



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

March 06, 2019

Addendum No. 3

RE: Contract # C204177

WBS # 34360.3.4

F. A. # NHF-0070 (049)

Carteret-Craven Counties (R-1015)

US-70 (Havelock Bypass) From North of Pine Grove to North
Of Carteret County Line

March 19, 2019 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 Roadway plans:

Sheet No.	Revision
1	Revised to show correct Letting Date
1-A	Revised INDEX OF SHEETS to include Sheet 2C-10 "DETAIL FOR MEDIAN CROSSOVER"
New 2C-10	Added sheet for DETAIL FOR MEDIAN CROSSOVER
3B-5	Revised DOUBLE FACED CABLE GUIDERAIL SUMMARY to reflect quantity changes listed below.
11, EC-11, 28, EC-28, EC-62, EC-79	Revised to show area of median crossover
12	Revised to eliminate cable anchors reflected in the quantity changes below.

Please void the above listed existing Sheets in your plans and staple the revised Sheets thereto. Please staple the new Sheet 2C-10 after existing Sheet 2C-9 in your plans.

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

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 3 Dated 03-06-2019"
R-45	Revised to include project special provision entitled " <u>MEDIAN CROSSOVER</u> "

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

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

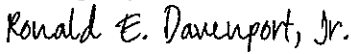
<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0134-3389200000-E-865	Cable Guiderail	47,250 LF	46,000 LF
0136-3389600000-N-865	Cable Guiderail Anchor Units	36 EA	39 EA
0386-1891000000-E-SP	Median Crossover	New Item	256 SY

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

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. Lamar Sylvester, PE
 Mr. Preston Hunter, PE
 Mr. Ron Hancock, PE
 Mr. Jon Weathersbee, PE
 Mr. Ken Kennedy, PE
 Ms. Lori Strickland
 Project File (2)

Mr. Ray Arnold, PE
 Mr. Jamie Lancaster, PE
 Ms. Jaci Kincaid
 Mr. Mike Gwyn
 Mr. Alex J. Foster, PE
 Ms. Penny Higgins
 Mr. Mitchell Dixon

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

PROPOSAL

INCLUDES ADDENDUM No.3 DATED 03-06-2019

DATE AND TIME OF BID OPENING: **MARCH 19, 2019 AT 2:00 PM**

CONTRACT ID C204177
WBS 34360.3.4

FEDERAL-AID NO. NHF-0070(049)
COUNTY CARTERET, CRAVEN
T.I.P. NO. R-1015
MILES 10.353
ROUTE NO. US 70
LOCATION US-70 (HAVELOCK BYPASS) FROM NORTH OF PINE GROVE TO NORTH OF CARTERET COUNTY LINE.

TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNALS & STRUCTURES.

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

Percentage of Elapsed Contract Time

0% - 30%
30.01% - 50%

Percentage Additive

30%
15%

Percentage of elapsed contract time is defined as the number of calendar days from the date of availability of the contract to the date the permanent seeding and mulching is acceptably completed divided by the total original contract time.

MEDIAN CROSSOVER:

5-18-04

SPI (revised)

Description

Construct a median crossover at locations indicated on the plans, in accordance with the detail in the plans, the *Standard Specifications* and as directed by the Engineer.

Materials

Sand shall meet the requirements of Section 1012-1(C)(2) of the *Standard Specifications*. Alternate sand may be substituted with the approval of the Engineer.

#57 stone shall meet the requirements of Section 1005 of the *Standard Specifications*.

Paving blocks shall match as closely as possible the dimensions, shape and pattern shown in the detail in the plans.

Fill the cores of the paving blocks with topsoil with a P.I. greater than 6 and less than 25 and with a pH ranging from 5.5 to 6.8.

Measurement and Payment

The quantity of median crossover to be paid for will be the actual number of square yards of median crossover which have been incorporated into the completed and accepted work.

The quantity of median crossover, measured as provided above, will be paid for at the contract unit price per square yard for *Median Crossover*. Such price and payment will be full compensation for all material, labor and incidentals to complete the work. No separate measurement and payment will be made for filling the paving block cores with topsoil and seeding as such work shall be incidental to the work of *Median Crossover*.

County : Carteret, Craven

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.	
0004	0000900000-N	SP	GENERIC MISCELLANEOUS ITEM UTILITY COORDINATOR	Lump Sum	L.S.	
0005	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (138+69.74 -L-)	Lump Sum	L.S.	
0006	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (139+25.54 -L-)	Lump Sum	L.S.	
0007	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (176+32.00 -L- LT)	Lump Sum	L.S.	
0008	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (176+32.00 -L- RT)	Lump Sum	L.S.	
0009	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (227+54.13 -L-)	Lump Sum	L.S.	
0010	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (227+59.99 -L-)	Lump Sum	L.S.	
0011	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (288+29.87 -L- LT)	Lump Sum	L.S.	
0012	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (288+29.87 -L- RT)	Lump Sum	L.S.	
0013	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (44+71.82 -Y4-)	Lump Sum	L.S.	
0014	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (506+32.25 -L-)	Lump Sum	L.S.	

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0015	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (506+47.11 -L-)	Lump Sum	L.S.	
0016	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (52+32.96 -Y3-)	Lump Sum	L.S.	
0017	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (11+50.20 -RP1AB-)	Lump Sum	L.S.	
0018	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (12+01.81 -RP1AB-)	Lump Sum	L.S.	
0019	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (516+87.37 -L- LT)	Lump Sum	L.S.	
0020	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (516+87.37 -L- RT)	Lump Sum	L.S.	
0021	0036000000-E	225	UNDERCUT EXCAVATION	96,000 CY		
0022	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB- BING	5 ACR		
0023	0063000000-N	SP	GRADING	Lump Sum	L.S.	
0024	0106000000-E	230	BORROW EXCAVATION	5,793,000 CY		
0025	0127000000-N	235	EMBANKMENT SETTLEMENT GAUGES	2 EA		
0026	0134000000-E	240	DRAINAGE DITCH EXCAVATION	9,730 CY		
0027	0194000000-E	265	SELECT GRANULAR MATERIAL, CLASS III	150,000 CY		
0028	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	74,600 SY		
0029	0199000000-E	SP	TEMPORARY SHORING	1,341.2 SF		
0030	0241000000-E	SP	GENERIC GRADING ITEM GEOTEXTILE FOR EMBANKMENT STA- BILIZATION	6,000 SY		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0031	0255000000-E	SP	GENERIC GRADING ITEM HAULING & DISPOSAL OF PETROLEUM CONTAMINATED SOIL	100 TON		
0032	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	5,260 TON		
0033	0320000000-E	300	FOUNDATION CONDITIONING GEO- TEXTILE	16,520 SY		
0034	0342000000-E	310	*** SIDE DRAIN PIPE (30")	88 LF		
0035	0342000000-E	310	*** SIDE DRAIN PIPE (36")	52 LF		
0036	0342000000-E	310	*** SIDE DRAIN PIPE (60")	116 LF		
0037	0342000000-E	310	*** SIDE DRAIN PIPE (84")	76 LF		
0038	0343000000-E	310	15" SIDE DRAIN PIPE	524 LF		
0039	0344000000-E	310	18" SIDE DRAIN PIPE	980 LF		
0040	0345000000-E	310	24" SIDE DRAIN PIPE	272 LF		
0041	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (15", V)	548 LF		
0042	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (18", V)	400 LF		
0043	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (24", V)	416 LF		
0044	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (30", V)	548 LF		
0045	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (36", V)	3,064 LF		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0046	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (42", V)	388	LF	
0047	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (72", V)	664	LF	
0048	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (84", V)	728	LF	
0049	0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	3,580	LF	
0050	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	1,664	LF	
0051	0378000000-E	310	24" RC PIPE CULVERTS, CLASS III	684	LF	
0052	0384000000-E	310	30" RC PIPE CULVERTS, CLASS III	732	LF	
0053	0390000000-E	310	36" RC PIPE CULVERTS, CLASS III	1,436	LF	
0054	0396000000-E	310	42" RC PIPE CULVERTS, CLASS III	628	LF	
0055	0402000000-E	310	48" RC PIPE CULVERTS, CLASS III	192	LF	
0056	0414000000-E	310	60" RC PIPE CULVERTS, CLASS III	92	LF	
0057	0426000000-E	310	72" RC PIPE CULVERTS, CLASS III	404	LF	
0058	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (48")	720	LF	
0059	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (72")	932	LF	
0060	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (84")	388	LF	

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0061	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	10,972 LF		
0062	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	2,460 LF		
0063	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	580 LF		
0064	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	388 LF		
0065	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	8,212 LF		
0066	0448700000-E	310	42" RC PIPE CULVERTS, CLASS IV	396 LF		
0067	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK (15", 0.064")	5,464 LF		
0068	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK (18", 0.064")	694 LF		
0069	0546000000-E	310	*** CAA PIPE CULVERTS, ***** THICK (24", 0.064")	76 LF		
0070	0564000000-E	310	*** CAA PIPE ELBOWS, ***** THICK (15", 0.064")	150 EA		
0071	0564000000-E	310	*** CAA PIPE ELBOWS, ***** THICK (18", 0.064")	30 EA		
0072	0564000000-E	310	*** CAA PIPE ELBOWS, ***** THICK (24", 0.064")	4 EA		
0073	0995000000-E	340	PIPE REMOVAL	3,991 LF		
0074	0996000000-N	350	PIPE CLEAN OUT	3 EA		
0075	1000000000-E	462	6" SLOPE PROTECTION	250 SY		
0076	1077000000-E	SP	#57 STONE	400 TON		
0077	1099500000-E	505	SHALLOW UNDERCUT	1,000 CY		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0078	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	2,550 TON		
0079	1111000000-E	SP	CLASS IV AGGREGATE STABILIZATION	50,600 TON		
0080	1121000000-E	520	AGGREGATE BASE COURSE	272,400 TON		
0081	1220000000-E	545	INCIDENTAL STONE BASE	2,500 TON		
0082	1275000000-E	600	PRIME COAT	14,290 GAL		
0083	1330000000-E	607	INCIDENTAL MILLING	1,500 SY		
0084	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	20,880 TON		
0085	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	139,880 TON		
0086	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	13,100 TON		
0087	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	98,960 TON		
0088	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	14,470 TON		
0089	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	1,300 TON		
0090	1840000000-E	665	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	215,500 LF		
0091	2000000000-N	806	RIGHT-OF-WAY MARKERS	97 EA		
0092	2020000000-N	806	CONTROL-OF-ACCESS MARKERS	147 EA		
0093	2022000000-E	815	SUBDRAIN EXCAVATION	1,434 CY		
0094	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	6,400 SY		
0095	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	1,075 CY		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0096	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	6,400 LF		
0097	2070000000-N	815	SUBDRAIN PIPE OUTLET	13 EA		
0098	2077000000-E	815	6" OUTLET PIPE	78 LF		
0099	2209000000-E	838	ENDWALLS	134.3 CY		
0100	2220000000-E	838	REINFORCED ENDWALLS	101.1 CY		
0101	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	331 EA		
0102	2297000000-E	840	MASONRY DRAINAGE STRUCTURES	9.2 CY		
0103	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	60.1 LF		
0104	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	13 EA		
0105	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	137 EA		
0106	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	133 EA		
0107	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	11 EA		
0108	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	31 EA		
0109	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	3 EA		
0110	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	2 EA		
0111	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	2 EA		
0112	2396000000-N	840	FRAME WITH COVER, STD 840.54	2 EA		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0113	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	9 EA		
0114	2542000000-E	846	1'-6" CONCRETE CURB & GUTTER	3,760 LF		
0115	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	1,780 LF		
0116	2556000000-E	846	SHOULDER BERM GUTTER	29,970 LF		
0117	2577000000-E	846	CONCRETE EXPRESSWAY GUTTER	2,400 LF		
0118	2591000000-E	848	4" CONCRETE SIDEWALK	100 SY		
0119	2612000000-E	848	6" CONCRETE DRIVEWAY	40 SY		
0120	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	50 SY		
0121	2724000000-E	857	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	1,239 LF		
0122	2752000000-E	SP	GENERIC PAVING ITEM MEDIAN HAZARD PROTECTION	426 LF		
0123	2815000000-N	858	ADJUSTMENT OF DROP INLETS	3 EA		
0124	3001000000-N	SP	IMPACT ATTENUATOR UNITS, TYPE TL-3	8 EA		
0125	3030000000-E	862	STEEL BEAM GUARDRAIL	50,425 LF		
0126	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	22 EA		
0127	3215000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE III	8 EA		
0128	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	53 EA		
0129	3288000000-N	SP	GUARDRAIL END UNITS, TYPE TL-2	2 EA		
0130	3317000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE B-77	63 EA		
0131	3360000000-E	863	REMOVE EXISTING GUARDRAIL	640 LF		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0132	3380000000-E	862	TEMPORARY STEEL BEAM GUARDRAIL	888 LF		
0133	3389150000-N	SP	TEMPORARY GUARDRAIL END UNITS, TYPE ***** (TL-2)	4 EA		
0134	3389200000-E	865	CABLE GUIDERAIL	46,000 LF		
0135	3389500000-N	865	ADDITIONAL GUIDERAIL POSTS	18 EA		
0136	3389600000-N	865	CABLE GUIDERAIL ANCHOR UNITS	39 EA		
0137	3503000000-E	866	WOVEN WIRE FENCE, 47" FABRIC	108,660 LF		
0138	3509000000-E	866	4" TIMBER FENCE POSTS, 7'-6" LONG	6,920 EA		
0139	3515000000-E	866	5" TIMBER FENCE POSTS, 8'-0" LONG	1,550 EA		
0140	3578000000-N	SP	GENERIC FENCING ITEM 16' USFS WELDED PIPE GATES	14 EA		
0141	3628000000-E	876	RIP RAP, CLASS I	2,020 TON		
0142	3649000000-E	876	RIP RAP, CLASS B	900 TON		
0143	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	9,800 SY		
0144	4048000000-E	902	REINFORCED CONCRETE SIGN FOUN- DATIONS	16 CY		
0145	4054000000-E	902	PLAIN CONCRETE SIGN FOUNDA- TIONS	4 CY		
0146	4057000000-E	SP	OVERHEAD FOOTING	148 CY		
0147	4060000000-E	903	SUPPORTS, BREAKAWAY STEEL BEAM	14,533 LB		
0148	4066000000-E	903	SUPPORTS, SIMPLE STEEL BEAM	7,946 LB		
0149	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	306 LF		
0150	4082000000-E	903	SUPPORTS, WOOD	4,474 LF		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0151	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (22+05 -RP1AB-)	Lump Sum	L.S.	
0152	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (42+00 -L-)	Lump Sum	L.S.	
0153	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (504+50 -L-)	Lump Sum	L.S.	
0154	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (544+00 -L-)	Lump Sum	L.S.	
0155	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (57+15 -RP2AC-)	Lump Sum	L.S.	
0156	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (58+50 -L-)	Lump Sum	L.S.	
0157	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (76+00 -L-)	Lump Sum	L.S.	
0158	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (89+84 -L-)	Lump Sum	L.S.	
0159	4096000000-N	904	SIGN ERECTION, TYPE D	12 EA		
0160	4102000000-N	904	SIGN ERECTION, TYPE E	125 EA		
0161	4108000000-N	904	SIGN ERECTION, TYPE F	27 EA		
0162	4109000000-N	904	SIGN ERECTION, TYPE *** (OVER-HEAD) (A)	14 EA		
0163	4109000000-N	904	SIGN ERECTION, TYPE *** (OVER-HEAD) (B)	7 EA		
0164	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	29 EA		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0165	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	22 EA		
0166	4114000000-N	904	SIGN ERECTION, MILEMARKERS	22 EA		
0167	4115000000-N	904	SIGN ERECTION, OVERLAY (OVER- HEAD)	3 EA		
0168	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (E)	8 EA		
0169	4141000000-N	907	DISPOSAL OF SUPPORT, WOOD	8 EA		
0170	4158000000-N	907	DISPOSAL OF SIGN SYSTEM, WOOD	56 EA		
0171	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	752 SF		
0172	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	832 SF		
0173	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	384 SF		
0174	4415000000-N	1115	FLASHING ARROW BOARD	6 EA		
0175	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	4 EA		
0176	4430000000-N	1130	DRUMS	860 EA		
0177	4445000000-E	1145	BARRICADES (TYPE III)	208 LF		
0178	4455000000-N	1150	FLAGGER	60 DAY		
0179	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	3 EA		
0180	4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	1 EA		
0181	4480000000-N	1165	TMA	4 EA		
0182	4485000000-E	1170	PORTABLE CONCRETE BARRIER	5,220 LF		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0183	4500000000-E	1170	REMOVE & RESET PORTABLE CONC- RETE BARRIER	610 LF		
0184	4510000000-N	1190	LAW ENFORCEMENT	40 HR		
0185	4516000000-N	1180	SKINNY DRUM	500 EA		
0186	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	400 EA		
0187	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	20,359 LF		
0188	4686000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	24,986 LF		
0189	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	258,306 LF		
0190	4690000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 120 MILS)	35,807 LF		
0191	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	249 LF		
0192	4697000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	465 LF		
0193	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	9,926 LF		
0194	4702000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 120 MILS)	3,507 LF		
0195	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	609 LF		
0196	4721000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	32 EA		
0197	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	100 EA		
0198	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	51,288 LF		
0199	4815000000-E	1205	PAINT PAVEMENT MARKING LINES (6")	147,366 LF		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0200	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	208 LF		
0201	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	10 EA		
0202	4847020000-E	1205	POLYUREA PAVEMENT MARKING LINES (4", 30 MILS)	2,334 LF		
0203	4847040000-E	1205	POLYUREA PAVEMENT MARKING LINES (6", 30 MILS)	18,160 LF		
0204	4847080000-E	1205	POLYUREA PAVEMENT MARKING LINES (12", 30 MILS)	819 LF		
0205	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	80 LF		
0206	4855000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (6")	2,500 LF		
0207	4870000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (24")	20 LF		
0208	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	147 EA		
0209	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	2,693 EA		
0210	6000000000-E	1605	TEMPORARY SILT FENCE	503,715 LF		
0211	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	660 TON		
0212	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	32,100 TON		
0213	6012000000-E	1610	SEDIMENT CONTROL STONE	23,000 TON		
0214	6015000000-E	1615	TEMPORARY MULCHING	560.5 ACR		
0215	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	25,500 LB		
0216	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	128.5 TON		
0217	6024000000-E	1622	TEMPORARY SLOPE DRAINS	55,000 LF		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0218	6029000000-E	SP	SAFETY FENCE	70,000 LF		
0219	6030000000-E	1630	SILT EXCAVATION	65,100 CY		
0220	6036000000-E	1631	MATTING FOR EROSION CONTROL	79,000 SY		
0221	6037000000-E	SP	COIR FIBER MAT	700 SY		
0222	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	10,550 SY		
0223	6042000000-E	1632	1/4" HARDWARE CLOTH	14,200 LF		
0224	6043000000-E	SP	LOW PERMEABILITY GEOTEXTILE	1,300 SY		
0225	6046000000-E	1636	TEMPORARY PIPE FOR STREAM CROSSING	600 LF		
0226	6069000000-E	1638	STILLING BASINS	1,250 CY		
0227	6070000000-N	1639	SPECIAL STILLING BASINS	38 EA		
0228	6071012000-E	SP	COIR FIBER WATTLE	78,000 LF		
0229	6071020000-E	SP	POLYACRYLAMIDE (PAM)	36,350 LB		
0230	6071030000-E	1640	COIR FIBER BAFFLE	20,100 LF		
0231	6071050000-E	SP	*** SKIMMER (1-1/2")	53 EA		
0232	6071050000-E	SP	*** SKIMMER (2")	4 EA		
0233	6084000000-E	1660	SEEDING & MULCHING	753 ACR		
0234	6087000000-E	1660	MOWING	702 ACR		
0235	6090000000-E	1661	SEED FOR REPAIR SEEDING	5,400 LB		
0236	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	30 TON		
0237	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	18,675 LB		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0238	6108000000-E	1665	FERTILIZER TOPDRESSING	560.15	TON	
0239	6111000000-E	SP	IMPERVIOUS DIKE	2,100	LF	
0240	6114500000-N	1667	SPECIALIZED HAND MOWING	450	MHR	
0241	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	100	EA	
0242	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	12	EA	
0243	6120000000-E	SP	CULVERT DIVERSION CHANNEL	4,175	CY	
0244	6123000000-E	1670	REFORESTATION	0.1	ACR	
0245	6141000000-E	SP	GENERIC EROSION CONTROL ITEM NATURAL FIBER MATTING	445,000	SY	
0246	7060000000-E	1705	SIGNAL CABLE	5,950	LF	
0247	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	33	EA	
0248	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	4	EA	
0249	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	4	EA	
0250	7252000000-E	1710	MESSENGER CABLE (1/4")	14,550	LF	
0251	7264000000-E	1710	MESSENGER CABLE (3/8")	1,360	LF	
0252	7279000000-E	1715	TRACER WIRE	26,630	LF	
0253	7300000000-E	1715	UNPAVED TRENCHING (***** (1, 2"))	2,550	LF	
0254	7300000000-E	1715	UNPAVED TRENCHING (***** (2, 2"))	13,560	LF	
0255	7300000000-E	1715	UNPAVED TRENCHING (***** (3, 2"))	270	LF	
0256	7300000000-E	1715	UNPAVED TRENCHING (***** (4, 2"))	30	LF	

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0257	7300100000-E	1715	UNPAVED TRENCHING FOR TEMP-ORARY LEAD-IN	10 LF		
0258	7301000000-E	1715	DIRECTIONAL DRILL (***** (1, 2")	900 LF		
0259	7301000000-E	1715	DIRECTIONAL DRILL (***** (1, 6")	860 LF		
0260	7301000000-E	1715	DIRECTIONAL DRILL (***** (2, 2")	5,960 LF		
0261	7301000000-E	1715	DIRECTIONAL DRILL (***** (3, 2")	50 LF		
0262	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	42 EA		
0263	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	61 EA		
0264	7372000000-N	1721	GUY ASSEMBLY	35 EA		
0265	7396000000-E	1722	1/2" RISER WITH WEATHERHEAD	1 EA		
0266	7420000000-E	1722	2" RISER WITH WEATHERHEAD	14 EA		
0267	7430000000-N	1722	HEAT SHRINK TUBING RETROFIT KIT	22 EA		
0268	7432000000-E	1722	2" RISER WITH HEAT SHRINK TUBING	16 EA		
0269	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	1,850 LF		
0270	7456000000-E	1726	LEAD-IN CABLE (***** (14-2)	6,620 LF		
0271	7516000000-E	1730	COMMUNICATIONS CABLE (**FIBER) (24)	72,940 LF		
0272	7528000000-E	1730	DROP CABLE	10,000 LF		
0273	7540000000-N	1731	SPLICE ENCLOSURE	23 EA		
0274	7541000000-N	1731	MODIFY SPLICE ENCLOSURE	1 EA		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0275	7552000000-N	1731	INTERCONNECT CENTER	31	EA	
0276	7566000000-N	1733	DELINEATOR MARKER	23	EA	
0277	7575160000-E	1734	REMOVE EXISTING COMMUNICATIONS CABLE	5,190	LF	
0278	7576000000-N	SP	METAL STRAIN SIGNAL POLE	12	EA	
0279	7613000000-N	SP	SOIL TEST	20	EA	
0280	7614100000-E	SP	DRILLED PIER FOUNDATION	72	CY	
0281	7636000000-N	1745	SIGN FOR SIGNALS	15	EA	
0282	7684000000-N	1750	SIGNAL CABINET FOUNDATION	3	EA	
0283	7696000000-N	1751	CONTROLLERS WITH CABINET (***** (2070E)	17	EA	
0284	7901000000-N	1753	CABINET BASE EXTENDER	3	EA	
0285	7960000000-N	SP	METAL POLE FOUNDATION REMOVAL	4	EA	
0286	7972000000-N	SP	METAL POLE REMOVAL	4	EA	
0287	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV CAMERA ASSEMBLY	7	EA	
0288	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV CAMERA EXTENSION POLE	2	EA	
0289	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV WOOD POLE	5	EA	
0290	7980000000-N	SP	GENERIC SIGNAL ITEM CONTROLLER (TYPE 2070E)	3	EA	
0291	7980000000-N	SP	GENERIC SIGNAL ITEM DETECTOR CARD (TYPE 2070E)	136	EA	
0292	7980000000-N	SP	GENERIC SIGNAL ITEM DMS ACCESS LADDER	2	EA	

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0293	7980000000-N	SP	GENERIC SIGNAL ITEM DMS TYPE A	2 EA		
0294	7980000000-N	SP	GENERIC SIGNAL ITEM DMS TYPE A STRUCTURE	2 EA		
0295	7980000000-N	SP	GENERIC SIGNAL ITEM DMS TYPE B	6 EA		
0296	7980000000-N	SP	GENERIC SIGNAL ITEM DMS TYPE B STRUCTURE	6 EA		
0297	7980000000-N	SP	GENERIC SIGNAL ITEM ELECTRICAL SERVICE FOR ITS DEVICE	12 EA		
0298	7980000000-N	SP	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH	20 EA		
0299	7980000000-N	SP	GENERIC SIGNAL ITEM FIELD EQUIPMENT CABINET	6 EA		
0300	7980000000-N	SP	GENERIC SIGNAL ITEM FURNISH CCTV CAMERA ASSEMBLY	7 EA		
0301	7980000000-N	SP	GENERIC SIGNAL ITEM JUNCTION BOX MARKER	37 EA		
0302	7980000000-N	SP	GENERIC SIGNAL ITEM MICROWAVE VEHICLE DETECTION SYSTEM-MULTIPLE ZONES	9 EA		
0303	7980000000-N	SP	GENERIC SIGNAL ITEM WOOD PEDESTAL	2 EA		
0304	7992000000-E	SP	GENERIC SIGNAL ITEM DMS FOUNDATION	48 CY		
0381	0000970000-E	SP	GENERIC MISCELLANEOUS ITEM CLEARING ACCESS FOR DUKE	6.3 ACR		
0382	0000970000-E	SP	GENERIC MISCELLANEOUS ITEM SPECIALIZED CLEARING	14.31 ACR		
0383	0015000000-N	205	SEALING ABANDONED WELLS	25 EA		
0384	6045000000-E	SP	*** TEMPORARY PIPE (72")	85 LF		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0385	6135000000-E	SP	GENERIC EROSION CONTROL ITEM COMPOST BLANKET	5 ACR		
0386	1891000000-E	SP	GENERIC PAVING ITEM MEDIAN CROSSOVER	256 SY		

CULVERT ITEMS

0305	8126000000-N	414	CULVERT EXCAVATION, STA ***** (44+89.00-RP2AC-)	Lump Sum	L.S.	
0306	8126000000-N	414	CULVERT EXCAVATION, STA ***** (509+41.00-L-)	Lump Sum	L.S.	
0307	8133000000-E	414	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT	1,025 TON		
0308	8196000000-E	420	CLASS A CONCRETE (CULVERT)	2,346.4 CY		
0309	8217000000-E	425	REINFORCING STEEL (BRIDGE)	206,812 LB		

WALL ITEMS

0310	8801000000-E	SP	MSE RETAINING WALL NO ***** (1)	8,200 SF		
0311	8801000000-E	SP	MSE RETAINING WALL NO ***** (2)	4,600 SF		
0312	8801000000-E	SP	MSE RETAINING WALL NO ***** (3)	6,400 SF		
0313	8801000000-E	SP	MSE RETAINING WALL NO ***** (4)	5,400 SF		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
STRUCTURE ITEMS						
0314	8017000000-N	SP	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (177+67.00-L-)	Lump Sum	L.S.	
0315	8017000000-N	SP	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (287+62.50-L-)	Lump Sum	L.S.	
0316	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 138+31.09-L-LT)	Lump Sum	L.S.	
0317	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 138+31.09-L-RT)	Lump Sum	L.S.	
0318	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 227+57.02-L-LT)	Lump Sum	L.S.	
0319	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 227+57.02-L-RT)	Lump Sum	L.S.	
0320	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 44+71.82-Y4-)	Lump Sum	L.S.	
0321	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 506+32.25-L-LT)	Lump Sum	L.S.	
0322	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 506+32.25-L-RT)	Lump Sum	L.S.	
0323	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (1, 52+32.96-Y3-)	Lump Sum	L.S.	
0324	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2, 138+31.09-L-LT)	Lump Sum	L.S.	
0325	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2, 138+31.09-L-RT)	Lump Sum	L.S.	
0326	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2, 227+57.02-L-LT)	Lump Sum	L.S.	

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0327	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2, 227+57.02-L-RT)	Lump Sum	L.S.	
0328	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2, 506+32.25-L-LT)	Lump Sum	L.S.	
0329	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (2, 506+32.25-L-RT)	Lump Sum	L.S.	
0330	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3, 138+31.09-L-LT)	Lump Sum	L.S.	
0331	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT ** AT STATION ***** (3, 138+31.09-L-RT)	Lump Sum	L.S.	
0332	8112730000-N	450	PDA TESTING	38 EA		
0333	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	340,594 SF		
0334	8161000000-E	420	GROOVING BRIDGE FLOORS	308,222 SF		
0335	8175000000-E	420	CLASS AA CONCRETE (BRIDGE)	1,140.6 CY		
0336	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	4,001.5 CY		
0337	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (11+76.30-RP1AB-LT)	Lump Sum	L.S.	
0338	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (11+76.30-RP1AB-RT)	Lump Sum	L.S.	
0339	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (138+31.09-L-LT)	Lump Sum	L.S.	
0340	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (138+31.09-L-RT)	Lump Sum	L.S.	
0341	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (177+67.00-L-LT)	Lump Sum	L.S.	

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0342	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (177+67.00-L-RT)	Lump Sum	L.S.	
0343	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (227+57.02-L-LT)	Lump Sum	L.S.	
0344	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (227+57.02-L-RT)	Lump Sum	L.S.	
0345	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (287+62.50-L-LT)	Lump Sum	L.S.	
0346	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (287+62.50-L-RT)	Lump Sum	L.S.	
0347	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (44+71.82-Y4-)	Lump Sum	L.S.	
0348	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (506+32.25-L-LT)	Lump Sum	L.S.	
0349	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (506+32.25-L-RT)	Lump Sum	L.S.	
0350	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (516+87.37-L-LT)	Lump Sum	L.S.	
0351	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (516+87.37-L-RT)	Lump Sum	L.S.	
0352	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (52+32.96-Y3-)	Lump Sum	L.S.	
0353	8217000000-E	425	REINFORCING STEEL (BRIDGE)	605,741 LB		
0354	8224000000-E	425	EPOXY COATED REINFORCING STEEL (BRIDGE)	184,196 LB		
0355	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	47,027 LB		

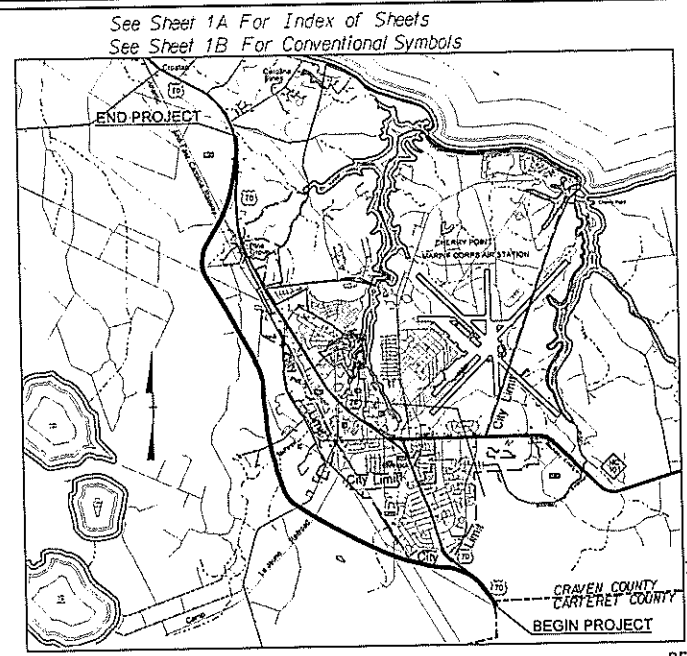
County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0356	8265000000-E	430	54" PRESTRESSED CONCRETE GIRDERS	8,099.63 LF		
0357	8277000000-E	430	MODIFIED 72" PRESTRESSED CONC GIRDERS	1,892.44 LF		
0358	8328000000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** PRESTRESSED CONCRETE PILES (12")	92 EA		
0359	8328000000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** PRESTRESSED CONCRETE PILES (20")	84 EA		
0360	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP12X53)	576 EA		
0361	8328400000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** GALVANIZED STEEL PILES (PP14X0.50)	28 EA		
0362	8329000000-E	450	12" PRESTRESSED CONCRETE PILES	5,020 LF		
0363	8336000000-E	450	20" PRESTRESSED CONCRETE PILES	4,760 LF		
0364	8364000000-E	450	HP12X53 STEEL PILES	43,970 LF		
0365	8385200000-E	450	PP ** X **** GALVANIZED STEEL PILES (14X0.50)	2,510 LF		
0366	8391000000-N	450	STEEL PILE POINTS	34 EA		
0367	8392000000-N	450	PIPE PILE PLATES	28 EA		
0368	8392500000-E	450	PREDRILLING FOR PILES	274 LF		
0369	8393000000-N	450	PILE REDRIVES	801 EA		
0370	8475000000-E	460	TWO BAR METAL RAIL	712.59 LF		
0371	8503000000-E	460	CONCRETE BARRIER RAIL	15,087.36 LF		

County : Carteret, Craven

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0372	8517000000-E	460	1'-***"X ***** CONCRETE PARA-PET (1'-2" X 2'-6")	744.24 LF		
0373	8531000000-E	462	4" SLOPE PROTECTION	12,882.3 SY		
0374	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	1,883 TON		
0375	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	2,128 SY		
0376	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0377	8706000000-N	SP	EXPANSION JOINT SEALS	Lump Sum	L.S.	
0378	8867000000-E	SP	GENERIC STRUCTURE ITEM HP14X73 METALLIZED STEEL PILES	34,740 LF		
0379	8867000000-E	SP	GENERIC STRUCTURE ITEM MODIFIED 74" PRESTRESSED CONCRETE GIRDERS	28,382.49 LF		
0380	8897000000-N	SP	GENERIC STRUCTURE ITEM PILE DRIVING EQUIPMENT SETUP FOR HP14X73 METALIZED STEEL PILES	396 EA		
1435/Mar04/Q11515159.31/D1791095182000/E386			Total Amount Of Bid For Entire Project :			

TIP PROJECT: R-1015
CONTRACT: C204177



VICINITY MAP

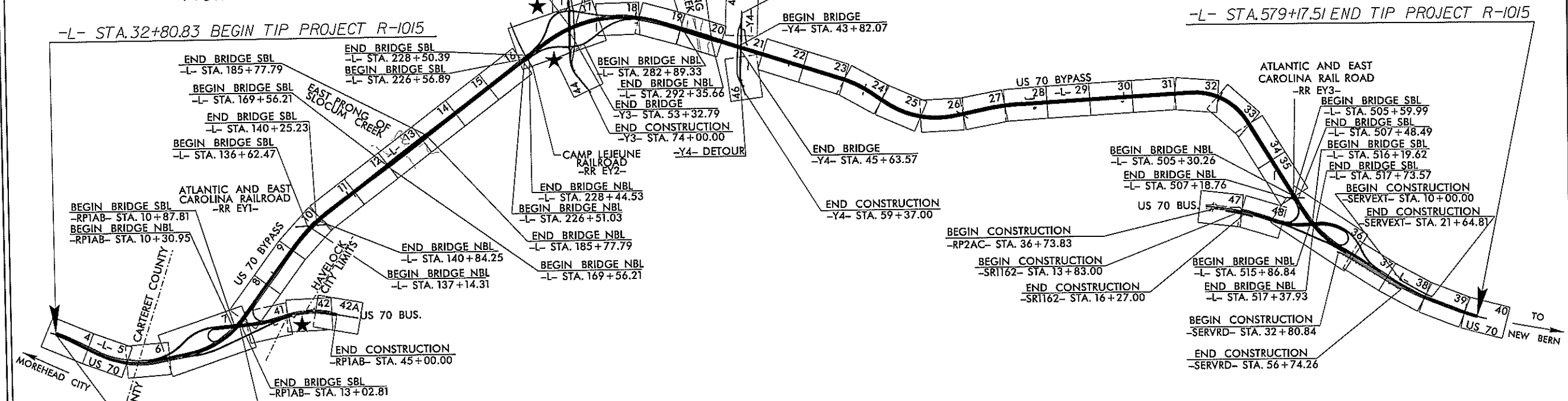
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CRAVEN / CARTERET COUNTY

LOCATION: US 70 (HAVELOCK BYPASS) FROM SOUTH OF CARTERET /CRAVEN COUNTY LINE TO SOUTH OF SR 1176, (CAROLINA PINES BLVD.)

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, WIDENING, CULVERTS
SIGNING, SIGNALS AND STRUCTURES**

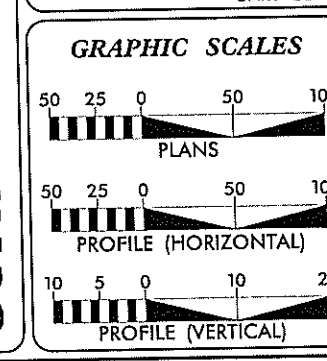
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-1015	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34360.1.2	NHF-70(49)	PE	
34360.2.4	NHF-70(49)	RW	
34360.2.5	NHF-70(49)	UTIL	
34360.3.4	NHF-70(49)	CONST	



THIS IS A CONTROLLED-ACCESS PROJECT WITH PUBLIC ACCESS BEING LIMITED TO INTERCHANGES, GATED ENCROACHMENTS HAVE BEEN ADDED TO PROVIDE RESTRICTED ACCESS FOR US DEPT. OF AGRICULTURE (CROATAN NATIONAL FOREST) AND FOR UTILITY OWNERS.

★ SIGNAL LOCATION
 NCDOT CONTACT: ROADWAY DESIGN PROJECT ENGINEER
 GARY LOVERING, P.E.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2015	= N/A
ADT 2035	= 22,900
K	= 9 %
D	= 60 %
T	= 6 % *
V	= 70 MPH
* TTST	3% DUAL 3%
FUNC. CLASS	= FREEWAY (FUTURE INTERSTATE)

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT R-1015	= 9.691 MILES
LENGTH OF STRUCTURE TIP PROJECT R-1015	= 0.657 MILES
TOTAL LENGTH OF TIP PROJECT R-1015	= 10.348 MILES
USED NBL FOR PROJECT LENGTHS	

Prepared for NCDOT in the Office of:

moffatt & nichol
 4700 FALLS OF NEUSE ROAD, SUITE 300
 RALEIGH, NORTH CAROLINA 27609
 919.971.4626 VOICE 919.971.4869 FAX IF-0105

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 16, 2016

LETTING DATE:
MARCH 19, 2019

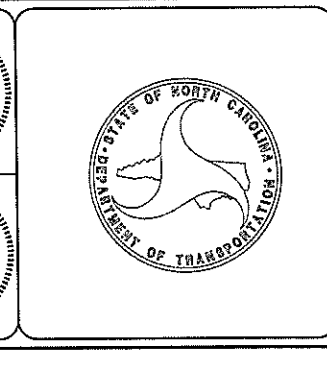
TIM REID, PE
PROJECT ENGINEER
TRENT HUFFMAN, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

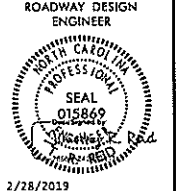
TRENT HUFFMAN, PE

ROADWAY DESIGN ENGINEER

TIMOTHY R. REID, PE



3-28-2016
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 gms:dfr



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
1C-1 thru 1C-8	SURVEY CONTROL SHEETS
2A-1 thru 2A-10	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2B-1 thru 2B-6	DETOUR DETAIL SHEETS
2B-7 thru 2B-9	BRIDGE SKETCHES
2C-1	SPECIAL JUNCTION BOX DETAIL
2C-2	CONCRETE ENDWALL FOR 84" DIAMETER PIPE
2C-3	MINIMUM DEPTH DROP INLET
2C-4	GUARDRAIL INSTALLATION
2C-5	STRUCTURE ANCHOR UNITS
2C-6	TYPE III REINFORCED BRIDGE APPROACH FILLS
2C-7	MEDIAN HAZARD PROTECTION
2C-8	USFS - WELDED PIPE GATE DETAIL
2C-9	COAL COMBUSTION PRODUCT PLACEMENT DETAIL
2C-10	DETAIL FOR MEDIAN CROSSOVER
2D-1 thru 2D-2	DRAINAGE DITCH DETAILS
2G-1	GEOTEXTILE FOR EMBANKMENT STABILIZATION DETAILS
2G-2 thru 2G-4	STANDARD TEMPORARY WALL
2H-1	STOCKPILE CONTAINMENT DETAIL
3B-1 thru 3B-2	EARTHWORK SUMMARY
3B-3 thru 3B-4	GUARDRAIL SUMMARY
3B-5	ROADWAY SUMMARIES
3D-1 thru 3D-20	DRAINAGE SUMMARIES
3G-1	GEOTECHNICAL SUMMARIES
3P-1	PARCEL INDEX
4 thru 4B	PLAN SHEETS
49 thru 93	PROFILE SHEETS
TMP-1 thru TMP-42	TRAFFIC MANAGEMENT PLANS
PMP-1 thru PMP-29	PAVEMENT MARKING PLANS
EC-1 thru EC-99	EROSION CONTROL PLANS
RF-1	REFORESTATION PLAN
S-1 thru S-34	SICHTING PLAN
SIG-1.0 thru SIG-23.0	SIGNAL PLANS
SIG M1 THRU M-8	SIGNAL PLANS - METAL POLES
SCP 1 THRU SCP 97	SIGNAL COMMUNICATION PLANS
UD-1 thru UD-29	UTILITY BY OTHERS PLAN
X-1A THRU X-1J	CROSS-SECTION SUMMARY SHEETS
X-1 THRU X-439	CROSS-SECTIONS
S01-1 THRU S01-41	STRUCTURE PLAN - S1
S02-01 THRU S02-541	STRUCTURE PLAN - S2
S03-01 THRU S03-546	STRUCTURE PLAN - S3
S04-01 THRU S04-546	STRUCTURE PLAN - S4
S05-01 THRU S05-546	STRUCTURE PLAN - S5
S06-01 THRU S06-546	STRUCTURE PLAN - S6
S07-01 THRU S07-536	STRUCTURE PLAN - S7
S08-01 THRU S08-536	STRUCTURE PLAN - S8
S09-01 THRU S09-532	STRUCTURE PLAN - S9
S10-01 THRU S10-544	STRUCTURE PLAN - S10
S11-01 THRU S11-544	STRUCTURE PLAN - S11
S12-01 THRU S12-41	STRUCTURE PLAN - S12
S13-01 THRU S13-539	STRUCTURE PLAN - S13
S14-01 THRU S14-540	STRUCTURE PLAN - S14
S15-01 THRU S15-544	STRUCTURE PLAN - S15
S16-01 THRU S16-544	STRUCTURE PLAN - S16
C01-01 THRU C01-010	CULVERT PLANS - C1
C02-01 THRU C02-08	CULVERT PLANS - C2
W1 THRU W6	WALL PLANS - W1 AND W2
W7 THRU W11	WALL PLANS - W3 AND W4

GENERAL NOTES: 2018 SPECIFICATION EFFECTIVE: 01-16-2018 REVISED:

GRADE LINES: GRADING AND SURFACING: 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.

CLEARING: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 111.

SUPERELEVATION: ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.05 USING THE RATE OF SUPERELEVATION AND RADIUS 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. 560.02

SIDE ROADS: THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

SUBSURFACE DRAINS: SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

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 NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".

END BENTS: THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES: UTILITY OWNERS ON THIS PROJECT ARE:
POWER - DUKE ENERGY (TRANS)
POWER - CITY OF NEW BERN
POWER - CARTERET-CRAVEN
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

RIGHT-OF-WAY MARKERS: ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

2018 ROADWAY ENGLISH STANDARD DRAWINGS

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:

2018 ROADWAY ENGLISH STANDARD DRAWINGS

DIVISION 2 - EARTHWORK
200.03 Method of Clearing - Method 111
225.01 Guide for Grading Subgrade - Interstate and Freeway
225.02 Guide for Grading Subgrade - Secondary and Local
225.03 Deceleration and Acceleration Lanes
225.04 Method of Obtaining Superlevation - Two Lane Pavement
225.05 Method of Obtaining Superlevation - Divided Highways
225.06 Method of Grading Sight Distance at Intersections
225.09 Guide for Shoulder and Ditch Transition at Grade Separations
235.01 Embankment Monitoring

DIVISION 3 - PIPE CULVERTS
300.01 Method of Pipe Installation
310.10 Driveway Pipe Construction

DIVISION 4 - MAJOR STRUCTURES
422.01 Bridge Approach Fills - Type I Standard Approach Fill

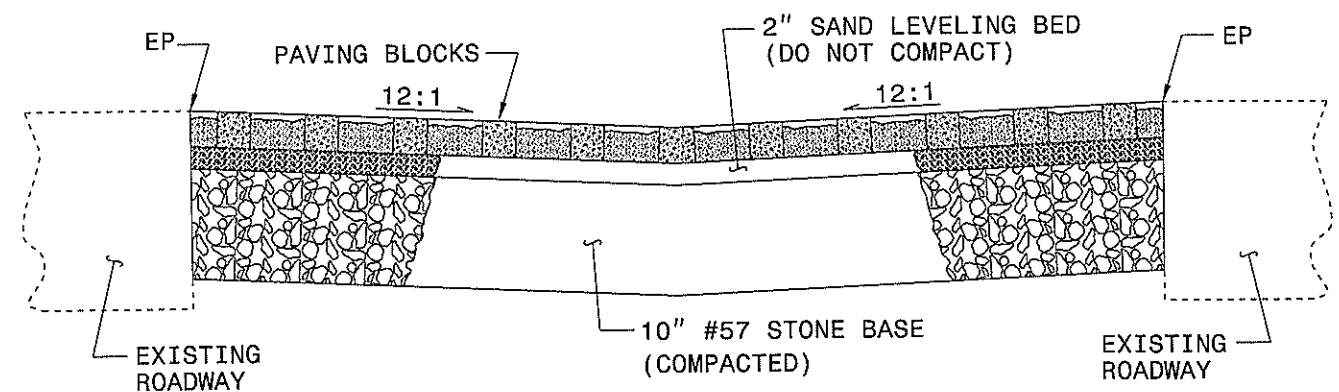
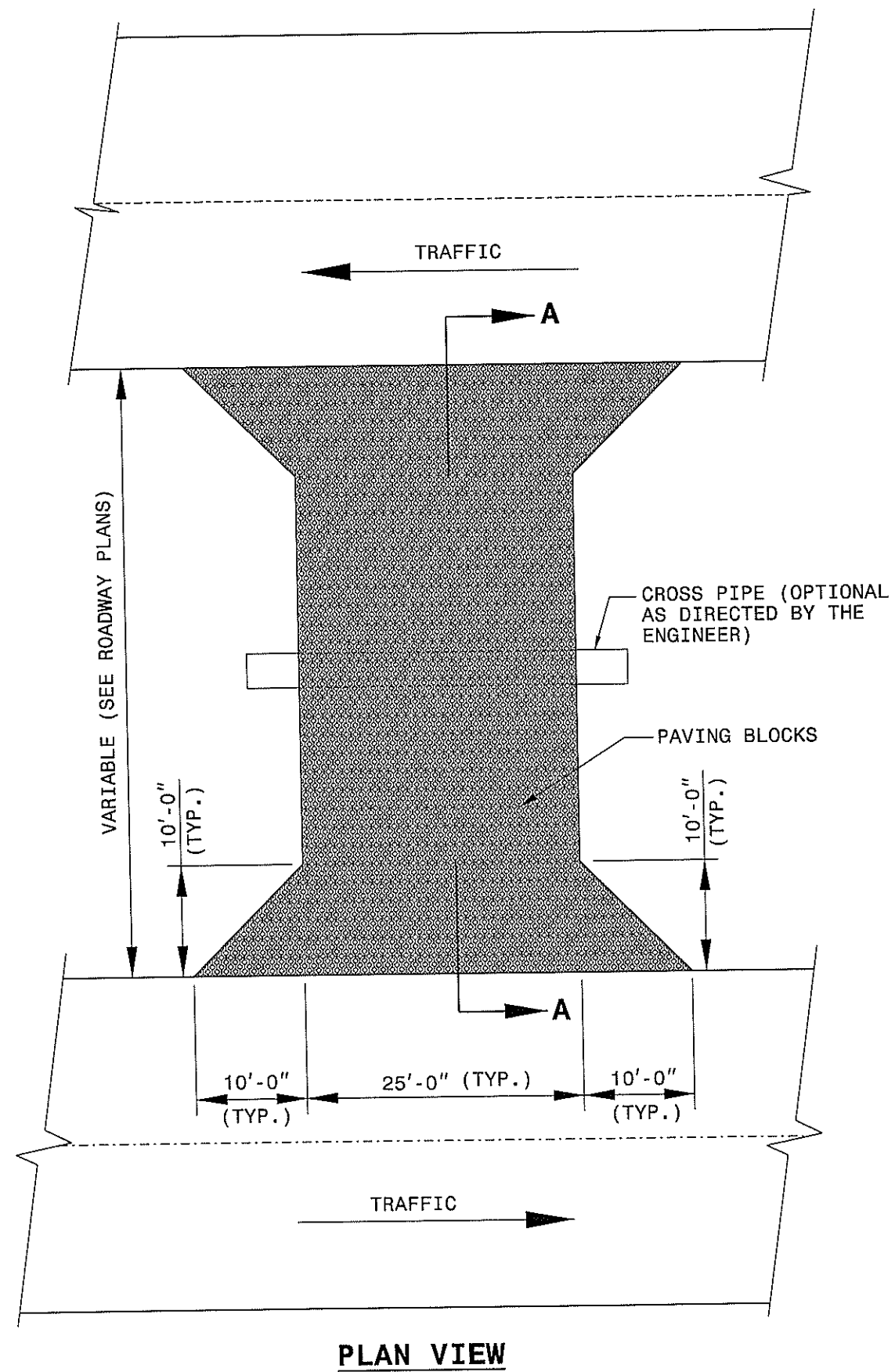
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method 1
560.02 Method of Shoulder Construction - High Side of Superelevated Curve - Method 11

DIVISION 6 - ASPHALT BASES AND PAVEMENTS
610.03 Guide for Paving Shoulders Under Bridges - Method 111
610.04 Guide for Paving Shoulders Under Bridges - Method IV
654.01 Pavement Repairs
665.01 Asphalt Shoulders - Milled Rubble Strips

DIVISION 8 - UTILITIES
806.01 Concrete Right-of-way Marker
806.02 Granite Right-of-way Marker
806.03 Concrete Corner of Access Marker
815.02 Subsurface Drain
838.01 Concrete Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
838.11 Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
840.00 Concrete Base Pad for Drainage Structures
840.01 Brick Catch Basin - 12" thru 54" Pipe
840.02 Concrete Catch Basin - 12" thru 54" Pipe
840.03 Frame, Grates and Head - for Use on Standard Catch Basin
840.14 Concrete Drop Inlet - 12" thru 30" Pipe
840.15 Brick Drop Inlet - 12" thru 30" Pipe
840.16 Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.17 Concrete Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.18 Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.19 Concrete Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.20 Frames and Wide Slot Flat Grates
840.22 Frames and Narrow Slot 50g Grates
840.24 Frames and Narrow Slot 50g Grates
840.25 Anchorage for Frames - Brick or Concrete or Precast
840.26 Brick Grated Drop Inlet Type 'A' - 12" thru 72" Pipe
840.27 Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.28 Brick Grated Drop Inlet Type 'D' - 12" thru 36" Pipe
840.29 Frames and Narrow Slot Flat Grates
840.34 Traffic Bearing Precast Drainage Structure
840.35 Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.45 Precast Drainage Structure
840.46 Traffic Bearing Precast Drainage Structure
840.54 Manhole Frame and Cover
840.66 Drainage Structure Steps
846.01 Concrete Curb, Gutter and Curb & Gutter
846.02 Drop Inlet Installation in Expressway Curb
846.04 Drop Inlet Installation in Shoulder Borm Curb
848.01 Concrete Sidewalk
852.01 Concrete Islands
852.04 Method for Placement of Drop Inlets in Grassed Median - Using 1'-6" Curb and Gutter
852.10 Median Construction - with Curb and Gutter
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 Guideway
866.02 Woven Wire Fence - with Wood Post
876.01 Rip Rap in Channels
876.02 Guide for Rip Rap at Pipe Outlets
876.04 Drainage Ditches with Class 'B' Rip Rap

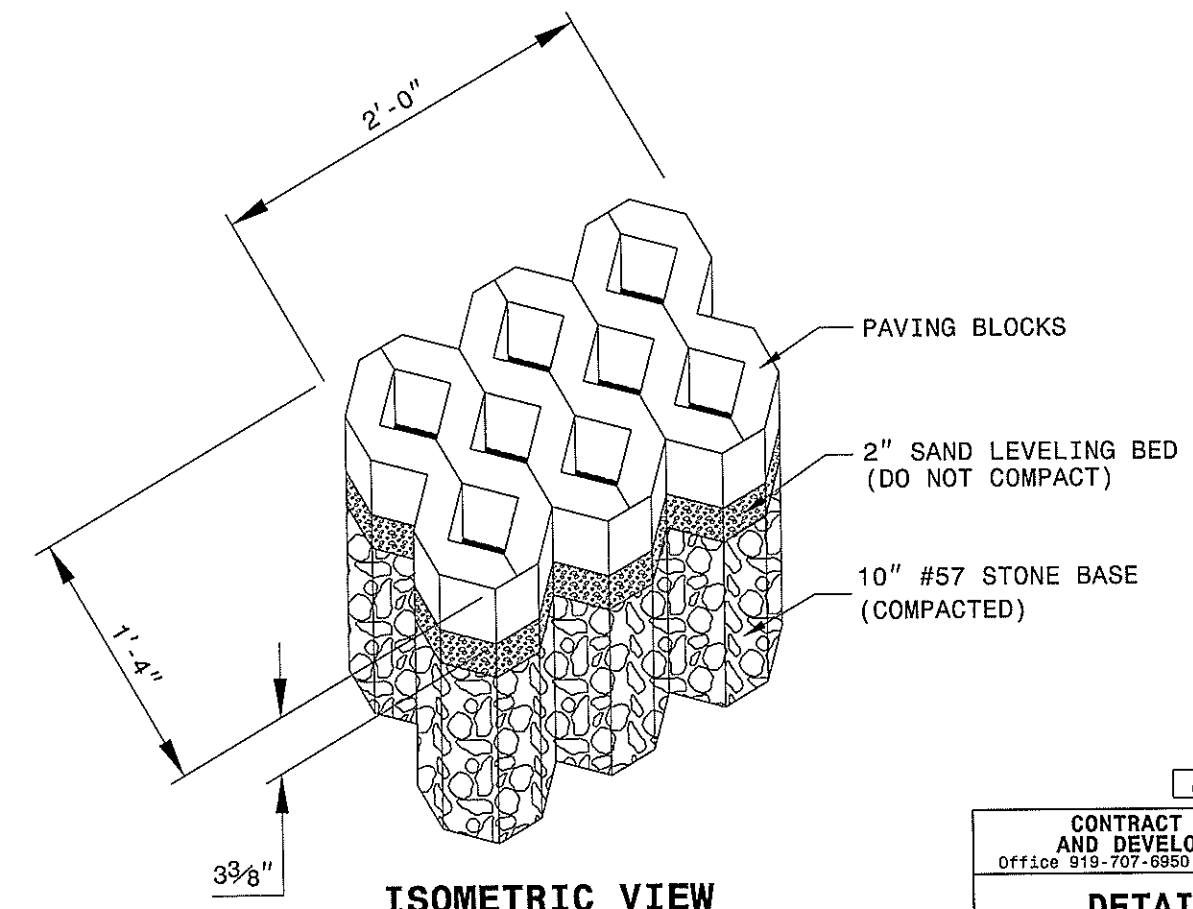
C:\2019\1015\Final\1015-Roadway\Fryer-1015.dwg, tsh.dgn

NEW SHEET



SECTION "A-A"

GENERAL NOTES:
FILL CORES OF PAVING BLOCKS WITH TOPSOIL AND SEED IN ACCORDANCE WITH SPECIFICATION SECTION 1660.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

DETAIL FOR MEDIAN CROSSOVER

ORIGINAL BY: C.O. Cuevas DATE: 10-00
 MODIFIED BY: E.E. WARD DATE: 11-03
 CHECKED BY: DATE:
 FILE SPEC.: s:\usr\details\stand\pavingblocks.dgn

29-JUN-2018 07:15 S:\Contracts\Contractors\Special Details\crossover\stand\pavingblocks.dgn jhewer tan AT 030-272539

DOUBLE FACED CABLE GUIDERAIL SUMMARY

SURVEY LINE	STATION	STATION	LENGTH	END ANCHOR UNIT	INTERMEDIATE ANCHOR UNIT	COMMENTS
-L-	32+83	94+84	6,718	2	3	
-L-	99+17	136+24	3,912	2	1	
-L-	141+24	150+56	1,092	2		
-L-	151+23	169+11	1,628	2		
-L-	186+23	226+09	4,189	2	1	
-L-	228+94	242+96	1,505	2		
-L-	246+16	282+45	3,938	2	1	
-L-	292+80	300+89	910	2		
-L-	303+94	402+16	9,822	2	4	
-L-	402+83	505+11	10,228	2	5	
-L-	507+68	515+70	904	2		
-L-	517+88	535+03	1,819	2		
SUBTOTAL:			46,665	24	15	
LESS TERMINAL ANCHOR UNITS			-1,200			
GRAND TOTALS:			45,465	24	15	
SAY:			46,000	24	15	
EXTRA GUIDERAIL POSTS			18			

ASPHALT PAVEMENT REMOVAL SUMMARY

SURVEY LINE	STATION	STATION	LOCATION LT/RT/VCL	YD'
-RPICD-	15+50	31+54	LT	7,351.56
-L-	519+21	519+61	RT	184.89
-L-	528+21	538+04	LT	1,622.11
-RP2AC-	70+50	70+75	LT	116.67
-RP2AC-	41+48	73+13	LT	184.00
-RP2CD-	0+48	1+45	RT	150.89
-RP2CD-	1+35	23+20	RT	8,053.33
-SERVRD-	32+81	56+74	LT	1,799.89
-SR1162-	13+83	16+27	LT&RT	555.33
-Y3DET-	37+90	67+08	LT&RT	8,334.33
-Y4DET-	35+34	57+97	LT&RT	6,040.44
-L-	25+47	27+30	MED/TMP	428.89
-L-	28+18	29+73	MED/TMP	397.11
-L-	34+65	58+35	MED/TMP	4,817.89
-L-	59+14	77+19	MED/TMP	2,483.11
-RP1AB-	24+10	30+43	MED/TMP	1,175.56
-RP1AB-	30+91	33+84	MED/TMP	539.22
-RP2AC-	45+00	57+73	MED/TMP	2,792.33
-RP2CD-	6+79	12+25	MED/TMP	341.33
-RP2CD-	12+92	20+34	MED/TMP	780.44
-L-	546+50	554+53	MED/TMP	1,023.89
-L-	558+43	559+46	MED/TMP	93.67
-L-	559+97	561+00	MED/TMP	97.11
-L-	581+24	582+29	MED/TMP	90.44
-L-	582+69	583+33	MED/TMP	53.44
TOTAL:				49,507.89
SAY:				49,510

NOTE:
 APPROXIMATE QUANTITIES ONLY. UNCLASSIFIED EXCAVATION,
 FINE GRADING, CLEARING AND GRUBBING, BREAKING OF EXISTING PAVEMENT,
 AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE
 CONTRACT LUMP SUM PRICE FOR "GRADING".

**SHOULDER BERM
 GUTTER SUMMARY**

SURVEY LINE	LOCATION	STATION	STATION	LENGTH
-L-	RT	118+55.00	137+27.00	1,872.0
-L-	RT	141+49.59	150+93.00	943.4
-L-	LT	118+58.00	128+35.00	977.0
-L-	MED	140+53.20	141+68.75	115.5
-L-	LT	145+89.00	151+00.00	511.0
-L-	RT	164+20.00	169+31.28	511.3
-L-	RT	186+02.72	226+21.39	4,018.7
-L-	LT	165+71.00	169+31.28	360.3
-L-	LT	186+02.72	226+37.95	4,035.2
-L-	RT	235+51.00	240+05.00	454.0
-L-	LT	228+79.43	229+00.00	20.6
-L-	RT	268+50.00	282+64.71	1,414.7
-L-	LT	267+08.00	282+64.71	1,556.7
-L-	RT	292+60.30	294+31.00	170.7
-L-	LT	292+60.30	295+05.00	244.7
-L-	RT	498+45.00	504+80.20	635.2
-L-	LT	499+50.00	505+56.66	606.7
-L-	LT	507+92.77	516+24.34	831.6
-L-	MED	517+66.68	517+85.00	18.3
-L-	LT	518+29.48	525+58.21	728.7
-Y3-	LT	44+65.00	45+66.44	101.4
-Y3-	RT	44+65.00	45+05.60	40.6
-Y3-	LT	47+60.00	51+04.76	344.8
-Y3-	RT	47+59.76	51+25.49	365.7
-Y3-	LT	53+45.93	56+84.00	338.1
-Y3-	RT	53+66.66	56+84.00	317.3
-Y3-	LT	58+76.80	62+43.99	375.0
-Y3-	RT	59+12.89	60+76.00	163.1
-Y4-	RT	39+95.00	43+64.14	369.1
-Y4-	RT	45+73.92	51+92.00	618.1
-Y4-	LT	39+95.00	43+71.72	376.7
-Y4-	LT	45+81.50	53+58.00	776.5
-RP1AB-	RT	4+94.97	9+85.46	490.5
-RP1AB-	RT	12+54.83	17+95.00	540.2
-RP1AB-	LT	4+93.00	10+99.89	606.9
-RP1BA-	LT	13+61.83	17+55.03	393.2
-Y3RPA-	RT	14+13.00	17+52.69	364.5
-Y3RPB-	LT	19+30.09	20+24.96	154.2
-Y3RPB-	LT	0+00.00	10+57.00	1,057.0
-Y3RPC-	RT	3+56.56	17+11.42	1,373.3
-RP2C-	RT	2+54.36	10+30.00	775.6
TOTAL:				29,968.2
SAY:				29,970

**SUMMARY OF BREAKING
 EXISTING ASPHALT PAVEMENT**

SURVEY LINE	STATION	STATION	LOCATION LT/RT/VCL	YD'
-L-	42+50	76+00	LT&RT	24,801.11
-RP1CD-	0+00	11+40	LT	3,703.22
-RP1CD-	0+00	15+50	LT	5,484.89
-Y3-	40+50	65+00	LT&RT	5,553.56
-Y4-	36+50	56+00	LT&RT	4,374.56
-RP2AC-	69+35	72+51	LT&RT	1,306.22
-RP2CD-	0+00	24+82	LT	12,342.67
-RP2CD-	20+50	24+82	RT	1,495.89
-L-	531+97	547+00	LT&RT	13,311.44
TOTAL:				47,572.44
SAY:				47,580

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PROJECT REFERENCE NO. R-1015	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER PROFESSIONAL SEAL 015869 2/28/2019	HYDRAULICS ENGINEER PROFESSIONAL SEAL 032581 2/28/2019
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
moffatt & nichol	

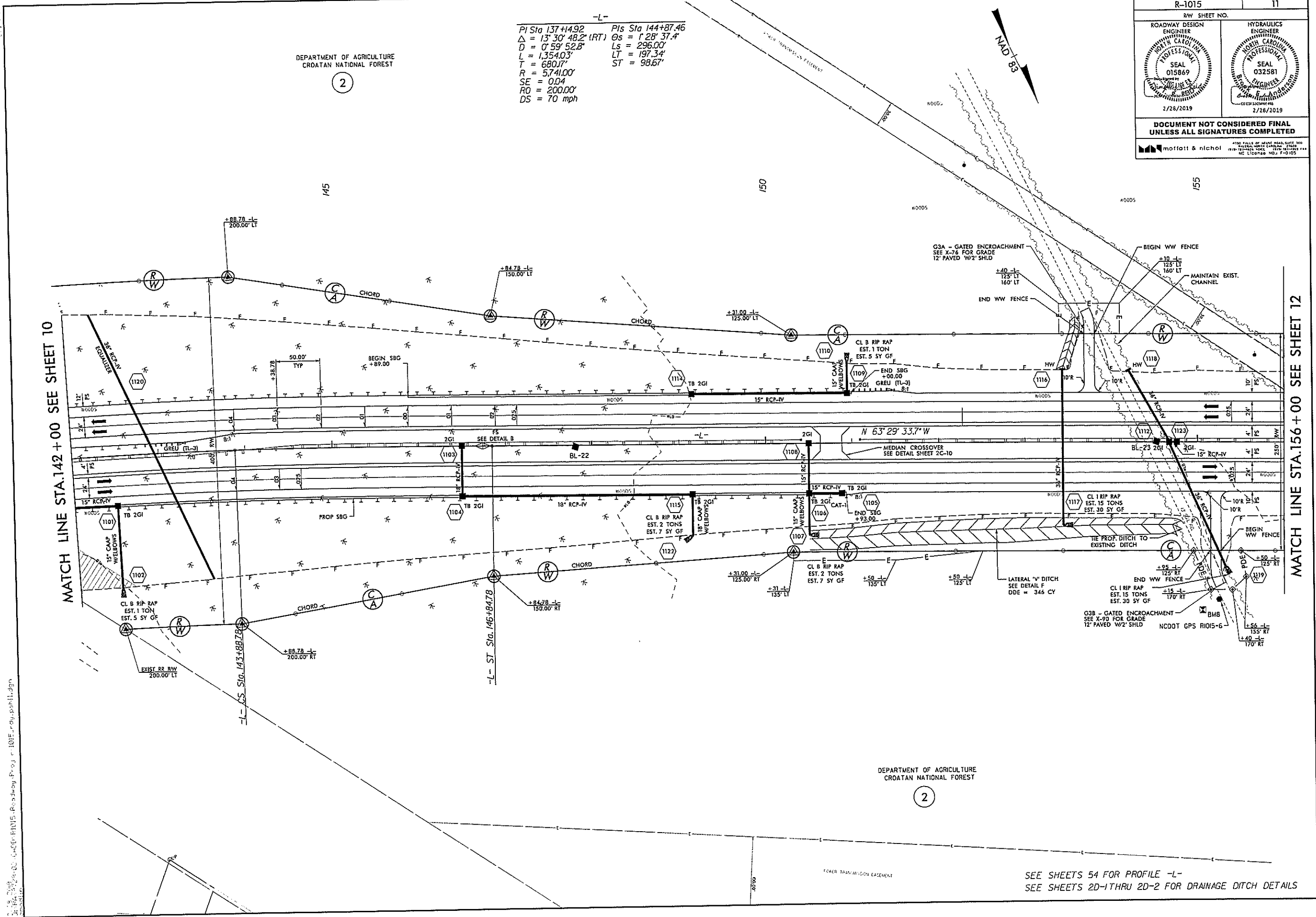
-L-

PI Sta 137+14.92	PIs Sta 144+87.46
$\Delta = 13^{\circ} 30' 48.2" (RT)$	$\Theta_s = 1^{\circ} 28' 37.4"$
$D = 0^{\circ} 59' 52.8"$	$L_s = 296.00'$
$L = 1,354.03'$	$LT = 197.34'$
$T = 680.77'$	$ST = 98.67'$
$R = 5,741.00'$	
$SE = 0.04$	
$RO = 200.00'$	
$DS = 70 \text{ mph}$	

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
(2)



MATCH LINE STA. 142 + 00 SEE SHEET 10

MATCH LINE STA. 156 + 00 SEE SHEET 12



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST
(2)

SEE SHEETS 54 FOR PROFILE -L-
SEE SHEETS 2D-1 THRU 2D-2 FOR DRAINAGE DITCH DETAILS

PROJECT REFERENCE NO. R-1015	SHEET NO. 28
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
2/28/2019	2/28/2019
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
moftatt & nichol	

-DRI-

PI Sta 10+75.64 Δ = 67° 31' 57.8" (LT) D = 143' 14" 22.0" L = 47.15' T = 26.74' R = 40.00'	PI Sta 13+27.52 Δ = 69° 08' 00.4" (LT) D = 143' 14" 22.0" L = 48.26' T = 27.56' R = 40.00'
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-L-

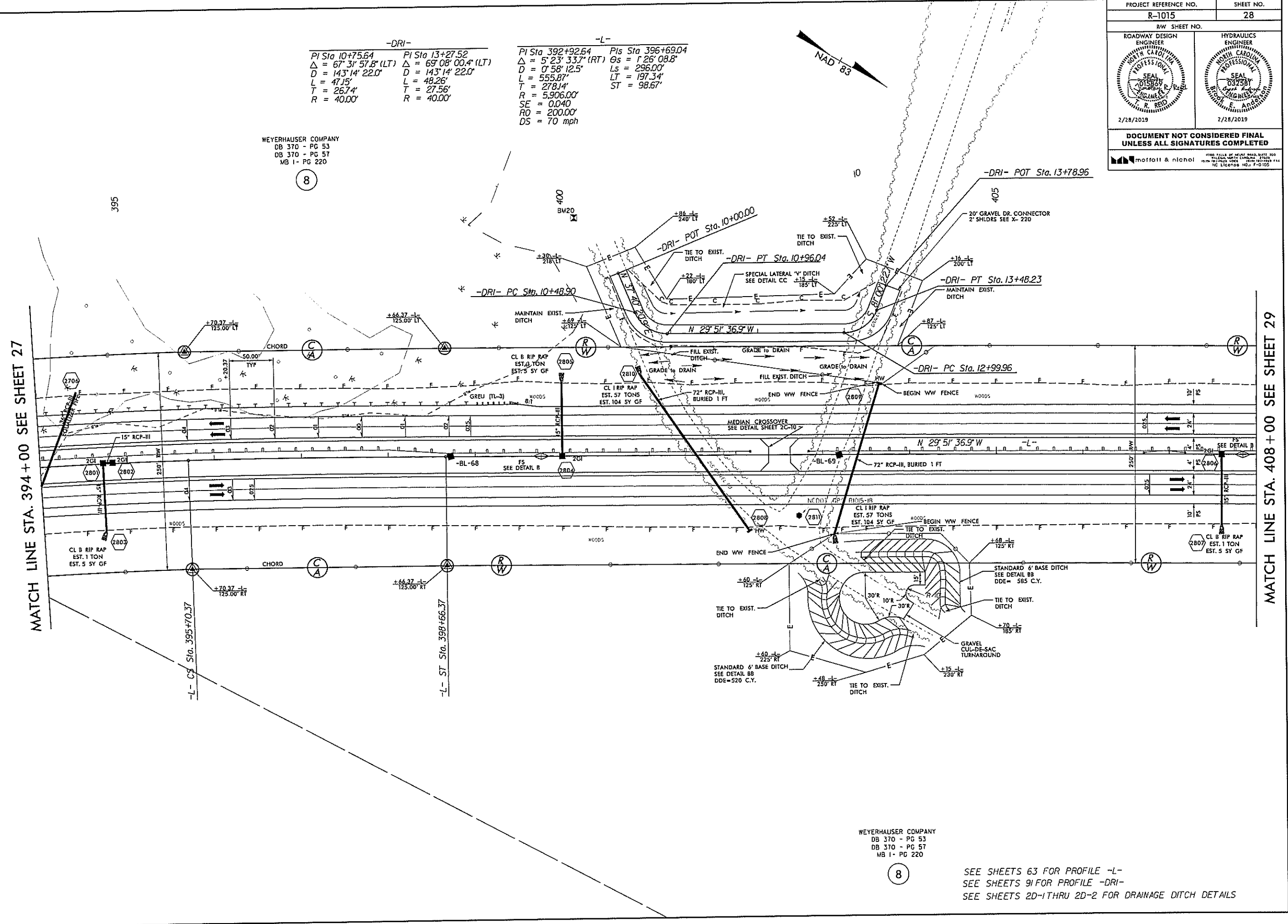
PI Sta 392+92.64 Δ = 5° 23' 33.7" (RT) D = 0° 58' 12.5" L = 555.87' T = 278.14' R = 5,906.00' SE = 0.040 RO = 200.00' DS = 70 mph	PI Sta 396+69.04 Os = 1° 26' 08.8" Ls = 296.00' LT = 197.34' ST = 98.67'
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WEYERHAUSER COMPANY
DB 370 - PG 53
DB 370 - PG 57
MB 1 - PG 220

MATCH LINE STA. 394 + 00 SEE SHEET 27

MATCH LINE STA. 408 + 00 SEE SHEET 29

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WEYERHAUSER COMPANY
DB 370 - PG 53
DB 370 - PG 57
MB 1 - PG 220

8

SEE SHEETS 63 FOR PROFILE -L-
SEE SHEETS 91 FOR PROFILE -DRI-
SEE SHEETS 2D-1 THRU 2D-2 FOR DRAINAGE DITCH DETAILS

Place Natural Fiber Mesh on Slopes Adjacent to Permitted Wetlands as Work Allows on NFS Lands.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

-L-

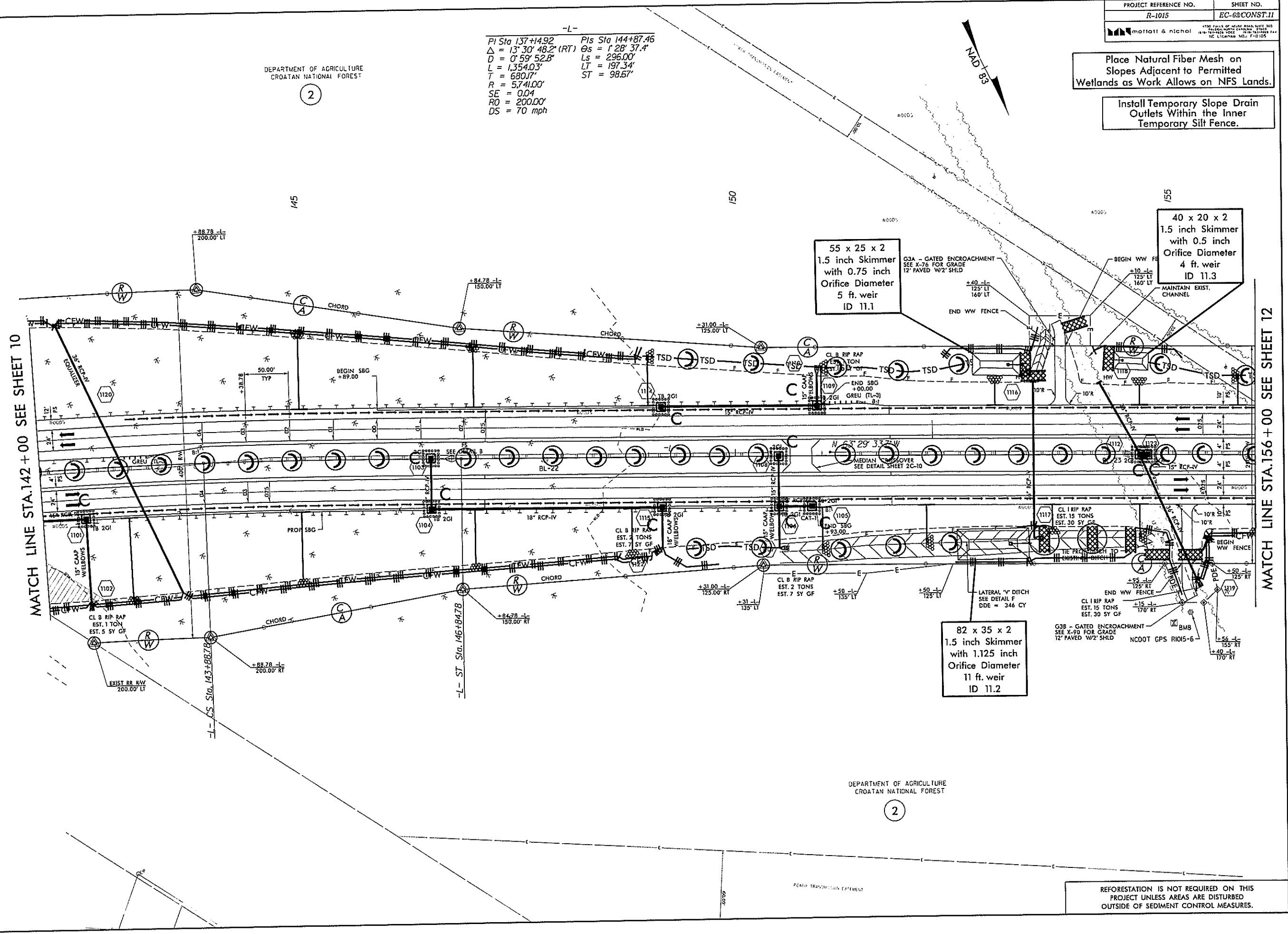
PI Sta 137+14.92	PIs Sta 144+87.46
$\Delta = 13^{\circ} 30' 48.2" (RT)$	$\Theta_s = 1^{\circ} 28' 37.4"$
$D = 0^{\circ} 59' 52.8"$	$L_s = 296.00'$
$L = 1,354.03'$	$LT = 197.34'$
$T = 680.17'$	$ST = 98.67'$
$R = 5,741.00'$	
$SE = 0.04$	
$RO = 200.00'$	
$DS = 70 \text{ mph}$	

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

MATCH LINE STA.142+00 SEE SHEET 10

MATCH LINE STA.156+00 SEE SHEET 12



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

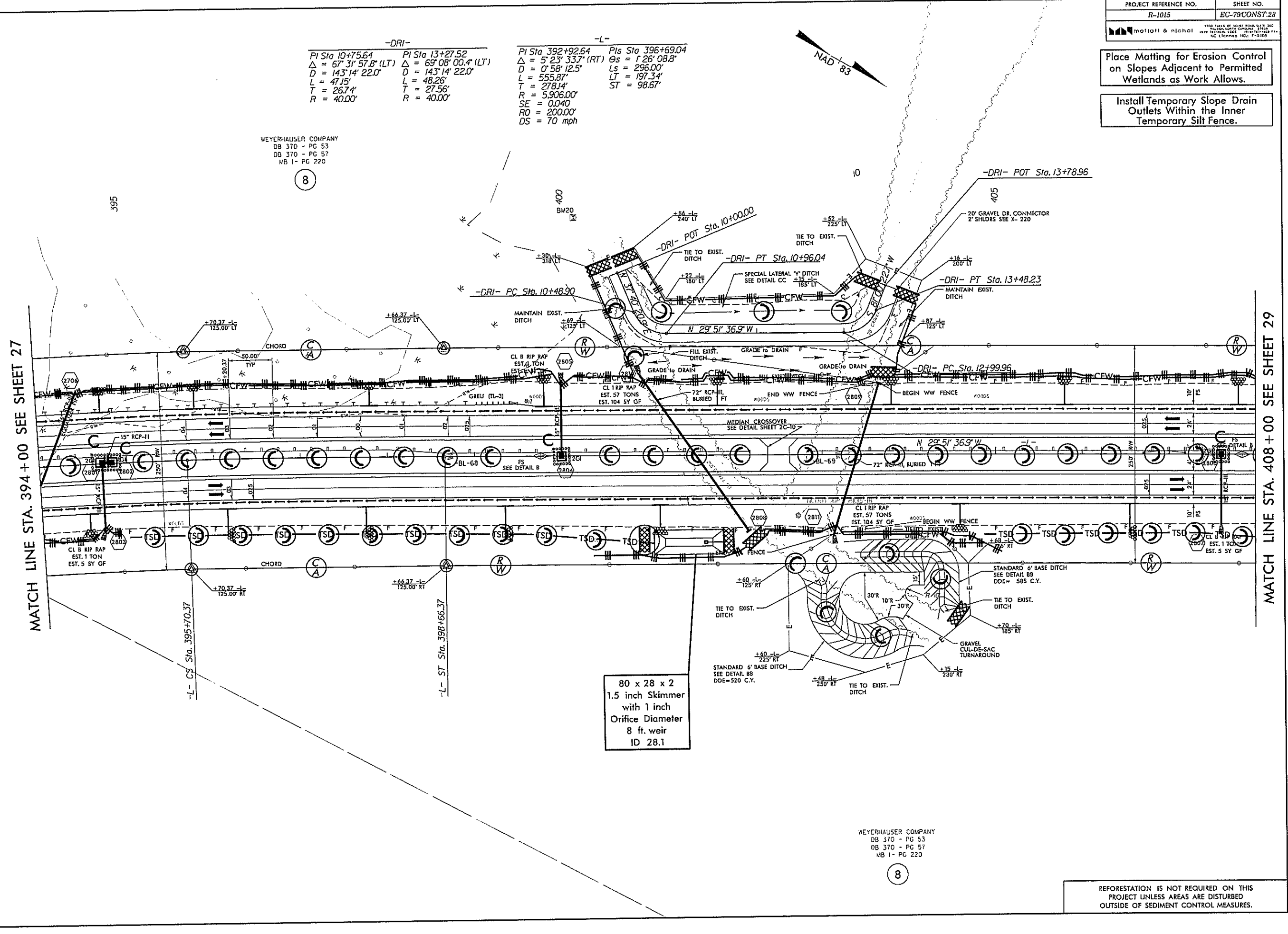
8.17.37
 2015-02-02 CADD-R1015-Roadside-F-1015-FEU-EC-62-PS4-11-Final.dgn
 11:58 AM

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

Install Temporary Slope Drain Outlets Within the Inner Temporary Silt Fence.

-DRI-		-L-	
PI Sta 10+75.64	PI Sta 13+27.52	PI Sta 392+92.64	PI Sta 396+69.04
$\Delta = 67^{\circ} 31' 57.8" (LT)$	$\Delta = 69^{\circ} 08' 00.4" (LT)$	$\Delta = 5^{\circ} 23' 33.7" (RT)$	$\Delta = 1^{\circ} 26' 08.8" (RT)$
$D = 143^{\circ} 14' 22.0"$	$D = 143^{\circ} 14' 22.0"$	$D = 0^{\circ} 58' 12.5"$	$D = 0^{\circ} 58' 12.5"$
$L = 47.15'$	$L = 48.26'$	$L = 555.87'$	$L = 197.34'$
$T = 26.74'$	$T = 27.56'$	$T = 278.14'$	$T = 98.67'$
$R = 40.00'$	$R = 40.00'$	$R = 5,906.00'$	$R = 5,906.00'$
		$SE = 0.040$	$SE = 0.040$
		$RO = 200.00'$	$RO = 200.00'$
		$DS = 70 \text{ mph}$	$DS = 70 \text{ mph}$



WEYERHAUSER COMPANY
 DB 370 - PG 53
 DB 370 - PG 57
 MB 1 - PG 220



WEYERHAUSER COMPANY
 DB 370 - PG 53
 DB 370 - PG 57
 MB 1 - PG 220

REFORESTATION IS NOT REQUIRED ON THIS PROJECT UNLESS AREAS ARE DISTURBED OUTSIDE OF SEDIMENT CONTROL MEASURES.

3.17.24
 5.5.2008
 2.4.02
 C:\DD\PROJECTS\Roadside-F-1015\REV. EC-79-F-34-28-Final.dgn

PROJECT REFERENCE NO. R-1015		SHEET NO. 12	
RAW SHEET NO.			
ROADWAY DESIGN ENGINEER 		HYDRAULICS ENGINEER 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
moffatt & nichol		<small>4000 Falls of the Roanoke, Suite 300 Falls Church, Virginia 22044 703-271-2200 FAX 703-271-2205 10000 Lee Highway, Suite 100 Falls Church, Virginia 22044 703-271-2200 FAX 703-271-2205</small>	

DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2



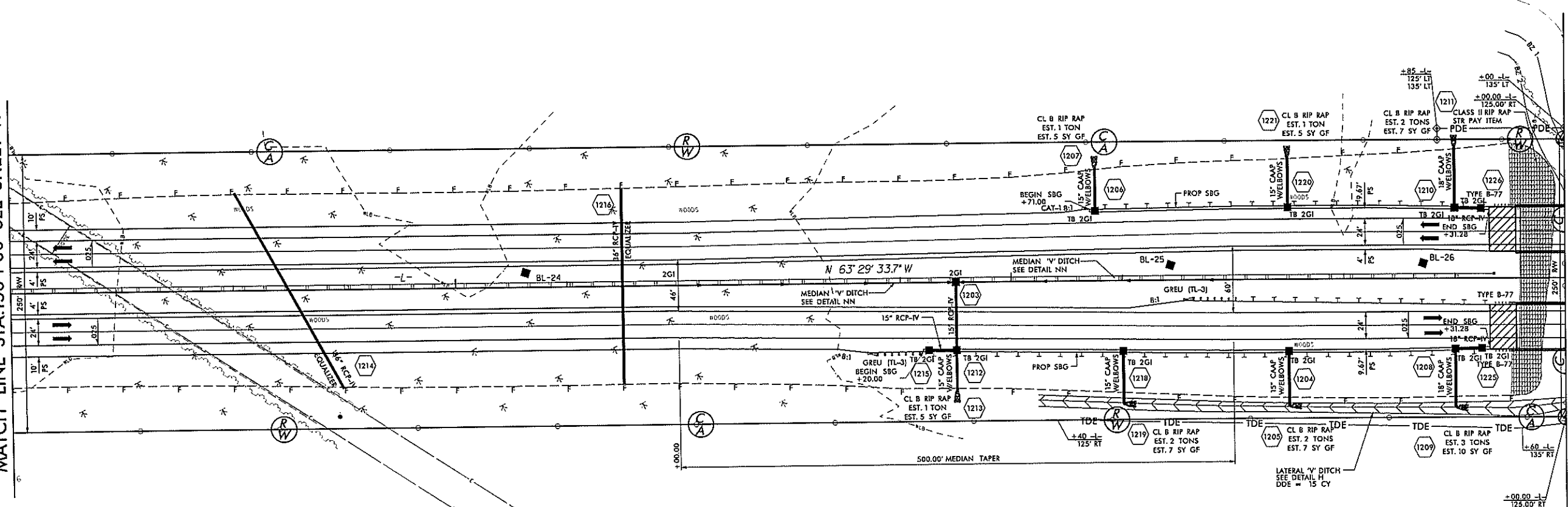
INTERMEDIATE
ELIMINATED 2 CABLE ANCHORS

160

165

MATCH LINE STA. 156 + 00 SEE SHEET 11

MATCH LINE STA. 170 + 00 SEE SHEET 13



DEPARTMENT OF AGRICULTURE
CROATAN NATIONAL FOREST

2

SEE SHEET 54 FOR PROFILE -L-
SEE SHEET 2B-7 SKETCH 3 FOR PROPOSED BRIDGE SKETCH
SEE SHEET 2D-1 THRU 2D-2 FOR DRAINAGE DITCH DETAILS
SEE SHEETS S5-1 THRU S5-45 AND S6-1 THRU S6-45 FOR BRIDGE PLANS

D:\Projects\1015_Fasaway\Fig\1015_Fasaway\1015_rdy_psh12.dgn