



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

September 7, 2018

Addendum No. 1

RE: Contract # C204252

WBS # 42376.3.1, 50127.3.1

F. A. # NHPP-077(219) 23

Mecklenburg County (U-5114, I-5714)

I-77/SR-2136/US-21 Diverging Diamond Interchange In Huntersville

September 18, 2018 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

The following revision has been made to the Roadway plans:

Sheet No.	Revisions
UC-3	Revised note #14

Please void the above listed sheet in your plans and staple the revised sheet thereto.

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 09-07-2018"

Please void the Proposal Cover and staple the revised Proposal Cover thereto.

On the item sheets the following pay items have been added, deleted or quantity changed:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
231-5573400000-E-1515	24" Tapping Sleeve and Valve	2 EA	DELETED
257-5781000000-E-1525	Utility Manhole Wall 4' Diameter	10 LF	32 LF

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

U-5114, I-5714 (C204252)

Mecklenburg County

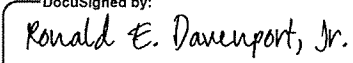
386-5572200000-E- 1515	12" Tapping Sleeve and Valve	NEW ITEM	2 EA
387-5782000000-E- 1525	Utility Manhole Wall, 5' Diameter	NEW ITEM	7 LF

The Contractor's bid must include these pay item changes.

The Expedite File has been updated to reflect these revisions. Please download the Expedite Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:

F81B6038A47A442...

Ronald E. Davenport, Jr., PE
State Contract Officer

RED/jag
Attachments

cc: Mr. Lamar Sylvester, PE	Mr. Ray Arnold, PE
Mr. Scott Cole, PE	Ms. Theresa Canales, PE
Mr. Ron Hancock, PE	Mr. Mike Gwyn
Mr. Jon Weathersbee, PE	Ms. Jaci Kincaid
Mr. Ken Kennedy, PE	Ms. Penny Higgins
Ms. Lori Strickland	Mr. Mitchell Dixon
Project File (2)	Mr. Alex Foster

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 09-07-2018

DATE AND TIME OF BID OPENING: **SEPTEMBER 18, 2018 AT 2:00 PM**

CONTRACT ID C204252
WBS 42376.3.1, 50127.3.1

FEDERAL-AID NO. STATE FUNDED, NHPP-077-1(219)23
COUNTY MECKLENBURG
T.I.P. NO. U-5114, I-5714
MILES 1.163
ROUTE NO. I 77
LOCATION I-77/SR-2136/US-21 DIVERGING DIAMOND INTERCHANGE IN
 HUNTERSVILLE.

TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNALS, RET WALLS, & STRUCTURE.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

County : Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (26+20.73 -YEB-)	Lump Sum	L.S.	
0004	0036000000-E	225	UNDERCUT EXCAVATION	3,650 CY		
0005	0043000000-N	226	GRADING	Lump Sum	L.S.	
0006	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB-BING	1 ACR		
0007	0134000000-E	240	DRAINAGE DITCH EXCAVATION	80 CY		
0008	0141000000-E	240	BERM DITCH CONSTRUCTION	140 LF		
0009	0192000000-N	260	PROOF ROLLING	10 HR		
0010	0195000000-E	265	SELECT GRANULAR MATERIAL	5,000 CY		
0011	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	14,275 SY		
0012	0199000000-E	SP	TEMPORARY SHORING	267 SF		
0013	0255000000-E	SP	GENERIC GRADING ITEM FLY ASH HAULING AND DISPOSAL	2,405 TON		
0014	0255000000-E	SP	GENERIC GRADING ITEM HAULING AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	100 TON		
0015	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	1,765 TON		
0016	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	6,410 SY		
0017	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (15", V)	456 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	1,316	LF	
0019	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	768	LF	
0020	0378000000-E	310	24" RC PIPE CULVERTS, CLASS III	568	LF	
0021	0384000000-E	310	30" RC PIPE CULVERTS, CLASS III	272	LF	
0022	0390000000-E	310	36" RC PIPE CULVERTS, CLASS III	604	LF	
0023	0402000000-E	310	48" RC PIPE CULVERTS, CLASS III	132	LF	
0024	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (12")	80	LF	
0025	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	5,280	LF	
0026	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	2,220	LF	
0027	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	536	LF	
0028	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	232	LF	
0029	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	776	LF	
0030	0582000000-E	310	15" CS PIPE CULVERTS, 0.064" THICK	116	LF	
0031	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (15", 0.064")	6	EA	
0032	0986000000-E	SP	GENERIC PIPE ITEM 30" HDPE PIPE CULVERTS WITH WRAPPED JOINTS	436	LF	
0033	0995000000-E	340	PIPE REMOVAL	1,488	LF	
0034	1099500000-E	505	SHALLOW UNDERCUT	4,600	CY	

County : Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	9,750 TON		
0036	1121000000-E	520	AGGREGATE BASE COURSE	1,852 TON		
0037	1220000000-E	545	INCIDENTAL STONE BASE	200 TON		
0038	1275000000-E	600	PRIME COAT	1,311 GAL		
0039	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	7,500 SY		
0040	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (0" TO 3")	1,630 SY		
0041	1330000000-E	607	INCIDENTAL MILLING	1,680 SY		
0042	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	22,930 TON		
0043	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	20,015 TON		
0044	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	19,010 TON		
0045	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	3,135 TON		
0046	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	700 TON		
0047	1891000000-E	SP	GENERIC PAVING ITEM 8" REINFORCED CONCRETE PAVEMENT	740 SY		
0048	2021000000-N	SP	GENERIC GRADING ITEM RIGHT OF WAY MARKERS	99 EA		
0049	2022000000-E	815	SUBDRAIN EXCAVATION	217 CY		
0050	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	836 SY		
0051	2033000000-E	815	SUBDRAIN FINE AGGREGATE	34 CY		

County : Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0052	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	133 CY		
0053	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	1,036 LF		
0054	2070000000-N	815	SUBDRAIN PIPE OUTLET	4 EA		
0055	2077000000-E	815	6" OUTLET PIPE	24 LF		
0056	2209000000-E	838	ENDWALLS	6 CY		
0057	2253000000-E	840	PIPE COLLARS	7.3 CY		
0058	2275000000-E	SP	FLOWABLE FILL	393 CY		
0059	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	207 EA		
0060	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	140.2 LF		
0061	2354000000-N	840	FRAME WITH GRATE, STD 840.22	1 EA		
0062	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	34 EA		
0063	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	7 EA		
0064	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	7 EA		
0065	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	6 EA		
0066	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	19 EA		
0067	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	57 EA		
0068	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	63 EA		
0069	2396000000-N	840	FRAME WITH COVER, STD 840.54	19 EA		

County : Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0070	2440000000-N	852	CONCRETE TRANSITIONAL SECTION FOR CATCH BASIN	5 EA		
0071	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	21 EA		
0072	2535000000-E	846	***X*** CONCRETE CURB (8" X 12")	130 LF		
0073	2538000000-E	846	***.*** CONCRETE CURB & GUTTER (2'-0")	1,170 LF		
0074	2542000000-E	846	1'-6" CONCRETE CURB & GUTTER	5,875 LF		
0075	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	17,340 LF		
0076	2570000000-N	SP	MODIFIED CONCRETE FLUME	1 EA		
0077	2591000000-E	848	4" CONCRETE SIDEWALK	9,610 SY		
0078	2605000000-N	848	CONCRETE CURB RAMPS	88 EA		
0079	2612000000-E	848	6" CONCRETE DRIVEWAY	1,590 SY		
0080	2619000000-E	850	4" CONCRETE PAVED DITCH	475 SY		
0081	2627000000-E	852	4" CONCRETE ISLAND COVER	1,560 SY		
0082	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	1,780 SY		
0083	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	840 SY		
0084	2738000000-E	SP	GENERIC PAVING ITEM PEDESTRIAN REFUGE ISLAND (PASS THRU)	130 SY		
0085	2752000000-E	SP	GENERIC PAVING ITEM 1'-6" MODIFIED CONCRETE CURB & GUTTER	1,390 LF		
0086	2752000000-E	SP	GENERIC PAVING ITEM 2'-6" MODIFIED CONCRETE CURB & GUTTER	150 LF		

County : Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0087	2800000000-N	858	ADJUSTMENT OF CATCH BASINS	8 EA		
0088	2815000000-N	858	ADJUSTMENT OF DROP INLETS	1 EA		
0089	2830000000-N	858	ADJUSTMENT OF MANHOLES	16 EA		
0090	2845000000-N	858	ADJUSTMENT OF METER BOXES OR VALVE BOXES	11 EA		
0091	2893000000-N	859	CONVERT EXISTING CATCH BASIN TO JUNCTION BOX WITH MANHOLE	1 EA		
0092	2920000000-N	859	CONVERT EXISTING DROP INLET TO CATCH BASIN	1 EA		
0093	2938000000-N	859	CONVERT EXISTING DROP INLET TO JUNCTION BOX WITH MANHOLE	5 EA		
0094	2995000000-N	SP	GENERIC DRAINAGE ITEM CONVERT EXISTING CATCH BASIN TO TRAFFIC BEARING JUNCTION BOX	1 EA		
0095	3030000000-E	862	STEEL BEAM GUARDRAIL	1,150 LF		
0096	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	15 EA		
0097	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	4 EA		
0098	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	4 EA		
0099	3360000000-E	863	REMOVE EXISTING GUARDRAIL	701 LF		
0100	3536000000-E	866	CHAIN LINK FENCE, 48" FABRIC	883 LF		
0101	3542000000-E	866	METAL LINE POSTS FOR 48" CHAIN LINK FENCE	74 EA		
0102	3548000000-E	866	METAL TERMINAL POSTS FOR 48" CHAIN LINK FENCE	14 EA		
0103	3575000000-E	SP	GENERIC FENCING ITEM CHAIN LINK FENCE	585 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0104	3575000000-E	SP	GENERIC FENCING ITEM HANDRAIL HUNTERSVILLE STANDARD DRAWING 700.1	750 LF		
0105	3628000000-E	876	RIP RAP, CLASS I	130 TON		
0106	3649000000-E	876	RIP RAP, CLASS B	133 TON		
0107	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	1,155 SY		
0108	3659000000-N	873	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON	1 EA		
0109	4054000000-E	902	PLAIN CONCRETE SIGN FOUNDATIONS	2 CY		
0110	4057000000-E	SP	OVERHEAD FOOTING	197 CY		
0111	4060000000-E	903	SUPPORTS, BREAKAWAY STEEL BEAM	2,832 LB		
0112	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	2,951.9 LF		
0113	4079000000-N	903	SUPPORTS, BARRIER (SMALL)	2 EA		
0114	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (14+50 -RPB- LT)	Lump Sum	L.S.	
0115	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (20+50 -Y-)	Lump Sum	L.S.	
0116	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (24+50 -Y-)	Lump Sum	L.S.	
0117	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (25+00 -RPD-)	Lump Sum	L.S.	
0118	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (29+50 -Y- LT)	Lump Sum	L.S.	
0119	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (32+75 -Y- LT)	Lump Sum	L.S.	

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0120	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (34+00 -Y-)	Lump Sum	L.S.	
0121	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (43+00 -L-)	Lump Sum	L.S.	
0122	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (47+50-L-LT)	Lump Sum	L.S.	
0123	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (52+00 -L-)	Lump Sum	L.S.	
0124	4096000000-N	904	SIGN ERECTION, TYPE D	3 EA		
0125	4102000000-N	904	SIGN ERECTION, TYPE E	195 EA		
0126	4108000000-N	904	SIGN ERECTION, TYPE F	14 EA		
0127	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	1 EA		
0128	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (A)	6 EA		
0129	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (B)	2 EA		
0130	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (D)	3 EA		
0131	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (F)	3 EA		
0132	4138000000-N	907	DISPOSAL OF SUPPORT, STEEL BEAM	16 EA		
0133	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	117 EA		
0134	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	11 EA		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0135	4237000000-N	907	STOCKPILE SIGN, D, E OR F	1	EA	
0136	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	1,746	SF	
0137	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	1,765	SF	
0138	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	442	SF	
0139	4415000000-N	1115	FLASHING ARROW BOARD	9	EA	
0140	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	5	EA	
0141	4422000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)	165	DAY	
0142	4430000000-N	1130	DRUMS	835	EA	
0143	4435000000-N	1135	CONES	50	EA	
0144	4445000000-E	1145	BARRICADES (TYPE III)	544	LF	
0145	4447000000-E	SP	PEDESTRIAN CHANNELIZING DEVICES	108	LF	
0146	4455000000-N	1150	FLAGGER	180	DAY	
0147	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	7	EA	
0148	4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	15	EA	
0149	4480000000-N	1165	TMA	10	EA	
0150	4485000000-E	1170	PORTABLE CONCRETE BARRIER	1,720	LF	
0151	4490000000-E	1170	PORTABLE CONCRETE BARRIER (ANCHORED)	1,360	LF	
0152	4500000000-E	1170	REMOVE & RESET PORTABLE CONCRETE BARRIER	5,930	LF	
0153	4505000000-E	1170	REMOVE & RESET PORTABLE CONCRETE BARRIER (ANCHORED)	1,220	LF	

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0154	4507000000-E	1170	WATER FILLED BARRIER	666	LF	
0155	4508000000-E	SP	REMOVE & RESET WATER FILLED BARRIER	380	LF	
0156	4510000000-N	1190	LAW ENFORCEMENT	85	HR	
0157	4516000000-N	1180	SKINNY DRUM	50	EA	
0158	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	1,847	EA	
0159	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	40	LF	
0160	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	510	LF	
0161	4721000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	117	EA	
0162	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	225	EA	
0163	4726110000-E	1205	HEATED-IN-PLACE THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	73	EA	
0164	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)	1,812	LF	
0165	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)	3,670	LF	
0166	4780000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (8") (II)	566	LF	
0167	4780000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (8") (IV)	486	LF	
0168	4800000000-N	1205	COLD APPLIED PLASTIC PAVEMENT MARKING CHARACTER, TYPE ** (IV)	32	EA	

County : Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0169	4805000000-N	1205	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (IV)	16 EA		
0170	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	232,739 LF		
0171	4815000000-E	1205	PAINT PAVEMENT MARKING LINES (6")	47,792 LF		
0172	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	22,135 LF		
0173	4825000000-E	1205	PAINT PAVEMENT MARKING LINES (12")	5,468 LF		
0174	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	4,110 LF		
0175	4840000000-N	1205	PAINT PAVEMENT MARKING CHARACTER	214 EA		
0176	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	840 EA		
0177	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	98,485 LF		
0178	4855000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (6")	8,804 LF		
0179	4860000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (8")	2,331 LF		
0180	4865000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (12")	347 LF		
0181	4870000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (24")	1,296 LF		
0182	4875000000-N	1205	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	312 EA		
0183	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (12", 120MILS) (HRM)	600 LF		
0184	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (12", 90MILS) (HRM)	2,153 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0185	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (24", 120MILS) (HRM)	6,002 LF		
0186	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (4", 120MILS) (HRM)	24,066 LF		
0187	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (4", 90MILS) (HRM)	15,681 LF		
0188	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (6", 120MILS) (HRM)	6,756 LF		
0189	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (6", 90MILS) (HRM)	24,908 LF		
0190	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (8", 120MILS) (HRM)	1,464 LF		
0191	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (8", 90MILS) (HRM)	3,730 LF		
0192	4895000000-N	SP	GENERIC PAVEMENT MARKING ITEM IN LANE ROUTE SHIELDS	7 EA		
0193	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	1,389 EA		
0194	4915000000-E	1264	7' U-CHANNEL POSTS	3 EA		
0195	4955000000-N	1264	OBJECT MARKERS (END OF ROAD)	3 EA		
0196	5025000000-E	SP	HIGH MOUNT FOUNDATIONS	28 CY		
0197	5050000000-N	1404	LIGHT STANDARDS, TYPE MTLT ***** (45' SA, 15' ARM)	8 EA		
0198	5070000000-N	SP	STANDARD FOUNDATION ***** (TYPE R1)	6 EA		
0199	5070000000-N	SP	STANDARD FOUNDATION ***** (TYPE R2)	2 EA		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0200	5155000000-E	1409	ELECTRICAL DUCT, TYPE BD, SIZE ***** (2")	385 LF		
0201	5160000000-E	1409	ELECTRICAL DUCT, TYPE JA, SIZE ***** (2")	400 LF		
0202	5160000000-E	1409	ELECTRICAL DUCT, TYPE JA, SIZE ***** (3")	430 LF		
0203	5160000000-E	1409	ELECTRICAL DUCT, TYPE JA, SIZE ***** (4")	310 LF		
0204	5170000000-E	1410	** #8 W/G FEEDER CIRCUIT (2)	1,000 LF		
0205	5175000000-E	1410	** #6 W/G FEEDER CIRCUIT (2)	405 LF		
0206	5180000000-E	1410	** #4 W/G FEEDER CIRCUIT (2)	780 LF		
0207	5205000000-E	1410	** #8 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5)	4,485 LF		
0208	5210000000-E	1410	** #6 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5)	795 LF		
0209	5215000000-E	1410	** #4 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5)	1,075 LF		
0210	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (CS36)	1 EA		
0211	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (HM18)	3 EA		
0212	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (IG18)	4 EA		
0213	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (IG36)	4 EA		

County : Mecklenburg

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0214	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (LS18)	8 EA		
0215	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0216	5260000000-N	SP	GENERIC LIGHTING ITEM LUMINAIRE STORAGE	Lump Sum	L.S.	
0217	5270000000-N	SP	GENERIC LIGHTING ITEM RELOCATE HIGH MOUNT LIGHT STANDARD	4 EA		
0218	5270000000-N	SP	GENERIC LIGHTING ITEM ROADWAY LIGHT STANDARD LUMINAIRE 185W LED	8 EA		
0219	5270000000-N	SP	GENERIC LIGHTING ITEM SMART CONTROL NODE	8 EA		
0220	5325400000-E	1510	4" WATER LINE	62 LF		
0221	5325800000-E	1510	8" WATER LINE	287 LF		
0222	5326000000-E	1510	10" WATER LINE	20 LF		
0223	5326200000-E	1510	12" WATER LINE	3,765 LF		
0224	5326600000-E	1510	16" WATER LINE	2,311 LF		
0225	5327400000-E	1510	24" WATER LINE	57 LF		
0226	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	27,579 LB		
0227	5540000000-E	1515	6" VALVE	8 EA		
0228	5546000000-E	1515	8" VALVE	3 EA		
0229	5558000000-E	1515	12" VALVE	4 EA		
0230	5558600000-E	1515	16" VALVE	1 EA		
0232	5589100000-E	1515	1" AIR RELEASE VALVE	1 EA		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0233	5589200000-E	1515	2" AIR RELEASE VALVE	1 EA		
0234	5643000000-E	1515	*** WATER METER (1")	7 EA		
0235	5643100000-E	1515	3/4" WATER METER	7 EA		
0236	5643150000-E	1515	1-1/2" WATER METER	2 EA		
0237	5643200000-E	1515	2" WATER METER	5 EA		
0238	5648000000-N	1515	RELOCATE WATER METER	4 EA		
0239	5649000000-N	1515	RECONNECT WATER METER	5 EA		
0240	5656100000-E	1515	RELOCATE *** RPZ BACKFLOW PRE- VENTION ASSEMBLY (1")	2 EA		
0241	5656210000-E	1515	RELOCATE 2" RPZ BACKFLOW PRE- VENTION ASSEMBLY	1 EA		
0242	5666000000-N	1515	FIRE HYDRANT	7 EA		
0243	5672000000-N	1515	RELOCATE FIRE HYDRANT	1 EA		
0244	5673000000-E	1515	FIRE HYDRANT LEG	380 LF		
0245	5678600000-E	1515	8" LINE STOP	2 EA		
0246	5678800000-E	1515	10" LINE STOP	3 EA		
0247	5679000000-E	1515	12" LINE STOP	1 EA		
0248	5686000000-E	1515	*** WATER SERVICE LINE (2")	258 LF		
0249	5686000000-E	1515	*** WATER SERVICE LINE (4")	186 LF		
0250	5686500000-E	1515	WATER SERVICE LINE	1,055 LF		
0251	5691300000-E	1520	8" SANITARY GRAVITY SEWER	1,618 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0252	5691500000-E	1520	12" SANITARY GRAVITY SEWER	122		
				LF		
0253	5768000000-N	1520	SANITARY SEWER CLEAN-OUT	1		
				EA		
0254	5768500000-E	1520	SEWER SERVICE LINE	27		
				LF		
0255	5775000000-E	1525	4' DIA UTILITY MANHOLE	10		
				EA		
0256	5776000000-E	1525	5' DIA UTILITY MANHOLE	1		
				EA		
0257	5781000000-E	1525	UTILITY MANHOLE WALL 4' DIA	32		
				LF		
0258	5800000000-E	1530	ABANDON 6" UTILITY PIPE	970		
				LF		
0259	5801000000-E	1530	ABANDON 8" UTILITY PIPE	2,410		
				LF		
0260	5802000000-E	1530	ABANDON 10" UTILITY PIPE	3,402		
				LF		
0261	5804000000-E	1530	ABANDON 12" UTILITY PIPE	2,264		
				LF		
0262	5815000000-N	1530	REMOVE WATER METER	20		
				EA		
0263	5815500000-N	1530	REMOVE FIRE HYDRANT	4		
				EA		
0264	5816000000-N	1530	ABANDON UTILITY MANHOLE	4		
				EA		
0265	5828000000-N	1530	REMOVE UTILITY MANHOLE	3		
				EA		
0266	5835000000-E	1540	*** ENCASEMENT PIPE (48")	402		
				LF		
0267	5835600000-E	1540	12" ENCASEMENT PIPE	10		
				LF		
0268	5836400000-E	1540	36" ENCASEMENT PIPE	125		
				LF		
0269	5872500000-E	1550	BORE AND JACK OF *** (48")	402		
				LF		
0270	5882000000-N	SP	GENERIC UTILITY ITEM RECONNECT TO EXISTING 6" WATER LINE	1		
				EA		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0271	5912000000-N	SP	GENERIC UTILITY ITEM TEMPORARY SANITARY SEWER BY-PASS PUMBING	Lump Sum	L.S.	
0272	5912000000-N	SP	GENERIC UTILITY ITEM TEMPORARY WATER SERVICE	Lump Sum	L.S.	
0273	5912000000-N	SP	GENERIC UTILITY ITEM WATER LINE CONNECTION/ACTIVA-TION	Lump Sum	L.S.	
0274	6000000000-E	1605	TEMPORARY SILT FENCE	23,630 LF		
0275	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	1,275 TON		
0276	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	1,750 TON		
0277	6012000000-E	1610	SEDIMENT CONTROL STONE	3,330 TON		
0278	6015000000-E	1615	TEMPORARY MULCHING	50.5 ACR		
0279	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	2,700 LB		
0280	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	15.5 TON		
0281	6024000000-E	1622	TEMPORARY SLOPE DRAINS	730 LF		
0282	6029000000-E	SP	SAFETY FENCE	200 LF		
0283	6030000000-E	1630	SILT EXCAVATION	6,260 CY		
0284	6036000000-E	1631	MATTING FOR EROSION CONTROL	22,475 SY		
0285	6037000000-E	SP	COIR FIBER MAT	155 SY		
0286	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	465 SY		
0287	6042000000-E	1632	1/4" HARDWARE CLOTH	9,700 LF		
0288	6045000000-E	SP	*** TEMPORARY PIPE (18")	40 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0289	6045000000-E	SP	*** TEMPORARY PIPE (24")	50 LF		
0290	6070000000-N	1639	SPECIAL STILLING BASINS	3 EA		
0291	6071010000-E	SP	WATTLE	160 LF		
0292	6071012000-E	SP	COIR FIBER WATTLE	950 LF		
0293	6071014000-E	SP	COIR FIBER WATTLE BARRIER	30 LF		
0294	6071020000-E	SP	POLYACRYLAMIDE (PAM)	470 LB		
0295	6071030000-E	1640	COIR FIBER BAFFLE	810 LF		
0296	6071050000-E	SP	*** SKIMMER (1-1/2")	8 EA		
0297	6071050000-E	SP	*** SKIMMER (2")	1 EA		
0298	6084000000-E	1660	SEEDING & MULCHING	38 ACR		
0299	6087000000-E	1660	MOWING	22.5 ACR		
0300	6090000000-E	1661	SEED FOR REPAIR SEEDING	550 LB		
0301	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	1.5 TON		
0302	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	950 LB		
0303	6108000000-E	1665	FERTILIZER TOPDRESSING	28 TON		
0304	6114500000-N	1667	SPECIALIZED HAND MOWING	20 MHR		
0305	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	50 EA		
0306	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	10 EA		
0307	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	43 EA		
0308	7060000000-E	1705	SIGNAL CABLE	35,000 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0309	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	143 EA		
0310	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	8 EA		
0311	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	3 EA		
0312	7252000000-E	1710	MESSENGER CABLE (1/4")	700 LF		
0313	7264000000-E	1710	MESSENGER CABLE (3/8")	5,900 LF		
0314	7279000000-E	1715	TRACER WIRE	9,000 LF		
0315	7300000000-E	1715	UNPAVED TRENCHING (***** (1, 2")	4,900 LF		
0316	7300000000-E	1715	UNPAVED TRENCHING (***** (2, 2")	5,000 LF		
0317	7300000000-E	1715	UNPAVED TRENCHING (***** (4, 2")	50 LF		
0318	7301000000-E	1715	DIRECTIONAL DRILL (***** (1, 2")	950 LF		
0319	7301000000-E	1715	DIRECTIONAL DRILL (***** (2, 2")	5,000 LF		
0320	7301000000-E	1715	DIRECTIONAL DRILL (***** (3, 2")	800 LF		
0321	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	84 EA		
0322	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	49 EA		
0323	7360000000-N	1720	WOOD POLE	31 EA		
0324	7372000000-N	1721	GUY ASSEMBLY	34 EA		
0325	7396000000-E	1722	1/2" RISER WITH WEATHERHEAD	3 EA		
0326	7420000000-E	1722	2" RISER WITH WEATHERHEAD	22 EA		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0327	7432000000-E	1722	2" RISER WITH HEAT SHRINK TUBING	2 EA		
0328	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	9,500 LF		
0329	7456000000-E	1726	LEAD-IN CABLE (***** (14-2)	38,000 LF		
0330	7481000000-N	SP	SITE SURVEY	6 EA		
0331	7481240000-N	SP	CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT	16 EA		
0332	7481260000-N	SP	EXTERNAL LOOP EMULATOR PRO-CESSING UNIT	3 EA		
0333	7481280000-N	SP	RELOCATE CAMERA SENSOR UNIT	39 EA		
0334	7516000000-E	1730	COMMUNICATIONS CABLE (**FIBER) (24)	10,000 LF		
0335	7528000000-E	1730	DROP CABLE	750 LF		
0336	7540000000-N	1731	SPLICE ENCLOSURE	10 EA		
0337	7552000000-N	1731	INTERCONNECT CENTER	11 EA		
0338	7566000000-N	1733	DELINEATOR MARKER	13 EA		
0339	7574500000-N	SP	FURNISH WIRELESS RADIO MODEM	1 EA		
0340	7574550000-N	SP	FURNISH WIRELESS LIGHTNING ARRESTOR	1 EA		
0341	7575142010-N	1736	900MHZ SERIAL/ETHERNET SPREAD SPECTRUM RADIO	11 EA		
0342	7575200000-N	SP	GPS UNIT	1 EA		
0343	7576000000-N	SP	METAL STRAIN SIGNAL POLE	18 EA		
0344	7588000000-N	SP	METAL POLE WITH SINGLE MAST ARM	6 EA		
0345	7613000000-N	SP	SOIL TEST	24 EA		


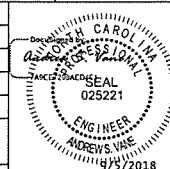
Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0346	7614100000-E	SP	DRILLED PIER FOUNDATION	144 CY		
0347	7631000000-N	SP	MAST ARM WITH METAL POLE DE-SIGN	6 EA		
0348	7636000000-N	1745	SIGN FOR SIGNALS	78 EA		
0349	7642100000-N	1743	TYPE I POST WITH FOUNDATION	22 EA		
0350	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	30 EA		
0351	7684000000-N	1750	SIGNAL CABINET FOUNDATION	9 EA		
0352	7696000000-N	1751	CONTROLLERS WITH CABINET (***** (TYPE 2070E, BASE MOUNTED)	9 EA		
0353	7696000000-N	1751	CONTROLLERS WITH CABINET (***** (TYPE 2070E, POLE MOUNTED)	2 EA		
0354	7708000000-N	1751	DETECTOR CARD (***** (TYPE 2070E)	54 EA		
0355	7901000000-N	1753	CABINET BASE EXTENDER	9 EA		
0356	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV CAMERA ASSEMBLY	10 EA		
0357	7980000000-N	SP	GENERIC SIGNAL ITEM CONTROLLER (TYPE 2070E)	5 EA		
0358	7980000000-N	SP	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH	13 EA		
0359	7980000000-N	SP	GENERIC SIGNAL ITEM FURNISH ETHERNET EDGE SWITCH	2 EA		
0360	7980000000-N	SP	GENERIC SIGNAL ITEM REMOVE 900MHZ RADIO	14 EA		
0361	7980000000-N	SP	GENERIC SIGNAL ITEM REPLACE CONFLICT MONITOR	4 EA		
0362	8504000000-E	460	CONCRETE BARRIER RAIL WITH MOMENT SLAB	1,290 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0386	5572200000-E	1515	12" TAPPING SLEEVE & VALVE	2 EA		
0387	5782000000-E	1525	UTILITY MANHOLE WALL 5' DIA	7 LF		
WALL ITEMS						
0363	8802014000-E	SP	SOLDIER PILE RETAINING WALLS	4,792.5 SF		
0364	8802040000-E	453	CIP GRAVITY RETAINING WALLS	280 SF		
STRUCTURE ITEMS						
0365	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 26+20.73 -YEB-)	Lump Sum	L.S.	
0366	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	19,292 SF		
0367	8161000000-E	420	GROOVING BRIDGE FLOORS	19,495 SF		
0368	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	341.7 CY		
0369	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (26+20.73 -YEB-)	Lump Sum	L.S.	
0370	8217000000-E	425	REINFORCING STEEL (BRIDGE)	47,002 LB		
0371	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	1,426 LB		
0372	8280000000-E	440	APPROX LBS STRUCTURAL STEEL	950,000 LS		
0373	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 14 X 73)	47 EA		
0374	8384000000-E	450	HP14X73 STEEL PILES	2,960 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0375	8475000000-E	460	TWO BAR METAL RAIL	737.28		LF
0376	8503000000-E	460	CONCRETE BARRIER RAIL	371.3		LF
0377	8517000000-E	460	1'-***X ***** CONCRETE PARA-PET (1'-2" X 2-6")	401.45		LF
0378	8531000000-E	462	4" SLOPE PROTECTION	660		SY
0379	8654000000-N	SP	DISC BEARINGS	Lump Sum		L.S.
0380	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum		L.S.
0381	8706000000-N	SP	EXPANSION JOINT SEALS	Lump Sum		L.S.
0382	8860000000-N	SP	GENERIC STRUCTURE ITEM REMOVE EXISTING BRIDGE RAIL	Lump Sum		L.S.
0383	8867000000-E	SP	GENERIC STRUCTURE ITEM ADHESIVELY ANCHORED 2'-6" CONCRETE PARAPET	350.79		LF
0384	8867000000-E	SP	GENERIC STRUCTURE ITEM ADHESIVELY ANCHORED CONCRETE BARRIER RAIL	350.83		LF
0385	8867000000-E	SP	GENERIC STRUCTURE ITEM ADHESIVELY ANCHORED VERTICAL CONCRETE RAIL	403.96		LF

5/14/09

UTILITY CONSTRUCTION

 STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991	PROJECT REFERENCE NO.	SHEET NO.
	U-5114	UC-3
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	DESIGNED BY: ASV	
	DRAWN BY: CTH	
	CHECKED BY: ASV	
	APPROVED BY: XMD	
	REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
2. THE EXISTING WATER AND SEWER UTILITIES BELONG TO CHARLOTTE WATER.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE OF MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

US-21 WATER & SEWER STA. 16+50± TO STA. 22+00± SEQUENCE OF CONSTRUCTION

1. INSTALL NEW WATER AND SEWER SERVICES AND CONNECT TO EXISTING WATER AND SEWER MAINS AS SHOWN.
2. INSTALL RETAINING WALL AND FINISH PROPOSED GRADING.
3. INSTALL AND SUCCESSFULLY TEST ALL NEW WATER AND SEWER PIPES.
4. CONNECT ALL NEW WATER AND SEWER PIPES TO ACTIVE SERVICES.
5. ABANDON OLD WATER AND SEWER PIPES.
6. COORDINATE THROUGHOUT WITH SEQUENCING OF RETAINING WALL CONSTRUCTION.

PROJECT SPECIFIC NOTES:

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHARLOTTE WATER STANDARD DETAILS AND THE PROJECT SPECIAL PROVISIONS.
2. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY CHARLOTTE WATER REPRESENTATIVE.
3. ALL SHORING SHALL BE IN ACCORDANCE WITH OSHA TRENCHING STANDARDS PART 1926, SUBPART P, AS AMENDED TO DATE.
4. ANY NECESSARY LANE CLOSURES SHALL FOLLOW GUIDELINES OUTLINED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
5. IF THE PROPOSED WATER AND/OR SANITARY SEWER MAIN IS INSTALLED WITHIN 12" IN ANY DIRECTION (VERTICALLY OR HORIZONTALLY) OF A GAS MAIN, THEN THE CONTRACTOR SHALL CALL PIEDMONT NATURAL GAS COMPANY AT 704-525-5585 AND INFORM THEM.
6. THE CONTRACTOR SHALL USE EROSION CONTROL MEASURES, AS DIRECTED.
7. IF ADDITIONAL WORK SPACE IS NEEDED, AN ENCROACHMENT IS TO BE AGREED UPON BETWEEN THE CONTRACTOR AND THE PROPERTY OWNER.
8. THE LOCATION OF EXISTING UTILITIES SHOWN ON THE PLANS IS FOR THE USE OF THE CONTRACTOR IN PROVIDING PROTECTION FOR THE UTILITIES DURING CONSTRUCTION OPERATIONS. NCDOT, DESIGN CONSULTANT AND/OR AGENT SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF LOCATION, SIZE, DEPTH, OR COMPLETENESS OF THE INFORMATION. THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
9. THE CONTRACTOR SHALL SUPPORT AND PROTECT ANY EXISTING UNDERGROUND UTILITIES ENCOUNTERED DURING TRENCH EXCAVATION AND/OR PIPE INSTALLATION.
10. MINIMUM PIPE SEPARATION: 10 FEET HORIZONTAL SEPARATION OR 18" VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER MAINS OVER SEWER MAINS. WHEN WATER MAINS ARE BELOW SEWER MAINS OR THE ABOVE MINIMUM SEPARATIONS CANNOT BE MAINTAINED, DUCTILE IRON PIPE SHALL BE USED FOR BOTH MAINS TO 10 FEET ON EITHER SIDE OF THE CROSSING, AND ALL ALONG THE LENGTH OF MAINS WHERE MINIMUM SEPARATION CANNOT BE MAINTAINED.
11. CHARLOTTE WATER SHALL BE NOTIFIED 1 WEEK PRIOR TO THE BEGINNING OF WATER AND/OR SANITARY SEWER WORK. CONTACT BILL DEAL OF CHARLOTTE WATER AT (980)-722-0786 TO PROVIDE THIS NOTIFICATION.
12. WATER AND SEWER LINES ARE TO REMAIN ACTIVE DURING CONSTRUCTION. IF THIS IS NOT POSSIBLE, THEN THE CONTRACTOR SHALL FOLLOW CHARLOTTE WATER PROCEDURES AS OUTLINED IN THE SPECIAL PROVISIONS REGARDING OUTAGE, TEMPORARY WATER SERVICE, AND BYPASS PUMPING.
13. SANITARY SEWER LATERAL LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS. ALL 4" SANITARY SEWER LATERALS SHALL HAVE A MIN. 1% SLOPE.
14. ALL PROPOSED WATER LINES, UNLESS OTHERWISE INDICATED ON PLANS, ARE TO BE RESTRAINED JOINT DUCTILE IRON PIPE PRESSURE CLASS 350. ALL PROPOSED SEWER LINES, UNLESS OTHERWISE INDICATED ON PLANS, ARE TO BE DUCTILE IRON PIPE PRESSURE CLASS 350.
15. ALL PROPOSED WATER AND SEWER LINES TO BE TESTED PER CHARLOTTE WATER STANDARD SPECIFICATIONS.
16. CONTRACTOR TO MINIMIZE SHUTDOWN TIME OF 8" WATER LINE ON ARAHOVA DRIVE AND 8" WATER LINE ON COMMERCE CENTRE DRIVE. COORDINATE WITH CHARLOTTE WATER AND LOCAL FIRE DEPARTMENT.