE PAVEMENT
Lump Sum	LS	MOBILIZATION	99	EA GENERIC GRADING ITEM
Lump Sum	LS	CONSTRUCTION SURVEYING		RIGHT OF WAY MARKERS
Lump Sum	LS	TYPE I STANDARD APPROACH FILL STATION ***** (26+20.73 -YEB-)	217	CY SUBDRAIN EXCAVATION
3,650	CY	UNDERCUT EXCAVATION	836	SY GEOTEXTILE FOR SUBSURFACE DRAINS
Lump Sum	LS	GRADING	34	CY SUBDRAIN FINE AGGREGATE
1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING	133	CY SUBDRAIN COARSE AGGREGATE
80	CY	DRAINAGE DITCH EXCAVATION	1,036	LF 6" PERFORATED SUBDRAIN PIPE
140	LF	BERM DITCH CONSTRUCTION	4	EA SUBDRAIN PIPE OUTLET
10	HR	PROOF ROLLING	24	LF 6" OUTLET PIPE
5,000	CY	SELECT GRANULAR MATERIAL	6	CY ENDWALLS
14,275	SY	GEOTEXTILE FOR SOIL STABILIZATION	7.3	CY PIPE COLLARS
267	SF	TEMPORARY SHORING	393	CY FLOWABLE FILL
2,405	TON	GENERIC GRADING ITEM	207	EA MASONRY DRAINAGE STRUCTURES
		FLY ASH HAULING AND DISPOSAL	140.2	LF MASONRY DRAINAGE STRUCTURES
100	TON	GENERIC GRADING ITEM	1	EA FRAME WITH GRATE, STD 840.22
		HAULING AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	34	EA FRAME WITH TWO GRATES, STD 840.16
1,765	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	7	EA FRAME WITH TWO GRATES, STD 840.22
6,410	SY	FOUNDATION CONDITIONING GEOTEXTILE	7	EA FRAME WITH TWO GRATES, STD 840.24
456	LF	**** RC PIPE CULVERTS, CLASS ***** (15", V)	6	EA FRAME WITH TWO GRATES, STD 840.29
1,316	LF	15" RC PIPE CULVERTS, CLASS III	19	EA FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)
768	LF	18" RC PIPE CULVERTS, CLASS III	57	EA FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
568	LF	24" RC PIPE CULVERTS, CLASS III	63	EA FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
272	LF	30" RC PIPE CULVERTS, CLASS III	19	EA FRAME WITH COVER, STD 840.54
604	LF	36" RC PIPE CULVERTS, CLASS III	5	EA CONCRETE TRANSITIONAL SECTION FOR CATCH BASIN
132	LF	48" RC PIPE CULVERTS, CLASS III	21	EA CONCRETE TRANSITIONAL SECTION FOR DROP INLET
80	LF	***** RC PIPE CULVERTS, CLASS IV (12")	130	LF ***X*** CONCRETE CURB (8" X 12")
5,280	LF	15" RC PIPE CULVERTS, CLASS IV	1,170	LF **L*** CONCRETE CURB & GUTTER (2'-0")
2,220	LF	18" RC PIPE CULVERTS, CLASS IV	5,875	LF 1'-6" CONCRETE CURB & GUTTER
536	LF	24" RC PIPE CULVERTS, CLASS IV	17,340	LF 2'-6" CONCRETE CURB & GUTTER
232	LF	30" RC PIPE CULVERTS, CLASS IV	1	EA MODIFIED CONCRETE FLUME
776	LF	36" RC PIPE CULVERTS, CLASS IV	9,610	SY 4" CONCRETE SIDEWALK
116	LF	15" CS PIPE CULVERTS, 0.064" THICK	88	EA CONCRETE CURB RAMPS
6	EA	*** CS PIPE ELBOWS, ***** THICK (15", 0.064")	1,590	SY 6" CONCRETE DRIVEWAY
436	LF	GENERIC PIPE ITEM	475	SY 4" CONCRETE PAVED DITCH
		30" HDPE PIPE CULVERTS WITH WRAPPED JOINTS	1,560	SY 4" CONCRETE ISLAND COVER
1,488	LF	PIPE REMOVAL	1,780	SY 5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)
4,600	CY	SHALLOW UNDERCUT	840	SY 5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)
9,750	TON	CLASS IV SUBGRADE STABILIZATION	130	SY GENERIC PAVING ITEM
1,852	TON	AGGREGATE BASE COURSE		PEDESTRIAN REFUGE ISLAND (PASS THRU)
200	TON	INCIDENTAL STONE BASE	1,390	LF GENERIC PAVING ITEM
1,311	GAL	PRIME COAT		1'-6" MODIFIED CONCRETE CURB & GUTTER
7,500	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	150	LF GENERIC PAVING ITEM
1,630	SY	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 3")		2'-6" MODIFIED CONCRETE CURB & GUTTER
1,680	SY	INCIDENTAL MILLING	8	EA ADJUSTMENT OF CATCH BASINS
22,930	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C	1	EA ADJUSTMENT OF DROP INLETS
20,015	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	16	EA ADJUSTMENT OF MANHOLES
19,010	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	11	EA ADJUSTMENT OF METER BOXES OR VALVE BOXES
			1	EA CONVERT EXISTING CATCH BASIN TO JUNCTION BOX WITH MANHOLE
			1	EA CONVERT EXISTING DROP INLET TO CATCH BASIN

			9	EA	FLASHING ARROW BOARD	
			5	EA	PORTABLE CHANGEABLE MESSAGE SIGN	
			165	DAY	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)	
			835	EA	DRUMS	
			50	EA	CONES	
			544	LF	BARRICADES (TYPE III)	
			108	LF	PEDESTRIAN CHANNELIZING DEVICES	
			180	DAY	FLAGGER	
			7	EA	TEMPORARY CRASH CUSHIONS	
			15	EA	REMOVE & RESET TEMPORARY CRASH CUSHION	
			10	EA	TMA	
			1,720	LF	PORTABLE CONCRETE BARRIER	
			1,360	LF	PORTABLE CONCRETE BARRIER (ANCHORED)	
			5,930	LF	REMOVE & RESET PORTABLE CONCRETE BARRIER	
			1,220	LF	REMOVE & RESET PORTABLE CONCRETE BARRIER (ANCHORED)	
			666	LF	WATER FILLED BARRIER	
			380	LF	REMOVE & RESET WATER FILLED BARRIER	
			85	HR	LAW ENFORCEMENT	
			50	EA	SKINNY DRUM	
			1,847	EA	TEMPORARY RAISED PAVEMENT MARKERS	
			40	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	
			510	LF	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	
			117	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	
			225	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	
			73	EA	HEATED-IN-PLACE THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	
			1,812	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)	
			3,670	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)	
			566	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (8") (II)	
			486	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (8") (IV)	
			32	EA	COLD APPLIED PLASTIC PAVEMENT MARKING CHARACTER, TYPE ** (IV)	
			16	EA	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (IV)	
			232,739	LF	PAINT PAVEMENT MARKING LINES (4")	
			47,792	LF	PAINT PAVEMENT MARKING LINES (6")	
			22,135	LF	PAINT PAVEMENT MARKING LINES (8")	
			5,468	LF	PAINT PAVEMENT MARKING LINES (12")	
			4,110	LF	PAINT PAVEMENT MARKING LINES (24")	
			214	EA	PAINT PAVEMENT MARKING CHARACTER	
			840	EA	PAINT PAVEMENT MARKING SYMBOL	
			98,485	LF	REMOVAL OF PAVEMENT MARKING LINES (4")	
			8,804	LF	REMOVAL OF PAVEMENT MARKING LINES (6")	
			2,331	LF	REMOVAL OF PAVEMENT MARKING LINES (8")	
			347	LF	REMOVAL OF PAVEMENT MARKING LINES (12")	
			1,296	LF	REMOVAL OF PAVEMENT MARKING LINES (24")	
			312	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	
			600	LF	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (12", 120MILS) (HRM)	
			2,153	LF	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (12", 90MILS) (HRM)	
			6,002	LF	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (24", 120MILS) (HRM)	
			24,066	LF	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (4", 120MILS) (HRM)	
5	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX WITH MANHOLE				
1	EA	GENERIC DRAINAGE ITEM CONVERT EXISTING CATCH BASIN TO TRAFFIC BEARING JUNCTION BOX				
1,150	LF	STEEL BEAM GUARDRAIL				
15	EA	ADDITIONAL GUARDRAIL POSTS				
4	EA	GUARDRAIL END UNITS, TYPE CAT-1				
4	EA	GUARDRAIL END UNITS, TYPE TL-3				
701	LF	REMOVE EXISTING GUARDRAIL				
883	LF	CHAIN LINK FENCE, 48" FABRIC				
74	EA	METAL LINE POSTS FOR 48" CHAIN LINK FENCE				
14	EA	METAL TERMINAL POSTS FOR 48" CHAIN LINK FENCE				
585	LF	GENERIC FENCING ITEM CHAIN LINK FENCE				
750	LF	GENERIC FENCING ITEM HANDRAIL HUNTERSVILLE STANDARD DRAWING 700.1				
130	TON	RIP RAP, CLASS I				
133	TON	RIP RAP, CLASS B				
1,155	SY	GEOTEXTILE FOR DRAINAGE				
1	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON				
2	CY	PLAIN CONCRETE SIGN FOUNDATIONS				
197	CY	OVERHEAD FOOTING				
2,832	LB	SUPPORTS, BREAKAWAY STEEL BEAM				
2,951.9	LF	SUPPORTS, 3-LB STEEL U-CHANNEL				
2	EA	SUPPORTS, BARRIER (SMALL)				
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (14+50 -RPB- LT)				
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (20+50 -Y-)				
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (24+50 -Y-)				
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (25+00 -RPD-)				
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (29+50 -Y- LT)				
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (32+75 -Y- LT)				
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (34+00 -Y-)				
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (43+00 -L-)				
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (47+50 -L- LT)				
Lump Sum	LS	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (52+20 -L-)				
3	EA	SIGN ERECTION, TYPE D				
195	EA	SIGN ERECTION, TYPE E				
14	EA	SIGN ERECTION, TYPE F				
1	EA	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)				
6	EA	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (A)				
2	EA	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (B)				
3	EA	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (D)				
3	EA	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (F)				
16	EA	DISPOSAL OF SUPPORT, STEEL BEAM				
117	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL				
11	EA	DISPOSAL OF SUPPORT, U-CHANNEL				
1	EA	STOCKPILE SIGN, D, E OR F				
1,746	SF	WORK ZONE SIGNS (STATIONARY)				
1,765	SF	WORK ZONE SIGNS (PORTABLE)				
442	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)				

			2	EA	24" TAPPING SLEEVE & VALVE
			1	EA	1" AIR RELEASE VALVE
			1	EA	2" AIR RELEASE VALVE
15,681	LF	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (4", 90MILS) (HRM)	7	EA	*** WATER METER (1")
6,756	LF	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (6", 120MILS) (HRM)	7	EA	3/4" WATER METER
			2	EA	1-1/2" WATER METER
			5	EA	2" WATER METER
24,908	LF	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (6", 90MILS) (HRM)	4	EA	RELOCATE WATER METER
			5	EA	RECONNECT WATER METER
1,464	LF	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (8", 120MILS) (HRM)	2	EA	RELOCATE *** RPZ BACKFLOW PRE- VENTION ASSEMBLY (1")
3,730	LF	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (8", 90MILS) (HRM)	1	EA	RELOCATE 2" RPZ BACKFLOW PRE- VENTION ASSEMBLY
			7	EA	FIRE HYDRANT
			1	EA	RELOCATE FIRE HYDRANT
7	EA	GENERIC PAVEMENT MARKING ITEM IN LANE ROUTE SHIELDS	380	LF	FIRE HYDRANT LEG
			2	EA	8" LINE STOP
1,389	EA	SNOWPLOWABLE PAVEMENT MARKERS	3	EA	10" LINE STOP
			1	EA	12" LINE STOP
3	EA	7' U-CHANNEL POSTS	258	LF	*** WATER SERVICE LINE (2")
3	EA	OBJECT MARKERS (END OF ROAD)			
28	CY	HIGH MOUNT FOUNDATIONS	186	LF	*** WATER SERVICE LINE (4")
8	EA	LIGHT STANDARDS, TYPE MTLT ***** (45' SA, 15' ARM)	1,055	LF	WATER SERVICE LINE
6	EA	STANDARD FOUNDATION ***** (TYPE R1)	1,618	LF	8" SANITARY GRAVITY SEWER
2	EA	STANDARD FOUNDATION ***** (TYPE R2)	122	LF	12" SANITARY GRAVITY SEWER
385	LF	ELECTRICAL DUCT, TYPE BD, SIZE ***** (2")	1	EA	SANITARY SEWER CLEAN-OUT
400	LF	ELECTRICAL DUCT, TYPE JA, SIZE ***** (2")	27	LF	SEWER SERVICE LINE
430	LF	ELECTRICAL DUCT, TYPE JA, SIZE ***** (3")	10	EA	4' DIA UTILITY MANHOLE
310	LF	ELECTRICAL DUCT, TYPE JA, SIZE ***** (4")	1	EA	5' DIA UTILITY MANHOLE
1,000	LF	** #8 W/G FEEDER CIRCUIT (2)	10	LF	UTILITY MANHOLE WALL 4' DIA
405	LF	** #6 W/G FEEDER CIRCUIT (2)	970	LF	ABANDON 6" UTILITY PIPE
780	LF	** #4 W/G FEEDER CIRCUIT (2)	2,410	LF	ABANDON 8" UTILITY PIPE
4,485	LF	** #8 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5)	3,402	LF	ABANDON 10" UTILITY PIPE
			2,264	LF	ABANDON 12" UTILITY PIPE
795	LF	** #6 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5)	20	EA	REMOVE WATER METER
1,075	LF	** #4 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5)	4	EA	REMOVE FIRE HYDRANT
			4	EA	ABANDON UTILITY MANHOLE
1	EA	ELECTRICAL JUNCTION BOXES ***** (CS36)	3	EA	REMOVE UTILITY MANHOLE
3	EA	ELECTRICAL JUNCTION BOXES ***** (HM18)	402	LF	*** ENCASMENT PIPE (48")
4	EA	ELECTRICAL JUNCTION BOXES ***** (IG18)	10	LF	12" ENCASMENT PIPE
4	EA	ELECTRICAL JUNCTION BOXES ***** (IG36)	125	LF	36" ENCASMENT PIPE
8	EA	ELECTRICAL JUNCTION BOXES ***** (LS18)	402	LF	BORE AND JACK OF *** (48")
Lump Sum	LS	GENERIC LIGHTING ITEM LUMINAIRE STORAGE	1	EA	GENERIC UTILITY ITEM RECONNECT TO EXISTING 6" WATER LINE
4	EA	GENERIC LIGHTING ITEM RELOCATE HIGH MOUNT LIGHT STANDARD	Lump Sum	LS	GENERIC UTILITY ITEM TEMPORARY SANITARY SEWER BY- PASS PUMPING
8	EA	GENERIC LIGHTING ITEM ROADWAY LIGHT STANDARD LUMINAIRE 18SW LED	Lump Sum	LS	GENERIC UTILITY ITEM TEMPORARY WATER SERVICE
8	EA	GENERIC LIGHTING ITEM SMART CONTROL NODE	Lump Sum	LS	GENERIC UTILITY ITEM WATER LINE CONNECTION/ ACTIVATION
62	LF	4" WATER LINE	23,630	LF	TEMPORARY SILT FENCE
287	LF	8" WATER LINE	1,275	TON	STONE FOR EROSION CONTROL, CLASS A
20	LF	10" WATER LINE	1,750	TON	STONE FOR EROSION CONTROL, CLASS B
3,765	LF	12" WATER LINE	3,330	TON	SEDIMENT CONTROL STONE
2,311	LF	16" WATER LINE	50.5	ACR	TEMPORARY MULCHING
57	LF	24" WATER LINE	2,700	LB	SEED FOR TEMPORARY SEEDING
27,579	LB	DUCTILE IRON WATER PIPE FITTINGS	15.5	TON	FERTILIZER FOR TEMPORARY SEED- ING
			730	LF	TEMPORARY SLOPE DRAINS
8	EA	6" VALVE	200	LF	SAFETY FENCE
3	EA	8" VALVE	6,260	CY	SILT EXCAVATION
4	EA	12" VALVE	22,475	SY	MATTING FOR EROSION CONTROL
1	EA	16" VALVE	155	SY	COIR FIBER MAT
			465	SY	PERMANENT SOIL REINFORCEMENT MAT
			9,700	LF	1/4" HARDWARE CLOTH
			40	LF	*** TEMPORARY PIPE (18")
			50	LF	*** TEMPORARY PIPE (24")
			3	EA	SPECIAL STILLING BASINS
			160	LF	WATTLE
			950	LF	COIR FIBER WATTLE
			30	LF	COIR FIBER WATTLE BARRIER
			470	LB	POLYACRYLAMIDE (PAM)
			810	LF	COIR FIBER BAFFLE
			8	EA	*** SKIMMER (1-1/2")
			1	EA	*** SKIMMER (2")
			38	ACR	SEEDING & MULCHING

			2	EA	GENERIC SIGNAL ITEM FURNISH ETHERNET EDGE SWITCH
			14	EA	GENERIC SIGNAL ITEM REMOVE 900MHZ RADIO
22.5	ACR	MOWING			
550	LB	SEED FOR REPAIR SEEDING			
1.5	TON	FERTILIZER FOR REPAIR SEEDING			
950	LB	SEED FOR SUPPLEMENTAL SEEDING			
28	TON	FERTILIZER TOPDRESSING			
20	MHR	SPECIALIZED HAND MOWING			
50	EA	RESPONSE FOR EROSION CONTROL			
10	EA	CONCRETE WASHOUT STRUCTURE			
43	EA	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)			
35,000	LF	SIGNAL CABLE	4,792.5	SF	SOLDIER PILE RETAINING WALLS
143	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)	280	SF	CIP GRAVITY RETAINING WALLS
8	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)			
3	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)			
700	LF	MESSENGER CABLE (1/4")			
5,900	LF	MESSENGER CABLE (3/8")			
9,000	LF	TRACER WIRE			
4,900	LF	UNPAVED TRENCHING (***** (1, 2")	19,292	SF	REINFORCED CONCRETE DECK SLAB
5,000	LF	UNPAVED TRENCHING (***** (2, 2")	19,495	SF	GROOVING BRIDGE FLOORS
50	LF	UNPAVED TRENCHING (***** (4, 2")	341.7	CY	CLASS A CONCRETE (BRIDGE)
950	LF	DIRECTIONAL DRILL (***** (1, 2")	Lump Sum	LS	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 26+20.73-YEB-)
5,000	LF	DIRECTIONAL DRILL (***** (2, 2")	47,002	LB	REINFORCING STEEL (BRIDGE)
800	LF	DIRECTIONAL DRILL (***** (3, 2")	1,426	LB	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)
84	EA	JUNCTION BOX (STANDARD SIZE)	950,000	LS	APPROX LBS STRUCTURAL STEEL
49	EA	JUNCTION BOX (OVER-SIZED, HEA- VY DUTY)	47	EA	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 14 X 73)
31	EA	WOOD POLE	2,960	LF	HP14X73 STEEL PILES
34	EA	GUY ASSEMBLY	737.28	LF	TWO BAR METAL RAIL
3	EA	1/2" RISER WITH WEATHERHEAD	371.3	LF	CONCRETE BARRIER RAIL
22	EA	2" RISER WITH WEATHERHEAD	401.45	LF	1'-**"X ***** CONCRETE PARA- PET (1'-2" X 2'-6")
2	EA	2" RISER WITH HEAT SHRINK TUBING	660	SY	4" SLOPE PROTECTION
9,500	LF	INDUCTIVE LOOP SAWCUT	Lump Sum	LS	DISC BEARINGS
38,000	LF	LEAD-IN CABLE (***** (14-2)	Lump Sum	LS	ELASTOMERIC BEARINGS
6	EA	SITE SURVEY	Lump Sum	LS	EXPANSION JOINT SEALS
16	EA	CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT	Lump Sum	LS	GENERIC STRUCTURE ITEM REMOVE EXISTING BRIDGE RAIL
3	EA	EXTERNAL LOOP EMULATOR PRO- CESSING UNIT	350.79	LF	GENERIC STRUCTURE ITEM ADHESIVELY ANCHORED 2'-6" CONCRETE PARAPET
39	EA	RELOCATE CAMERA SENSOR UNIT	350.83	LF	GENERIC STRUCTURE ITEM ADHESIVELY ANCHORED CONCRETE BARRIER RAIL
10,000	LF	COMMUNICATIONS CABLE (**FIBER) (24)	403.96	LF	GENERIC STRUCTURE ITEM ADHESIVELY ANCHORED VERTICAL CONCRETE RAIL
750	LF	DROP CABLE			
10	EA	SPLICE ENCLOSURE			
11	EA	INTERCONNECT CENTER			
13	EA	DELINEATOR MARKER			
1	EA	FURNISH WIRELESS RADIO MODEM			
1	EA	FURNISH WIRELESS LIGHTNING ARRESTOR			
11	EA	900MHZ SERIAL/ETHERNET SPREAD SPECTRUM RADIO			
1	EA	GPS UNIT			
18	EA	METAL STRAIN SIGNAL POLE			
6	EA	METAL POLE WITH SINGLE MAST ARM			
24	EA	SOIL TEST			
144	CY	DRILLED PIER FOUNDATION			
6	EA	MAST ARM WITH METAL POLE DE- SIGN			
78	EA	SIGN FOR SIGNALS			
22	EA	TYPE I POST WITH FOUNDATION			
30	EA	TYPE II PEDESTAL WITH FOUND- ATION			
9	EA	SIGNAL CABINET FOUNDATION			
9	EA	CONTROLLERS WITH CABINET (***** (TYPE 2070E, BASE MOUNTED)			
2	EA	CONTROLLERS WITH CABINET (***** (TYPE 2070E, POLE MOUNTED)			
54	EA	DETECTOR CARD (***** (TYPE 2070E)			
9	EA	CABINET BASE EXTENDER			
10	EA	GENERIC SIGNAL ITEM CCTV CAMERA ASSEMBLY			
5	EA	GENERIC SIGNAL ITEM CONTROLLER (TYPE 2070E)			
13	EA	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH			

WALL ITEMS

STRUCTURE ITEMS

