



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

March 08, 2021

**Addendum No. 1**

RE: Contract # C204603

WBS # 50401.3.GV1

FEDERAL-AID NO. NHPP-040-4(161)220

**Alamance County (I-5711)**

I-40/I-85 AND SR-1007 (MEBANE OAKS RD) IN MEBANE.

**March 16, 2021 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 Structure plans.

Sheet No.	Revision
S-4	Revised Bill of Materials to reflect quantity change shown below and added note for the removal of the existing portions of the deck.

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

The following revisions have been made to the Roadway plans.

Sheet No.	Revision
5	<p><b>Parcel 4:</b> Moved R/W Monument on RPA_Y1 to intersect Existing R/W Line.</p> <p><b>Parcel 4:</b> Revised R/W Tag of RPA_Y1 from +18.01/Exist R/W to +19.03/66.11' Rt</p> <p><b>Parcel 15:</b> Moved Proposed PUE Monuments to R/W and extended Prop PUE Lines to intersect R/W. (PUE's were slightly extended inside R/W) (+/- 0.01')</p> <p><b>Parcel 15:</b> Revised mislabeled PUE monument tag from -L-+87.48/94.91 RT to -L-+87.48/74.91' RT</p>
6	<p><b>Parcel 18:</b> Revised PUE monument tag from -L-+61.71/61.00' RT to -L- +61.71/61.08' RT</p>

Please void the above listed Sheets in your plans and staple the revised Sheets 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

The following revisions have been made to the proposal:

<u>Page No.</u>	<u>Revisions</u>
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 03-08-2021"

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

On the item sheets the following pay item revision has been made:

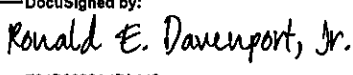
<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0302-8035000000-N-402	REMOVAL OF EXISTING STRUCTURE AT STATION 27+02.26 - L-	NEW ITEM	LUMP SUM

The Contractor's bid must include this pay item revision.

The electronic bidding file has been updated to reflect this revision. 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. Wright R. Archer, III, PE  
 Mr. Boyd Tharrington, PE  
 Mr. Jon Weathersbee, PE  
 Mr. Ken Kennedy, PE  
 Project File (2)

Mr. Ray Arnold, PE  
 Ms. Jaci Kincaid  
 Ms. Lori Strickland  
 Mr. Mike Gwyn  
 Ms. Penny Higgins  
 Mr. Kyle Kempf

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

PROPOSAL

**INCLUDES ADDENDUM No.1 DATED 03-08-2021**

DATE AND TIME OF BID OPENING: **MARCH 16, 2021 AT 2:00 PM**

CONTRACT ID C204603  
WBS 50401.3.GV1

FEDERAL-AID NO. NHPP-040-4(161)220  
COUNTY ALAMANCE  
T.I.P. NO. I-5711  
MILES 0.605  
ROUTE NO. I 40  
LOCATION I-40/I-85 AND SR-1007 (MEBANE OAKS RD) IN MEBANE.

TYPE OF WORK GRADING, DRAINAGE, PAVING, ITS, AND 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**

---

County: Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>ROADWAY ITEMS</b>						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0030000000-N	SP	TYPE II MODIFIED APPROACH FILL, STATION ***** (27+02.26 -L-)	Lump Sum	L.S.	
0004	0036000000-E	225	UNDERCUT EXCAVATION	2,475 CY		
0005	0043000000-N	226	GRADING	Lump Sum	L.S.	
0006	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB- BING	1 ACR		
0007	0134000000-E	240	DRAINAGE DITCH EXCAVATION	25 CY		
0008	0195000000-E	265	SELECT GRANULAR MATERIAL	1,975 CY		
0009	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	3,075 SY		
0010	0199000000-E	SP	TEMPORARY SHORING	140 SF		
0011	0255000000-E	SP	GENERIC GRADING ITEM HAULING & DISPOSAL OF PETRO- LEUM CONTAMINATED SOIL	60 TON		
0012	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	460 TON		
0013	0320000000-E	300	FOUNDATION CONDITIONING GEO- TEXTILE	1,420 SY		
0014	0343000000-E	310	15" SIDE DRAIN PIPE	1,024 LF		
0015	0344000000-E	310	18" SIDE DRAIN PIPE	124 LF		
0016	0345000000-E	310	24" SIDE DRAIN PIPE	280 LF		
0017	0348000000-E	310	**" SIDE DRAIN PIPE ELBOWS (15")	6 EA		
0018	0378000000-E	310	24" RC PIPE CULVERTS, CLASS III	44 LF		

County: Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0019	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	1,956 LF		
0020	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	240 LF		
0021	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	584 LF		
0022	0995000000-E	340	PIPE REMOVAL	2,034 LF		
0023	1099500000-E	505	SHALLOW UNDERCUT	350 CY		
0024	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	650 TON		
0025	1220000000-E	545	INCIDENTAL STONE BASE	1,000 TON		
0026	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	21,400 SY		
0027	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (3")	19,150 SY		
0028	1330000000-E	607	INCIDENTAL MILLING	2,110 SY		
0029	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	7,500 TON		
0030	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	5,100 TON		
0031	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	5,900 TON		
0032	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	1,200 TON		
0033	1524200000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5D	2,100 TON		
0034	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	1,195 TON		
0035	1577000000-E	620	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	120 TON		
0036	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	1,000 TON		

County: Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0037	1840000000-E	665	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	6,900 LF		
0038	2022000000-E	815	SUBDRAIN EXCAVATION	22.4 CY		
0039	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	100 SY		
0040	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	16.8 CY		
0041	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	100 LF		
0042	2070000000-N	815	SUBDRAIN PIPE OUTLET	1 EA		
0043	2077000000-E	815	6" OUTLET PIPE	6 LF		
0044	2264000000-E	840	PIPE PLUGS	0.029 CY		
0045	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	64 EA		
0046	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	2.4 LF		
0047	2363000000-N	840	FRAME WITH TWO GRATES, STD 840.**** (840.15)	6 EA		
0048	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	6 EA		
0049	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	1 EA		
0050	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	8 EA		
0051	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	25 EA		
0052	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	24 EA		
0053	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	3 EA		

County: Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0054	2535000000-E	846	***X *** CONCRETE CURB (8" X 12")	30 LF		
0055	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	8,970 LF		
0056	2591000000-E	848	4" CONCRETE SIDEWALK	2,260 SY		
0057	2605000000-N	848	CONCRETE CURB RAMPS	54 EA		
0058	2612000000-E	848	6" CONCRETE DRIVEWAY	40 SY		
0059	2627000000-E	852	4" CONCRETE ISLAND COVER	140 SY		
0060	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	140 SY		
0061	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	600 SY		
0062	2710000000-N	854	CONCRETE BARRIER TRANSITION SECTION	2 EA		
0063	2724000000-E	857	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	140 LF		
0064	2800000000-N	858	ADJUSTMENT OF CATCH BASINS	1 EA		
0065	3030000000-E	862	STEEL BEAM GUARDRAIL	700 LF		
0066	3045000000-E	862	STEEL BEAM GUARDRAIL, SHOP CURVED	175 LF		
0067	3145000000-E	862	EXTRA LENGTH GUARDRAIL POST (*** STEEL) (8')	41 EA		
0068	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	5 EA		
0069	3195000000-N	862	GUARDRAIL END UNITS, TYPE AT-1	3 EA		
0070	3215000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE III	2 EA		
0071	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	3 EA		

County: Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0072	3317000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE B-77	2 EA		
0073	3360000000-E	863	REMOVE EXISTING GUARDRAIL	605 LF		
0074	3503000000-E	866	WOVEN WIRE FENCE, 47" FABRIC	700 LF		
0075	3509000000-E	866	4" TIMBER FENCE POSTS, 7'-6" LONG	35 EA		
0076	3515000000-E	866	5" TIMBER FENCE POSTS, 8'-0" LONG	28 EA		
0077	3575000000-E	SP	GENERIC FENCING ITEM STEEL PIPE HANDRAIL	50 LF		
0078	3649000000-E	876	RIP RAP, CLASS B	30 TON		
0079	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	1,425 SY		
0080	4048000000-E	902	REINFORCED CONCRETE SIGN FOUNDATIONS	2 CY		
0081	4054000000-E	902	PLAIN CONCRETE SIGN FOUNDATIONS	1 CY		
0082	4057000000-E	SP	OVERHEAD FOOTING	36 CY		
0083	4060000000-E	903	SUPPORTS, BREAKAWAY STEEL BEAM	1,886 LB		
0084	4066000000-E	903	SUPPORTS, SIMPLE STEEL BEAM	317 LB		
0085	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	900 LF		
0086	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (23+15 -L-)	Lump Sum	L.S.	
0087	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (30+75 -L-)	Lump Sum	L.S.	
0088	4096000000-N	904	SIGN ERECTION, TYPE D	4 EA		
0089	4102000000-N	904	SIGN ERECTION, TYPE E	51 EA		



County : Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0090	4108000000-N	904	SIGN ERECTION, TYPE F	2 EA		
0091	4109000000-N	904	SIGN ERECTION, TYPE *** (OVER-HEAD) (A)	4 EA		
0092	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	6 EA		
0093	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	1 EA		
0094	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (GM RESTAURANT LOGO SIGNS)	1 EA		
0095	4149000000-N	907	DISPOSAL OF SIGN SYSTEM, OVER-HEAD	1 EA		
0096	4152000000-N	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	2 EA		
0097	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	56 EA		
0098	4158000000-N	907	DISPOSAL OF SIGN SYSTEM, WOOD	2 EA		
0099	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	1 EA		
0100	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	524 SF		
0101	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	624 SF		
0102	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	142 SF		
0103	4415000000-N	1115	FLASHING ARROW BOARD	6 EA		
0104	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	6 EA		
0105	4422000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)	40 DAY		
0106	4430000000-N	1130	DRUMS	580 EA		

County : Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0107	4434000000-N	SP	SEQUENTIAL FLASHING WARNING LIGHTS	40 EA		
0108	4435000000-N	1135	CONES	60 EA		
0109	4445000000-E	1145	BARRICADES (TYPE III)	96 LF		
0110	4447000000-E	SP	PEDESTRIAN CHANNELIZING DEVICES	72 LF		
0111	4455000000-N	1150	FLAGGER	480 DAY		
0112	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	7 EA		
0113	4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	3 EA		
0114	4480000000-N	1165	TMA	4 EA		
0115	4485000000-E	1170	PORTABLE CONCRETE BARRIER	3,205 LF		
0116	4490000000-E	1170	PORTABLE CONCRETE BARRIER (ANCHORED)	1,150 LF		
0117	4505000000-E	1170	REMOVE & RESET PORTABLE CONCRETE BARRIER (ANCHORED)	410 LF		
0118	4600000000-N	SP	GENERIC TRAFFIC CONTROL ITEM AUDIBLE WARNING DEVICES	6 EA		
0119	4600000000-N	SP	GENERIC TRAFFIC CONTROL ITEM PEDESTRIAN TRANSPORT SERVICE (PER TRIP)	1,500 EA		
0120	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	570 EA		
0121	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	13,979 LF		
0122	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	10,248 LF		
0123	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	3,397 LF		

County : Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0124	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	995 LF		
0125	4720000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)	12 EA		
0126	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	99 EA		
0127	4726110000-E	1205	HEATED-IN-PLACE THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	24 EA		
0128	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)	1,617 LF		
0129	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)	310 LF		
0130	4805000000-N	1205	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (II)	10 EA		
0131	4805000000-N	1205	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (IV)	2 EA		
0132	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	33,600 LF		
0133	4815000000-E	1205	PAINT PAVEMENT MARKING LINES (6")	33,000 LF		
0134	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	1,820 LF		
0135	4825000000-E	1205	PAINT PAVEMENT MARKING LINES (12")	400 LF		
0136	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	730 LF		
0137	4840000000-N	1205	PAINT PAVEMENT MARKING CHARACTER	36 EA		
0138	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	109 EA		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0139	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	5,200 LF		
0140	4855000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (6")	22,000 LF		
0141	4860000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (8")	800 LF		
0142	4870000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (24")	120 LF		
0143	4875000000-N	1205	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	18 EA		
0144	4891000000-E	1205	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	4,183 LF		
0145	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	35 EA		
0146	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	351 EA		
0147	5070000000-N	SP	STANDARD FOUNDATION ***** (TYPE R1)	3 EA		
0148	5155000000-E	1409	ELECTRICAL DUCT, TYPE BD, SIZE ***** (2")	155 LF		
0149	5160000000-E	1409	ELECTRICAL DUCT, TYPE JA, SIZE ***** (3")	45 LF		
0150	5160000000-E	1409	ELECTRICAL DUCT, TYPE JA, SIZE ***** (4")	135 LF		
0151	5185000000-E	1410	** #2 W/G FEEDER CIRCUIT (2)	310 LF		
0152	5215000000-E	1410	** #4 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5")	650 LF		
0153	5220000000-E	1410	** #2 W/G FEEDER CIRCUIT IN ***** CONDUIT (2, 1.5")	330 LF		

County : Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0154	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (IG18)	3 EA		
0155	5240000000-N	1411	ELECTRICAL JUNCTION BOXES ***** (LS18)	3 EA		
0156	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0157	5260000000-N	SP	GENERIC LIGHTING ITEM LUMINAIRE STORAGE	Lump Sum	L.S.	
0158	5270000000-N	SP	GENERIC LIGHTING ITEM RELOCATE LIGHT STANDARD	1 EA		
0159	5270000000-N	SP	GENERIC LIGHTING ITEM REMOVE LIGHT STANDARD FOUNDATION	1 EA		
0160	5270000000-N	SP	GENERIC LIGHTING ITEM REMOVE SINGLE ARM LIGHT STANDARD	1 EA		
0161	5325800000-E	1510	8" WATER LINE	10 LF		
0162	5326200000-E	1510	12" WATER LINE	325 LF		
0163	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	3,115 LB		
0164	5540000000-E	1515	6" VALVE	1 EA		
0165	5546000000-E	1515	8" VALVE	1 EA		
0166	5558000000-E	1515	12" VALVE	4 EA		
0167	5571000000-E	1515	*** TAPPING SLEEVE & VALVE (2")	1 EA		
0168	5648000000-N	1515	RELOCATE WATER METER	8 EA		
0169	5649000000-N	1515	RECONNECT WATER METER	2 EA		
0170	5653100000-E	1515	RELOCATE *** DCV BACKFLOW PREVENTION ASSEMBLY (1")	3 EA		

County: Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0171	5653100000-E	1515	RELOCATE *** DCV BACKFLOW PRE-VENTION ASSEMBLY (2")	3 EA		
0172	5672000000-N	1515	RELOCATE FIRE HYDRANT	3 EA		
0173	5673000000-E	1515	FIRE HYDRANT LEG	80 LF		
0174	5686000000-E	1515	*** WATER SERVICE LINE (1")	70 LF		
0175	5686000000-E	1515	*** WATER SERVICE LINE (2")	95 LF		
0176	5691200000-E	1520	6" SANITARY GRAVITY SEWER	10 LF		
0177	5691300000-E	1520	8" SANITARY GRAVITY SEWER	165 LF		
0178	5775000000-E	1525	4' DIA UTILITY MANHOLE	3 EA		
0179	5801000000-E	1530	ABANDON 8" UTILITY PIPE	134 LF		
0180	5828000000-N	1530	REMOVE UTILITY MANHOLE	2 EA		
0181	5882000000-N	SP	GENERIC UTILITY ITEM 12" INSERT VALVE	2 EA		
0182	6000000000-E	1605	TEMPORARY SILT FENCE	7,880 LF		
0183	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	525 TON		
0184	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	465 TON		
0185	6012000000-E	1610	SEDIMENT CONTROL STONE	790 TON		
0186	6015000000-E	1615	TEMPORARY MULCHING	7 ACR		
0187	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	500 LB		
0188	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	3.5 TON		
0189	6024000000-E	1622	TEMPORARY SLOPE DRAINS	200 LF		

County: Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0190	6029000000-E	SP	SAFETY FENCE	600 LF		
0191	6030000000-E	1630	SILT EXCAVATION	900 CY		
0192	6036000000-E	1631	MATTING FOR EROSION CONTROL	9,680 SY		
0193	6037000000-E	SP	COIR FIBER MAT	100 SY		
0194	6042000000-E	1632	1/4" HARDWARE CLOTH	3,240 LF		
0195	6071012000-E	SP	COIR FIBER WATTLE	90 LF		
0196	6071020000-E	SP	POLYACRYLAMIDE (PAM)	60 LB		
0197	6071030000-E	1640	COIR FIBER BAFFLE	105 LF		
0198	6071050000-E	SP	*** SKIMMER (1-1/2")	1 EA		
0199	6084000000-E	1660	SEEDING & MULCHING	6 ACR		
0200	6087000000-E	1660	MOWING	6 ACR		
0201	6090000000-E	1661	SEED FOR REPAIR SEEDING	100 LB		
0202	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25 TON		
0203	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	150 LB		
0204	6108000000-E	1665	FERTILIZER TOPDRESSING	4.5 TON		
0205	6114500000-N	1667	SPECIALIZED HAND MOWING	10 MHR		
0206	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	25 EA		
0207	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	12 EA		
0208	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE	45 EA		

County : Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0209	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE CLEANOUT	100 EA		
0210	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	35 EA		
0211	7060000000-E	1705	SIGNAL CABLE	24,800 LF		
0212	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	110 EA		
0213	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	21 EA		
0214	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	6 EA		
0215	7229000000-N	SP	APS DETECTOR STATION	8 EA		
0216	7230000000-N	SP	CENTRAL CONTROL UNIT APS DETECTOR STATION	1 EA		
0217	7252000000-E	1710	MESSENGER CABLE (1/4")	925 LF		
0218	7264000000-E	1710	MESSENGER CABLE (3/8")	5,250 LF		
0219	7279000000-E	1715	TRACER WIRE	2,500 LF		
0220	7288000000-E	1715	PAVED TRENCHING (***** (1, 2")	300 LF		
0221	7300000000-E	1715	UNPAVED TRENCHING (***** (1, 2")	2,350 LF		
0222	7300000000-E	1715	UNPAVED TRENCHING (***** (2, 2")	1,335 LF		
0223	7300000000-E	1715	UNPAVED TRENCHING (***** (3, 2")	100 LF		
0224	7301000000-E	1715	DIRECTIONAL DRILL (***** (1, 2")	55 LF		
0225	7301000000-E	1715	DIRECTIONAL DRILL (***** (2, 2")	1,125 LF		



County : Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0226	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	50 EA		
0227	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	20 EA		
0228	7360000000-N	1720	WOOD POLE	19 EA		
0229	7372000000-N	1721	GUY ASSEMBLY	41 EA		
0230	7396000000-E	1722	1/2" RISER WITH WEATHERHEAD	2 EA		
0231	7408000000-E	1722	1" RISER WITH WEATHERHEAD	5 EA		
0232	7420000000-E	1722	2" RISER WITH WEATHERHEAD	22 EA		
0233	7430000000-N	1722	HEAT SHRINK TUBING RETROFIT KIT	5 EA		
0234	7432000000-E	1722	2" RISER WITH HEAT SHRINK TUBING	3 EA		
0235	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	7,275 LF		
0236	7456000000-E	1726	LEAD-IN CABLE (*****)(14-2)	32,175 LF		
0237	7481000000-N	SP	SITE SURVEY	5 EA		
0238	7481240000-N	SP	CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT	17 EA		
0239	7481260000-N	SP	EXTERNAL LOOP EMULATOR PROCESSING UNIT	5 EA		
0240	7481280000-N	SP	RELOCATE CAMERA SENSOR UNIT	23 EA		
0241	7516000000-E	1730	COMMUNICATIONS CABLE (**FIBER)(12)	5,425 LF		
0242	7528000000-E	1730	DROP CABLE	450 LF		
0243	7540000000-N	1731	SPLICE ENCLOSURE	5 EA		
0244	7541000000-N	1731	MODIFY SPLICE ENCLOSURE	3 EA		

County : Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0245	7552000000-N	1731	INTERCONNECT CENTER	6 EA		
0246	7566000000-N	1733	DELINEATOR MARKER	11 EA		
0247	7575142010-N	1736	900MHZ SERIAL/ETHERNET SPREAD SPECTRUM RADIO	8 EA		
0248	7575142060-N	SP	MODIFY RADIO INSTALLATION	1 EA		
0249	7575160000-E	1734	REMOVE EXISTING COMMUNICATIONS CABLE	3,175 LF		
0250	7575180000-N	1735	CABLE TRANSFER	1 EA		
0251	7576000000-N	SP	METAL STRAIN SIGNAL POLE	20 EA		
0252	7613000000-N	SP	SOIL TEST	20 EA		
0253	7614100000-E	SP	DRILLED PIER FOUNDATION	140 CY		
0254	7636000000-N	1745	SIGN FOR SIGNALS	63 EA		
0255	7642100000-N	1743	TYPE I POST WITH FOUNDATION	20 EA		
0256	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	16 EA		
0257	7648000000-N	1746	RELOCATE EXISTING SIGN	1 EA		
0258	7684000000-N	1750	SIGNAL CABINET FOUNDATION	8 EA		
0259	7686000000-N	1752	CONDUIT ENTRANCE INTO EXISTING FOUNDATION	10 EA		
0260	7696000000-N	1751	CONTROLLERS WITH CABINET (*****) (TYPE 2070LX, BASE MOUNTED)	9 EA		
0261	7744000000-N	1751	DETECTOR CARD (TYPE 170)	89 EA		
0262	7901000000-N	1753	CABINET BASE EXTENDER	9 EA		
0263	7960000000-N	SP	METAL POLE FOUNDATION REMOVAL	1 EA		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0264	7972000000-N	SP	METAL POLE REMOVAL	1 EA		
0265	7980000000-N	SP	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH	9 EA		
0266	7980000000-N	SP	GENERIC SIGNAL ITEM JUNCTION BOX MARKER	6 EA		
0267	7980000000-N	SP	GENERIC SIGNAL ITEM REMOVE RADIO INSTALLATION	8 EA		
0268	7990000000-E	SP	GENERIC SIGNAL ITEM BACK PULL FIBER OPTIC CABLE	425 LF		

**WALL ITEMS**

0269	8801000000-E	SP	MSE RETAINING WALL NO **** (1)	1,160 SF		
0270	8802040000-E	453	CIP GRAVITY RETAINING WALLS	325 SF		

**STRUCTURE ITEMS**

0271	8105540000-E	411	3'-6" DIA DRILLED PIERS IN SOIL	65 LF		
0272	8105640000-E	411	3'-6" DIA DRILLED PIERS NOT IN SOIL	124 LF		
0273	8113000000-N	411	SID INSPECTIONS	3 EA		
0274	8114000000-N	411	SPT TESTING	6 EA		
0275	8115000000-N	411	CSL TESTING	3 EA		
0276	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	15,562 SF		
0277	8161000000-E	420	GROOVING BRIDGE FLOORS	25,401.6 SF		

County : Alamance

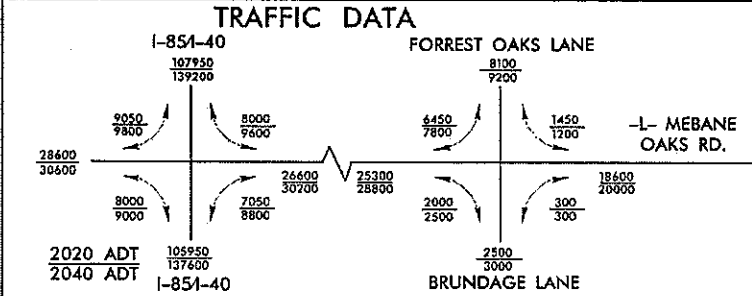
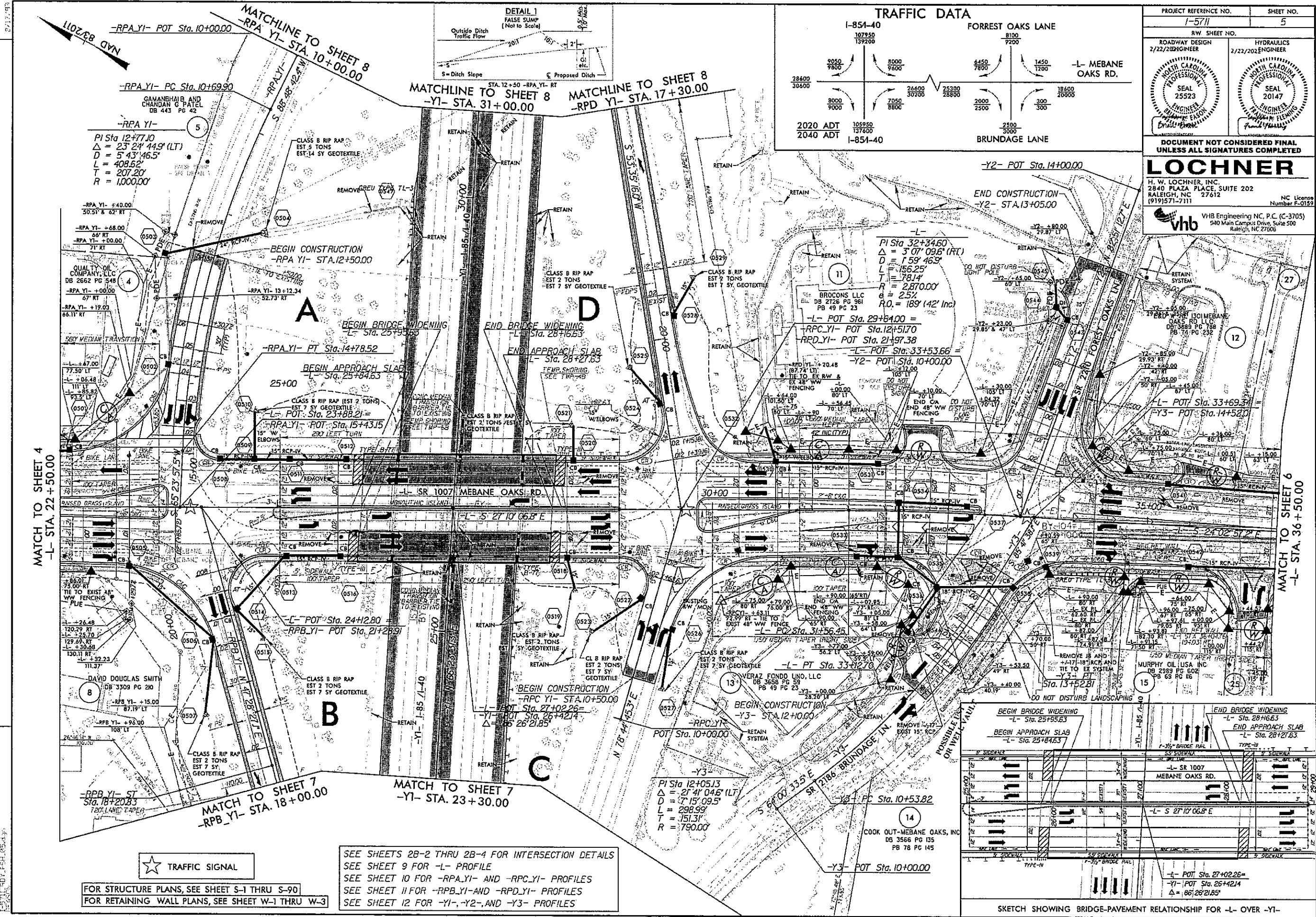
Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0278	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	297.4 CY		
0279	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (27+02.26 -L-)	Lump Sum	L.S.	
0280	8217000000-E	425	REINFORCING STEEL (BRIDGE)	52,536 LB		
0281	8224000000-E	425	EPOXY COATED REINFORCING STEEL (BRIDGE)	911 LB		
0282	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	7,630 LB		
0283	8280000000-E	440	APPROX ..... LBS STRUCTURAL STEEL	441,500 LS		
0284	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 12 X 53)	16 EA		
0285	8364000000-E	450	HP12X53 STEEL PILES	360 LF		
0286	8391000000-N	450	STEEL PILE POINTS	16 EA		
0287	8482000000-E	460	THREE BAR METAL RAIL	422.5 LF		
0288	8524000000-E	SP	*** CHAIN LINK FENCE (104")	427.83 LF		
0289	8531000000-E	462	4" SLOPE PROTECTION	635 SY		
0290	8559000000-E	SP	CLASS II, SURFACE PREPARATION	4.2 SY		
0291	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0292	8664000000-E	SP	SHOTCRETE REPAIRS	6.4 CF		
0293	8678000000-E	SP	EPOXY RESIN INJECTION	1,112 LF		
0294	8692000000-N	SP	FOAM JOINT SEALS	Lump Sum	L.S.	
0295	8727000000-N	SP	ELECTRICAL CONDUIT SYSTEM FOR SIGNALS AT STA***** (27+02.26 -L-)	Lump Sum	L.S.	

County : Alamance

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0296	8881000000-E	SP	GENERIC STRUCTURE ITEM POLYESTER POLYMER CONCRETE MATERIALS	62.1 CY		
0297	8892000000-E	SP	GENERIC STRUCTURE ITEM EPOXY COATING	647 SF		
0298	8893000000-E	SP	GENERIC STRUCTURE ITEM CONCRETE DECK REPAIR FOR POLYESTER POLYMER CONCRETE OVE RLAY	4.2 SY		
0299	8893000000-E	SP	GENERIC STRUCTURE ITEM PLACING & FINISHING POLYESTER POLYMER CONCRETE OVERLAY	2,234.5 SY		
0300	8893000000-E	SP	GENERIC STRUCTURE ITEM SCARIFYING BRIDGE DECK	1,464.5 SY		
0301	8893000000-E	SP	GENERIC STRUCTURE ITEM SHOTBLASTING BRIDGE DECK	2,234.5 SY		
0302	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (27+02.26 -L-)	Lump Sum	L.S.	

0824/Mar04/Q929048.609/D1534325746070/E302

Total Amount Of Bid For Entire Project :



PROJECT REFERENCE NO. 1-5711 SHEET NO. 5

RW SHEET NO. ROADWAY DESIGN 2/22/2022 ENGINEER HYDRAULICS 2/22/2022 ENGINEER

SEAL 25523 SEAL 20147

**LOCHNER**

H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License Number F-0159

VHB Engineering NC, P.C. (C-3705)  
540 Main Campus Drive, Suite 500  
Raleigh, NC 27606

MATCH TO SHEET 4  
-L- STA. 22+50.00

MATCH TO SHEET 6  
-L- STA. 36+50.00

PI Sta 12+77.10  
 $\Delta = 23^\circ 24' 44.9" (LT)$   
 $D = 5' 43" 46.5"$   
 $L = 408.62'$   
 $T = 207.20'$   
 $R = 1,000.00'$

PI Sta 32+34.60  
 $\Delta = 3^\circ 07' 09.6" (RT)$   
 $D = 1' 59" 46.9"$   
 $L = 156.25'$   
 $T = 78.14'$   
 $R = 2,870.00'$   
 $\theta = 2.5^\circ$   
 $\phi = 189^\circ (42' Inc)$

SEE SHEETS 2B-2 THRU 2B-4 FOR INTERSECTION DETAILS  
 SEE SHEET 9 FOR -L- PROFILE  
 SEE SHEET 10 FOR -RPA\_YI- AND -RPC\_YI- PROFILES  
 SEE SHEET 11 FOR -RPB\_YI- AND -RPD\_YI- PROFILES  
 SEE SHEET 12 FOR -Y1-, -Y2-, AND -Y3- PROFILES

FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-90  
 FOR RETAINING WALL PLANS, SEE SHEET W-1 THRU W-3

SKETCH SHOWING BRIDGE-PAVEMENT RELATIONSHIP FOR -L- OVER -Y1-

# LOCHNER

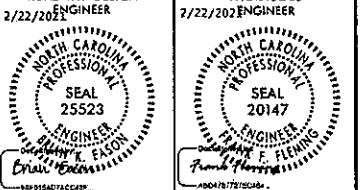
H. W. LOCHNER, INC.  
2840 PLAZA PLACE, SUITE 202  
RALEIGH, NC 27612  
(919) 571-7111

NC License  
Number F-0152

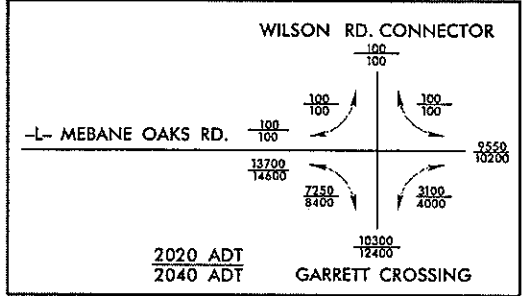
**vhb**  
VHB Engineering NC, P.C. (C-3705)  
940 Main Campus Drive, Suite 500  
Raleigh, NC 27605

PROJECT REFERENCE NO. 1-5711 SHEET NO. 6

R/W SHEET NO. ROADWAY DESIGN 2/22/20 ENGINEER HYDRAULICS 7/27/202 ENGINEER



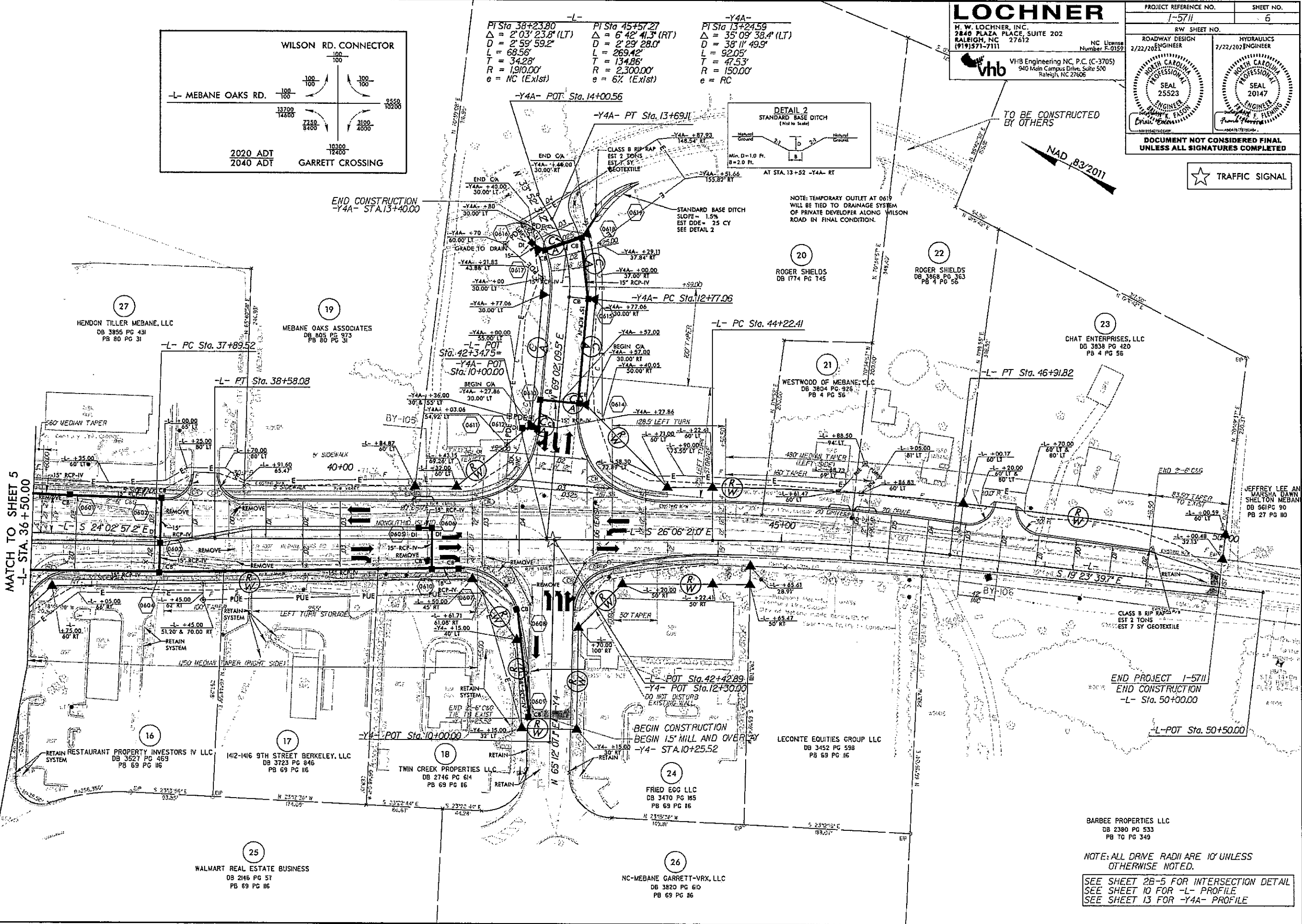
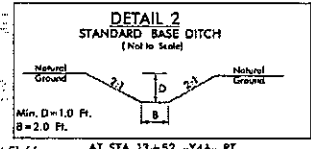
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



PI Sta 38+23.80 Δ = 2° 03' 23.8" (LT)  
D = 2' 59' 59.2"  
L = 68.58'  
T = 34.28'  
R = 1,910.00'  
e = NC (Exist)

PI Sta 45+57.27 Δ = 6° 42' 41.3" (RT)  
D = 2' 29' 28.0"  
L = 269.42'  
T = 134.86'  
R = 2,300.00'  
e = 6% (Exist)

PI Sta 13+24.59 Δ = 35° 09' 38.4" (LT)  
D = 38' 11" 49.9"  
L = 92.05'  
T = 47.53'  
R = 150.00'  
e = RC



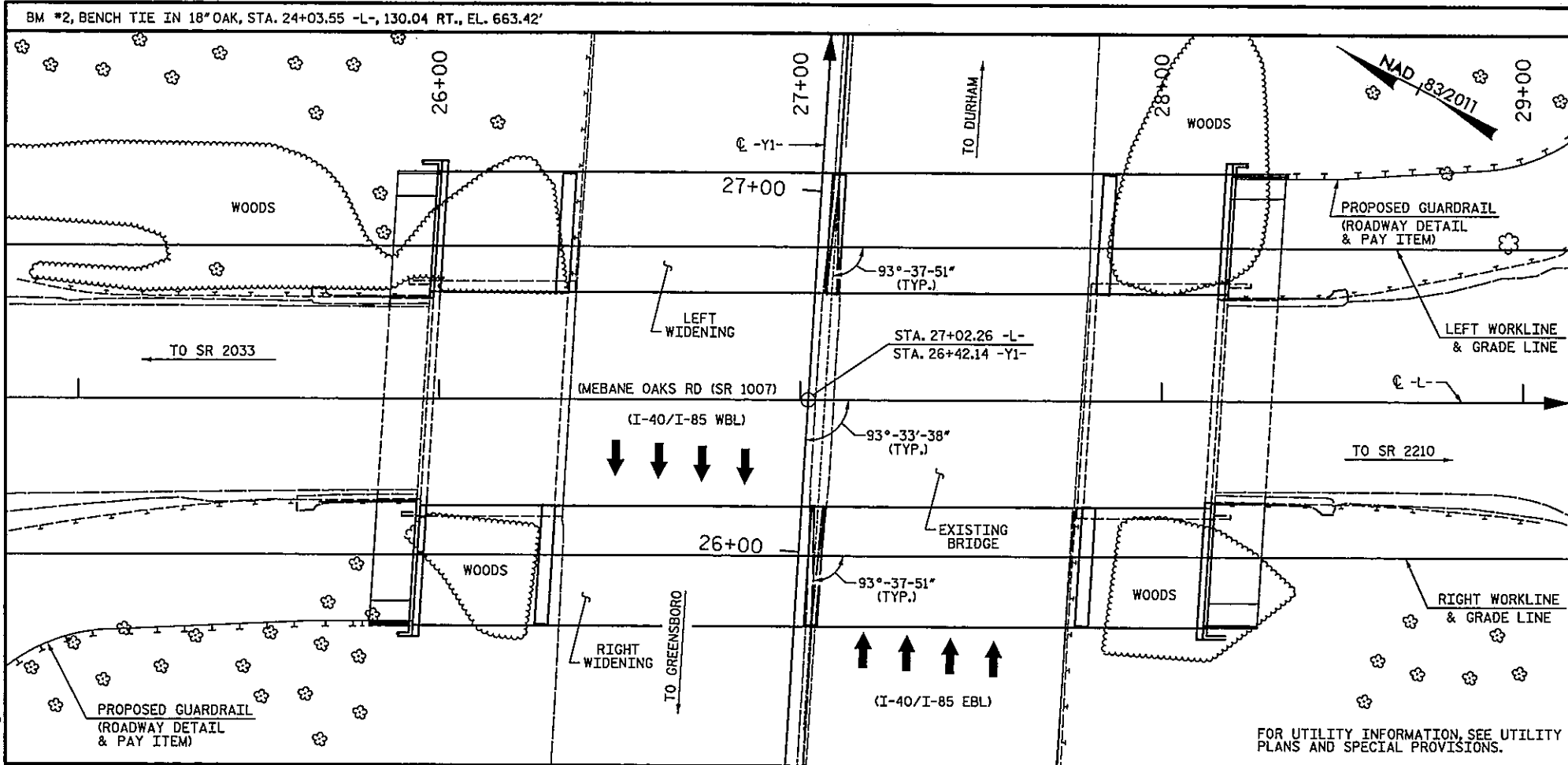
MATCH TO SHEET 5  
-L- STA. 36+50.00

END PROJECT 1-5711  
END CONSTRUCTION  
-L- Sta. 50+00.00

NOTE: ALL DRAIN RADII ARE 10' UNLESS OTHERWISE NOTED.  
SEE SHEET 2B-5 FOR INTERSECTION DETAIL  
SEE SHEET 10 FOR -L- PROFILE  
SEE SHEET 13 FOR -Y4A- PROFILE

REVISIONS

2/21/20



LOCATION SKETCH

NOTES:

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

THE ELEVATIONS AND CLEARANCES SHOWN ON THE PLANS AT THE POINTS OF MINIMUM VERTICAL CLEARANCE ARE FROM THE BEST INFORMATION AVAILABLE. PRIOR TO BEGINNING BRIDGE CONSTRUCTION, VERIFY THE ELEVATIONS ON THE EXISTING PAVEMENT AND CHECK THE CLEARANCE. REPORT ANY VARIATIONS TO THE ENGINEER. ANY PLAN REVISIONS NECESSARY TO ACHIEVE THE REQUIRED MINIMUM VERTICAL CLEARANCE WILL BE PROVIDED BY THE DEPARTMENT.

FOR MAINTENANCE AND PROTECTION OF TRAFFIC BENEATH PROPOSED STRUCTURE, SEE SPECIAL PROVISIONS.

ALL PAVEMENT MARKING WILL BE IN ACCORDANCE WITH THE PAVEMENT MARKING PLANS AND SHALL PROVIDE FOR BICYCLES.

REMOVABLE FORMS MAY BE USED IN LIEU OF METAL STAY-IN-PLACE FORMS IN ACCORDANCE WITH ARTICLE 420-3 OF THE STANDARD SPECIFICATIONS.

NEEDLE BEAMS WILL NOT BE ALLOWED UNLESS OTHERWISE CALLED FOR ON THE PLANS OR APPROVED BY THE ENGINEER.

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50W AND PAINTED IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

THE CLASS AA CONCRETE IN THE BRIDGE DECK SHALL CONTAIN FLY ASH OR GROUND GRANULATED BLAST FURNACE SLAG AT THE SUBSTITUTION RATE SPECIFIED IN ARTICLE 1024-1 AND IN ACCORDANCE WITH ARTICLES 1024-5 AND 1024-6 OF THE STANDARD SPECIFICATIONS. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE COST OF THE REINFORCED CONCRETE DECK SLAB.

THE LOCATION OF THE CONSTRUCTION JOINT IN THE DRILLED PIERS IS BASED ON AN APPROXIMATE PAVED SHOULDER ELEVATION. THE TOP OF DRILLED PIER SHALL BE ADJUSTED AS REQUIRED TO MAINTAIN THE TOP OF THE DRILLED PIER 1 FOOT BELOW THE PAVED SHOULDER ELEVATION.

THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE. THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

TOTAL BILL OF MATERIAL

REMOVAL OF EXISTING STRUCTURE	3'-6" DIA. DRILLED PIERS IN SOIL	3'-6" DIA. DRILLED PIERS NOT IN SOIL	SID INSPECTIONS	SPT TESTING	CSL TESTING	REINFORCED CONCRETE DECK SLAB	GROOVING BRIDGE FLOORS	CLASS A CONCRETE	BRIDGE APPROACH SLABS	REINFORCING STEEL	SPIRAL COLUMN REINFORCING STEEL	APPROX. 441,500 LBS STRUCTURAL STEEL	PILE DRIVING EQUIPMENT SETUP HP 12 X 53 STEEL PILES	
													LS	EA
LS	LF	LF	EA	EA	EA	SF	SF	CY	LS	LB	LB	LS	EA	
SUPERSTRUCTURE														LS
END BENT 1														8
BENT 1														8
BENT 2														8
BENT 3														8
END BENT 2														8
TOTAL														16

TOTAL BILL OF MATERIAL

HP 12x53 STEEL PILES	STEEL PILE POINTS	THREE BAR METAL RAIL	104" CHAIN LINK FENCE	4" SLOPE PROTECTION	ELASTOMERIC BEARINGS	FOAM JOINT SEALS	ELECTRICAL CONDUIT SYSTEM FOR SIGNALS	POLYESTER POLYMER CONCRETE OVERLAY MATERIALS	PLACING AND FINISHING FOR POLYESTER POLYMER CONCRETE OVERLAY	SHOTBLASTING BRIDGE DECK	
											NO.
SUPERSTRUCTURE											
END BENT 1											
BENT 1											
BENT 2											
BENT 3											
END BENT 2											
TOTAL											

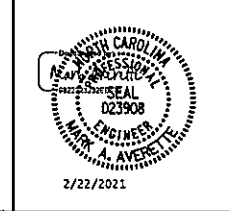
SAMPLE BAR REPLACEMENT

SIZE	LENGTH
#3	6'-2"
#4	7'-4"
#5	8'-6"
#6	9'-8"
#7	10'-10"
#8	12'-0"
#9	13'-2"
#10	14'-6"
#11	15'-10"

NOTE: SAMPLE BAR REPLACEMENT LENGTHS BASED ON 30" (SAMPLE LENGTH) PLUS TWO SPLICE LENGTHS AND Fy = 60ksi.

NOTE: SEE SHEET S-76 FOR TOTAL BILL OF MATERIAL FOR PRESERVATION

PLANS PREPARED BY:  
**SE & A**  
 IMPSON ENGINEERS ASSOCIATES  
 5640 Dillard Drive  
 Suite 200  
 Cary, NC 27518  
 (919) 852-0468  
 (919) 852-0588 (Fax)  
 www.impsonengr.com  
 LICENSE NO. C-2521



PROJECT NO. I-5711  
ALAMANCE COUNTY  
 STATION: STA. 27+02.26 -L-

SHEET 4 OF 4  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
**GENERAL DRAWING**  
 FOR BRIDGE ON MEBANE OAKS  
 ROAD OVER I-40/I-85  
 BETWEEN SR 2033 AND SR 2210

REVISIONS			SHEET NO.		
NO.	BY	DATE	NO.	BY	DATE
1	MA	2-22-21	3		
2			4		

TOTAL SHEETS 89

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ADDED PAY ITEM AND NOTE

2/22/2021 10:29:04 AM G:\Projects\2017\I-5711\Structures\Drawings\Final\401-5711-SMU-GD-000177.dgn