



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

October 06, 2022

Addendum No. 1

RE: Contract # C204745

WBS # 46377.3.2

STATE FUNDED

Harnett and Wake Counties (R-5705B)

NC-55 FROM NC-210 TO SR-4809 (JICARILA LANE)

October 18, 2022 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 Structures (Culvert) plans.

Sheet No.	Revision
C-1	REMOVAL OF EXISTING STRUCTURE note was revised

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.	Revision
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 10-06-2022".
ST-1	Unit Project Special Provision entitled STRUCTURES was revised to add Removal of Existing Structure at 472 + 00.00 - L- (SPECIAL)- to Table of Contents
ST-19	Unit Project Special Provision entitled STRUCTURES was revised to add REMOVAL OF EXISTING STRUCTURE AT STA. 472+00.00 -L-

Please void the above listed existing Pages in your proposal and staple the revised Pages thereto.

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

On the item sheets the following pay item revisions have been made:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0246-8035000000-N-402	REMOVAL OF EXISTING STRUCTURE AT STATION (472+00.00 -L-)	LUMP SUM	DELETED
0253-8021000000-N-SP	REMOVAL OF EXISTING STRUCTURE AT STATION (472+00.00 -L-)	NEW ITEM	LUMP SUM

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

The electronic bidding file has been updated to reflect these revisions. Please download the 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/jjr
 Attachments

cc: Mr. Boyd Tharrington, PE
 Mr. Brandon H. Jones, PE
 Mr. H. L. "Drew" Cox, PE
 Mr. Jon Weathersbee, PE
 Mr. Ken Kennedy, PE
 Project File (2)

Mr. Forrest Dungan, PE
 Ms. Jaci Kincaid
 Mr. Kyle Kempf
 Ms. Lori Strickland
 Mr. Mike Gwyn
 Ms. Penny Higgins

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

PROPOSAL

INCLUDES ADDENDUM No.1 DATED 10-06-2022

DATE AND TIME OF BID OPENING: **Oct 18, 2022 AT 02:00 PM**

CONTRACT ID C204745
WBS 46377.3.2

FEDERAL-AID NO. STATE FUNDED
COUNTY HARNETT, WAKE
T.I.P NO. R-5705B
MILES 4.536
ROUTE NO. NC-55
LOCATION NC-55 FROM NC-210 TO SR-4809 (JICARILA LANE).

TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNALS, AND CULVERTS.

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 & CULVERT PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

**Project Special Provisions
Structures**

Falsework and Formwork (2-14-22) ST-2

Submittal of Working Drawings (2-14-22) ST-8

Crane Safety (6-20-19) ST-15

Grout for Structures (12-1-17) ST-15

Asbestos Assessment for Bridge Demolition and
Renovation Activities (12-30-15) ST-16

Removal of Existing Structure at Sta. 472 + 00.00 -L- (SPECIAL) ST-19



DocuSigned by:

Marshall G. Cheek, Jr.

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9/19/2022 | 9:26 AM EDT

REMOVAL OF EXISTING STRUCTURE AT STA. 472+00.00 -L- (SPECIAL)

The existing structure shall be removed in accordance with the Standard Specifications except as noted below:

Upon removal, the following materials shall be salvaged from the structure and remain as the property of the North Carolina Department of Transportation:

Guardrail connector plates

Contact Chris Scott at 919-733-4699 to schedule delivery or pickup of the salvage material. All salvaged material shall be removed carefully without damage.

No separate measurement will be made for this work and the entire cost of this work shall be included in the lump sum price bid for “Removal of Existing Structure at Station 472+00.00 -L-”

County: HARNETT, WAKE

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	0001000000-E	200	CLEARING & GRUBBING .. ACRE(S)	Lump Sum	L.S.	
0004	0008000000-E	200	SUPPLEMENTARY CLEARING & GRUBBING	3 ACR		
0005	0022000000-E	225	UNCLASSIFIED EXCAVATION	221,100 CY		
0006	0036000000-E	225	UNDERCUT EXCAVATION	48,200 CY		
0007	0106000000-E	230	BORROW EXCAVATION	451,800 CY		
0008	0127000000-N	235	EMBANKMENT SETTLEMENT GAUGES	2 EA		
0009	0134000000-E	240	DRAINAGE DITCH EXCAVATION	5,410 CY		
0010	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	46,000 SY		
0011	0192000000-N	260	PROOF ROLLING	40 HR		
0012	0194000000-E	265	SELECT GRANULAR MATERIAL, CLASS III	52,900 CY		
0013	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	92,090 SY		
0014	0199000000-E	SP	TEMPORARY SHORING	1,020 SF		
0015	0223000000-E	275	ROCK PLATING	1,460 SY		
0016	0255000000-E	SP	GENERIC GRADING ITEM HAULING AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	650 TON		
0017	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	3,799 TON		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	17,699 SY		
0019	0335200000-E	305	15" DRAINAGE PIPE	709 LF		
0020	0335300000-E	305	18" DRAINAGE PIPE	160 LF		
0021	0390000000-E	310	36" RC PIPE CULVERTS, CLASS III	127 LF		
0022	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (48")	1,760 LF		
0023	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (54")	63 LF		
0024	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (60")	564 LF		
0025	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (66")	180 LF		
0026	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	17,476 LF		
0027	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	3,498 LF		
0028	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	3,215 LF		
0029	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	1,112 LF		
0030	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	622 LF		
0031	0448700000-E	310	42" RC PIPE CULVERTS, CLASS IV	240 LF		
0032	0582000000-E	310	15" CS PIPE CULVERTS, 0.064" THICK	912 LF		
0033	0588000000-E	310	18" CS PIPE CULVERTS, 0.064" THICK	336 LF		
0034	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (15", 0.064")	27 EA		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (18", 0.064")	4 EA		
0036	0995000000-E	340	PIPE REMOVAL	4,041 LF		
0037	1011000000-N	500	FINE GRADING	Lump Sum	L.S.	
0038	1099500000-E	505	SHALLOW UNDERCUT	7,750 CY		
0039	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	22,220 TON		
0040	1111000000-E	SP	CLASS IV AGGREGATE STABILIZATION	250 TON		
0041	1121000000-E	520	AGGREGATE BASE COURSE	84,300 TON		
0042	1220000000-E	545	INCIDENTAL STONE BASE	450 TON		
0043	1275000000-E	600	PRIME COAT	1,080 GAL		
0044	1330000000-E	607	INCIDENTAL MILLING	1,730 SY		
0045	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	11,090 TON		
0046	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	46,580 TON		
0047	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	5,610 TON		
0048	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	35,910 TON		
0049	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	5,270 TON		
0050	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	2,500 TON		
0051	2000000000-N	806	RIGHT-OF-WAY MARKERS	178 EA		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0052	2022000000-E	815	SUBDRAIN EXCAVATION	5,511 CY		
0053	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	16,400 SY		
0054	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	2,760 CY		
0055	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	16,400 LF		
0056	2070000000-N	815	SUBDRAIN PIPE OUTLET	33 EA		
0057	2077000000-E	815	6" OUTLET PIPE	198 LF		
0058	2209000000-E	838	ENDWALLS	52.6 CY		
0059	2220000000-E	838	REINFORCED ENDWALLS	28.3 CY		
0060	2264000000-E	840	PIPE PLUGS	0.045 CY		
0061	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	328 EA		
0062	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	75.3 LF		
0063	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	18 EA		
0064	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	29 EA		
0065	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	7 EA		
0066	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	17 EA		
0067	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	100 EA		
0068	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	16 EA		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0069	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	60 EA		
0070	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	77 EA		
0071	2396000000-N	840	FRAME WITH COVER, STD 840.54	4 EA		
0072	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	78 EA		
0073	2538000000-E	846	***-*** CONCRETE CURB & GUTTER (2'-9")	7,530 LF		
0074	2542000000-E	846	1'-6" CONCRETE CURB & GUTTER	21,030 LF		
0075	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	24,800 LF		
0076	2556000000-E	846	SHOULDER BERM GUTTER	4,870 LF		
0077	2591000000-E	848	4" CONCRETE SIDEWALK	9,660 SY		
0078	2605000000-N	848	CONCRETE CURB RAMPS	80 EA		
0079	2612000000-E	848	6" CONCRETE DRIVEWAY	620 SY		
0080	2619000000-E	850	4" CONCRETE PAVED DITCH	800 SY		
0081	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	10,010 SY		
0082	2905000000-N	859	CONVERT EXISTING DROP INLET TO JUNCTION BOX	1 EA		
0083	2920000000-N	859	CONVERT EXISTING DROP INLET TO CATCH BASIN	1 EA		
0084	3030000000-E	862	STEEL BEAM GUARDRAIL	5,725 LF		
0085	3045000000-E	862	STEEL BEAM GUARDRAIL, SHOP CURVED	262.5 LF		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0086	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	5 EA		
0087	3195000000-N	862	GUARDRAIL END UNITS, TYPE AT-1	1 EA		
0088	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	13 EA		
0089	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	12 EA		
0090	3360000000-E	863	REMOVE EXISTING GUARDRAIL	3,951 LF		
0091	3503000000-E	866	WOVEN WIRE FENCE, 47" FABRIC	26,850 LF		
0092	3509000000-E	866	4" TIMBER FENCE POSTS, 7'-6" LONG	1,630 EA		
0093	3512000000-E	866	5" TIMBER FENCE POSTS, ***** LONG (7'-6")	480 EA		
0094	3575000000-E	SP	GENERIC FENCING ITEM PEDESTRIAN SAFETY RAIL	152 LF		
0095	3628000000-E	876	RIP RAP, CLASS I	4,350 TON		
0096	3649000000-E	876	RIP RAP, CLASS B	1,755 TON		
0097	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	14,545 SY		
0098	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	4,052 LF		
0099	4096000000-N	904	SIGN ERECTION, TYPE D	1 EA		
0100	4102000000-N	904	SIGN ERECTION, TYPE E	146 EA		
0101	4108000000-N	904	SIGN ERECTION, TYPE F	34 EA		
0102	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (D)	7 EA		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0103	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (F)	1 EA		
0104	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	46 EA		
0105	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	11 EA		
0106	4238000000-N	907	DISPOSAL OF SIGN, D, E OR F	1 EA		
0107	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	390 SF		
0108	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	464 SF		
0109	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	439 SF		
0110	4430000000-N	1130	DRUMS	390 EA		
0111	4435000000-N	1135	CONES	50 EA		
0112	4445000000-E	1145	BARRICADES (TYPE III)	376 LF		
0113	4447000000-E	SP	PEDESTRIAN CHANNELIZING DEVICES	1,350 LF		
0114	4455000000-N	1150	FLAGGER	120 DAY		
0115	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	2 EA		
0116	4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	2 EA		
0117	4485000000-E	1170	PORTABLE CONCRETE BARRIER	1,826 LF		
0118	4500000000-E	1170	REMOVE AND RESET PORTABLE CONCRETE BARRIER	1,446 LF		
0119	4510000000-N	1190	LAW ENFORCEMENT	24 HR		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0120	4516000000-N	1180	SKINNY DRUM	50 EA		
0121	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	1,061 EA		
0122	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	86,561 LF		
0123	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	7,257 LF		
0124	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	600 LF		
0125	4709000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	1,728 LF		
0126	4720000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)	20 EA		
0127	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	134 EA		
0128	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	102,948 LF		
0129	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	7,255 LF		
0130	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	756 LF		
0131	4840000000-N	1205	PAINT PAVEMENT MARKING CHARACTER	22 EA		
0132	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	97 EA		
0133	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	24,341 LF		
0134	4870000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (24")	133 LF		
0135	4905100000-N	SP	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	1,435 EA		
0136	5325800000-E	1510	8" WATER LINE	2,144 LF		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0137	5326200000-E	1510	12" WATER LINE	2,980 LF		
0138	5327000000-E	1510	20" WATER LINE	2,496 LF		
0139	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	43,890 LB		
0140	5540000000-E	1515	6" VALVE	6 EA		
0141	5546000000-E	1515	8" VALVE	7 EA		
0142	5558000000-E	1515	12" VALVE	11 EA		
0143	5559000000-E	1515	20" VALVE	5 EA		
0144	5606000000-E	1515	2" BLOW OFF	3 EA		
0145	5648000000-N	1515	RELOCATE WATER METER	9 EA		
0146	5649000000-N	1515	RECONNECT WATER METER	5 EA		
0147	5672000000-N	1515	RELOCATE FIRE HYDRANT	5 EA		
0148	5673000000-E	1515	FIRE HYDRANT LEG	62 LF		
0149	5686500000-E	1515	WATER SERVICE LINE	247 LF		
0150	5691500000-E	1520	12" SANITARY GRAVITY SEWER	349 LF		
0151	5709300000-E	1520	6" FORCE MAIN SEWER	2,425 LF		
0152	5769000000-E	1520	DUCTILE IRON SEWER PIPE FITTINGS	3,555 LB		
0153	5775000000-E	1525	4' DIA UTILITY MANHOLE	4 EA		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0154	5800000000-E	1530	ABANDON 6" UTILITY PIPE	2,044 LF		
0155	5801000000-E	1530	ABANDON 8" UTILITY PIPE	3,795 LF		
0156	5804000000-E	1530	ABANDON 12" UTILITY PIPE	1,453 LF		
0157	5812000000-E	1530	ABANDON 20" UTILITY PIPE	2,478 LF		
0158	5816000000-N	1530	ABANDON UTILITY MANHOLE	1 EA		
0159	5828000000-N	1530	REMOVE UTILITY MANHOLE	1 EA		
0160	5835000000-E	1540	*** ENCASEMENT PIPE (42")	110 LF		
0161	5835600000-E	1540	12" ENCASEMENT PIPE	395 LF		
0162	5835700000-E	1540	16" ENCASEMENT PIPE	462 LF		
0163	5836000000-E	1540	24" ENCASEMENT PIPE	512 LF		
0164	5872500000-E	1550	BORE AND JACK OF *** (12")	235 LF		
0165	5872500000-E	1550	BORE AND JACK OF *** (16")	102 LF		
0166	5872500000-E	1550	BORE AND JACK OF *** (24")	332 LF		
0167	5872500000-E	1550	BORE AND JACK OF *** (42")	90 LF		
0168	5882000000-N	SP	GENERIC UTILITY ITEM 8" INSERTION VALVE	1 EA		
0169	6000000000-E	1605	TEMPORARY SILT FENCE	65,630 LF		
0170	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	2,900 TON		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0171	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	19,850 TON		
0172	6012000000-E	1610	SEDIMENT CONTROL STONE	9,935 TON		
0173	6015000000-E	1615	TEMPORARY MULCHING	124 ACR		
0174	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	4,800 LB		
0175	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	25.5 TON		
0176	6024000000-E	1622	TEMPORARY SLOPE DRAINS	8,760 LF		
0177	6029000000-E	SP	SAFETY FENCE	13,600 LF		
0178	6030000000-E	1630	SILT EXCAVATION	29,260 CY		
0179	6036000000-E	1631	MATTING FOR EROSION CONTROL	192,229 SY		
0180	6037000000-E	SP	COIR FIBER MAT	585 SY		
0181	6042000000-E	1632	1/4" HARDWARE CLOTH	16,265 LF		
0182	6043000000-E	SP	LOW PERMEABILITY GEOTEXTILE	860 SY		
0183	6070000000-N	1639	SPECIAL STILLING BASINS	10 EA		
0184	6071012000-E	SP	COIR FIBER WATTLE	4,550 LF		
0185	6071020000-E	SP	POLYACRYLAMIDE (PAM)	5,305 LB		
0186	6071030000-E	1640	COIR FIBER BAFFLE	6,625 LF		
0187	6071050000-E	SP	*** SKIMMER (1-1/2")	35 EA		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0188	6071050000-E	SP	*** SKIMMER (2")	3 EA		
0189	6071050000-E	SP	*** SKIMMER (2-1/2")	1 EA		
0190	6084000000-E	1660	SEEDING & MULCHING	87 ACR		
0191	6087000000-E	1660	MOWING	99 ACR		
0192	6090000000-E	1661	SEED FOR REPAIR SEEDING	1,250 LB		
0193	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	4.25 TON		
0194	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	2,075 LB		
0195	6108000000-E	1665	FERTILIZER TOPDRESSING	62.25 TON		
0196	6111000000-E	SP	IMPERVIOUS DIKE	445 LF		
0197	6114500000-N	1667	SPECIALIZED HAND MOWING	30 MHR		
0198	6114800000-N	SP	MANUAL LITTER REMOVAL	55 MHR		
0199	6114900000-E	SP	LITTER DISPOSAL	9 TON		
0200	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	150 EA		
0201	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	20 EA		
0202	6120000000-E	SP	CULVERT DIVERSION CHANNEL	285 CY		
0203	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE	123 EA		
0204	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE CLEANOUT	369 EA		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0205	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	20 EA		
0206	7060000000-E	1705	SIGNAL CABLE	10,650 LF		
0207	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	37 EA		
0208	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	4 EA		
0209	7252000000-E	1710	MESSENGER CABLE (1/4")	2,331 LF		
0210	7264000000-E	1710	MESSENGER CABLE (3/8")	600 LF		
0211	7279000000-E	1715	TRACER WIRE	1,232 LF		
0212	7300000000-E	1715	UNPAVED TRENCHING (*****) (1, 2")	2,850 LF		
0213	7300000000-E	1715	UNPAVED TRENCHING (*****) (2, 2")	967 LF		
0214	7301000000-E	1715	DIRECTIONAL DRILL (*****) (1, 2")	1,020 LF		
0215	7301000000-E	1715	DIRECTIONAL DRILL (*****) (2, 2")	100 LF		
0216	7312000000-N	1716	JUNCTION BOX (***** (SPECIAL OVERSIZED HEAVY DUTY)	3 EA		
0217	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	43 EA		
0218	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	2 EA		
0219	7360000000-N	1720	WOOD POLE	4 EA		
0220	7372000000-N	1721	GUY ASSEMBLY	14 EA		
0221	7408000000-E	1722	1" RISER WITH WEATHERHEAD	1 EA		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0222	7420000000-E	1722	2" RISER WITH WEATHERHEAD	1 EA		
0223	7432000000-E	1722	2" RISER WITH HEAT SHRINK TUBING	3 EA		
0224	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	2,520 LF		
0225	7456000000-E	1726	LEAD-IN CABLE (***** (14-2)	10,550 LF		
0226	7481000000-N	SP	SITE SURVEY	2 EA		
0227	7481240000-N	SP	CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT	4 EA		
0228	7481260000-N	SP	EXTERNAL LOOP EMULATOR PROCESSING UNIT	1 EA		
0229	7516000000-E	1730	COMMUNICATIONS CABLE (** FIBER) (24)	3,636 LF		
0230	7528000000-E	1730	DROP CABLE	570 LF		
0231	7540000000-N	1731	SPLICE ENCLOSURE	3 EA		
0232	7552000000-N	1731	INTERCONNECT CENTER	3 EA		
0233	7566000000-N	1733	DELINEATOR MARKER	6 EA		
0234	7588000000-N	SP	METAL POLE WITH SINGLE MAST ARM	6 EA		
0235	7613000000-N	SP	SOIL TEST	6 EA		
0236	7614100000-E	SP	DRILLED PIER FOUNDATION	36 CY		
0237	7631000000-N	SP	MAST ARM WITH METAL POLE DESIGN	6 EA		
0238	7636000000-N	1745	SIGN FOR SIGNALS	17 EA		

County: HARNETT, WAKE

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0239	7642100000-N	1743	TYPE I POST WITH FOUNDATION	2 EA		
0240	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	26 EA		
0241	7684000000-N	1750	SIGNAL CABINET FOUNDATION	12 EA		
0242	7744000000-N	1751	DETECTOR CARD (TYPE 170)	14 EA		
0243	7756000000-N	1751	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)	6 EA		
0244	7901000000-N	1753	CABINET BASE EXTENDER	6 EA		
0245	7980000000-N	SP	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH	3 EA		

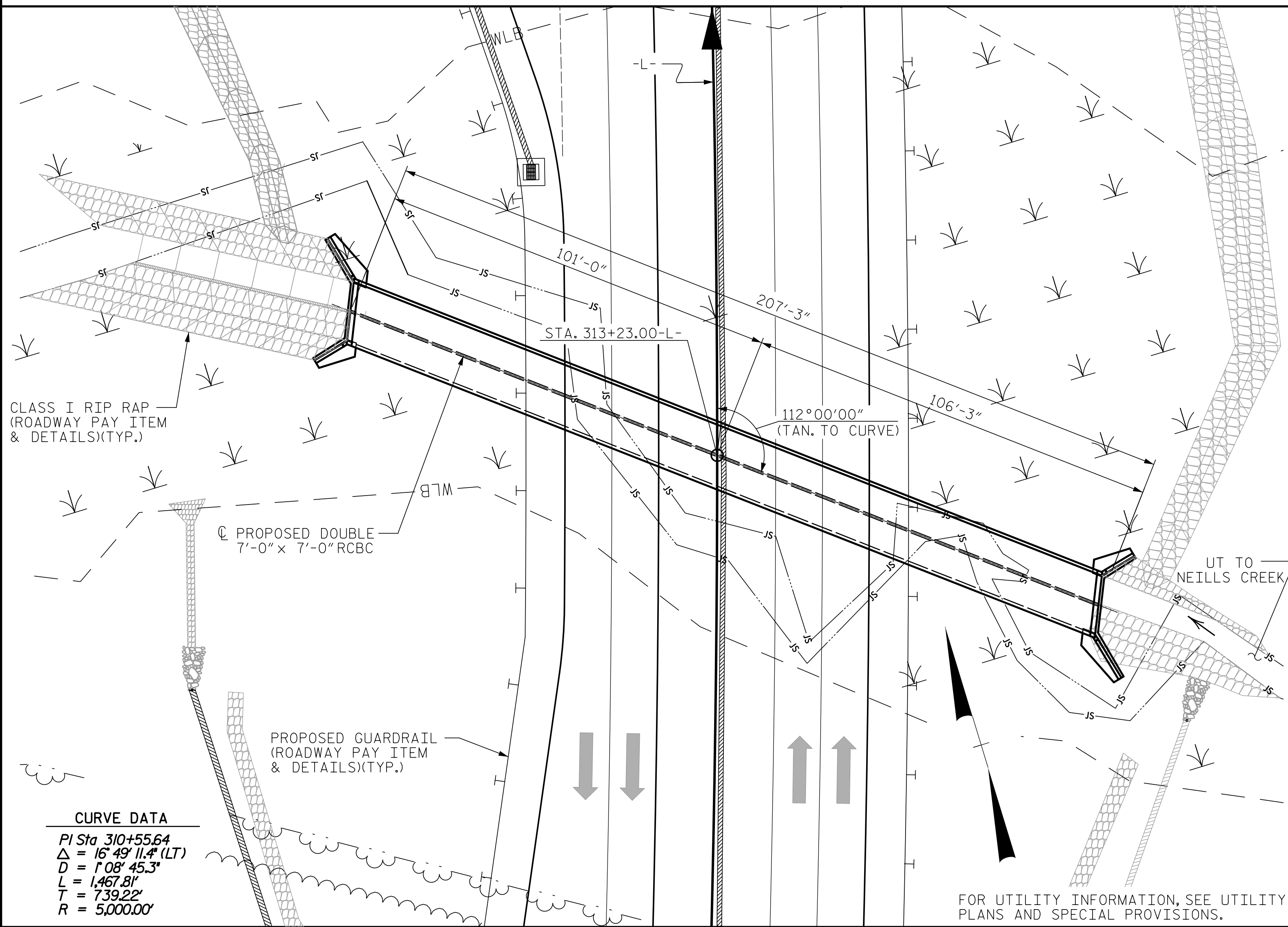
CULVERT ITEMS

0247	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0248	8126000000-N	414	CULVERT EXCAVATION, STA ***** (313+23.00 -L-)	Lump Sum	L.S.	
0249	8133000000-E	414	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT	297 TON		
0250	8196000000-E	420	CLASS A CONCRETE (CULVERT)	483.8 CY		
0251	8245000000-E	425	REINFORCING STEEL (CULVERT)	50,086 LB		
0253	8021000000-N	SP	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (472+00.00 -L-)	Lump Sum	L.S.	

WALL ITEMS

0252	8801000000-E	SP	MSE RETAINING WALL NO **** (1)	730 SF		
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BENCHMARK #15: BENCH NAIL IN BASE OF 8" BIRCH TREE 98.1' RT. OF STATION 320+85.90-L-; ELEV. 280.73'



LOCATION SKETCH

CURVE DATA
 PI Sta 310+55.64
 $\Delta = 16^\circ 49' 11.4''$ (LT)
 $D = 108' 45.3''$
 $L = 1,467.81'$
 $T = 739.22'$
 $R = 5,000.00'$

FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS.

ROADWAY DATA

GRADE POINT ELEV. @ STATION 313+23.00 -L- = 270.81
 BED ELEV. @ STATION 313+23.00 -L- = 240.41
 ROADWAY SLOPES = 2:1

HYDRAULIC DATA

DESIGN DISCHARGE = 330 C.F.S.
 FREQUENCY OF DESIGN FLOOD = 50 YEARS
 DESIGN HIGH WATER ELEVATION = 246.4
 DRAINAGE AREA = 1.03 SQ. MI.
 BASE DISCHARGE (Q100) = 375 C.F.S.
 BASE HIGH WATER ELEVATION = 246.9

OVERTOPPING DATA

OVERTOPPING DISCHARGE = N/A C.F.S.
 FREQUENCY OF OVERTOPPING FLOOD = 500+ YEARS
 OVERTOPPING HIGH WATER ELEVATION = 268.9

TOTAL STRUCTURE QUANTITIES

CLASS A CONCRETE	
BARREL @ 2.23 CY/FT	462.2 C.Y.
WINGS, ETC.	21.6 C.Y.
TOTAL	483.8 C.Y.
REINFORCING STEEL	
BARREL	48809 LBS.
WINGS, ETC.	1277 LBS.
TOTAL	50086 LBS.
CULVERT EXCAVATION	LUMP SUM
FOUNDATION COND. MATERIAL	297 TONS
GEOTEXTILE FOR SOIL STABILIZATION	490 SY

NOTES

- ASSUMED LIVE LOAD ----- HL-93 OR ALTERNATE LOADING.
- DESIGN FILL----- 24'
- FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTES SHEET.
- 3" Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:
 1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF ALL VERTICAL WALLS.
 2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALLS.
- THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.
- DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.
- TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 70 FT. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
- STEEL IN THE BOTTOM SLAB MAY BE SPLICED AT THE PERMITTED CONSTRUCTION JOINT AT THE CONTRACTOR'S OPTION. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.
- AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- FOR GROUT FOR STRUCTURE, SEE SPECIAL PROVISIONS.
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.
- FOR CULVERT DIVERSION DETAILS, SEE EROSION CONTROL PLANS.
- NO PRECAST CULVERT OPTION WILL BE ALLOWED.
- EXCAVATE A MINIMUM OF 1 FOOT BELOW CULVERT BEARING ELEVATION AND REPLACE WITH FOUNDATION CONDITIONING MATERIAL PER SECTION 414 OF THE STANDARD SPECIFICATIONS.
- UNDERCUT SOFT/LOOSE ALLUVIAL SOILS THAT MAY BE ENCOUNTERED BENEATH THE BOTTOM OF THE FOUNDATION CONDITIONING MATERIAL. BACKFILL WITH SELECT MATERIAL, CLASS VI MEETING THE REQUIREMENTS OF SECTION 1016 OF THE STANDARD SPECIFICATIONS.
- INSTALL GEOTEXTILE FOR SOIL STABILIZATION AT THE BOTTOM OF EXCAVATION PRIOR TO PLACING FOUNDATION CONDITIONING MATERIAL. THE GEOTEXTILE SHOULD BE PLACED AT THE BOTTOM OF THE EXCAVATION AND WRAPPED UP THE SIDE WALLS OF THE EXCAVATION. FOR GEOTEXTILE FOR SOIL STABILIZATION, SEE SECTION 270 OF THE STANDARD SPECIFICATIONS.

REMOVAL OF EXISTING STRUCTURE AT STATION 472+00 -L-

REMOVAL OF EXISTING STRUCTURE	LUMP SUM
ASBESTOS ASSESSMENT	LUMP SUM

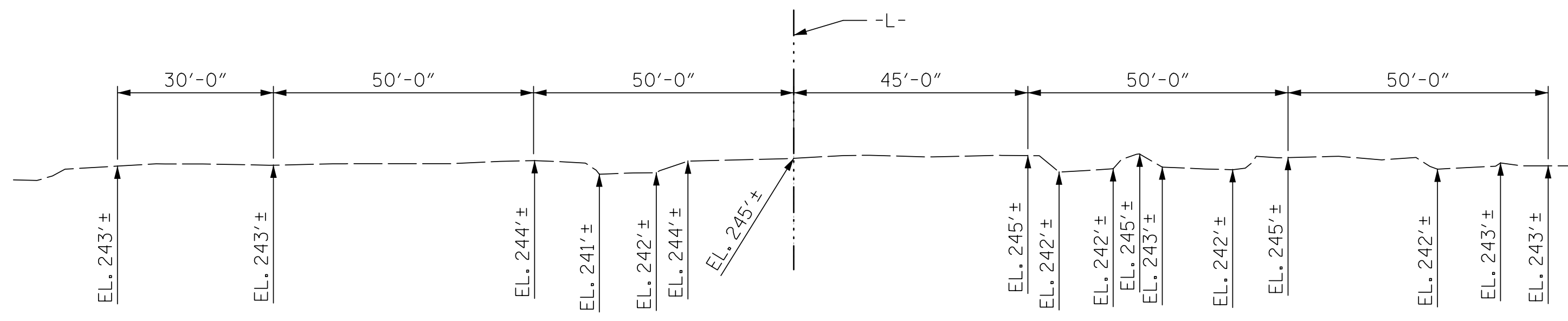
NOTES:
 INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STEEL CONTAINS LEAD, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 107-1 OF THE STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERAL REGULATIONS PERTAINING TO HANDLING OF MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE FOR "REMOVAL OF EXISTING STRUCTURE AT STATION 472+00 -L-."

THE EXISTING 5-SPAN STRUCTURE (2 @ 54'-0", 2 @ 54'-6", 1 @ 53'-6") WITH A CLEAR ROADWAY WIDTH OF 28'-3" AND A 2" ASPHALT WEARING SURFACE AND A SUPERSTRUCTURE CONSISTING OF A REINFORCED CONCRETE DECK ON STEEL I-BEAMS AND A SUBSTRUCTURE CONSISTING OF REINFORCED CONCRETE CAPS ON STEEL PILES AT THE END BENTS AND REINFORCED CONCRETE CAPS ON CONCRETE PILES AT THE BENTS AND LOCATED LEFT OF STATION 472+00 -L- SHALL BE REMOVED. THE EXISTING BRIDGE IS NOT PRESENTLY POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE DURING CONSTRUCTION OF THE PROPOSED BRIDGE, A LOAD LIMIT MAY BE POSTED AND MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT. FOR REMOVAL OF EXISTING STRUCTURE, SEE SPECIAL PROVISIONS.

FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES, SEE SPECIAL PROVISIONS.

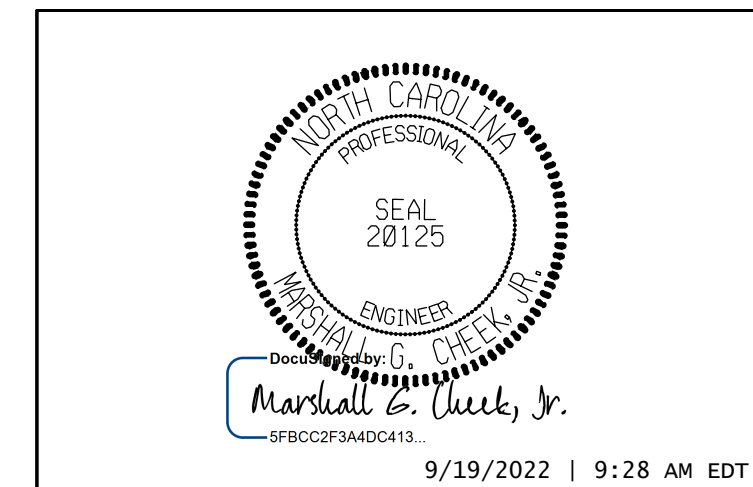
PROJECT NO. R-5705B
HARNETT COUNTY
 STATION: 313+23.00 -L-

SHEET 1 OF 5



PROFILE ALONG CULVERT

DRAWN BY : JLA DATE : 1/21
 CHECKED BY : MGC DATE : 4/21
 DESIGN ENGINEER OF RECORD : ZCS DATE : 5/22



9/19/2022 | 9:28 AM EDT
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
TGS ENGINEERS
 804-C N. LAFAYETTE ST
 SHELBY, NC 28150
 PH (704) 476-0003
 CORP. LICENSE NO.: C-0275

STATE OF NORTH CAROLINA		DEPARTMENT OF TRANSPORTATION		RALEIGH	
DOUBLE 7'-0" x 7'-0" REINFORCED CONCRETE BOX CULVERT					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO.					C-1
TOTAL SHEETS					5