



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

January 8, 2018

Addendum No. 1

RE: Contract # C203845

WBS # 34497.3.9

STATE FUNDED

Cleveland County (R-2707F)

US-74 (Shelby Bypass) From East Of SR-1162 (Peachtree Road)

To East Of NC-226

January 16, 2018 Letting

To Whom It May Concern:

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

The following revisions have been made to the plans:

Sheet No.	Revisions
1A	Revised the Index Of Sheets to show that Sheet 3B-2 no longer contains an Earthwork Summary
3B-2	Revised to remove the Earthwork Summary
5	Revised the note concerning the removal of the rip rap lined ditch in Loop B. This will be paid as Unclassified Excavation

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

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 01-08-2018".

Please void the above listed 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 has been deleted and new items added:

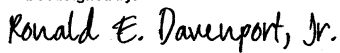
<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
004-0043000000-N-226	Grading	Lump Sum	DELETED
155-0022000000-E-225	Unclassified Excavation	NEW ITEM	1,000 CY
156-1011000000-N-500	Fine Grading	NEW ITEM	Lump Sum
157-1231000000-E-560	Shoulder Borrow	NEW ITEM	10,000 CY

The Contractor's bid must not include the deleted pay item and must include the new pay items.

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. Mark Stafford, PE
 Mr. Chris Werner, PE
 Mr. Ken Kennedy, PE
 Mr. Jon Weathersbee, PE
 Ms. Jaci Kincaid
 Project File (2)

Mr. Ray Arnold, PE
 Ms. Theresa Canales, PE
 Mr. Mike Gwyn
 Ms. Penny Higgins
 Mr. Mitchell Dixon
 Ms. Lori Strickland

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

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 01-08-2018

DATE AND TIME OF BID OPENING: **JANUARY 16, 2018 AT 2:00 PM**

CONTRACT ID C203845
WBS 34497.3.9

FEDERAL-AID NO. STATE FUNDED
COUNTY CLEVELAND
T.I.P. NO. R-2707F
MILES 5.660
ROUTE NO. US 74
LOCATION US-74 (SHELBY BYPASS) FROM EAST OF SR-1162 (PEACHTREE RD) TO
EAST OF NC-226.

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

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 PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

County : Cleveland

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	0000700000-N	SP	FIELD OFFICE	Lump Sum	L.S.	
0005	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB-BING	1 ACR		
0006	0192000000-N	260	PROOF ROLLING	60 HR		
0007	1044000000-E	501	LIME TREATED SOIL (SLURRY METHOD)	95,520 SY		
0008	1066000000-E	501	LIME FOR LIME TREATED SOIL	960 TON		
0009	1110000000-E	510	STABILIZER AGGREGATE	765 TON		
0010	1115000000-E	SP	GEOTEXTILE FOR PAVEMENT STABILIZATION	87,700 SY		
0011	1121000000-E	520	AGGREGATE BASE COURSE	144,200 TON		
0012	1176000000-E	542	SOIL CEMENT BASE	143,280 SY		
0013	1187000000-E	542	PORTLAND CEMENT FOR SOIL CEMENT BASE	3,950 TON		
0014	1209000000-E	543	ASPHALT CURING SEAL	35,820 GAL		
0015	1220000000-E	545	INCIDENTAL STONE BASE	500 TON		
0016	1275000000-E	600	PRIME COAT	96,600 GAL		
0017	1498000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	7,200 TON		
0018	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	43,700 TON		
0019	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	8,350 TON		
0020	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	36,600 TON		

County : Cleveland

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0021	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	5,104 TON		
0022	1840000000-E	665	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	111,500 LF		
0023	2143000000-E	818	BLOTTING SAND	31 TON		
0024	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	1 EA		
0025	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	1 EA		
0026	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	1 EA		
0027	2396000000-N	840	FRAME WITH COVER, STD 840.54	2 EA		
0028	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	11 EA		
0029	2473000000-N	SP	GENERIC DRAINAGE ITEM ADJUSTMENT OF JUNCTION BOXES	2 EA		
0030	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	4,900 LF		
0031	2556000000-E	846	SHOULDER BERM GUTTER	1,750 LF		
0032	2577000000-E	846	CONCRETE EXPRESSWAY GUTTER	10,500 LF		
0033	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	3,400 SY		
0034	2724000000-E	857	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	650 LF		
0035	2800000000-N	858	ADJUSTMENT OF CATCH BASINS	2 EA		
0036	2815000000-N	858	ADJUSTMENT OF DROP INLETS	12 EA		
0037	2830000000-N	858	ADJUSTMENT OF MANHOLES	2 EA		
0038	3000000000-N	SP	IMPACT ATTENUATOR UNIT, TYPE 350	12 EA		

County : Cleveland

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0039	3030000000-E	862	STEEL BEAM GUARDRAIL	21,800 LF		
0040	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	10 EA		
0041	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	18 EA		
0042	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	26 EA		
0043	3317000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE B-77	34 EA		
0044	3345000000-E	864	REMOVE & RESET EXISTING GUARD- RAIL	75 LF		
0045	3360000000-E	863	REMOVE EXISTING GUARDRAIL	50 LF		
0046	3389400000-E	865	DOUBLE FACED CABLE GUIDERAIL	26,500 LF		
0047	3389500000-N	865	ADDITIONAL GUIDERAIL POSTS	10 EA		
0048	3389600000-N	865	CABLE GUIDERAIL ANCHOR UNITS	39 EA		
0049	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	750 SY		
0050	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN (A)	3,156 SF		
0051	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN (B)	419 SF		
0052	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN (D)	169 SF		
0053	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN (E)	1,040 SF		
0054	4025000000-E	901	CONTRACTOR FURNISHED, TYPE *** SIGN (F)	61 SF		
0055	4048000000-E	902	REINFORCED CONCRETE SIGN FOUN- DATIONS	22 CY		

County : Cleveland

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0056	4054000000-E	902	PLAIN CONCRETE SIGN FOUNDATIONS	2 CY		
0057	4060000000-E	903	SUPPORTS, BREAKAWAY STEEL BEAM	11,855 LB		
0058	4066000000-E	903	SUPPORTS, SIMPLE STEEL BEAM	9,349 LB		
0059	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	3,365 LF		
0060	4078000000-E	903	SUPPORTS, 2-LB STEEL U-CHANNEL	12 EA		
0061	4096000000-N	904	SIGN ERECTION, TYPE D	19 EA		
0062	4102000000-N	904	SIGN ERECTION, TYPE E	105 EA		
0063	4108000000-N	904	SIGN ERECTION, TYPE F	7 EA		
0064	4109000000-N	904	SIGN ERECTION, TYPE *** (OVER-HEAD) (A)	8 EA		
0065	4109000000-N	904	SIGN ERECTION, TYPE *** (OVER-HEAD) (B)	2 EA		
0066	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	23 EA		
0067	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	15 EA		
0068	4114000000-N	904	SIGN ERECTION, MILEMARKERS	12 EA		
0069	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (F)	1 EA		
0070	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (MILEMARKER)	2 EA		
0071	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	3 EA		
0072	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	3 EA		

County : Cleveland

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0073	4234000000-N	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)	1 EA		
0074	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	320 SF		
0075	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	192 SF		
0076	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	210 SF		
0077	4415000000-N	1115	FLASHING ARROW BOARD	1 EA		
0078	4422000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)	76 DAY		
0079	4430000000-N	1130	DRUMS	92 EA		
0080	4435000000-N	1135	CONES	25 EA		
0081	4445000000-E	1145	BARRICADES (TYPE III)	336 LF		
0082	4455000000-N	1150	FLAGGER	105 DAY		
0083	4480000000-N	1165	TMA	1 EA		
0084	4508000000-E	SP	REMOVE & RESET WATER FILLED BA RRIER	820 LF		
0085	4510000000-N	1190	LAW ENFORCEMENT	16 HR		
0086	4516000000-N	1180	SKINNY DRUM	58 EA		
0087	4520000000-N	1266	TUBULAR MARKERS (FIXED)	15 EA		
0088	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	87 EA		
0089	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	10,423 LF		
0090	4686000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	3,592 LF		
0091	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	336 LF		

County : Cleveland

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0092	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	490	LF	
0093	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	217	LF	
0094	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	62	EA	
0095	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (III)	988	LF	
0096	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)	491	LF	
0097	4780000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (8") (III)	125	LF	
0098	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	13,282	LF	
0099	4815000000-E	1205	PAINT PAVEMENT MARKING LINES (6")	3,888	LF	
0100	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	212	LF	
0101	4825000000-E	1205	PAINT PAVEMENT MARKING LINES (12")	566	LF	
0102	4847030000-E	1205	POLYUREA PAVEMENT MARKING LINES (6", 20 MILS)	144,444	LF	
0103	4847070000-E	1205	POLYUREA PAVEMENT MARKING LINES (12", 20 MILS)	4,717	LF	
0104	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	6,796	LF	
0105	4855000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (6")	3,145	LF	
0106	4860000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (8")	400	LF	

County : Cleveland

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0107	4865000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (12")	1,950	LF	
0108	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	61	EA	
0109	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	1,493	EA	
0110	4935000000-N	1267	FLEXIBLE DELINEATORS (CRYSTAL)	154	EA	
0111	4940000000-N	1267	FLEXIBLE DELINEATORS (YELLOW)	134	EA	
0112	4945000000-N	1267	FLEXIBLE DELINEATORS (CRYSTAL & RED)	15	EA	
0113	4950000000-N	1267	FLEXIBLE DELINEATORS (YELLOW & RED)	15	EA	
0114	6000000000-E	1605	TEMPORARY SILT FENCE	2,200	LF	
0115	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	440	TON	
0116	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	600	TON	
0117	6012000000-E	1610	SEDIMENT CONTROL STONE	850	TON	
0118	6015000000-E	1615	TEMPORARY MULCHING	3	ACR	
0119	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	100	LB	
0120	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	0.5	TON	
0121	6024000000-E	1622	TEMPORARY SLOPE DRAINS	1,100	LF	
0122	6030000000-E	1630	SILT EXCAVATION	1,600	CY	
0123	6036000000-E	1631	MATTING FOR EROSION CONTROL	1,500	SY	
0124	6042000000-E	1632	1/4" HARDWARE CLOTH	2,250	LF	
0125	6071010000-E	SP	WATTLE	1,000	LF	

County : Cleveland

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0126	6084000000-E	1660	SEEDING & MULCHING	7 ACR		
0127	6087000000-E	1660	MOWING	12 ACR		
0128	6090000000-E	1661	SEED FOR REPAIR SEEDING	150 LB		
0129	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25 TON		
0130	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	175 LB		
0131	6108000000-E	1665	FERTILIZER TOPDRESSING	5.25 TON		
0132	6114500000-N	1667	SPECIALIZED HAND MOWING	10 MHR		
0133	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	13 EA		
0134	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	8 EA		
0135	6133000000-N	SP	GENERIC EROSION CONTROL ITEM REMOVAL OF EROSION CONTROL DEVICES	Lump Sum	L.S.	
0136	7060000000-E	1705	SIGNAL CABLE	600 LF		
0137	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	6 EA		
0138	7264000000-E	1710	MESSENGER CABLE (3/8")	300 LF		
0139	7300000000-E	1715	UNPAVED TRENCHING (***** (1, 2")	750 LF		
0140	7300000000-E	1715	UNPAVED TRENCHING (***** (3, 2")	10 LF		
0141	7301000000-E	1715	DIRECTIONAL DRILL (***** (1, 2")	120 LF		
0142	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	9 EA		
0143	7360000000-N	1720	WOOD POLE	5 EA		
0144	7372000000-N	1721	GUY ASSEMBLY	6 EA		

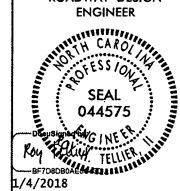
County : Cleveland

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0145	7408000000-E	1722	1" RISER WITH WEATHERHEAD	1 EA		
0146	7420000000-E	1722	2" RISER WITH WEATHERHEAD	4 EA		
0147	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	220 LF		
0148	7456000000-E	1726	LEAD-IN CABLE (***** (14-2)	1,250 LF		
0149	7636000000-N	1745	SIGN FOR SIGNALS	2 EA		
0150	7684000000-N	1750	SIGNAL CABINET FOUNDATION	1 EA		
0151	7756000000-N	1751	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)	1 EA		
0152	7780000000-N	1751	DETECTOR CARD (TYPE 2070L)	3 EA		
0153	7901000000-N	1753	CABINET BASE EXTENDER	1 EA		
0154	7980000000-N	SP	GENERIC SIGNAL ITEM MICROWAVE VEHICLE DETECTOR - SINGLE ZONE	1 EA		
0155	0022000000-E	225	UNCLASSIFIED EXCAVATION	1,000 CY		
0156	1011000000-N	500	FINE GRADING	Lump Sum	L.S.	
0157	1231000000-E	560	SHOULDER BORROW	10,000 CY		

1256/Jan08/Q1148719.0/D661940210000/E156

Total Amount Of Bid For Entire Project :

8/17/99

PROJECT REFERENCE NO. R-2707F	SHEET NO. 1A
ROADWAY DESIGN ENGINEER	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SHEET NUMBER	INDEX OF SHEETS
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C-1 THRU 1C-11	SURVEY CONTROL SHEETS
2A-1 THRU 2A-4	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
3B-1	GUARDRAIL SUMMARY SHEET
3B-2	SHOULDER BERM GUTTER AND DOUBLE FACED CABLE GUIDERAIL SUMMARY SHEETS
3D-1	DRAINAGE SUMMARY
3G-1	GEOTECHNICAL SUMMARY
4 THRU 30	PLAN SHEETS
31 THRU 51	PROFILE SHEETS
TMP-1 THRU TMP-9	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-23	PAVEMENT MARKING PLANS
SIGN-1 THRU SIGN-21	SIGNING PLANS
SIG-1 THRU SIG-3.0	SIGNAL PLANS

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

GRADE LINE:

SURFACING:

THE ROUGH GRADING AND STRUCTURES ON THIS PROJECT HAVE BEEN DONE OR ARE NOW BEING DONE UNDER A PREVIOUS CONTRACT. THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04/225.05 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01/560.02

GUARDRAIL:

THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

SURVEY CONTROL:

SURVEY CONTROL SHEETS GENERATED FROM PREVIOUS TIP PROJECTS: R-2707AA, R-2707AB, AND R-2707B.

2018 ROADWAY ENGLISH STANDARD DRAWINGS

EFF. 01-16-2018
REV.

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

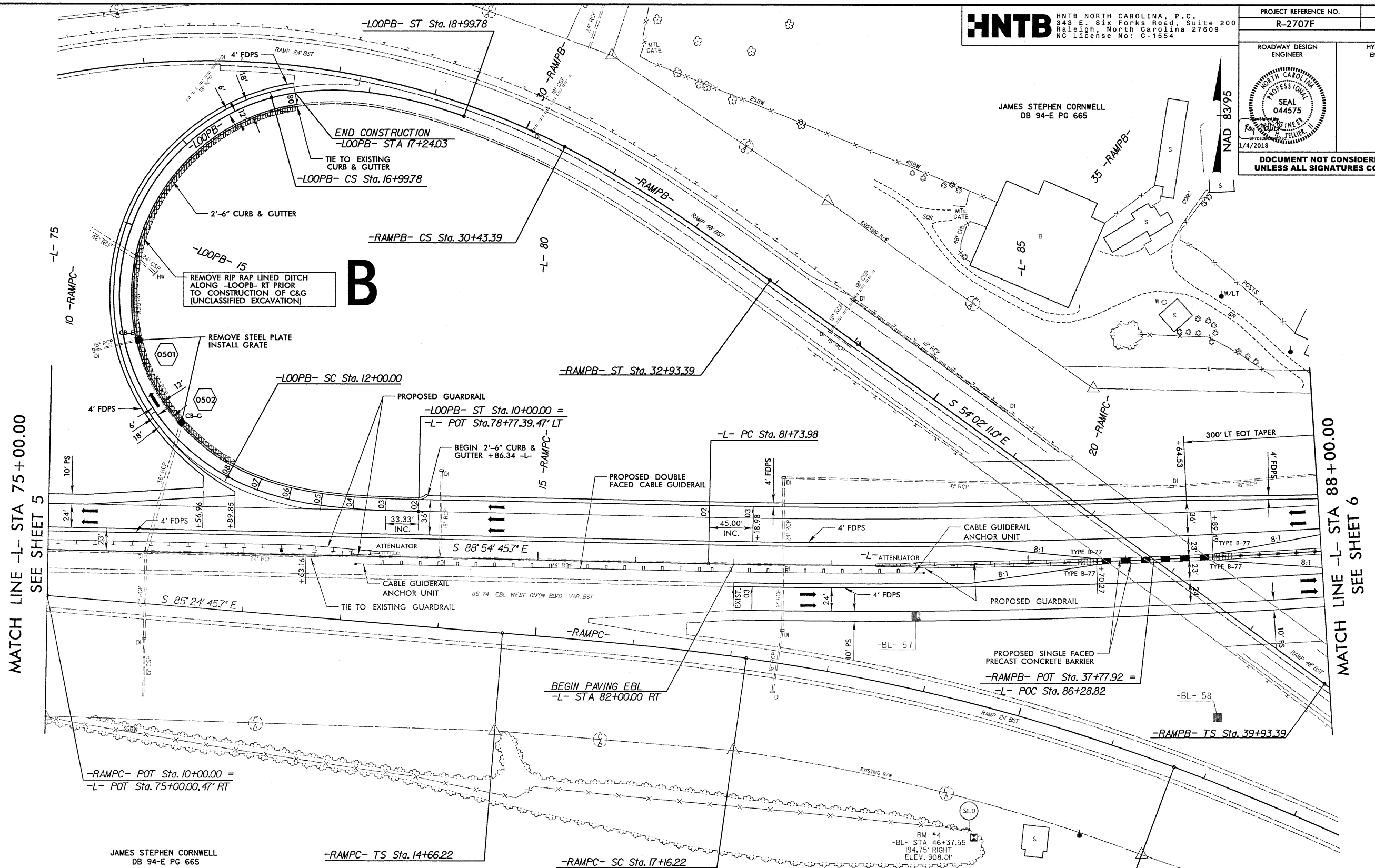
STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
225.01	Guide for Grading Subgrade - Interstate and Freeway
225.03	Deceleration and Acceleration Lanes
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.05	Method of Obtaining Superelevation - Divided Highways
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
560.02	Method of Shoulder Construction - High Side of Superelevated Curve - Method II
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
610.01	Guide for Paving Shoulders Under Bridges - Method I
610.03	Guide for Paving Shoulders Under Bridges - Method III
665.01	Asphalt Shoulders - Milled Rumble Strips
DIVISION 8 - INCIDENTALS	
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.20	Frames and Wide Slot Flat Grates
840.54	Manhole Frame and Cover
846.01	Concrete Curb, Gutter and Curb & Gutter
846.02	Drop Inlet Installation in Expressway Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
852.01	Concrete Islands
852.06	Method for Placement of Drop Inlets in Concrete Islands
857.01	Precast Reinforced Concrete Barrier - 41" Single Faced
862.01	Guardrail Placement
862.02	Guardrail Installation
862.03	Structure Anchor Units
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
865.01	Cable Guiderail

04-JAN-2018 10:21:18 R2707F_r.dwg gen.dgn

8/17/99

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

PROJECT REFERENCE NO. R-2707F	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCH LINE -L- STA 75+00.00
SEE SHEET 5

MATCH LINE -L- STA 88+00.00
SEE SHEET 6

-L-	-RAMPB-	-LOOPB-	-RAMPB-
PI Sta 87+95.02	PI Sta 27+22.29	PI Sta 17+24.50	PI Sta 19+42.61
$\Delta = 9^{\circ} 20' 35.7''$ (LT)	$\Delta = 49^{\circ} 16' 28.9''$ (RT)	$\Delta = 136^{\circ} 21' 33.1''$ (RT)	$\Delta = 12^{\circ} 18' 21.9''$ (RT)
D = 0' 45' 14.0"	D = 7' 09' 43.1"	D = 27' 17' 01.3"	D = 2' 43' 42.1"
L = 1239.34'	L = 366.90'	L = 499.78'	L = 250.00'
T = 621.04'	T = 366.90'	T = 524.50'	T = 226.39'
R = 7,600.00'	R = 800.00'	R = 210.00'	R = 451.04'
DS = 70 MPH		DS = 25 MPH	DS = 83.36'
e = .03		e = .08	

NOTE: -RAMPB- & -RAMP- ALIGNMENTS SHOWN FOR INFORMATION ONLY.

FOR -L- PROFILE, SEE SHEET 31
FOR -LOOPB- PROFILE, SEE SHEET 43

REVISIONS

04-JAN-2018 10:13Z
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