



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

September 13, 2021

Addendum No. 1

RE: Contract # C203649

WBS # 40255.3.3

FA# STP-1308 (12)

Onslow County (U-4906)

SR-1308 (GUM BRANCH RD) FROM WEST OF SR-1313 (MILLS FIELDS ROAD)
TO EAST OF SR-1324 (RAMSEY ROAD)

September 21, 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 Roadway plans.

Sheet No.	Revision
1A	1C thru 1C-2 removed from Index of Sheets. RW01 thru RW26 added to Index of Sheets.
(Removed) 1C thru 1C-2	Location and Surveys updated project information to create new RW sheets and to remove the old 1C sheets.
(New) RW01 thru RW26	Location and Surveys updated project information to create new RW sheets and to remove the old 1C sheets.
7, 23, 26	Updated plans sheets due to a revision to the buffer zones.
TMP-1, TMP-1A, TMP-1B, TMP-3, TMP-9	Updated Traffic Control sheets for lane shift and the addition of portable concrete barrier while a water main is being replaced at the end of the project.
(New) TMP-1C, TMP-9A	New Traffic Control sheets for lane shift and the addition of portable concrete barrier while a water main is being replaced at the end of the project.

Please void the above listed existing Sheets in your plans and staple the revised Sheets thereto. Staple New Sheets in the appropriate place 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. 1 Dated 09-13-2021"

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

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

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0068-4400000000-E-1110	WORK ZONE SIGNS (STATIONARY)	1,107 SF	1,123 SF
0080-4650000000-N-1251	TEMPORARY RAISED PAVEMENT MARKERS	659 EA	682 EA
0081-4685000000-E-1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	120,053 LF	123,191 LF
0085-4810000000-E-1205	PAINT PAVEMENT MARKING LINES (4")	252,025 LF	261,762 LF
0086-4820000000-E-1205	PAINT PAVEMENT MARKING LINES (8")	1,662 LF	196 LF
0087-4825000000-E-1205	PAINT PAVEMENT MARKING LINES (12")	2,130 LF	3,722 LF
0090-4850000000-E-1205	REMOVAL OF PAVEMENT MARKING LINES (4")	12,689 LF	15,827 LF
0092-4985000000-N-SP	NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	683 EA	715 EA
0200-4465000000-N-1160	TEMPORARY CRASH CUSHIONS	NEW ITEM	2 EA
0201-4485000000-E-1170	PORTABLE CONCRETE BARRIER	NEW ITEM	432 LF

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

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

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:

F81B6038A47A442...
Ronald E. Davenport, Jr., PE
State Contract Officer

RED/cms
Attachments

cc: Mr. Lamar Sylvester, PE
Mr. D. Chad Kimes, PE
Mr. Boyd Tharrington, PE
Mr. Jon Weathersbee, PE
Mr. Ken Kennedy, PE
Mr. Kyle Kempf
Project File (2)

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

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

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 09-13-2021

DATE AND TIME OF BID OPENING: **SEPTEMBER 21, 2021 AT 2:00 PM**

CONTRACT ID C203649
WBS 40255.3.3

FEDERAL-AID NO. STP-1308(12)
COUNTY ONSLOW
T.I.P. NO. U-4906
MILES 6.605
ROUTE NO. SR 1308
LOCATION SR-1308 (GUM BRANCH RD) FROM WEST OF SR-1313 (MILLS FIELDS ROAD) TO EAST OF SR-1324 (RAMSEY ROAD).
TYPE OF WORK GRADING, DRAINAGE, PAVING, 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 : Onslow

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	0036000000-E	225	UNDERCUT EXCAVATION	1,600 CY		
0004	0043000000-N	226	GRADING	Lump Sum	L.S.	
0005	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB- BING	1 ACR		
0006	0134000000-E	240	DRAINAGE DITCH EXCAVATION	830 CY		
0007	0195000000-E	265	SELECT GRANULAR MATERIAL	1,600 CY		
0008	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	5,000 SY		
0009	0255000000-E	SP	GENERIC GRADING ITEM HAULING AND DISPOSAL OF PETRO- LEUM CONTAMINATED SOIL	100 TON		
0010	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	870 TON		
0011	0320000000-E	300	FOUNDATION CONDITIONING GEO- TEXTILE	2,720 SY		
0012	0335200000-E	305	15" DRAINAGE PIPE	488 LF		
0013	0335300000-E	305	18" DRAINAGE PIPE	108 LF		
0014	0335400000-E	305	24" DRAINAGE PIPE	252 LF		
0015	0335500000-E	305	30" DRAINAGE PIPE	68 LF		
0016	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (48")	108 LF		
0017	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	2,380 LF		
0018	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	1,728 LF		
0019	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	1,964 LF		

County : Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0020	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	758 LF		
0021	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	60 LF		
0022	0986000000-E	SP	GENERIC PIPE ITEM 28" X 20" CAA PIPE ARCH CULVERT, 0.135" THICK	92 LF		
0023	0986000000-E	SP	GENERIC PIPE ITEM 87" X 63" CAA PIPE ARCH CULVERT, 0.135" THICK	148 LF		
0024	0995000000-E	340	PIPE REMOVAL	5,806 LF		
0025	1099500000-E	505	SHALLOW UNDERCUT	1,000 CY		
0026	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	1,900 TON		
0027	1121000000-E	520	AGGREGATE BASE COURSE	590 TON		
0028	1220000000-E	545	INCIDENTAL STONE BASE	1,500 TON		
0029	1297000000-E	607	MILLING ASPHALT PAVEMENT, ****' DEPTH (1-1/2")	4,710 SY		
0030	1330000000-E	607	INCIDENTAL MILLING	1,200 SY		
0031	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	6,650 TON		
0032	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	6,000 TON		
0033	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	16,175 TON		
0034	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	1,675 TON		
0035	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	1,500 TON		
0036	2022000000-E	815	SUBDRAIN EXCAVATION	3,102 CY		
0037	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	13,850 SY		

County : Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0038	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	2,327 CY		
0039	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	13,850 LF		
0040	2070000000-N	815	SUBDRAIN PIPE OUTLET	28 EA		
0041	2077000000-E	815	6" OUTLET PIPE	168 LF		
0042	2209000000-E	838	ENDWALLS	12 CY		
0043	2220000000-E	838	REINFORCED ENDWALLS	15 CY		
0044	2253000000-E	840	PIPE COLLARS	0.999 CY		
0045	2275000000-E	SP	FLOWABLE FILL	23 CY		
0046	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	81 EA		
0047	2297000000-E	840	MASONRY DRAINAGE STRUCTURES	10.6 CY		
0048	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	27.1 LF		
0049	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	49 EA		
0050	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	3 EA		
0051	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	9 EA		
0052	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	11 EA		
0053	2396000000-N	840	FRAME WITH COVER, STD 840.54	9 EA		
0054	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	2,160 LF		
0055	2612000000-E	848	6" CONCRETE DRIVEWAY	80 SY		
0056	2875000000-N	859	CONVERT EXISTING CATCH BASIN TO DROP INLET	1 EA		

County : Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0057	3575000000-E	SP	GENERIC FENCING ITEM 36" VINYL FENCE RESET	185 LF		
0058	3628000000-E	876	RIP RAP, CLASS I	310 TON		
0059	3649000000-E	876	RIP RAP, CLASS B	160 TON		
0060	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	3,520 SY		
0061	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	1,417 LF		
0062	4096000000-N	904	SIGN ERECTION, TYPE D	3 EA		
0063	4102000000-N	904	SIGN ERECTION, TYPE E	108 EA		
0064	4108000000-N	904	SIGN ERECTION, TYPE F	6 EA		
0065	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (D)	3 EA		
0066	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	59 EA		
0067	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	4 EA		
0068	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	1,123 SF		
0069	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	336 SF		
0070	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	213 SF		
0071	4415000000-N	1115	FLASHING ARROW BOARD	4 EA		
0072	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	2 EA		
0073	4430000000-N	1130	DRUMS	584 EA		
0074	4435000000-N	1135	CONES	70 EA		
0075	4445000000-E	1145	BARRICADES (TYPE III)	283 LF		

County : Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0076	4455000000-N	1150	FLAGGER	235	DAY	
0077	4480000000-N	1165	TMA	2	EA	
0078	4510000000-N	1190	LAW ENFORCEMENT	640	HR	
0079	4516000000-N	1180	SKINNY DRUM	80	EA	
0080	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	682	EA	
0081	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	123,191	LF	
0082	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	120	LF	
0083	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	733	LF	
0084	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	75	EA	
0085	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	261,762	LF	
0086	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	196	LF	
0087	4825000000-E	1205	PAINT PAVEMENT MARKING LINES (12")	3,722	LF	
0088	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	952	LF	
0089	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	104	EA	
0090	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	15,827	LF	
0091	4891000000-E	1205	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	524	LF	
0092	4895000000-N	SP	GENERIC PAVEMENT MARKING ITEM NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	715	EA	

County : Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0093	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	18 EA		
0094	4915000000-E	1264	7' U-CHANNEL POSTS	2 EA		
0095	4957000000-N	1264	OBJECT MARKERS (TYPE **) (III)	2 EA		
0096	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0097	5325000000-E	1510	*** WATER LINE (14")	302 LF		
0098	5325000000-E	1510	*** WATER LINE (18")	323 LF		
0099	5325400000-E	1510	4" WATER LINE	42 LF		
0100	5325600000-E	1510	6" WATER LINE	310 LF		
0101	5325800000-E	1510	8" WATER LINE	99 LF		
0102	5326000000-E	1510	10" WATER LINE	570 LF		
0103	5326200000-E	1510	12" WATER LINE	1,024 LF		
0104	5326600000-E	1510	16" WATER LINE	448 LF		
0105	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	22,330 LB		
0106	5534000000-E	1515	*** VALVE (14")	2 EA		
0107	5538000000-E	1515	4" VALVE	2 EA		
0108	5540000000-E	1515	6" VALVE	3 EA		
0109	5552000000-E	1515	10" VALVE	5 EA		
0110	5558000000-E	1515	12" VALVE	1 EA		
0111	5589200000-E	1515	2" AIR RELEASE VALVE	1 EA		

County : Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0112	5643100000-E	1515	3/4" WATER METER	3 EA		
0113	5648000000-N	1515	RELOCATE WATER METER	32 EA		
0114	5649000000-N	1515	RECONNECT WATER METER	15 EA		
0115	5672000000-N	1515	RELOCATE FIRE HYDRANT	2 EA		
0116	5673000000-E	1515	FIRE HYDRANT LEG	34 LF		
0117	5684000000-E	1515	*** LINE STOP WITH BYPASS (14")	1 EA		
0118	5684400000-E	1515	6" LINE STOP WITH BYPASS	1 EA		
0119	5684800000-E	1515	10" LINE STOP WITH BYPASS	1 EA		
0120	5686500000-E	1515	WATER SERVICE LINE	2,052 LF		
0121	5709500000-E	1520	10" FORCE MAIN SEWER	228 LF		
0122	5709600000-E	1520	12" FORCE MAIN SEWER	787 LF		
0123	5769000000-E	1520	DUCTILE IRON SEWER PIPE FITTINGS	9,950 LB		
0124	5798000000-E	1530	ABANDON *** UTILITY PIPE (4")	47 LF		
0125	5800000000-E	1530	ABANDON 6" UTILITY PIPE	295 LF		
0126	5801000000-E	1530	ABANDON 8" UTILITY PIPE	141 LF		
0127	5802000000-E	1530	ABANDON 10" UTILITY PIPE	895 LF		
0128	5804000000-E	1530	ABANDON 12" UTILITY PIPE	1,582 LF		
0129	5805000000-E	1530	ABANDON 14" UTILITY PIPE	292 LF		
0130	5810000000-E	1530	ABANDON 16" UTILITY PIPE	440 LF		
0131	5811000000-E	1530	ABANDON 18" UTILITY PIPE	308 LF		

County : Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0132	5815000000-N	1530	REMOVE WATER METER	3 EA		
0133	5835800000-E	1540	18" ENCASEMENT PIPE	108 LF		
0134	5835900000-E	1540	20" ENCASEMENT PIPE	76 LF		
0135	5872500000-E	1550	BORE AND JACK OF *** (18")	58 LF		
0136	5872600000-E	1550	DIRECTIONAL DRILLING OF *** (10")	209 LF		
0137	5872600000-E	1550	DIRECTIONAL DRILLING OF *** (12")	209 LF		
0138	5872600000-E	1550	DIRECTIONAL DRILLING OF *** (14")	230 LF		
0139	5872600000-E	1550	DIRECTIONAL DRILLING OF *** (6")	205 LF		
0140	6000000000-E	1605	TEMPORARY SILT FENCE	14,500 LF		
0141	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	1,270 TON		
0142	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	3,380 TON		
0143	6012000000-E	1610	SEDIMENT CONTROL STONE	2,105 TON		
0144	6015000000-E	1615	TEMPORARY MULCHING	36 ACR		
0145	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	1,800 LB		
0146	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	9.5 TON		
0147	6024000000-E	1622	TEMPORARY SLOPE DRAINS	490 LF		
0148	6029000000-E	SP	SAFETY FENCE	3,700 LF		
0149	6030000000-E	1630	SILT EXCAVATION	6,700 CY		
0150	6036000000-E	1631	MATTING FOR EROSION CONTROL	15,000 SY		

County : Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0151	6037000000-E	SP	COIR FIBER MAT	1,250 SY		
0152	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	55 SY		
0153	6042000000-E	1632	1/4" HARDWARE CLOTH	4,950 LF		
0154	6043000000-E	SP	LOW PERMEABILITY GEOTEXTILE	200 SY		
0155	6045000000-E	SP	*** TEMPORARY PIPE (42")	265 LF		
0156	6070000000-N	1639	SPECIAL STILLING BASINS	4 EA		
0157	6071012000-E	SP	COIR FIBER WATTLE	1,620 LF		
0158	6071020000-E	SP	POLYACRYLAMIDE (PAM)	470 LB		
0159	6071030000-E	1640	COIR FIBER BAFFLE	1,600 LF		
0160	6071050000-E	SP	*** SKIMMER (1-1/2")	10 EA		
0161	6084000000-E	1660	SEEDING & MULCHING	30 ACR		
0162	6087000000-E	1660	MOWING	15 ACR		
0163	6090000000-E	1661	SEED FOR REPAIR SEEDING	400 LB		
0164	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	1 TON		
0165	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	600 LB		
0166	6108000000-E	1665	FERTILIZER TOPDRESSING	17.8 TON		
0167	6111000000-E	SP	IMPERVIOUS DIKE	178 LF		
0168	6114500000-N	1667	SPECIALIZED HAND MOWING	50 MHR		
0169	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	50 EA		
0170	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	15 EA		

County : Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0171	7060000000-E	1705	SIGNAL CABLE	3,320 LF		
0172	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	10 EA		
0173	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	5 EA		
0174	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	6 EA		
0175	7252000000-E	1710	MESSENGER CABLE (1/4")	2,100 LF		
0176	7300000000-E	1715	UNPAVED TRENCHING (*****) (1, 2")	1,900 LF		
0177	7300000000-E	1715	UNPAVED TRENCHING (*****) (2, 2")	80 LF		
0178	7300000000-E	1715	UNPAVED TRENCHING (*****) (4, 2")	20 LF		
0179	7301000000-E	1715	DIRECTIONAL DRILL (*****) (2, 2")	190 LF		
0180	7301000000-E	1715	DIRECTIONAL DRILL (*****) (3, 2")	450 LF		
0181	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	22 EA		
0182	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	8 EA		
0183	7372000000-N	1721	GUY ASSEMBLY	5 EA		
0184	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	2,740 LF		
0185	7456000000-E	1726	LEAD-IN CABLE (*****) (14-2)	4,920 LF		
0186	7552000000-N	1731	INTERCONNECT CENTER	2 EA		
0187	7588000000-N	SP	METAL POLE WITH SINGLE MAST ARM	5 EA		
0188	7590000000-N	SP	METAL POLE WITH DUAL MAST ARM	1 EA		

County : Onslow

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0189	7613000000-N	SP	SOIL TEST	6		EA
0190	7631000000-N	SP	MAST ARM WITH METAL POLE DESIGN	6		EA
0191	7684000000-N	1750	SIGNAL CABINET FOUNDATION	3		EA
0192	7696000000-N	1751	CONTROLLERS WITH CABINET (*****) (TYPE 2070E, BASE MOUNTED)	3		EA
0193	7708000000-N	1751	DETECTOR CARD (*****) (TYPE 2070E)	19		EA
0194	7901000000-N	1753	CABINET BASE EXTENDER	3		EA
0195	7960000000-N	SP	METAL POLE FOUNDATION REMOVAL	4		EA
0196	7972000000-N	SP	METAL POLE REMOVAL	4		EA
0197	7980000000-N	SP	GENERIC SIGNAL ITEM MICROWAVE VEHICLE DETECTION SYSTEM - MULTIPLE ZONES	3		EA
0198	7980000000-N	SP	GENERIC SIGNAL ITEM RELOCATE ETHERNET EDGE SWITCH	2		EA
0199	7992000000-E	SP	GENERIC SIGNAL ITEM METAL POLE FOUNDATION	36		CY
0200	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	2		EA
0201	4485000000-E	1170	PORTABLE CONCRETE BARRIER	432		LF

0933/Sep13/Q644117.999/D907916612000/E201

Total Amount Of Bid For Entire Project :

PROJECT REFERENCE NO. U-4906	SHEET NO. 1A
ROADWAY DESIGN ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-5	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2C-1	DETAIL OF MODIFIED METHOD III CLEARING
2C-2	DETAIL OF CONVERTING EXISTING CATCH BASIN TO DROP INLET
2C-3	DETAIL OF ARCH PIPE ENDWALL
2C-4	DETAIL OF ARCH PIPE JUNCTION BOX
3B-1	ROADWAY SUMMARIES (EARTHWORK, PAVEMENT REMOVAL, PAVEMENT BREAKING)
3D-1 THRU 3D-8	DRAINAGE SUMMARIES
3G-1	GEOTECHNICAL SUMMARIES
3P-1	PARCEL INDEX SHEETS
4 THRU 26	PLAN SHEETS
27 THRU 39	PROFILE SHEETS
RW01	RIGHT OF WAY TITLE SHEET
RW02C-1 THRU RW02C-4	SURVEY CONTROL SHEETS
RW02D-1	PROPOSED ALIGNMENT CONTROL SHEETS
RW03E-1 THRU RW03E-3	RIGHT OF WAY CONTROL SHEETS
RW-04 THRU RW-26	RIGHT OF WAY CONTROL SHEETS
TMP-1 THRU TMP-11	TRANSPORTATION MANAGEMENT PLANS
PMP-1 THRU PMP-12	PAVEMENT MARKING PLANS
EC-1 THRU EC-49	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-13	SIGNING PLANS
SIG.1.0 THRU SIG.7.0	SIGNAL PLANS
SIG.M1 THRU SIG.M8	STANDARD DRAWINGS FOR METAL POLES
SCP.1 THRU SCP.9	SIGNAL COMMUNICATION PLANS
UC-1 THRU UC-16	UTILITY CONSTRUCTION PLANS
UD-1 THRU UD-18	UTILITY BY OTHERS PLANS
X-1	CROSS SECTION INDEX SHEET
X-1A THRU X-1C	CROSS SECTION VOLUME SUMMARIES
X-2 THRU X-122	CROSS SECTIONS

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

**GRADE LINE:
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 MODIFIED METHOD III.

SUPERELEVATION:
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 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

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.

DRIVEWAYS:
DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3 FOOT RADIUS OR RADIUS AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:
STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIUS NOTED ON PLANS.

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

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE WATER & SEWER - ONWASA
POWER - JONES - ONSLOW EMC
TELECOMM & FIBER - CENTURYLINK, SPECTRUM
GAS - PIEDMONT NATURAL GAS
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

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

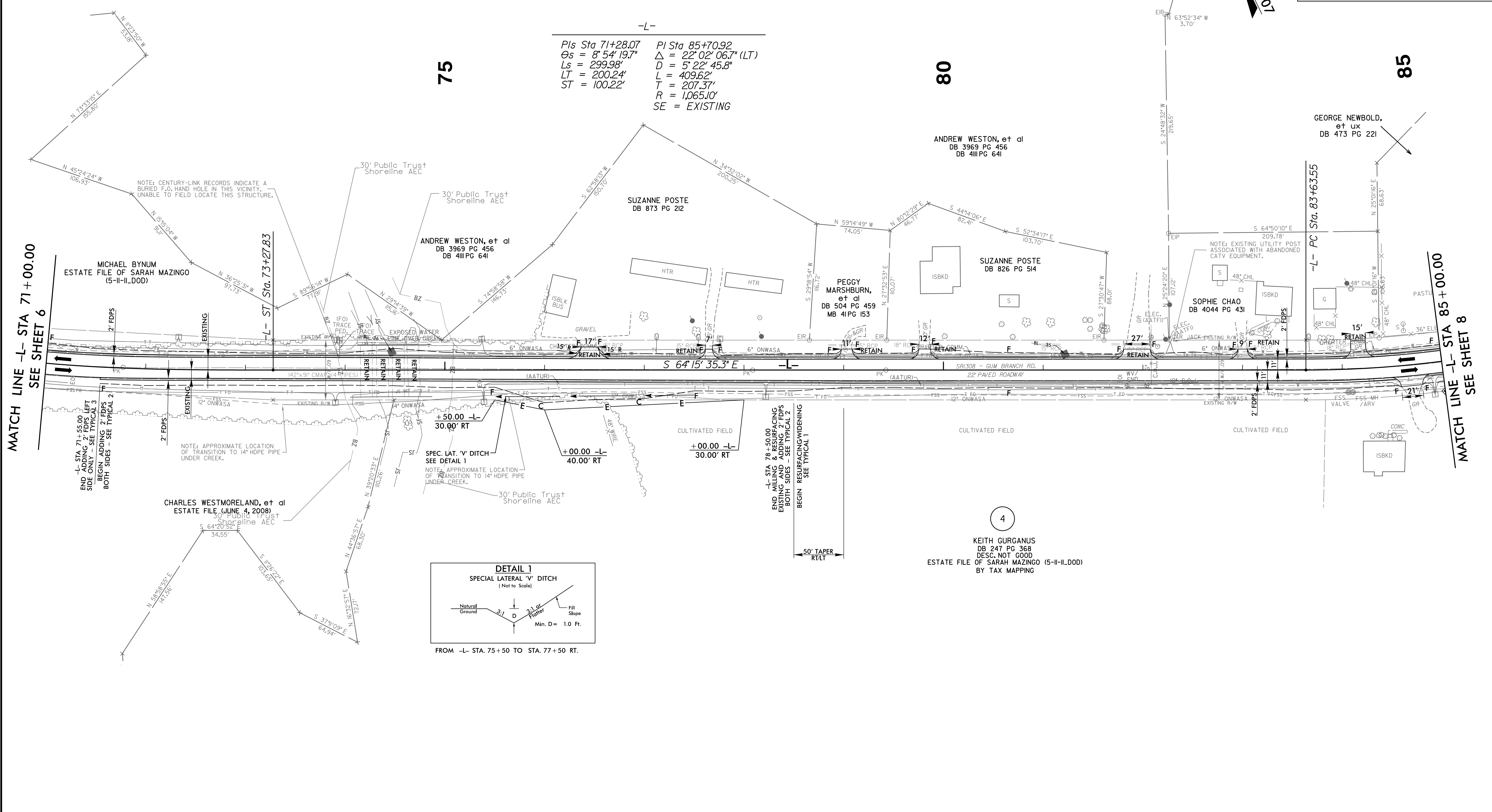
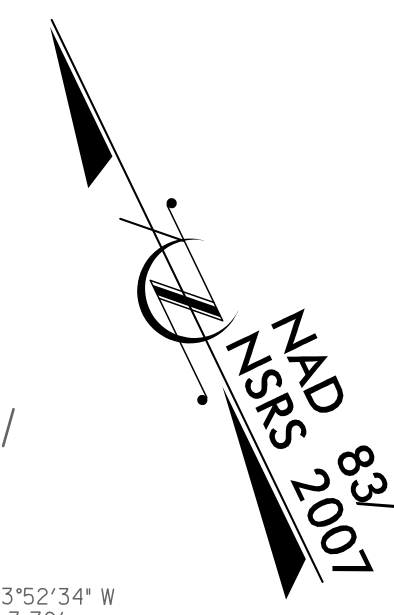
2018 ROADWAY ENGLISH STANDARD DRAWINGS

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:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	METHOD OF CLEARING - METHOD III
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
225.04	METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT
DIVISION 3 - PIPE CULVERTS	
300.01	METHOD OF PIPE INSTALLATION
310.10	DRIVEWAY PIPE CONSTRUCTION
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	METHOD OF SHOULDER CONSTRUCTION - HIGH SIDE OF SUPERELEVATED CURVE - METHOD 1
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	PAVEMENT REPAIRS
DIVISION 8 - INCIDENTALS	
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
840.02	CONCRETE CATCH BASIN - 12" THRU 54" PIPE
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
840.24	FRAMES AND NARROW SLOT S&G GRATES
840.25	ANCHORAGE FOR FRAMES - BRICK OR CONCRETE OR PRECAST
840.31	CONCRETE JUNCTION BOX - 12" THRU 66" PIPE
840.32	BRICK JUNCTION BOX - 12" THRU 66" PIPE
840.45	PRECAST DRAINAGE STRUCTURE
840.46	TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE
840.54	MANHOLE FRAME AND COVER
840.66	DRAINAGE STRUCTURE STEPS
840.72	PIPE COLLAR
846.01	CONCRETE CURB, GUTTER AND CURB & GUTTER
848.02	DRIVEWAY TURNOUT - RADIUS TYPE
848.03	DRIVEWAY TURNOUT - DROP CURB TYPE
848.04	STREET TURNOUT
876.01	RIP RAP IN CHANNELS
876.02	GUIDE FOR RIP RAP AT PIPE OUTLETS
876.04	DRAINAGE DITCHES WITH CLASS 'B' RIP RAP

EFF. 01-16-2018
REV.

PROJECT REFERENCE NO. U-4906		SHEET NO. 7
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

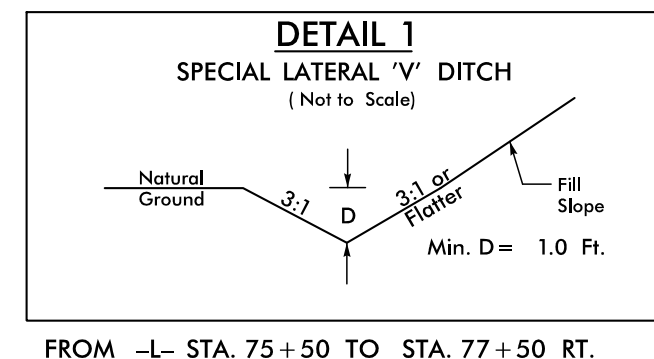


-L-

<i>PIs Sta 71+28.07</i>	<i>PI Sta 85+70.92</i>
<i>θs = 8° 54' 19.7"</i>	<i>Δ = 22° 02' 06.7" (LT)</i>
<i>Ls = 299.98'</i>	<i>D = 5° 22' 45.8"</i>
<i>LT = 200.24'</i>	<i>L = 409.62'</i>
<i>ST = 100.22'</i>	<i>T = 207.37'</i>
	<i>R = 1,065.00'</i>
	<i>SE = EXISTING</i>

MATCH LINE -L- STA 71+00.00
SEE SHEET 6

MATCH LINE -L- STA 85+00.00
SEE SHEET 8

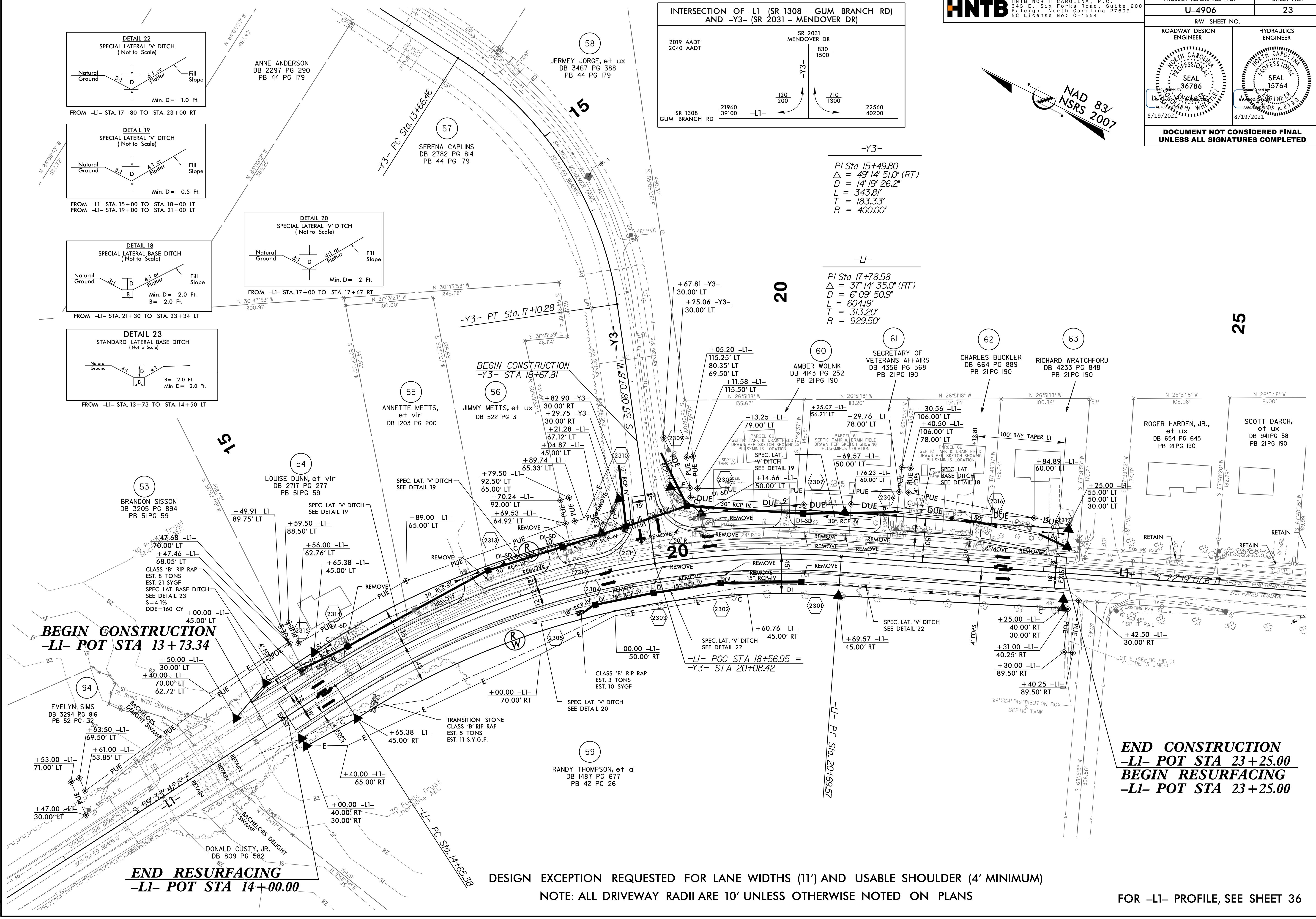
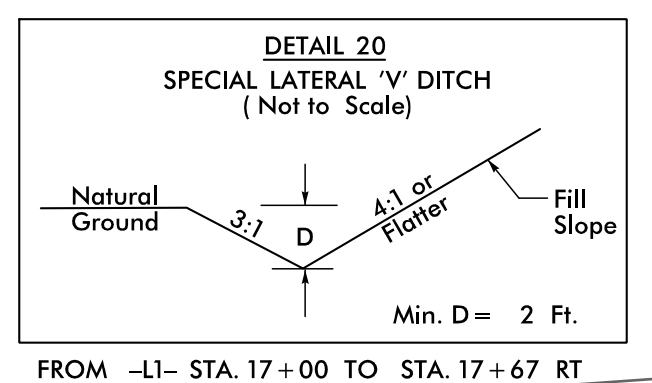
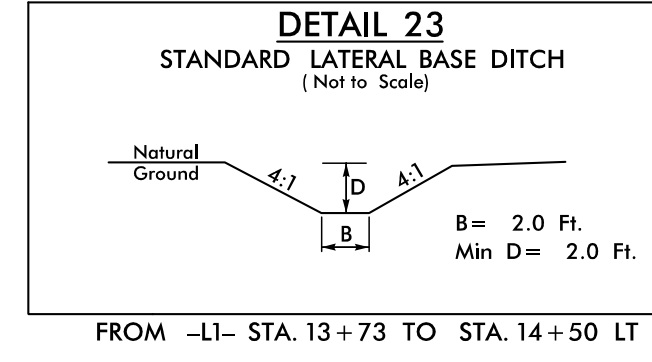
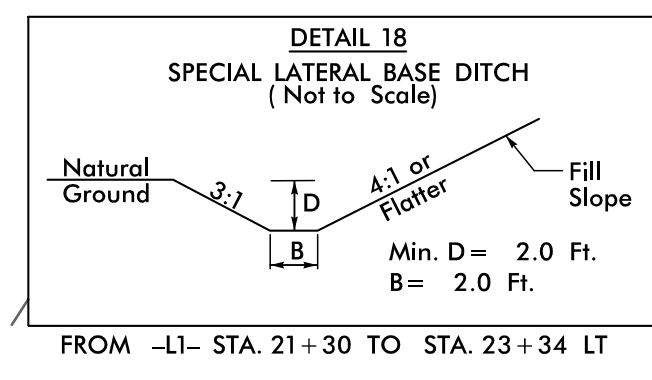
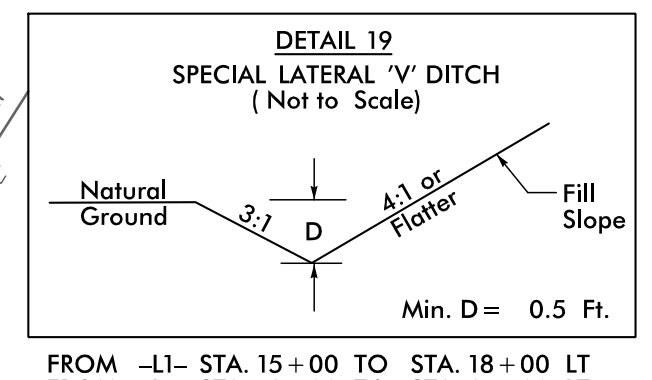
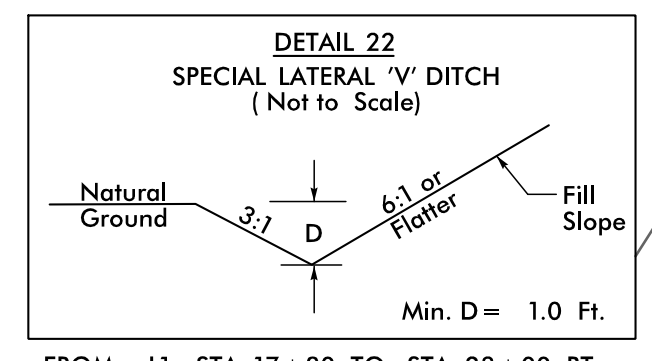
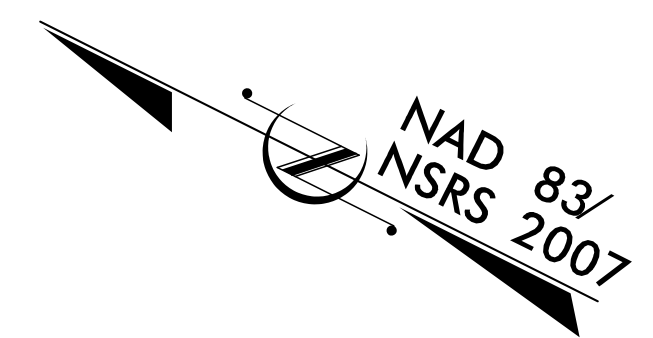
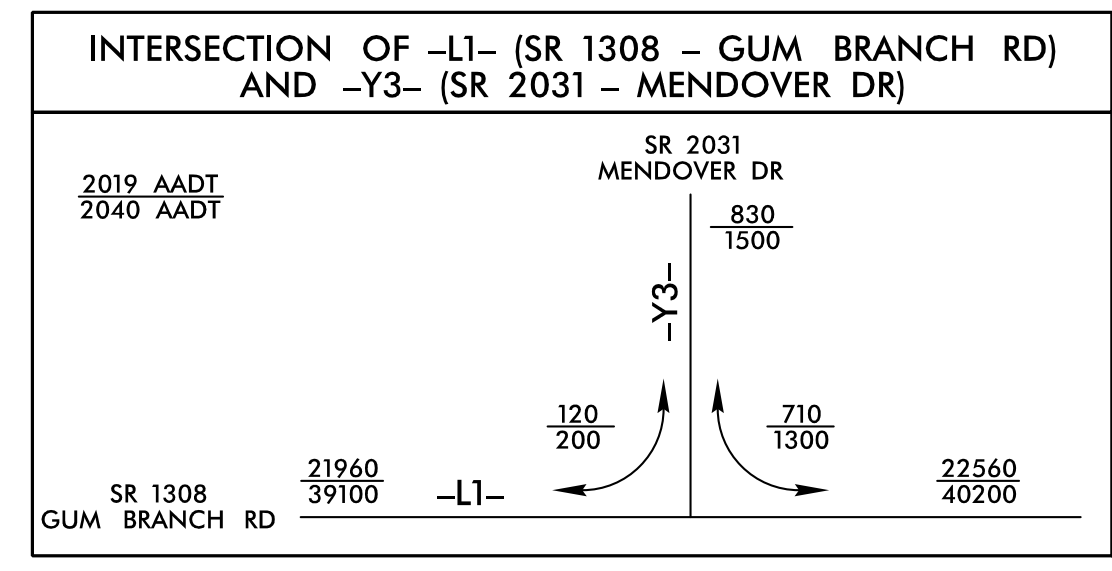


DESIGN EXCEPTION REQUESTED FOR LANE WIDTHS (11') AND USABLE SHOULDER (4' MINIMUM)
NOTE: ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEET 28

5/14/2018
18-AUG-2021 13:35
\\regway\proj\144906_r\dj_psh23.dgn

PROJECT REFERENCE NO. U-4906	SHEET NO. 23
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	SEAL 36786
Professional Engineer Seal	Professional Engineer Seal
8/19/2021	8/19/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



BEGIN CONSTRUCTION
-L1- POT STA 13+73.34

END RESURFACING
-L1- POT STA 14+00.00

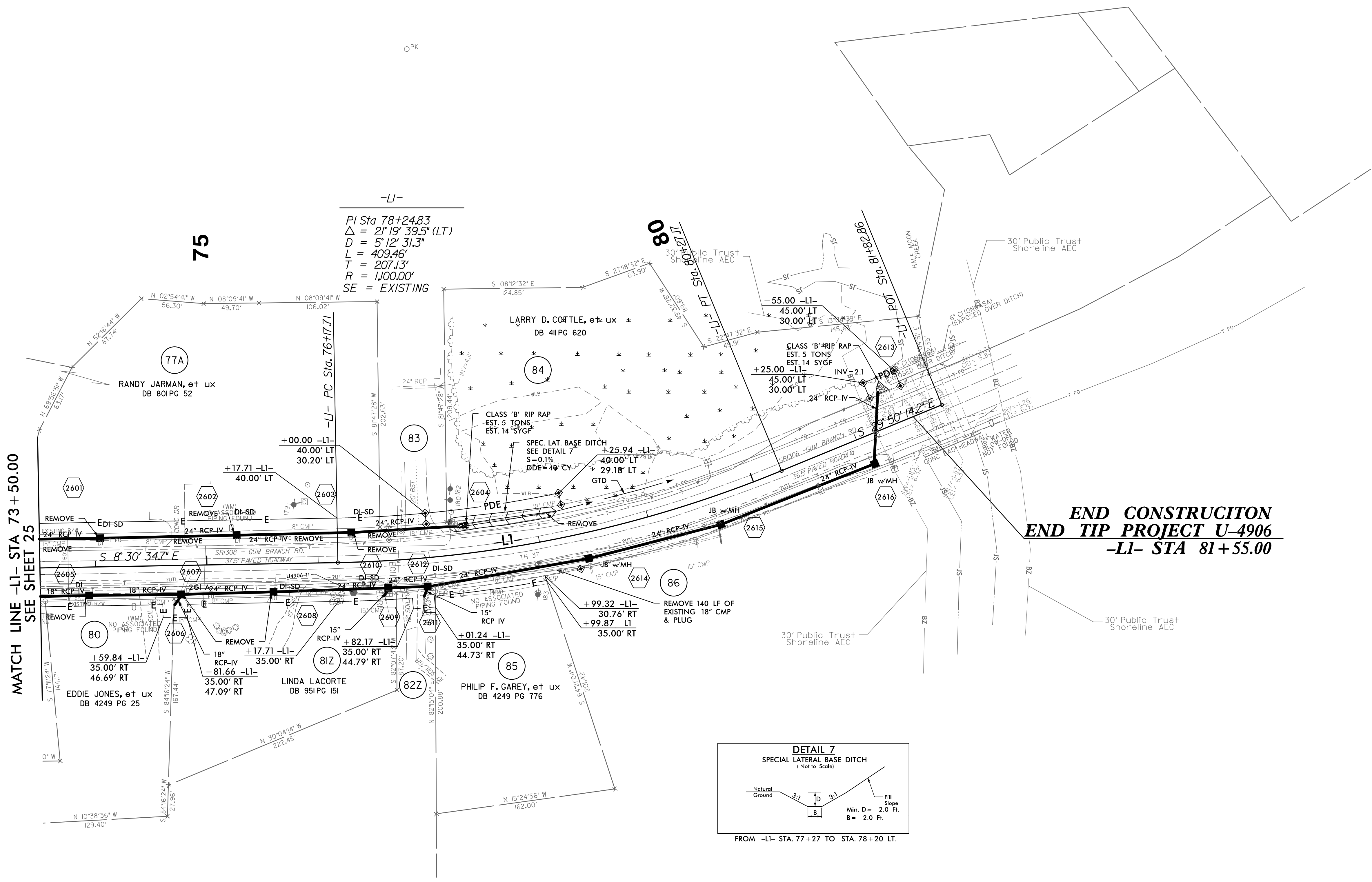
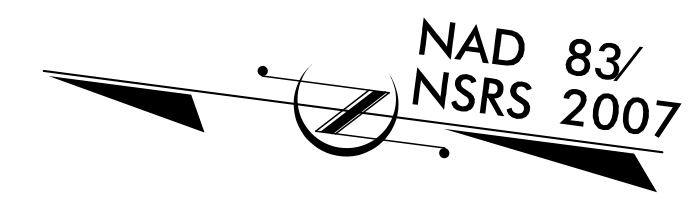
BEGIN CONSTRUCTION
-Y3- STA 18+67.81

END CONSTRUCTION
-L1- POT STA 23+25.00
BEGIN RESURFACING
-L1- POT STA 23+25.00

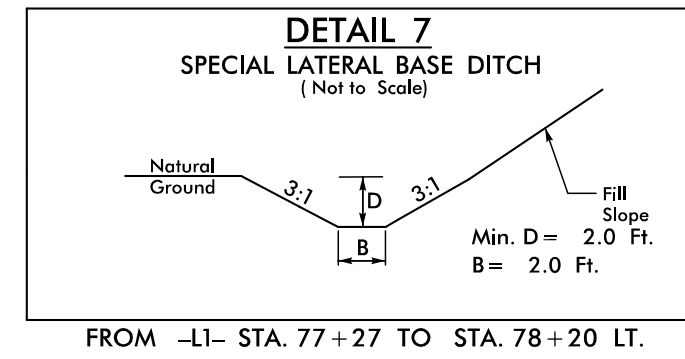
DESIGN EXCEPTION REQUESTED FOR LANE WIDTHS (11') AND USABLE SHOULDER (4' MINIMUM)
NOTE: ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED ON PLANS

FOR -L1- PROFILE, SEE SHEET 36

PROJECT REFERENCE NO. U-4906		SHEET NO. 26
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



**END CONSTRUCTION
 END TIP PROJECT U-4906
 -L1- STA 81+55.00**



NOTE: ALL DRIVEWAY RADII ARE 10' UNLESS OTHERWISE NOTED ON PLANS

09/08/2021

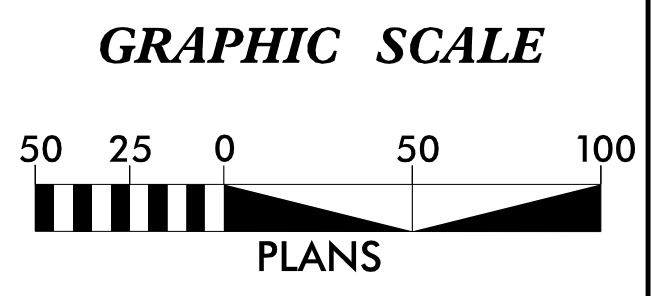
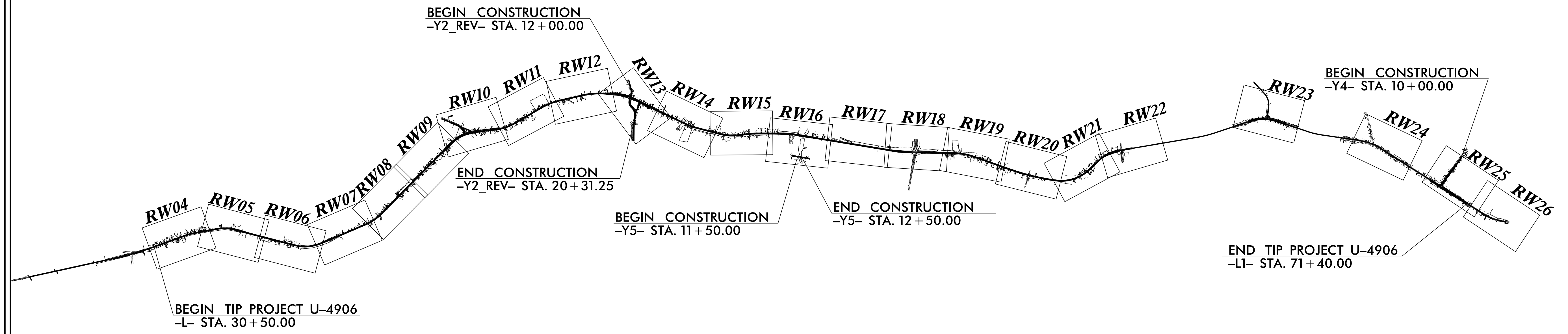
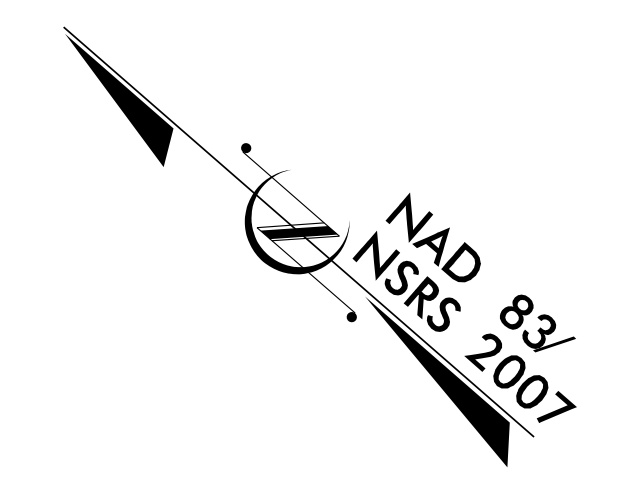
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4906	RW01	32

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

ONSLOW COUNTY

TIP PROJECT: U-4906



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "U4906-7" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 413606.240(ft) EASTING: 2447928.332(ft) ELEVATION: 48.189(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.998986292

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U4906-7" TO -L- STATION 10+00.00 IS N 59° 22' 31" W 11,078.9027'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS XXXX XX

Prepared in the Office of:



- New Bern, North Carolina 28562 Phone: (252) 631-5115
 - Middlesboro, Kentucky 40965 Phone: (606) 248-6500
 - Asheville, North Carolina 28806 Phone: (828) 253-2796
 - Charlotte, North Carolina 28217 Phone: (704) 357-0488
- Consulting Engineers

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
June 28, 2017

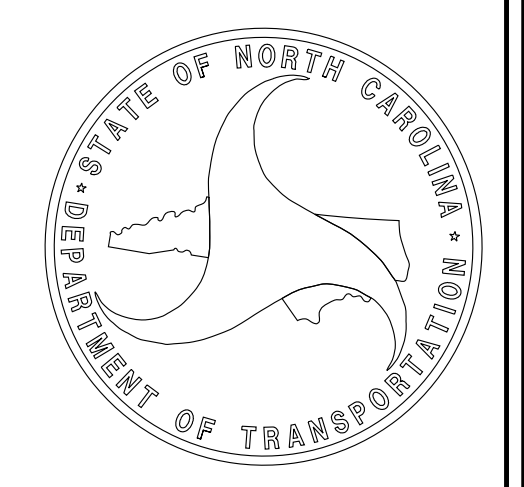
LETTING DATE:
September 21, 2021

PROFESSIONAL LAND SURVEYOR



DocuSigned by:
William T. Robbins
SIGNATURE

Date: 8/17/2021

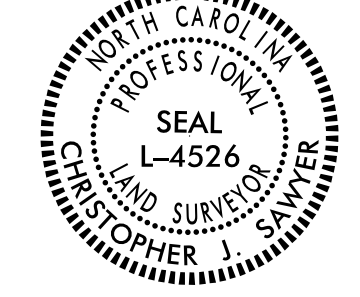


8/17/2021 5:30:26 PM
...\\Ddfid - Work\U4906_ls_rw01.dgn
User: baboyles

Location and Surveys

LOCATION & SURVEYS DIVISION 3 5310 BARBADOS BLVD. #102 CASTLE HAYNE, NC 28429 (910) 341-2280

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

Table with columns: POINT, DESC., NORTH, EAST, ELEVATION. Lists survey points U4906-11 through B3884-1 with their respective coordinates and descriptions.

Table with columns: POINT, DESC., NORTH, EAST, ELEVATION. Lists points U4906-12 and BY-A9.

Table with columns: POINT, DESC., NORTH, EAST, ELEVATION. Lists points BL-A2 and BY1-A10.

Table with columns: POINT, DESC., NORTH, EAST, ELEVATION. Lists points BL-A5 and BY2-A11.

NOTE: SUPPLEMENTAL BENCHMARKS WERE NOT SET AFTER CONSULTING WITH DIVISION 3 CONSTRUCTION OFFICES. TRANS TECHNICIAN VI JIMMY ZEPEDA, PLS.

I, CHRISTOPHER J. SAWYER, PLS, certify that the Project Control was [performed/verified] under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA Type of GPS field procedure: NC-VRS-RTN Dates of survey: December 2009 to September 2015 Datum/EPOCH: NAD 83/NSRS 2007 Published/Fixed-control use: Project Control N/A for RTN [Project Control if applicable, N/A for RTN] Localized around: U4906-7 Northing: 413606.2397 Easting: 2447928.3325 Combined grid factor: 0.9998986292 Geoid model: G09NC Units: US Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from December 2009 to September 2015, and all coordinates are based on NAD 83/NSRS 2007 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 16th day of August, 2021.

DocuSigned by: Christopher Sawyer Professional Land Surveyor L-4526

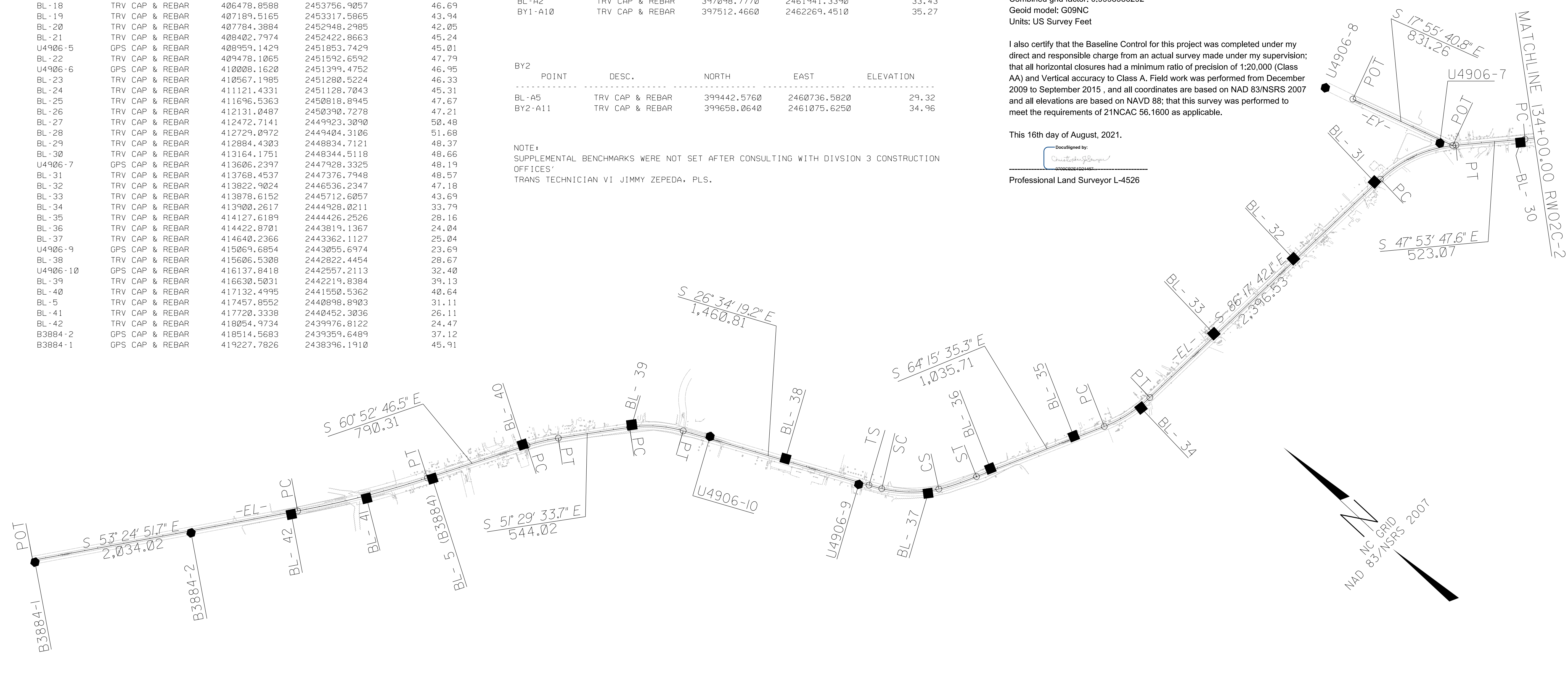



Table with columns: POINT, N, E, BEARING, DIST. Shows coordinates for points POT and LINE.

NOTES:

- 1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM. 2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-4906	SHEET NO. RW02C-2
Location and Surveys	
LOCATION & SURVEYS DIVISION 3 5310 BARBADOS BLVD. #102 CASTLE HAYNE, NC 28429 (910) 341-2280	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY1				
POINT	N	E	BEARING	DIST
POT	411539.138	2451365.293	S 34°56'38.8" W	461.58
LINE				
POT	411160.772	2451100.908		

EY2									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	410980.054	2451150.349	S 72°45'54.3" W	167.22					
LINE									
PC	410930.509	2450990.638	S 61°05'54.1" W	413.74	23°20'00.4"(LT)	05°36'02.7"	416.61	211.23	1023.00
CURVE									
PT	410730.546	2450628.430	S 49°25'53.9" W	371.63					
LINE									
POT	410488.856	2450346.130							

I, CHRISTOPHER J. SAWYER, PLS, certify that the Project Control was [performed/verified] under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

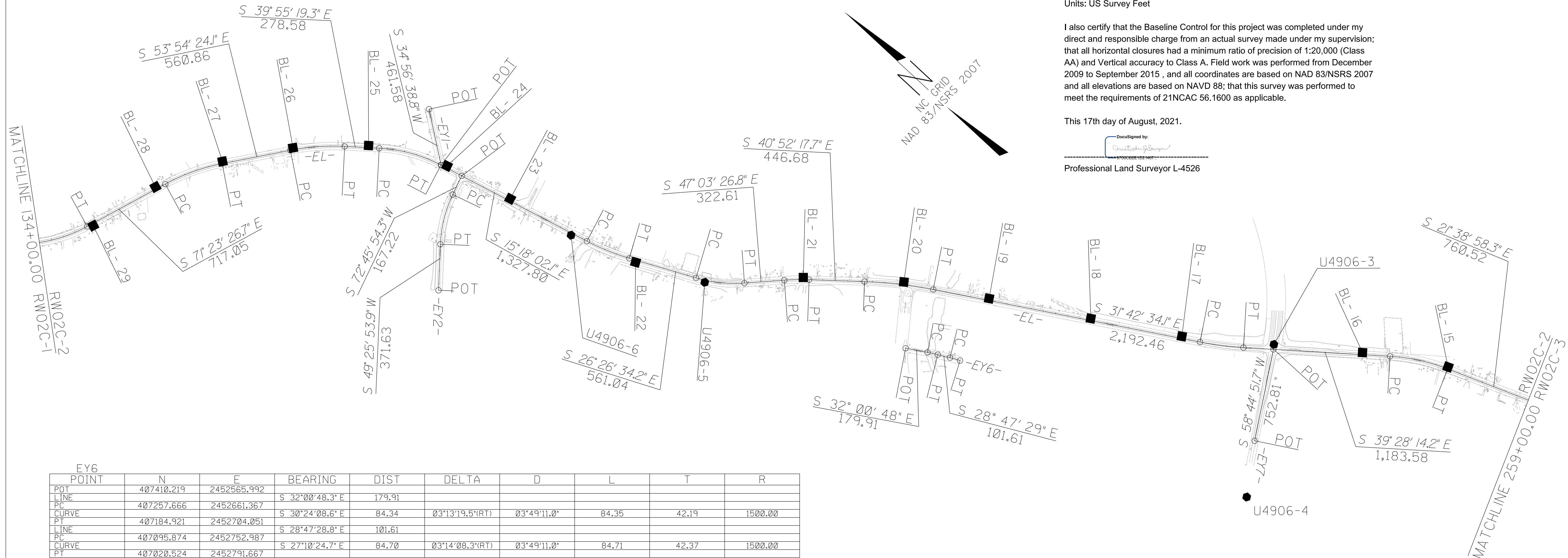
Class of survey: **AA**
 Type of GPS field procedure: NC-VRS-RTN
 Dates of survey: December 2009 to September 2015
 Datum/Epoch: NAD 83/NSRS 2007
 Published/Fixed-control use: Project Control N/A for RTN
 [Project Control if applicable, N/A for RTN]
 Localized around: U4906-7
 Northing: 413606.2397
 Easting: 2447928.3325
 Combined grid factor: 0.9998986292
 Geoid model: G09NC
 Units: US Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from December 2009 to September 2015, and all coordinates are based on NAD 83/NSRS 2007 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of August, 2021.

DocuSigned by:

 Christopher Sawyer
 Professional Land Surveyor L-4526



EY6									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	407410.219	2452565.992	S 32°00'48.3" E	179.91					
LINE									
PC	407257.666	2452661.367	S 30°24'08.6" E	84.34	03°13'19.5"(RT)	03°49'11.0"	84.35	42.19	1500.00
CURVE									
PT	407184.921	2452704.051	S 28°47'28.8" E	101.61					
LINE									
PC	407095.874	2452752.987	S 27°10'24.7" E	84.70	03°14'08.3"(RT)	03°49'11.0"	84.71	42.37	1500.00
CURVE									
PT	407020.524	2452791.667							


EY7				
POINT	N	E	BEARING	DIST
POT	405229.924	2454576.073	S 58°44'51.7" W	752.81
LINE				
POT	404839.362	2453932.505		

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-4906	SHEET NO. RW02C-3
Location and Surveys	
LOCATION & SURVEYS DIVISION 3 5310 BARBADOS BLVD, #102 CASTLE HAYNE, NC 28429 (910) 341-2280	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY3

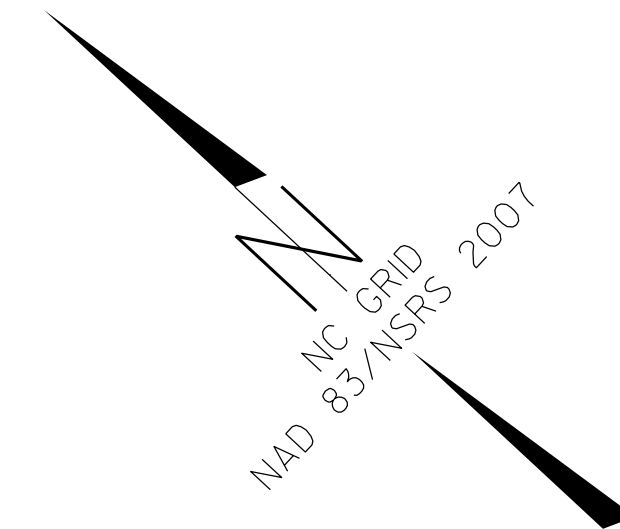
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	400215.639	2461167.081							
LINE			S 05°51'16.8" W	366.46					
PC	399851.087	2461129.700							
CURVE			S 30°28'42.3" W	333.33	49°14'51.0"(RT)	14°19'26.2"	343.81	183.33	400.00
PT	399563.820	2460960.632							
LINE			S 55°06'07.8" W	298.15					
POT	399393.244	2460716.098							

EY4

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	397661.214	2462360.445							
LINE			S 35°53'33.9" W	116.11					
PC	397567.152	2462292.374							
CURVE			S 38°11'33.6" W	252.88	04°35'59.5"(RT)	01°49'06.5"	252.95	126.54	3150.75
PT	397368.403	2462136.015							
LINE			S 40°29'33.4" W	346.43					
POT	397104.943	2461911.058							

EY5

POINT	N	E	BEARING	DIST
POT	395305.086	2463322.864		
LINE			S 84°52'24.3" W	1106.27
POT	395206.234	2462221.024		

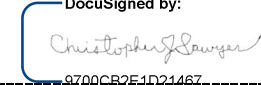


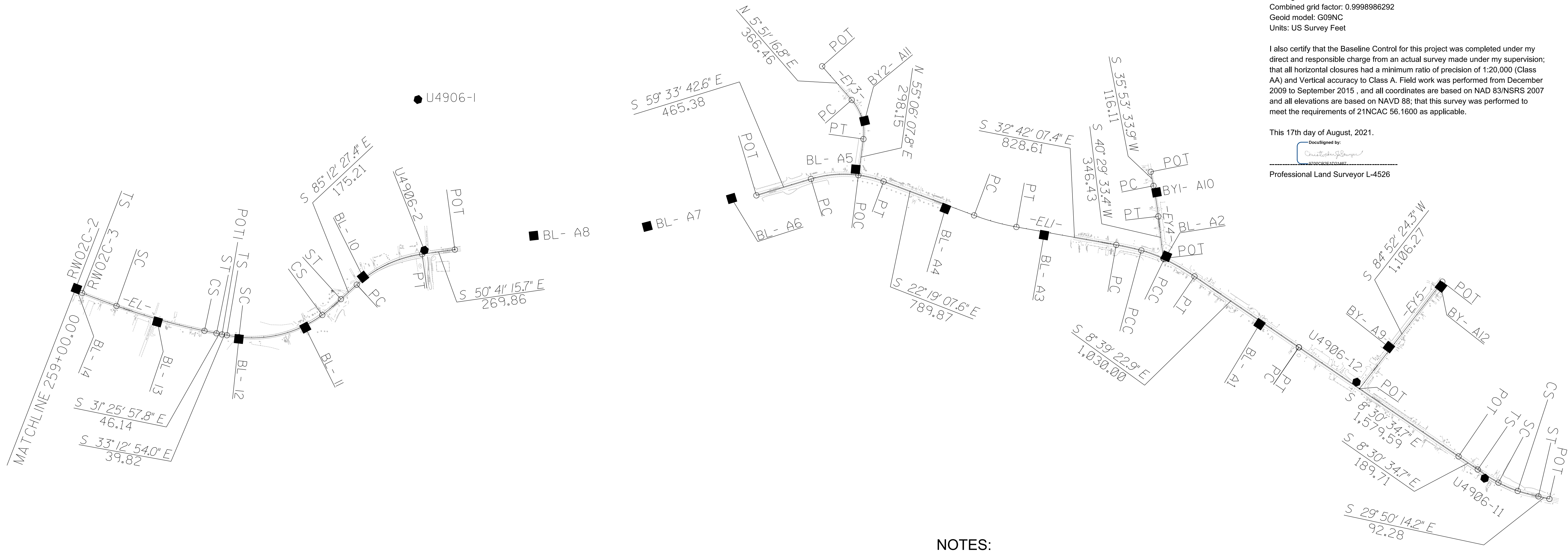
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 Geoid model: G09NC
 Units: US Survey Feet

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from December 2009 to September 2015, and all coordinates are based on NAD 83/NSRS 2007 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of August, 2021.

DocuSigned by:

 Professional Land Surveyor L-4526



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROPOSED ALIGNMENT CONTROL SHEET

L			
TYPE	STATION	NORTH	EAST
POT	0+00.00	419249.9463	2438394.6491
PC	20+34.02	418037.6234	2440027.8988
PT	30+45.55	417489.2680	2440877.0529
PC	38+35.86	417104.6664	2441567.4663
PT	40+79.33	416969.3278	2441769.5269
PC	46+23.36	416630.6101	2442195.2418
PT	50+32.27	416315.4654	2442450.7355
TS	64+93.09	415008.9543	2443104.1888
SC	65+93.09	414920.3134	2443150.4534
CS	70+27.85	414602.2088	2443441.4069
ST	73+27.83	414458.2690	2443704.2305
PC	83+63.55	414008.4669	2444637.1753
PT	87+73.17	413905.0059	2445030.9128
PC	111+69.70	413750.1448	2447422.4303
PT	118+06.93	413506.7525	2447998.5024
PC	123+30.00	413156.0485	2448386.5872
PT	128+08.22	412916.0580	2448796.3560
PC	135+25.27	412687.2395	2449475.9127
PT	140+14.65	412463.2659	2449908.9023
PC	145+75.51	412132.8642	2450362.1074
PT	150+15.25	411833.2302	2450682.4642
PC	152+93.83	411619.5795	2450861.2435
PT	158+14.20	411162.0127	2451100.5687
PC	171+42.00	409881.2789	2451450.9522
PT	175+10.78	409537.2400	2451582.1333
PC	180+71.82	409034.8944	2451831.9681
PT	184+66.66	408720.2351	2452066.9365
PC	187+89.26	408500.4532	2452303.0979
PT	189+89.09	408356.6954	2452441.7512
PC	194+35.77	408018.9258	2452734.0432
PT	199+94.60	407568.9766	2453064.4491
PC	221+87.05	405703.7984	2454216.8324
PT	225+40.73	405416.4074	2454422.5086
PC	237+24.31	404502.7414	2455174.8901
PT	242+01.99	404093.0692	2455416.7845
TS	249+62.51	403386.2011	2455697.3606
SC	252+62.51	403108.3812	2455810.5429
CS	261+56.67	402318.3731	2456227.3058
SC	263+56.67	402154.9098	2456342.3159
CS	270+13.76	401826.4361	2456896.2882
ST	272+13.76	401802.7507	2457094.7813
PC	273+92.51	401787.8165	2457272.9118
PT	279+90.84	401566.5540	2457819.1182
PC	298+64.03	400379.7972	2459268.4164
PT	303+28.68	400114.3805	2459649.2329
POT	307+68.37	399891.6293	2460028.3242

L1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	399891.6293	2460028.3242
PC	14+65.38	399655.8626	2460429.5662
PT	20+69.57	399207.4558	2460818.5406
PC	28+59.44	398476.7584	2461118.5011
PT	32+17.99	398159.1867	2461283.8917
PC	40+46.60	397461.9193	2461731.5647
PCC	43+08.16	397234.8442	2461861.1425
PT	46+40.76	396919.2792	2461961.7787
PC	57+48.31	395824.3508	2462128.4730
PT	57+99.53	395773.7051	2462136.1170
PC	76+17.71	393975.5406	2462405.1636
PT	80+27.17	393591.0216	2462538.8676
POT	81+82.86	393455.9668	2462616.3309

Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	414313.6386	2447724.4672
PC	14+00.44	413932.6411	2447847.7316
PT	16+73.72	413667.7086	2447824.0946
POT	17+05.30	413639.8595	2447809.2092

Y2_REV			
TYPE	STATION	NORTH	EAST
POT	10+00.00	411539.8899	2451365.7737
PC	12+42.84	411339.5982	2451228.4613
PT	13+78.25	411253.5280	2451126.0681
PC	15+04.63	411201.0537	2451011.0983
PRC	16+79.59	411061.9624	2450921.0446
PRC	19+43.45	410845.2672	2450792.8393
PT	21+42.67	410731.5836	2450629.6419
POT	25+15.89	410488.8560	2450346.1300

Y3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	400215.6388	2461167.0808
PC	13+66.46	399851.0868	2461129.6996
PT	17+10.28	399563.8195	2460960.6320
POT	20+08.42	399393.2443	2460716.0985

Y4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	395283.6390	2463083.8073
POT	18+66.25	395206.2341	2462221.0237

Y5			
TYPE	STATION	NORTH	EAST
POT	10+00.00	407411.1929	2452565.3829
PC	11+81.06	407257.6659	2452661.3672
PT	12+65.42	407184.9208	2452704.0506
PC	13+67.02	407095.8736	2452752.9872
PT	14+51.73	407020.5243	2452791.6674

Y6			
TYPE	STATION	NORTH	EAST
POT	10+00.00	405229.9244	2454576.0728
POT	17+52.81	404839.3623	2453932.5047

NOTES:

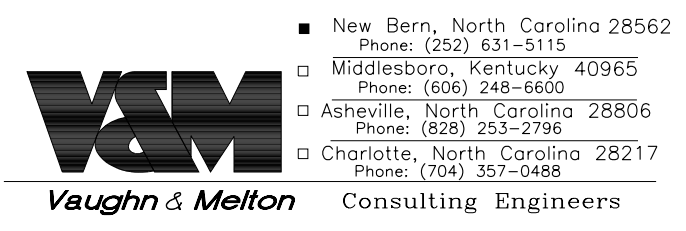

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

6/2/09

REVISIONS

8/18/2021 9:57:02 AM
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RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW03E-1
Location and Surveys	
 <ul style="list-style-type: none"> ■ New Bern, North Carolina 28562 Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 252-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	106+53.00	-30.00	413813.4705	2446908.7522
L	106+55.00	30.00	413753.4667	2446906.8709
L	107+00.00	-40.00	413820.4125	2446956.3002
L	107+00.00	38.00	413742.5755	2446951.2599
L	108+00.00	40.00	413734.1178	2447050.9217
L	111+02.23	-40.00	413794.4205	2447357.6936
L	111+69.70	40.00	413710.2284	2447419.8456
L	111+98.20	-50.00	413797.6534	2447455.5650
L	112+70.00	-50.00	413787.6788	2447530.4637
L	113+95.72	-66.00	413772.0050	2447663.7870
L	114+75.00	-51.00	413729.5128	2447737.9365
L	117+39.52	-64.39	413600.8575	2447986.6048
L	118+06.93	40.00	413477.0751	2447971.6835
L	119+00.00	-50.00	413481.4513	2448101.0748
L	119+50.00	36.00	413384.1213	2448080.5111
L	121+00.00	30.00	413288.0022	2448195.8242
L	121+00.00	50.00	413273.1635	2448182.4148
L	123+30.00	-50.00	413193.1453	2448420.1108
L	124+00.00	30.00	413087.2805	2448421.1529
L	124+00.00	40.00	413079.4723	2448414.9053
L	126+00.00	-30.00	413026.0011	2448620.4529
L	127+00.00	40.00	412918.7364	2448679.3174
L	127+50.00	30.00	412908.0886	2448730.6835
L	150+50.00	30.00	411787.3237	2450681.7604
L	151+00.00	45.00	411739.3516	2450702.3438
L	154+51.03	-30.00	411508.9342	2450979.3327
L	155+00.00	60.00	411420.8381	2450927.6130
L	155+24.03	-49.00	411453.8756	2451034.1983
L	156+35.05	-49.00	411350.4514	2451085.5468
L	158+17.07	-45.00	411171.1136	2451144.7325
L	159+33.53	-30.00	411054.8298	2451160.9943
L	159+35.45	-45.00	411056.9353	2451175.9695
L	160+34.21	40.00	410939.2429	2451120.0442
L	160+92.75	-45.00	410905.2096	2451217.4786
L	160+93.19	-30.00	410900.8303	2451203.1255
L	165+00.00	40.00	410489.9647	2451242.9578
L	165+09.54	-45.00	410503.1967	2451327.4614
L	165+50.00	30.00	410444.3758	2451265.7975
L	226+42.77	30.00	405318.5677	2454464.2146
L	228+16.67	76.85	405154.5428	2454538.5964
L	228+47.67	-55.00	405214.4317	2454660.0787
L	229+00.00	-45.00	405167.6755	2454685.6271
L	229+27.10	30.00	405099.0764	2454644.9604
L	232+00.00	-45.00	404936.0903	2454876.3319
L	233+00.00	-30.00	404849.3600	2454928.3209

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	12+25.00	30.00	414090.3290	2447765.1837
Y1	12+25.00	40.00	414087.2508	2447755.6692
Y1	14+00.44	40.00	413920.3283	2447809.6738
Y1	12+25.00	-30.00	414108.7983	2447822.2704
Y1	12+25.00	-50.00	414114.9547	2447841.2992
Y1	14+58.89	-55.83	413883.6095	2447916.1465
Y1	16+04.68	59.59	413748.3932	2447793.1145
Y1	14+99.92	50.00	413833.8714	2447814.1786
Y1	15+30.00	-58.59	413800.8379	2447921.9050

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2_REV	13+39.78	47.63	411311.9125	2451133.5225
Y2_REV	12+42.84	50.00	411367.8703	2451187.2219
Y2_REV	12+00.00	50.00	411403.2046	2451211.4458
Y2_REV	12+00.00	31.75	411392.8844	2451226.4994
Y2_REV	20+50.00	29.95	410812.9601	2450685.4332
Y2_REV	20+31.25	-45.00	410761.9581	2450743.4177
Y2_REV	20+31.25	-30.04	410774.3373	2450735.0096
Y2_REV	18+62.81	-65.11	410851.2553	2450903.8669
Y2_REV	18+45.40	-60.16	410871.0488	2450914.2037

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	19+29.75	30.00	399462.8613	2460763.4631
Y3	19+25.06	-30.00	399416.3347	2460801.6375

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	18+03.38	35.00	395246.7119	2462280.5146
Y4	13+73.14	-38.00	395212.4485	2462715.5549
Y4	10+99.01	-30.00	395244.9116	2462987.8719
Y4	11+25.00	-38.00	395234.6215	2462962.7029
Y4	15+85.93	35.00	395266.1426	2462497.0964
Y4	15+85.93	30.00	395261.1622	2462497.5380
Y4	14+38.16	35.00	395279.3469	2462644.2766
Y4	14+38.15	30.00	395274.3678	2462644.7330
Y4	13+73.57	-30.00	395220.3781	2462714.4124
Y4	14+85.35	35.00	395275.1298	2462597.2709
Y4	14+85.35	30.00	395270.1463	2462597.7145

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y6	13+25.00	-45.00	405022.8418	2454321.5796
Y6	15+00.00	-30.00	404944.8720	2454164.1930
Y6	16+50.00	30.00	404918.3419	2454004.8320
Y6	13+50.00	50.00	405091.0863	2454250.9206
Y6	11+07.77	50.00	405216.7568	2454458.0004

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L1	61+25.00	40.00	395445.8950	2462144.7231
L1	61+25.00	30.00	395447.3738	2462154.6097
L1	63+00.00	45.00	395272.0817	2462165.6705
L1	14+00.00	30.00	399663.1207	2460357.9965
L1	14+00.00	40.00	399654.4990	2460352.9304
L1	14+65.38	45.00	399617.0647	2460406.7688
L1	23+25.00	40.00	398955.9716	2460878.5388
L1	23+25.00	30.00	398959.7692	2460887.7896
L1	20+69.57	45.00	399190.3667	2460776.9118
L1	13+50.00	-30.00	399740.1817	2460345.2842
L1	14+00.00	-45.00	399727.7840	2460395.9921
L1	14+65.38	-45.00	399694.6605	2460452.3635
L1	18+04.87	-45.00	399462.9072	2460719.8926
L1	23+25.00	-50.00	398990.1499	2460961.7965
L1	23+25.00	-30.00	398982.5548	2460943.2948
L1	20+69.57	-50.00	399226.4438	2460864.7949
L1	19+14.66	-50.00	399371.6062	2460790.5332
L1	71+99.97	45.00	394382.0191	2462298.8442
L1	72+00.00	30.00	394384.2094	2462313.6835

I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base Map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 18th day of August, 2021.

DocuSigned by:

 2E405F7B0130448
 Professional Land Surveyor

L-4192
 PLS #

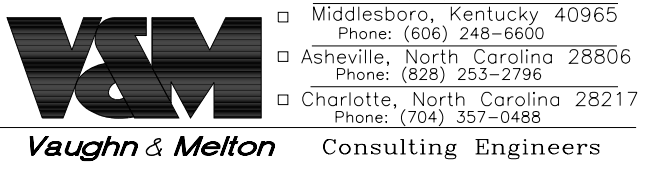

Seal

NOTES:

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- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW03E-2
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina 28562 Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6650 □ Asheville, North Carolina 28806 Phone: (828) 253-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
	
	
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

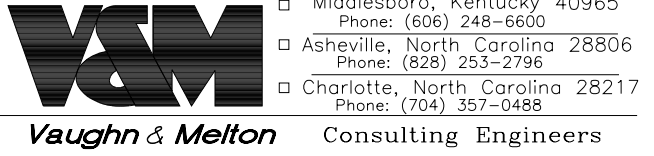
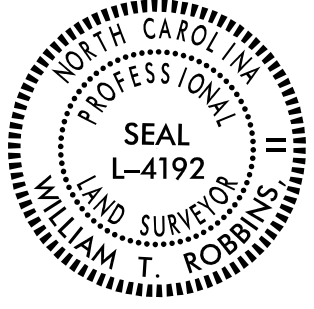
ROW MARKER PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	50+50.00	-30.00	416313.0313	2442485.4960
L	50+80.00	-39.00	416290.2260	2442506.9650
L	52+00.00	-45.00	416185.5852	2442566.0099
L	53+65.00	-30.00	416031.3038	2442626.4024
L	85+00.00	30.00	413928.7648	2444754.0740
L	85+39.09	-30.00	413974.3719	2444809.2663
L	85+90.00	45.00	413888.7161	2444839.4930
L	86+00.00	-40.00	413969.1355	2444868.7844
L	86+65.01	-30.00	413947.0460	2444928.4777
L	87+00.00	45.00	413867.6370	2444952.1317
L	87+73.17	30.00	413875.0686	2445028.9743
L	109+33.11	-40.00	413805.3489	2447188.9278
L	109+89.73	-74.40	413836.0185	2447247.6482
L	109+90.45	-57.50	413819.1072	2447247.2769
L	109+98.50	-75.75	413836.7990	2447256.4865
L	110+01.00	-58.25	413819.1740	2447257.8504
L	111+03.10	-56.96	413811.2900	2447359.6537
L	113+45.77	-57.47	413778.2935	2447610.2963
L	113+45.00	-71.50	413792.0947	2447612.9589
L	113+50.00	40.00	413682.8416	2447590.1170
L	113+50.00	60.00	413663.4847	2447585.0859
L	113+90.00	60.00	413653.2974	2447621.1477
L	113+90.00	40.00	413672.4255	2447626.9884
L	116+37.25	40.00	413574.7476	2447842.0256
L	116+37.25	48.50	413567.5297	2447837.5365
L	116+62.25	51.50	413552.2318	2447855.8651
L	116+74.75	63.00	413536.1429	2447859.2404
L	116+91.50	64.50	413526.0257	2447871.2440
L	116+95.42	-98.37	413656.7024	2447968.5373
L	117+09.00	79.75	413504.2066	2447875.4883
L	117+18.55	79.75	413499.0033	2447882.5226
L	117+16.16	61.00	413515.3606	2447891.9521
L	118+45.61	60.82	413435.6906	2447986.4199
L	118+60.45	38.50	413442.3073	2448012.3886
L	118+65.84	138.00	413364.8699	2447949.6826
L	118+85.18	133.00	413355.6135	2447967.3831
L	119+38.00	-68.00	413469.3282	2448141.3369
L	119+45.50	-95.50	413484.7029	2448165.3393
L	119+50.26	-72.84	413464.6990	2448153.6819
L	119+51.97	-64.66	413457.4851	2448149.4636
L	119+54.97	-70.38	413459.7151	2448155.5225
L	119+55.00	-93.00	413476.4786	2448170.7116
L	119+87.98	-50.00	413422.4604	2448166.3535
L	120+20.72	54.83	413322.7344	2448120.3563
L	120+21.00	60.00	413318.7113	2448117.0972
L	120+29.19	43.39	413325.5445	2448134.3080
L	121+56.00	80.00	413213.3590	2448203.8491
L	121+60.00	55.00	413229.2255	2448223.5786
L	121+66.00	82.00	413205.1704	2448209.9275
L	121+72.09	49.65	413225.0884	2448236.1389
L	122+96.33	50.45	413141.1919	2448327.7765
L	122+96.47	45.39	413144.8573	2448331.2719
L	123+37.00	-71.60	413204.7837	2448439.4774
L	123+41.50	-50.38	413186.0941	2448428.5625
L	123+48.00	-68.75	413195.8001	2448445.3333
L	124+85.50	54.50	413014.8476	2448477.7118
L	124+85.50	77.00	412996.2968	2448464.9793
L	124+95.25	77.00	412990.4510	2448473.5732
L	124+95.25	49.50	413013.2535	2448488.9451
L	125+50.23	55.00	412977.6452	2448534.3543
L	125+52.40	43.07	412986.6742	2448542.4682
L	125+52.97	40.00	412989.0006	2448544.5588
L	125+96.02	55.00	412953.5587	2448575.8071
L	125+99.35	40.00	412965.0087	2448586.0966
L	149+90.00	-69.00	411897.4946	2450718.4199
L	149+90.00	-30.00	411872.0499	2450688.8637
L	149+91.21	46.57	411821.1940	2450631.6039
L	149+92.97	30.00	411830.6858	2450645.2992
L	150+02.50	-68.50	411887.3057	2450726.4722
L	150+02.50	-30.00	411862.3903	2450697.1214
L	155+16.73	79.82	411397.3106	2450918.2392
L	155+17.50	-107.00	411488.2238	2451081.4472
L	155+27.00	-109.00	411480.1571	2451088.2289
L	155+27.50	-49.00	411450.7142	2451035.9470
L	155+37.50	-49.00	411441.5817	2451040.9322
L	159+20.68	-45.00	411071.1812	2451172.0721
L	159+20.68	-60.00	411075.1394	2451186.5404
L	159+49.50	-93.00	411056.0485	2451225.9760
L	159+49.50	-45.00	411043.3821	2451179.6773
L	159+49.50	-60.00	411047.3404	2451194.1457
L	159+62.50	-60.00	411034.8012	2451197.5761
L	159+62.50	-45.00	411030.8429	2451183.1078
L	159+62.50	-93.00	411043.5093	2451229.4065
L	160+34.90	60.51	410933.1619	2451100.4419
L	163+55.00	65.00	410623.2281	2451180.5809
L	165+93.16	46.21	410398.4670	2451261.5476
L	165+96.81	30.00	410399.2297	2451278.1486

ROW MARKER PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	171+84.37	30.00	409831.9790	2451433.8356
L	171+84.37	65.00	409821.9912	2451400.2910
L	172+04.65	30.00	409812.2672	2451439.8197
L	172+05.35	65.00	409801.2208	2451406.6006
L	172+07.41	173.81	409766.8809	2451303.3334
L	172+24.34	30.00	409793.1896	2451445.8315
L	172+25.73	173.54	409747.8925	2451309.6136
L	172+93.00	40.00	409723.7768	2451458.9327
L	172+93.00	30.00	409727.1745	2451468.3379
L	173+07.71	40.06	409709.6514	2451464.0357
L	173+08.00	30.00	409712.8644	2451473.5717
L	199+02.27	-50.92	407674.7688	2453057.4875
L	199+09.56	-57.65	407672.2552	2453067.1664
L	199+21.14	-30.00	407647.3600	2453050.3695
L	199+34.62	-30.00	407635.9341	2453057.7339
L	199+65.95	30.00	407577.3026	2453023.9041
L	200+07.86	71.26	407520.2325	2453010.7983
L	200+14.64	64.40	407518.0734	2453020.2001
L	200+34.97	85.58	407489.6534	2453012.8669
L	200+45.00	30.00	407510.3277	2453065.4207
L	200+45.00	75.00	407486.6751	2453027.1381
L	200+75.00	-30.00	407516.3427	2453132.2326
L	200+75.00	-65.00	407534.7391	2453162.0079
L	200+80.00	75.00	407456.8998	2453045.5346
L	200+80.00	30.00	407480.5523	2453083.8172
L	201+10.81	-30.00	407485.8761	2453151.0560
L	201+24.98	-65.00	407492.2241	2453188.2754
L	266+97.19	29.55	401910.5925	2456586.1729
L	267+47.50	50.00	401867.6689	2456622.5366
L	268+00.00	50.00	401844.0348	2456672.4893
L	268+46.43	29.47	401844.6428	2456725.0277
L	274+54.05	-30.00	401810.4620	2457338.3872
L	274+58.58	-88.38	401867.4983	2457351.7404
L	277+17.50	-79.50	401781.5111	2457618.3668
L	277+20.00	-58.25	401760.9697	2457612.3040
L	277+27.00	-80.75	401778.5090	2457628.2637
L	277+34.25	-30.00	401729.1057	2457614.3560

ROW MARKER PERMANENT EASEMENT - E				
ALIGN	STATION	OFFSET	NORTH	EAST
L1	11+47.00	-30.00	399843.0232	2460170.2624
L1	11+53.00	-71.00	399875.3328	2460196.2064
L1	17+69.53	-64.92	399504.4256	2460711.2882
L1	22+84.89	-60.00	399031.0515	2460955.8157
L1	23+25.00	-55.00	398992.0487	2460966.4219
L1	20+25.07	-56.21	399272.0179	2460851.5798
L1	20+76.23	-60.00	399224.0806	2460876.5748
L1	58+60.00	80.74	395701.9487	2462065.2122
L1	59+00.00	80.74	395662.3891	2462071.1312
L1	59+00.00	30.00	395669.8977	2462121.3151
L1	58+60.00	30.00	395709.4574	2462115.3960
L1	21+40.50	-78.00	399171.4615	2460917.6333
L1	21+40.50	-106.00	399182.0947	2460943.5357
L1	21+30.56	-106.00	399191.2887	2460939.7614
L1	21+29.76	-78.00	399181.3963	2460913.5549
L1	11+63.50	-69.50	399868.7201	2460204.4993
L1	11+61.00	-53.85	399856.4936	2460194.4154
L1	14+59.50	-88.50	399735.1454	2460469.3290
L1	17+70.24	-92.00	399521.5364	2460732.2914
L1	17+79.50	-65.00	399496.3663	2460718.2782
L1	23+31.00	40.25	398950.3262	2460880.5861
L1	23+30.00	89.50	398932.5481	2460834.6458
L1	23+42.50	30.00	398943.5802	2460894.4354
L1	14+49.91	-89.75	399741.0821	2460461.6931
L1	14+47.46	-68.05	399723.6114	2460448.5904
L1	14+56.00	-62.76	399714.7299	2460453.2736
L1	15+89.00	-65.00	399637.5248	2460571.7438
L1	23+40.25	89.50	398923.0660	2460838.5384
L1	78+25.94	-40.00	393786.9896	2462492.9681
L1	78+25.94	-29.18	393783.4094	2462482.7533
L1	77+00.00	-40.00	393903.5437	2462459.3792
L1	77+00.00	-30.20	393901.3742	2462449.8273
L1	66+40.25	62.50	394932.9894	2462198.7116
L1	66+53.00	59.00	394920.8962	2462204.0600
L1	66+53.00	45.00	394922.9679	2462217.9059
L1	66+38.26	45.00	394937.5469	2462215.7245
L1	81+25.00	-30.00	393521.0842	2462613.5660
L1	81+25.00	-45.00	393528.5472	2462626.5776
L1	81+55.00	-45.00	393502.5240	2462641.5038
L1	81+55.00	-30.00	393495.0609	2462628.4922
L1	19+05.20	-69.50	399390.5863	2460801.6784
L1	17+79.50	-92.50	399514.1161	2460739.2829
L1	19+05.20	-115.25	399415.0570	2460840.2884
L1	19+11.58	-115.50	399409.1289	2460844.3250
L1	18+21.28	-67.12	399462.8775	2460748.0350
L1	19+05.20	-80.35	399396.3306	

REVISIONS

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW03E-3
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina 28562 Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 252-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
	
	
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	18+67.81	-30.00	399449.0877	2460848.5915

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	10+99.03	-72.00	395203.0785	2462991.6121
Y4	11+08.00	-71.25	395203.0235	2462982.6060
Y4	11+08.00	-32.77	395241.3528	2462979.1673
Y4	14+38.27	63.37	395307.5915	2462641.6241
Y4	14+85.33	62.86	395302.8766	2462594.8010
Y4	15+85.90	61.76	395292.8001	2462494.7332

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5	11+75.00	-30.18	407278.8041	2452683.7423
Y5	11+75.00	-50.00	407289.3121	2452700.5497
Y5	11+85.00	30.21	407238.3786	2452637.7958
Y5	11+85.00	60.00	407222.6508	2452612.4916
Y5	12+15.00	-50.00	407254.2281	2452722.0162
Y5	12+15.00	-29.10	407243.5515	2452704.0470
Y5	12+25.00	60.00	407189.7708	2452632.3253
Y5	12+25.00	30.68	407204.5777	2452657.6287

I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 18th day of August, 2021.

DocuSigned by:

 2E405F250130448
 Professional Land Surveyor

L-4192
 PLS #

Seal

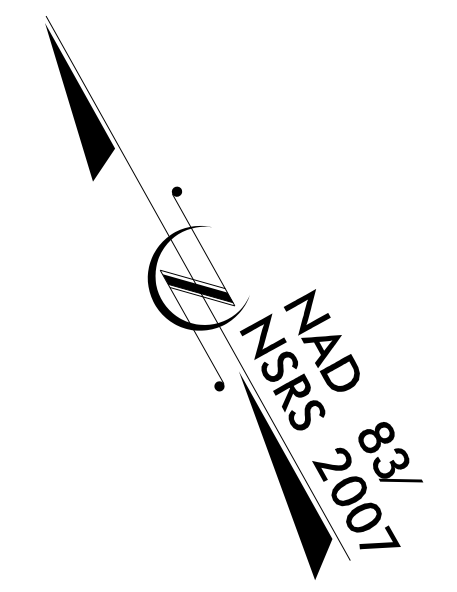
NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM



-L-

PI Sta 39+57.87
 $\Delta = 9' 23'' 12.8''$ (RT)
 $D = 3' 51'' 19.7''$
 $L = 243.47'$
 $T = 122.01'$
 $R = 1,486.09'$
 SE = EXISTING



REVISIONS



MATCH LINE -L- STA 43 + 50.00
 SEE SHEET RW05

I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).


Witness my original signature, registration number and seal this 17th day of August, 2021.

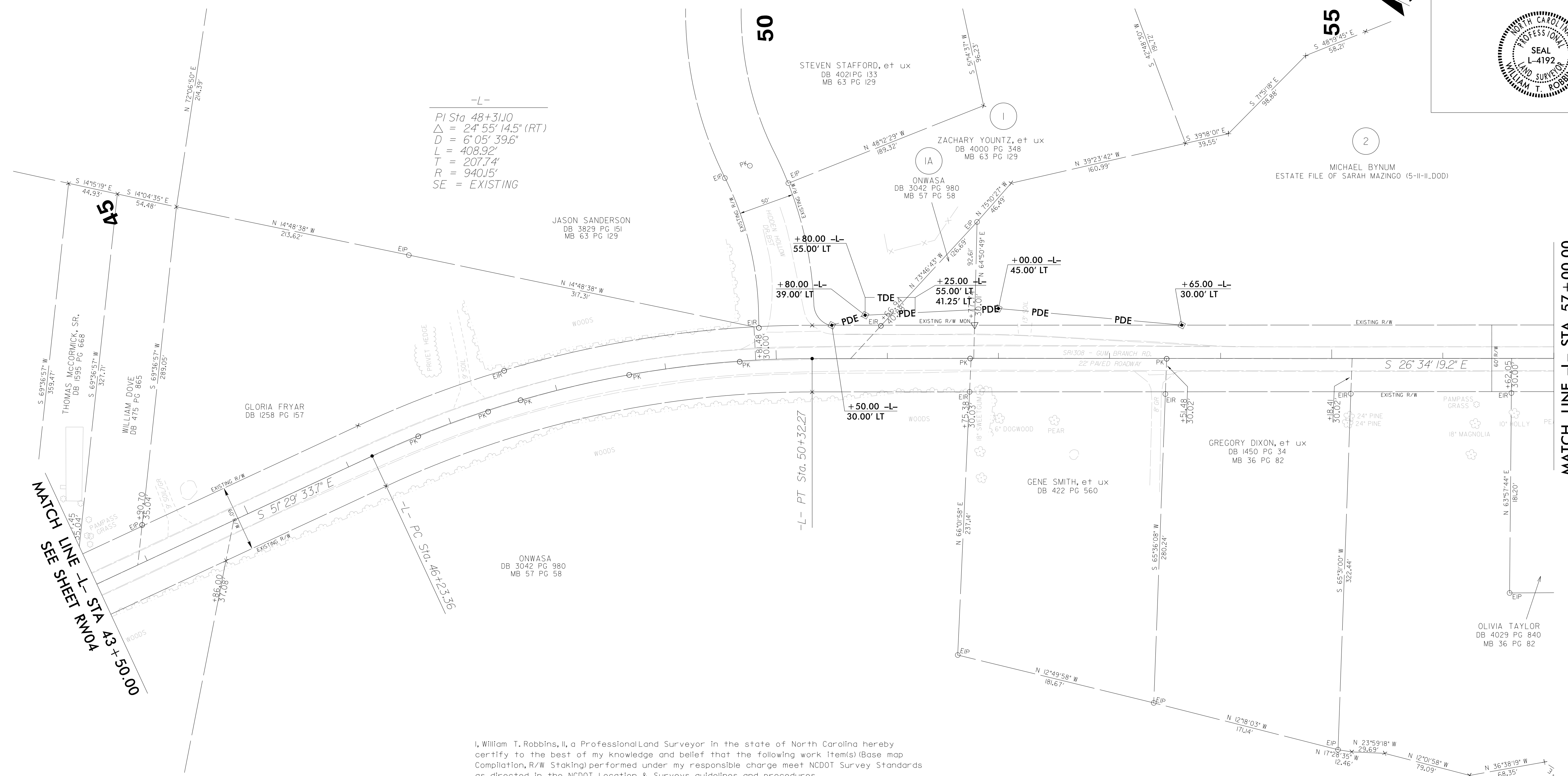

 2405220130448
 Professional Land Surveyor

L-4192
 PLS * Seal

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW05
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	



REVISIONS

MATCH LINE -L- STA 43+50.00
SEE SHEET RW04

MATCH LINE -L- STA 57+00.00
SEE SHEET RW06

I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 17th day of August, 2021.


DocuSigned by:

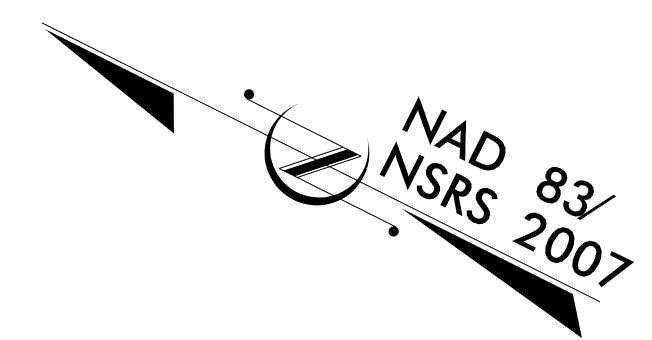
 25405F280130448
 Professional Land Surveyor

L-4192
 PLS * Seal

NOTES:

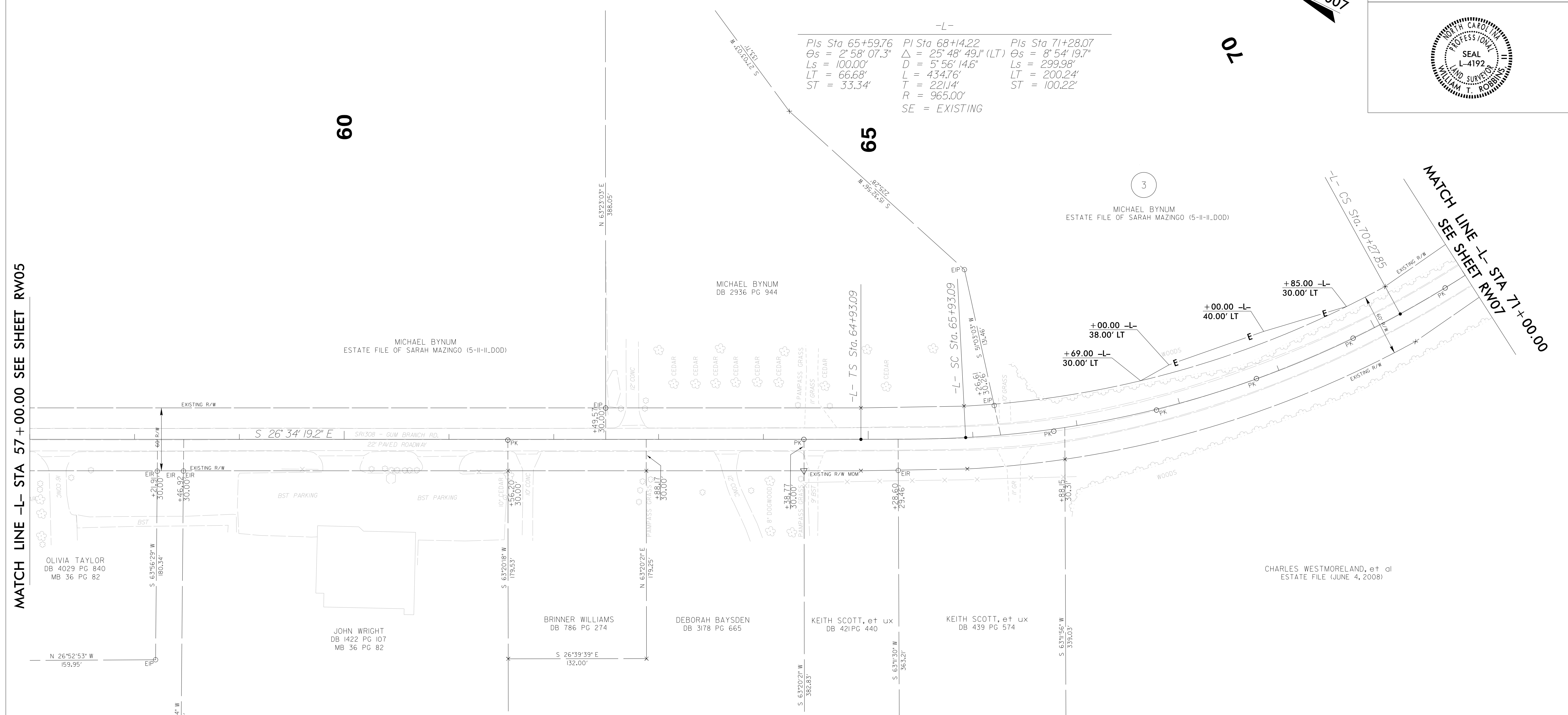
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW06
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middlesboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	



-L-

Pls Sta 65+59.76	PI Sta 68+14.22	Pls Sta 71+28.07
$\Theta s = 2^{\circ} 58' 07.3"$	$\Delta = 25^{\circ} 48' 49.1" (LT)$	$\Theta s = 8^{\circ} 54' 19.7"$
$Ls = 100.00'$	$D = 5^{\circ} 56' 14.6"$	$Ls = 299.98'$
$LT = 66.68'$	$L = 434.76'$	$LT = 200.24'$
$ST = 33.34'$	$T = 221.14'$	$ST = 100.22'$
	$R = 965.00'$	
	$SE = EXISTING$	



REVISIONS

MATCH LINE -L- STA 57 + 00.00 SEE SHEET RW05

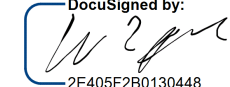
MATCH LINE -L- STA 71 + 00.00 SEE SHEET RW07

I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.


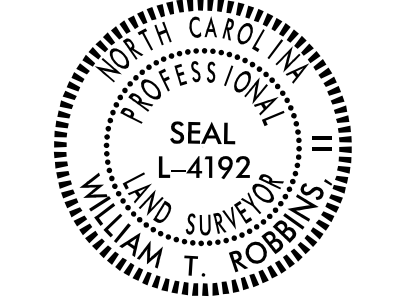
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

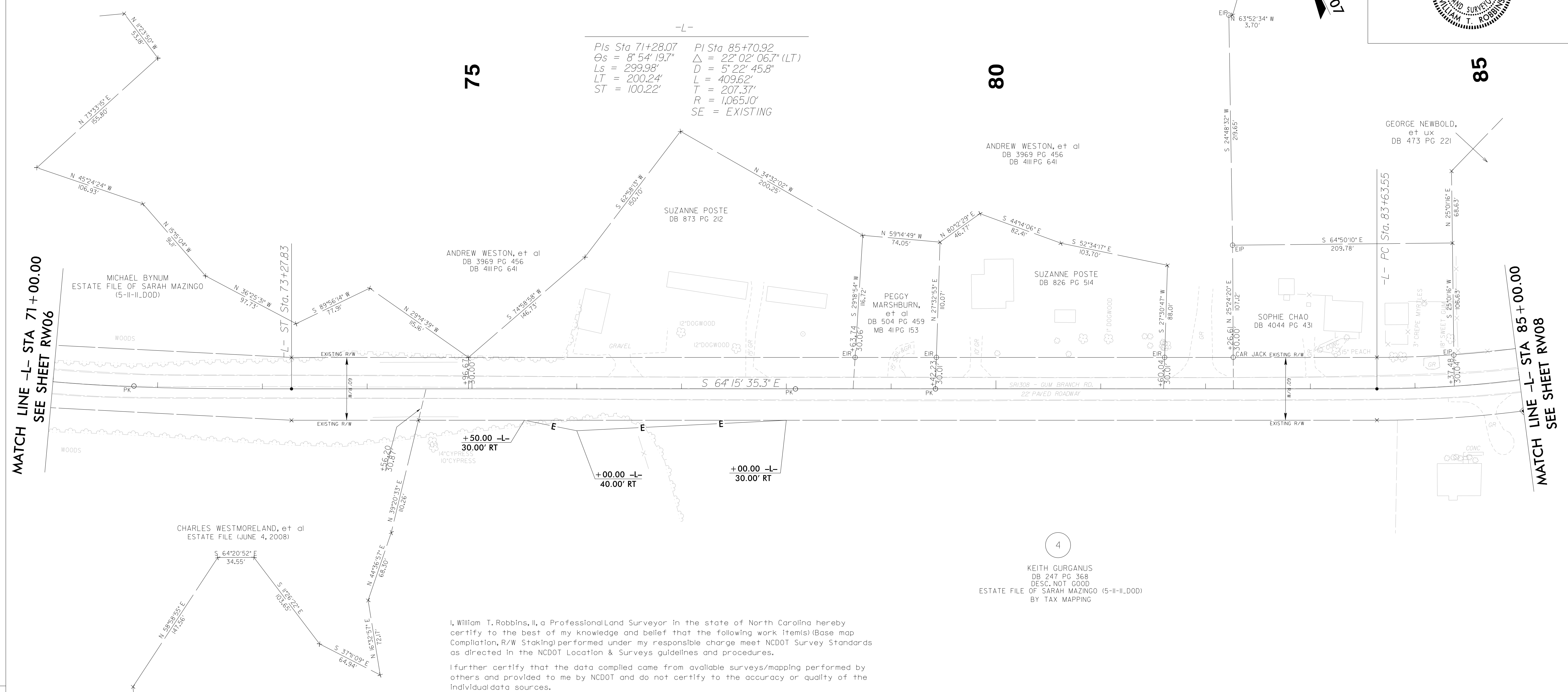
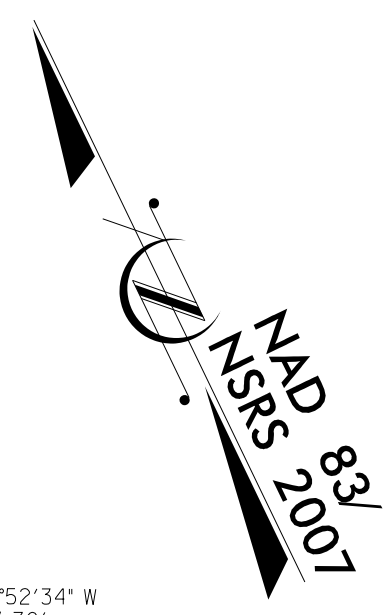
Witness my original signature, registration number and seal this 17th day of August, 2021.

DocuSigned by:

 25495F200130048
 Professional Land Surveyor L-4192 PLS # Seal

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

PROJECT REFERENCE NO. U-4906	SHEET NO. RW07
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2788 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	
	



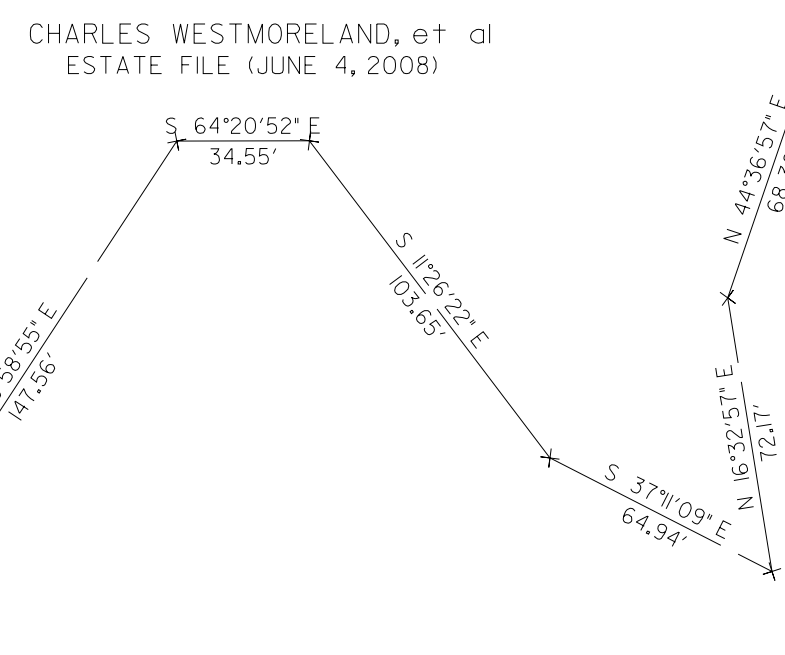
-L-

Pls Sta 71+28.07	Pl Sta 85+70.92
Os = 8' 54' 19.7"	Δ = 22' 02' 06.7" (LT)
Ls = 299.98'	D = 5' 22' 45.8"
LT = 200.24'	L = 409.62'
ST = 100.22'	T = 207.37'
	R = 1,065.10'
	SE = EXISTING

REVISIONS

MATCH LINE -L- STA 71 + 00.00
SEE SHEET RW06

MATCH LINE -L- STA 85 + 00.00
SEE SHEET RW08

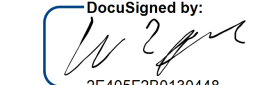


I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (Item(s) Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

If further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

If further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. Also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 17th day of August, 2021.


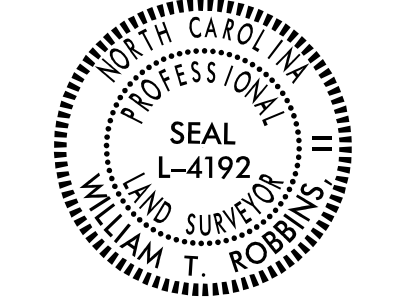

 Professional Land Surveyor
 L-4192
 PLS #

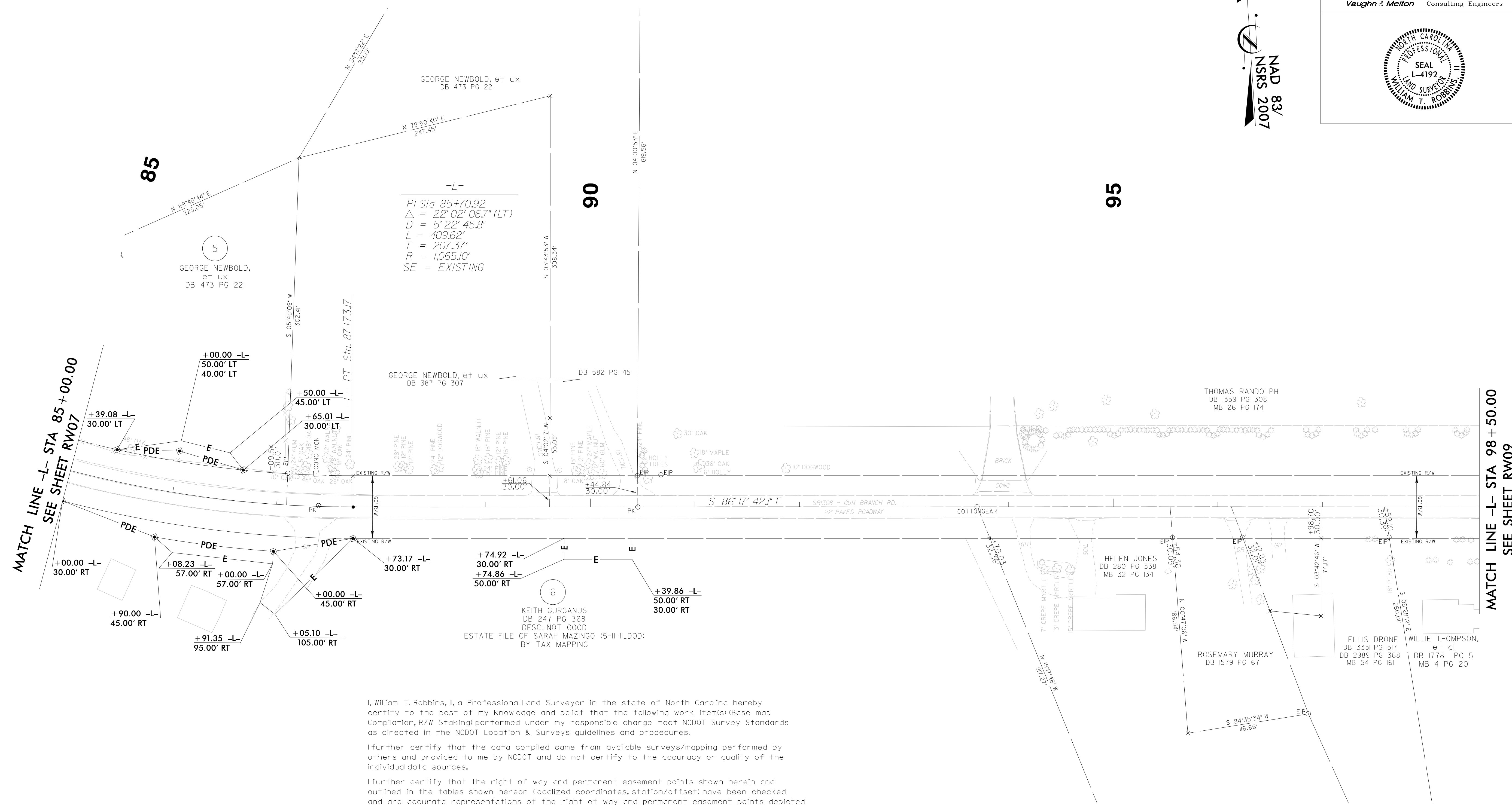
4

KEITH GURGANUS
 DB 247 PG 368
 DESC. NOT GOOD
 ESTATE FILE OF SARAH MAZINGO (5-II-II.DOD)
 BY TAX MAPPING

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

PROJECT REFERENCE NO. U-4906	SHEET NO. RW08
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2788 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	
	



REVISIONS

I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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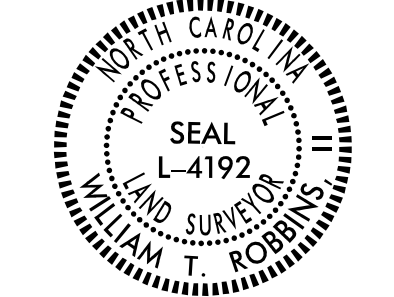
Witness my original signature, registration number and seal this 17th day of August, 2021.

Designed by: 

Professional Land Surveyor L-4192 PLS # Seal

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

PROJECT REFERENCE NO. U-4906	SHEET NO. RW09
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	
 WILLIAM ROBBINS LAND SURVEYOR SEAL L-4192	

I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

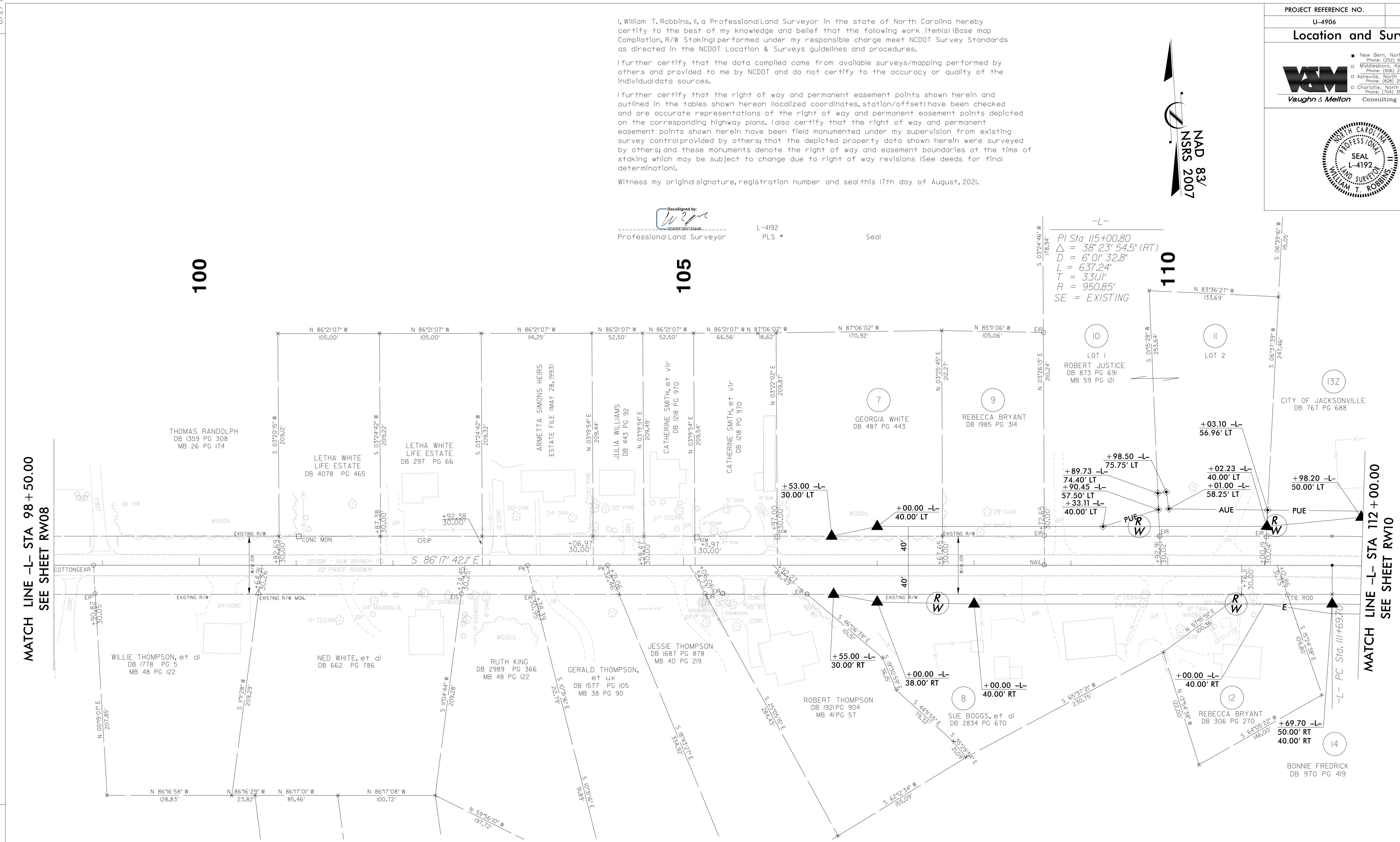
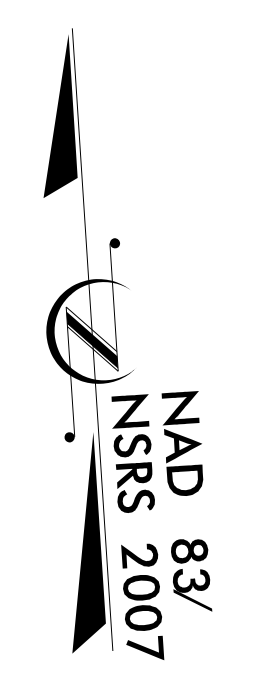
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. Also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 17th day of August, 2021.

DocuSigned by:


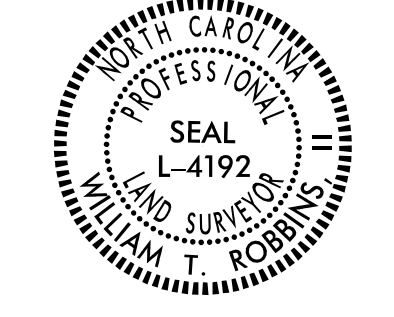
 2E405E280130448
 L-4192 PLS # Seal
 Professional Land Surveyor

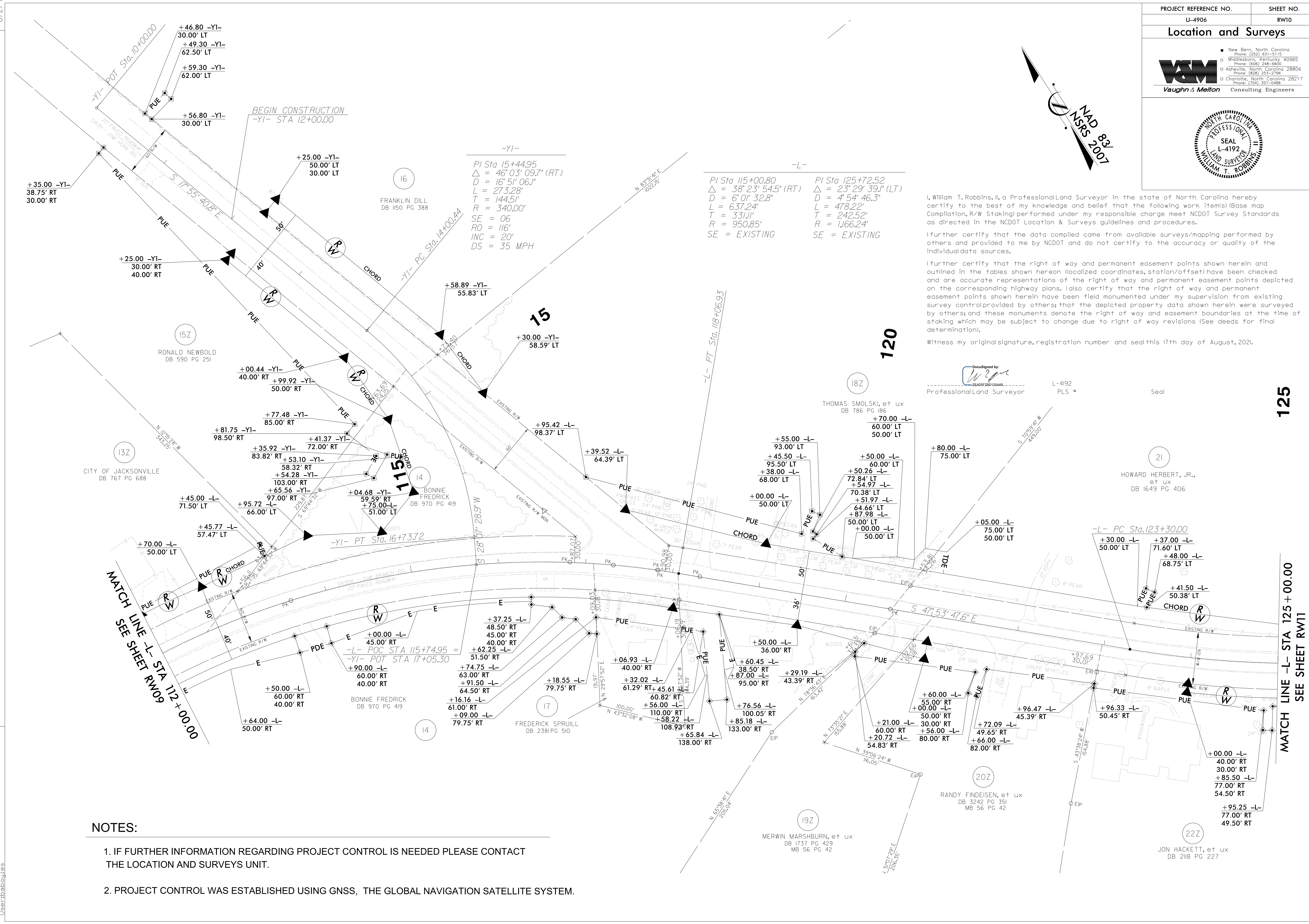
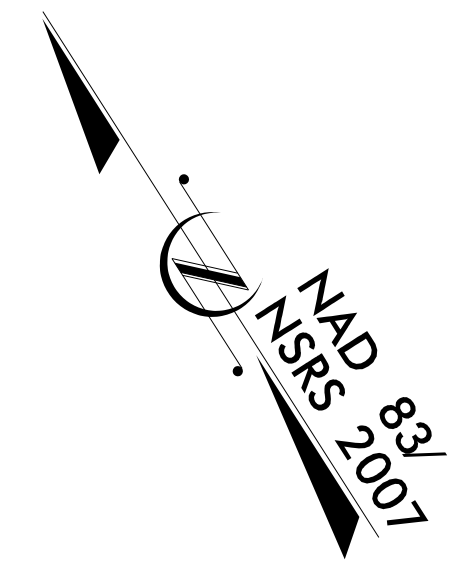


NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

PROJECT REFERENCE NO. U-4906	SHEET NO. RW10
Location and Surveys	
<ul style="list-style-type: none"> New Bern, North Carolina Phone: (252) 631-5115 Middleboro, Kentucky 40965 Phone: (606) 248-6600 Asheville, North Carolina 28806 Phone: (828) 255-2786 Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	
	



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Witness my original signature, registration number and seal this 17th day of August, 2021.

DocuSigned by:

 2640F2B013104468
 Professional Land Surveyor L-4192 PLS # Seal

NOTES:

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- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.


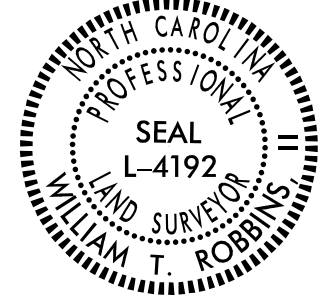
REVISIONS

125

MATCH LINE -L- STA 125+00.00
SEE SHEET RW11

MATCH LINE -L- STA 112+00.00
SEE SHEET RW09

6/2/2022 10:13:34 PM
 User: jbaboules
 User: jbaboules

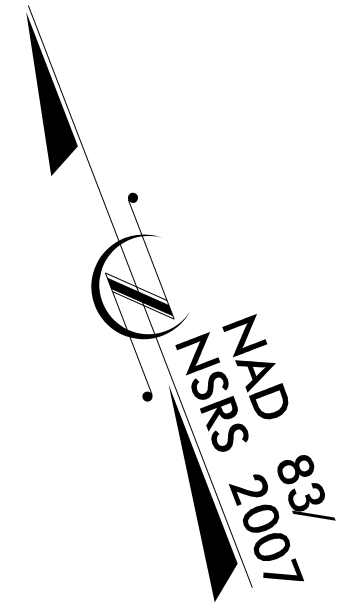
PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW11
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	
	

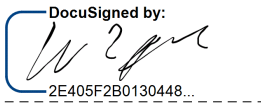
I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

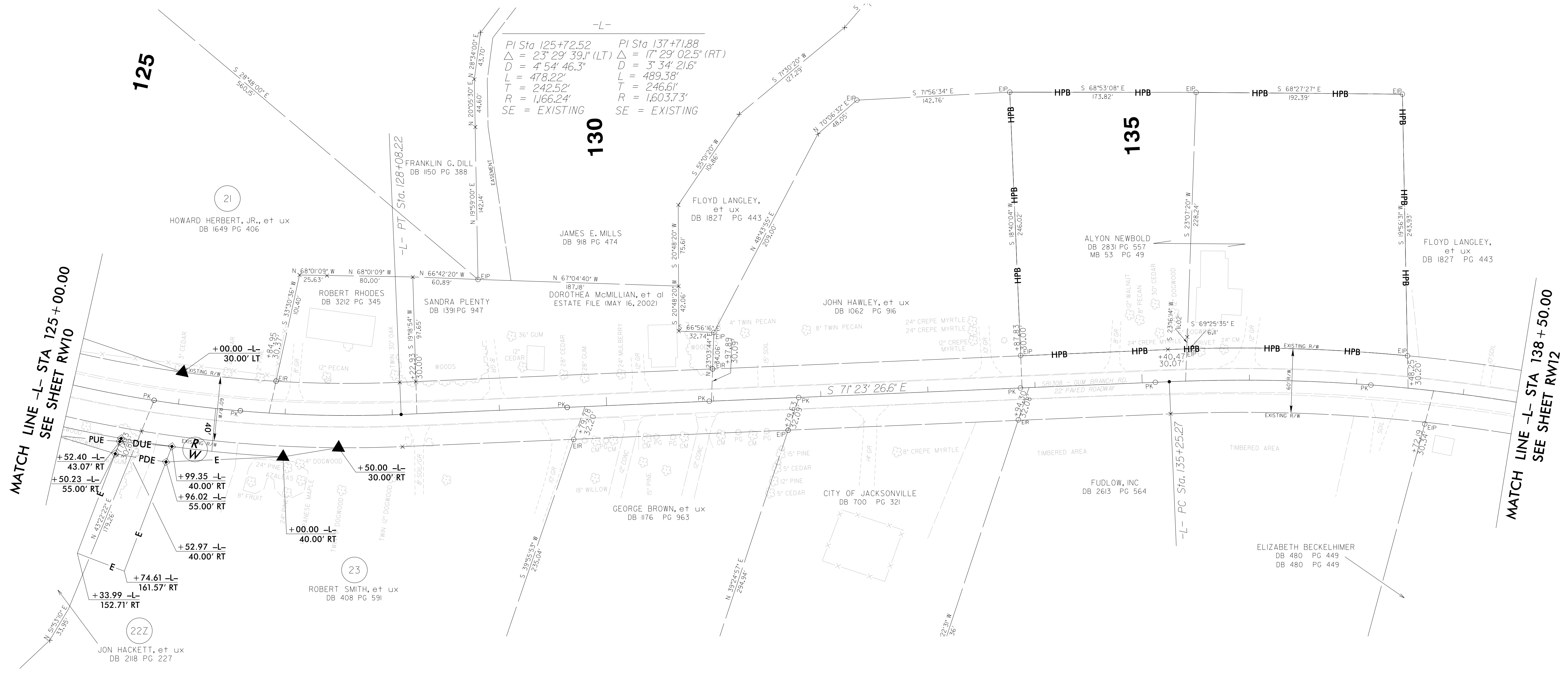
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 17th day of August, 2021.



DocuSigned by:

 2E45F280130448
 Professional Land Surveyor L-4192 PLS Seal




REVISIONS

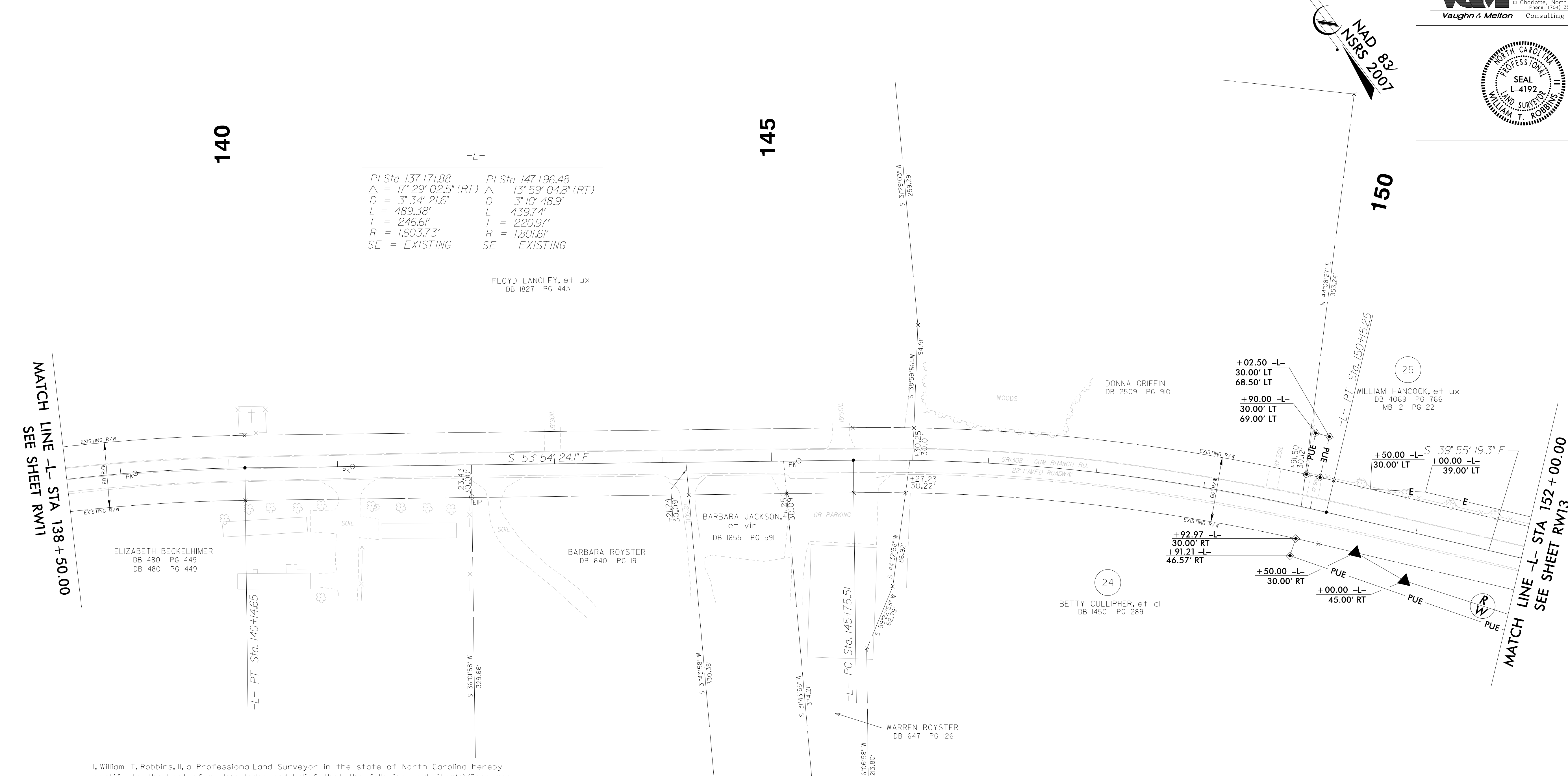
MATCH LINE -L- STA 125 + 00.00
SEE SHEET RW10

MATCH LINE -L- STA 138 + 50.00
SEE SHEET RW12

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW12
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	



-L-

PI Sta 137+71.88	PI Sta 147+96.48
$\Delta = 17^{\circ} 29' 02.5''$ (RT)	$\Delta = 13^{\circ} 59' 04.8''$ (RT)
D = 3' 34' 21.6"	D = 3' 10' 48.9"
L = 489.38'	L = 439.74'
T = 246.61'	T = 220.97'
R = 1,603.73'	R = 1,801.61'
SE = EXISTING	SE = EXISTING

FLOYD LANGLEY, et ux
DB 1827 PG 443

MATCH LINE -L- STA 138 + 50.00
SEE SHEET RW11

MATCH LINE -L- STA 152 + 00.00
SEE SHEET RW13

REVISIONS

I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base Map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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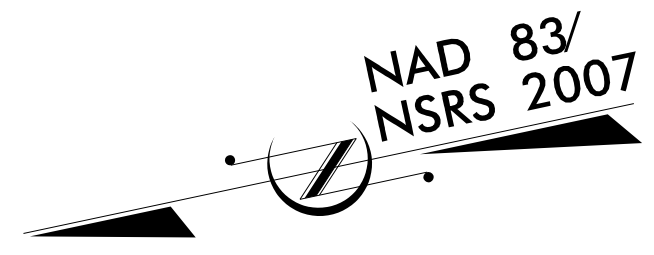
Witness my original signature, registration number and seal this 17th day of August, 2021.

DocuSigned by:

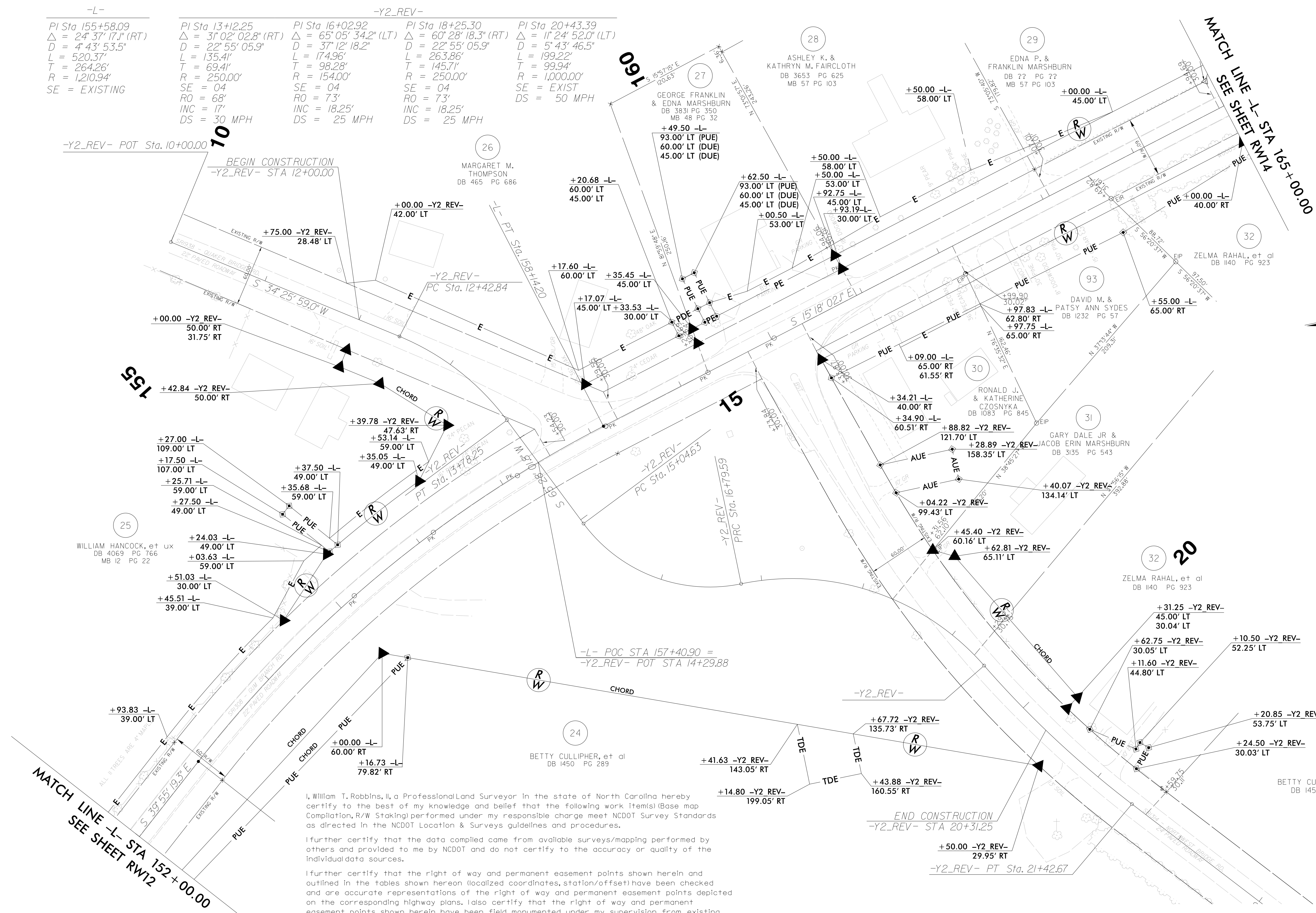
 25405F2B0130448
 Professional Land Surveyor L-4192 Seal
 PLS #

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.



-L-	-Y2_REV-			
PI Sta 155+58.09 Δ = 24° 37' 17.1" (RT) D = 4' 43" 53.5" L = 520.37' T = 264.26' R = 1,210.94' SE = EXISTING	PI Sta 13+12.25 Δ = 31° 02' 02.8" (RT) D = 22° 55' 05.9" L = 135.41' T = 69.41' R = 250.00' SE = 04 RO = 68' INC = 17' DS = 30 MPH	PI Sta 16+02.92 Δ = 65° 05' 34.2" (LT) D = 37° 12' 18.2" L = 174.96' T = 98.28' R = 154.00' SE = 04 RO = 73' INC = 18.25' DS = 25 MPH	PI Sta 18+25.30 Δ = 60° 28' 18.3" (RT) D = 22° 55' 05.9" L = 263.86' T = 145.71' R = 250.00' SE = 04 RO = 73' INC = 18.25' DS = 25 MPH	PI Sta 20+43.39 Δ = 11° 24' 52.0" (LT) D = 5' 43' 46.5" L = 199.22' T = 99.94' R = 1,000.00' SE = EXIST DS = 50 MPH



I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (item(s)) (Base map Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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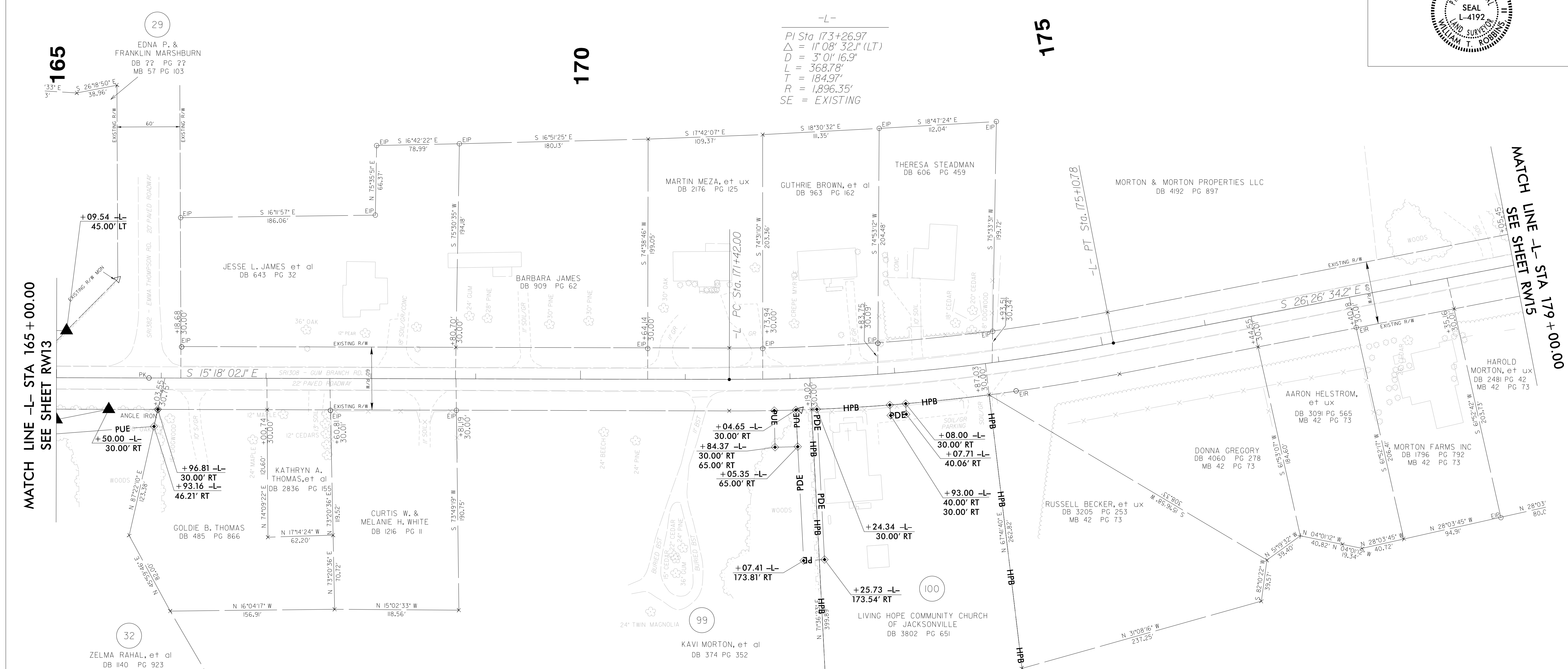
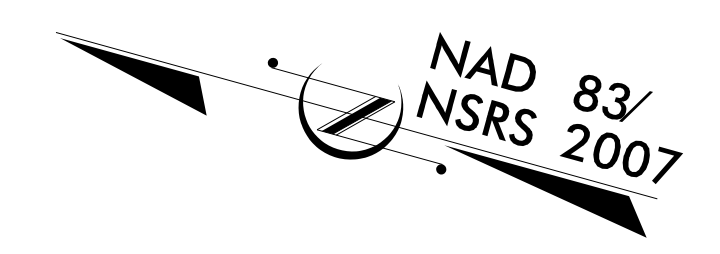
Witness my original signature, registration number and seal this 17th day of August, 2021.

DocuSigned by:
William T. Robbins, II
Professional Land Surveyor L-4192
PLS # Seal

- NOTES:**
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 - PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

6/2/2021 15:15:19 PM
User: ttabouilles



-L-

PI Sta 173+26.97
 $\Delta = 11^{\circ}08'32.1''$ (LT)
 $D = 3^{\circ}01'16.9''$
 $L = 368.78'$
 $T = 184.97'$
 $R = 1,896.35'$
 SE = EXISTING

MATCH LINE -L- STA 165 + 00.00
SEE SHEET RW13

MATCH LINE -L- STA 179 + 00.00
SEE SHEET RW15

REVISIONS

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DocuSigned by:

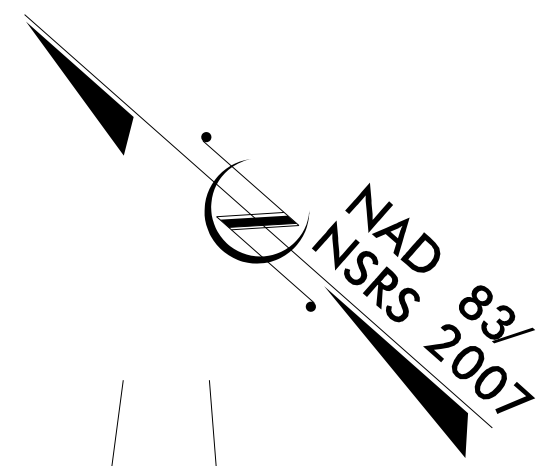
 4192
 Professional Land Surveyor

L-4192
 PLS #
 Seal

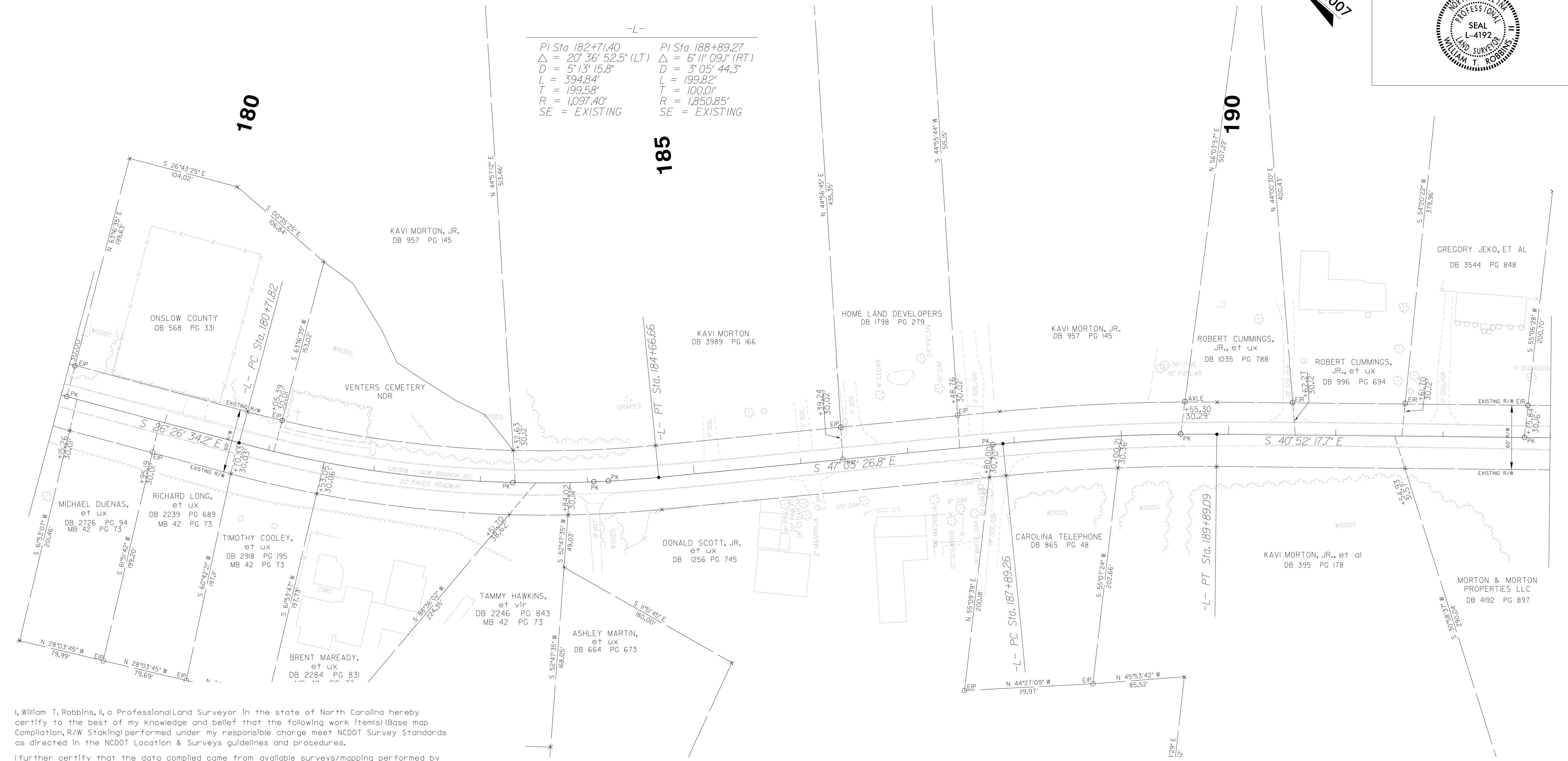
NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW15
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2788 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	



REVISIONS



-L-

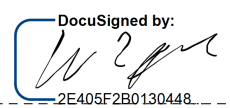
PI Sta 182+71.40	PI Sta 188+89.27
$\Delta = 20^{\circ} 36' 52.5''$ (LT)	$\Delta = 6^{\circ} 11' 09.1''$ (RT)
$D = 5^{\circ} 13' 15.8''$	$D = 3^{\circ} 05' 44.3''$
$L = 394.84'$	$L = 199.82'$
$T = 199.58'$	$T = 100.01'$
$R = 1,097.40'$	$R = 1,850.85'$
SE = EXISTING	SE = EXISTING

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Witness my original signature, registration number and seal this 17th day of August, 2021.

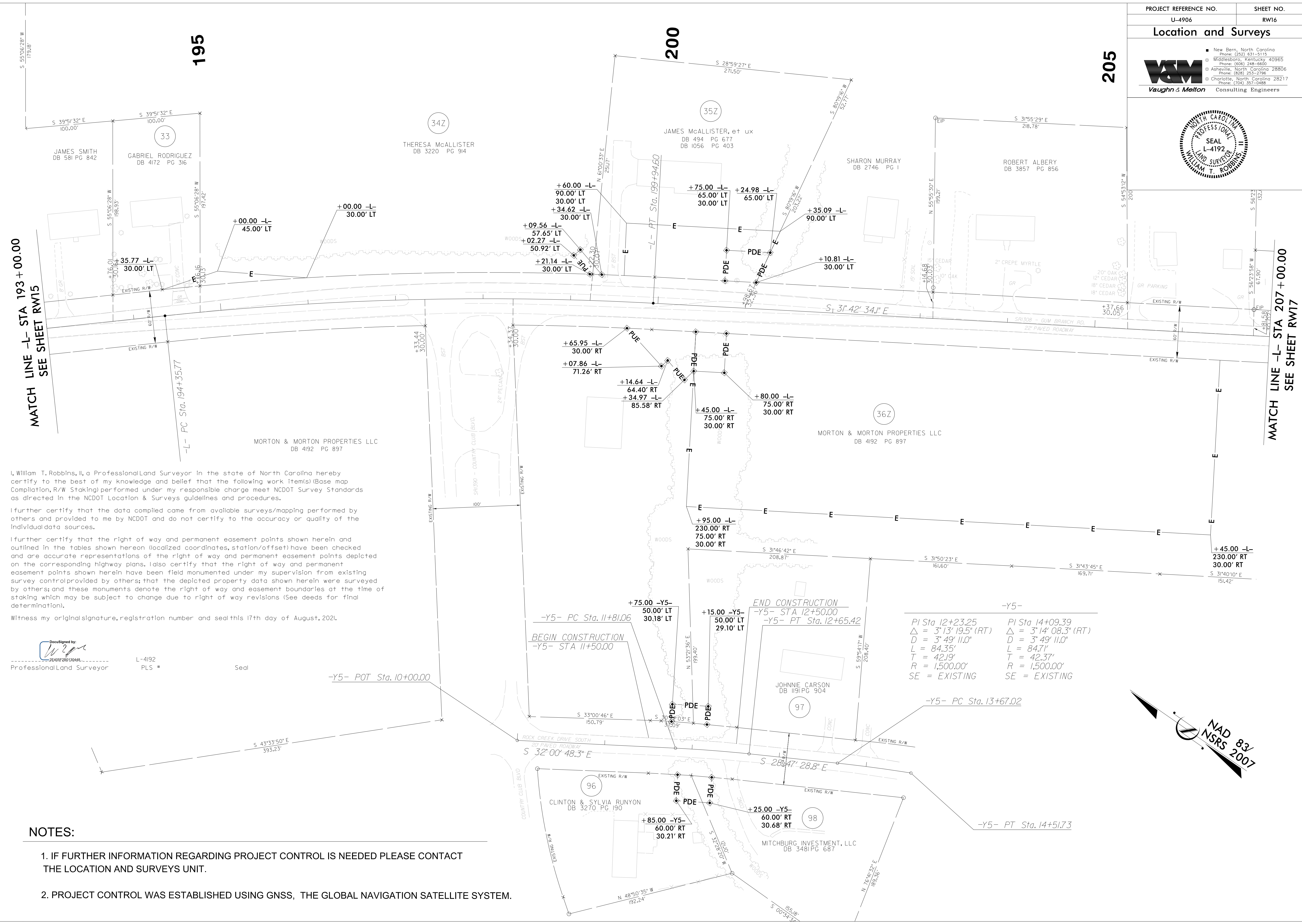
DocuSigned by:

 3E409F2B0130444
 Professional Land Surveyor L-4192
 Seal PLS #

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

6/2/2021 12:27:45 PM
 L:\Projects\U-4906.LS.rw15.dgn
 User: tbarboyls

PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW16
Location and Surveys	
<ul style="list-style-type: none"> New Bern, North Carolina Phone: (252) 631-5115 Middleboro, Kentucky 40965 Phone: (606) 248-1660 Asheville, North Carolina 28806 Phone: (828) 253-2786 Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	

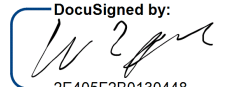


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DocuSigned by:

 2E405F280130448
 Professional Land Surveyor L-4192 PLS * Seal

PI Sta 12+23.25 $\Delta = 3'13'19.5''$ (RT) $D = 3'49'11.0''$ $L = 84.35'$ $T = 42.19'$ $R = 1,500.00'$ SE = EXISTING	PI Sta 14+09.39 $\Delta = 3'14'08.3''$ (RT) $D = 3'49'11.0''$ $L = 84.71'$ $T = 42.37'$ $R = 1,500.00'$ SE = EXISTING
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NOTES:

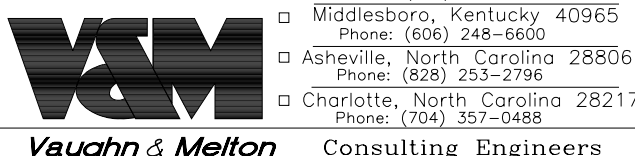
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

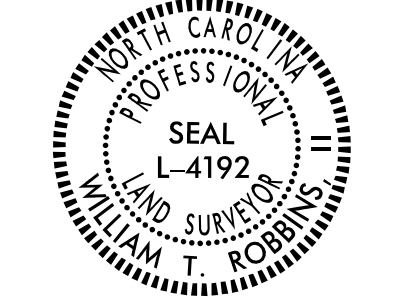
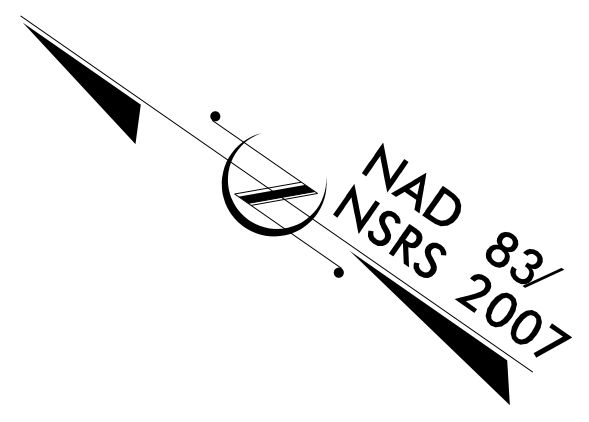


REVISIONS

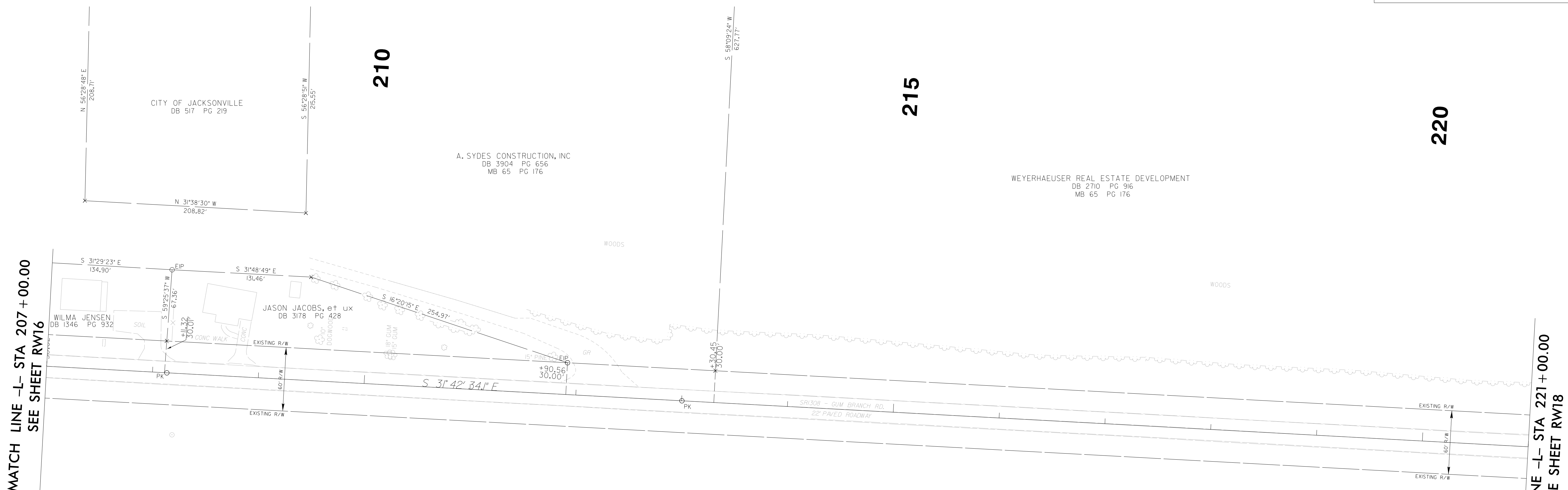
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 User: wtr

6/2/2021

PROJECT REFERENCE NO. U-4906	SHEET NO. RW17
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
	



REVISIONS



MATCH LINE -L- STA 207 + 00.00
SEE SHEET RW16

MATCH LINE -L- STA 221 + 00.00
SEE SHEET RW18

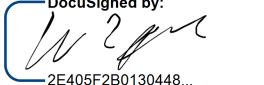
I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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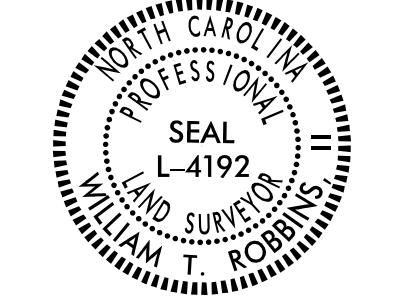
Witness my original signature, registration number and seal this 17th day of August, 2021.

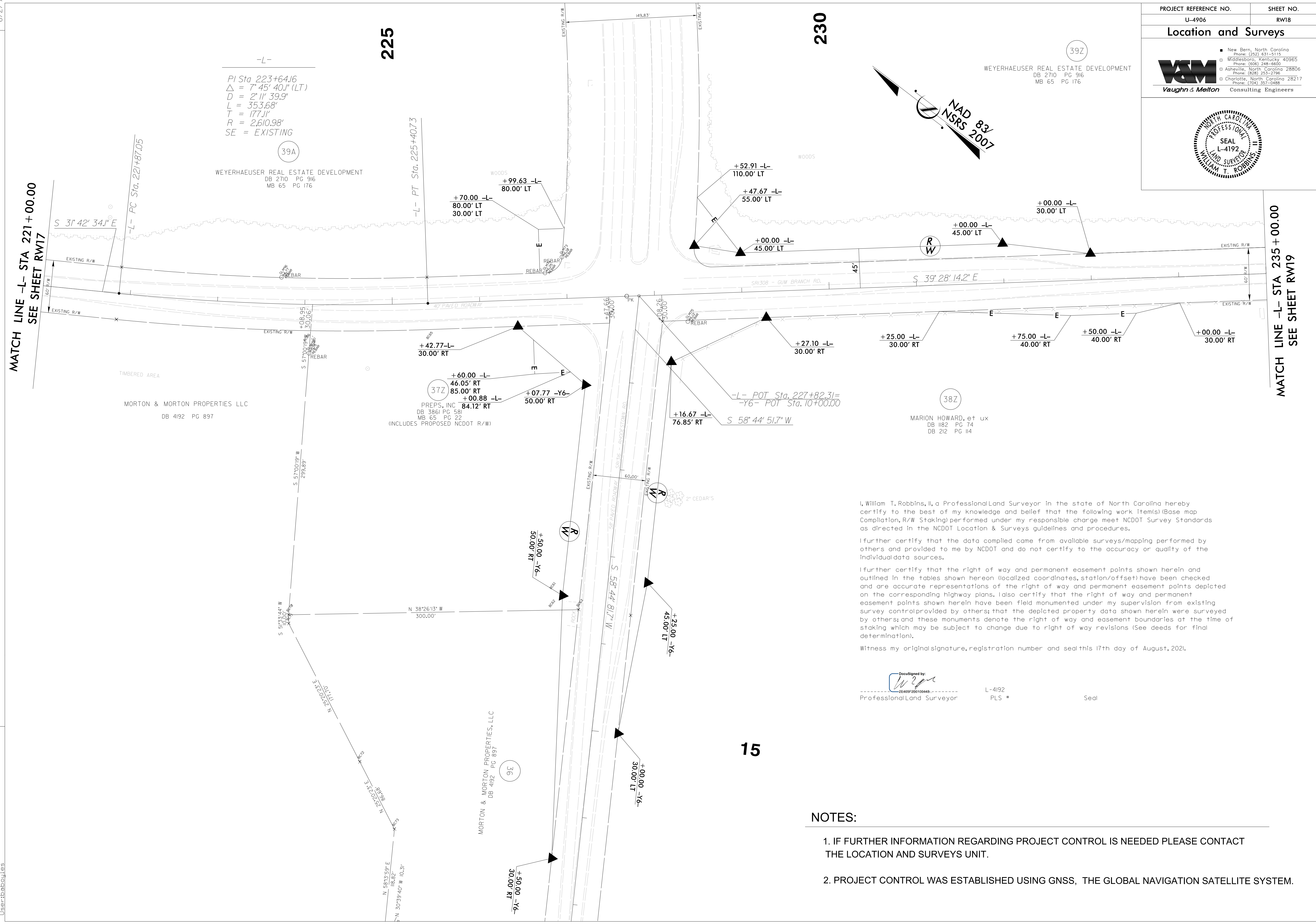
MORTON & MORTON PROPERTIES LLC
DB 4192 PG 897

DocuSigned by:

Professional Land Surveyor L-4192
PLS # Seal

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
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PROJECT REFERENCE NO. U-4906	SHEET NO. RW18
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	
	



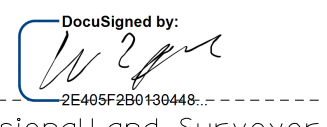
REVISIONS

I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (Items) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.


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Witness my original signature, registration number and seal this 17th day of August, 2021.

Designed by: 
 Professional Land Surveyor L-4192 PLS Seal

- NOTES:**
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW19
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2786 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	



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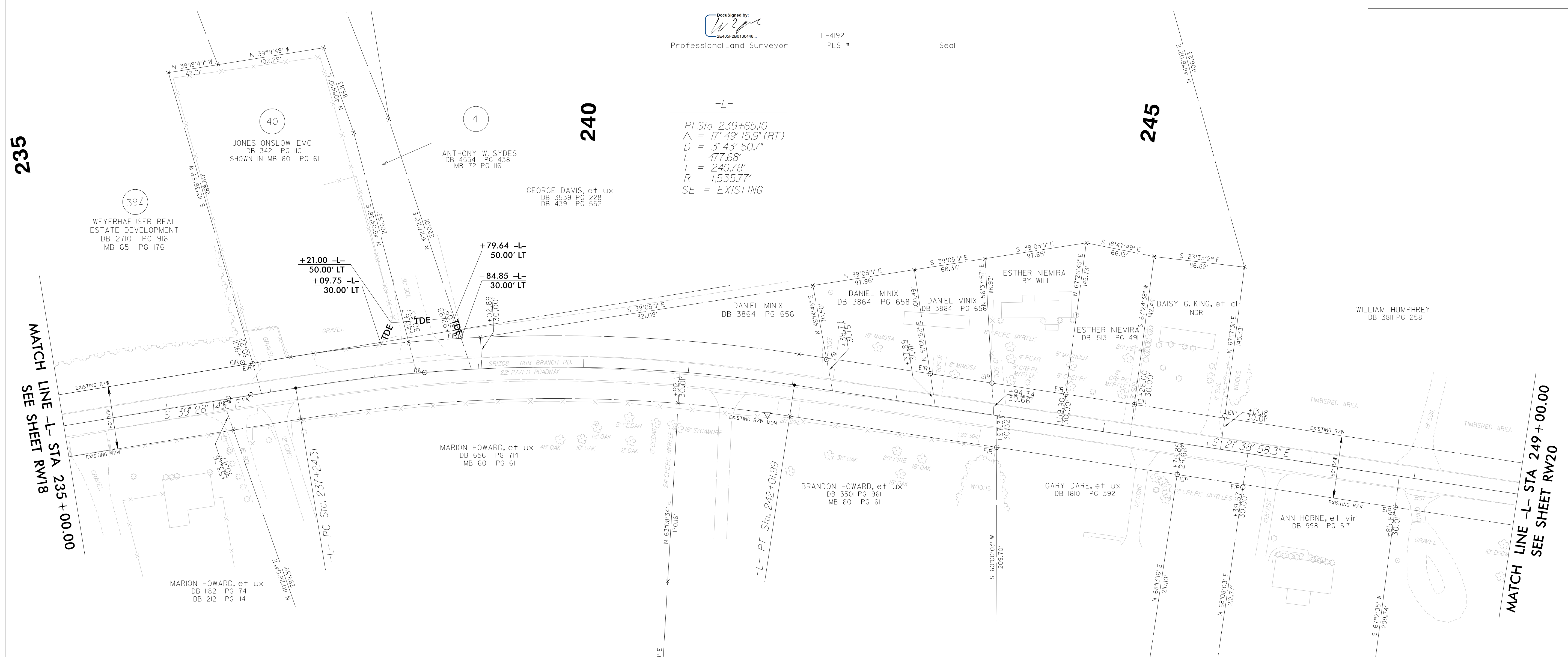
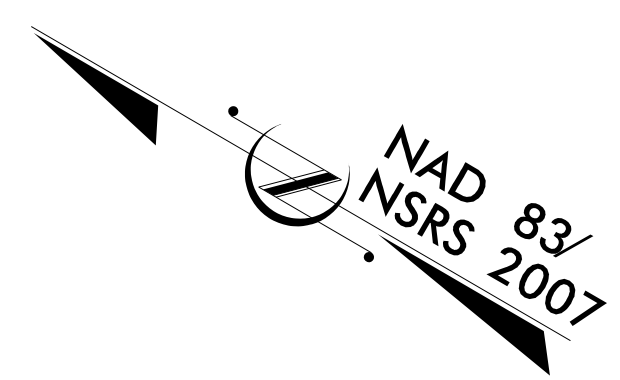
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Witness my original signature, registration number and seal this 17th day of August, 2021.

Designed by: 
 2E405E20130448
 Professional Land Surveyor

L-4192
 PLS #

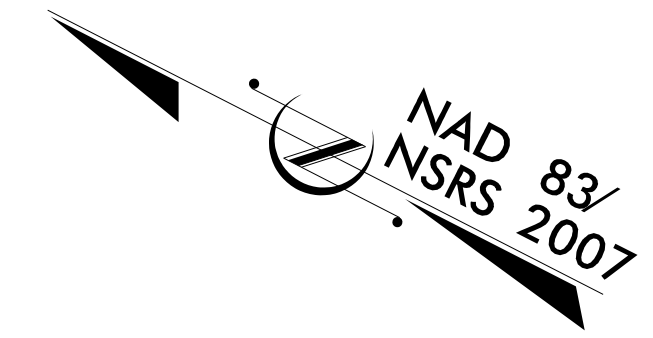
Seal



REVISIONS

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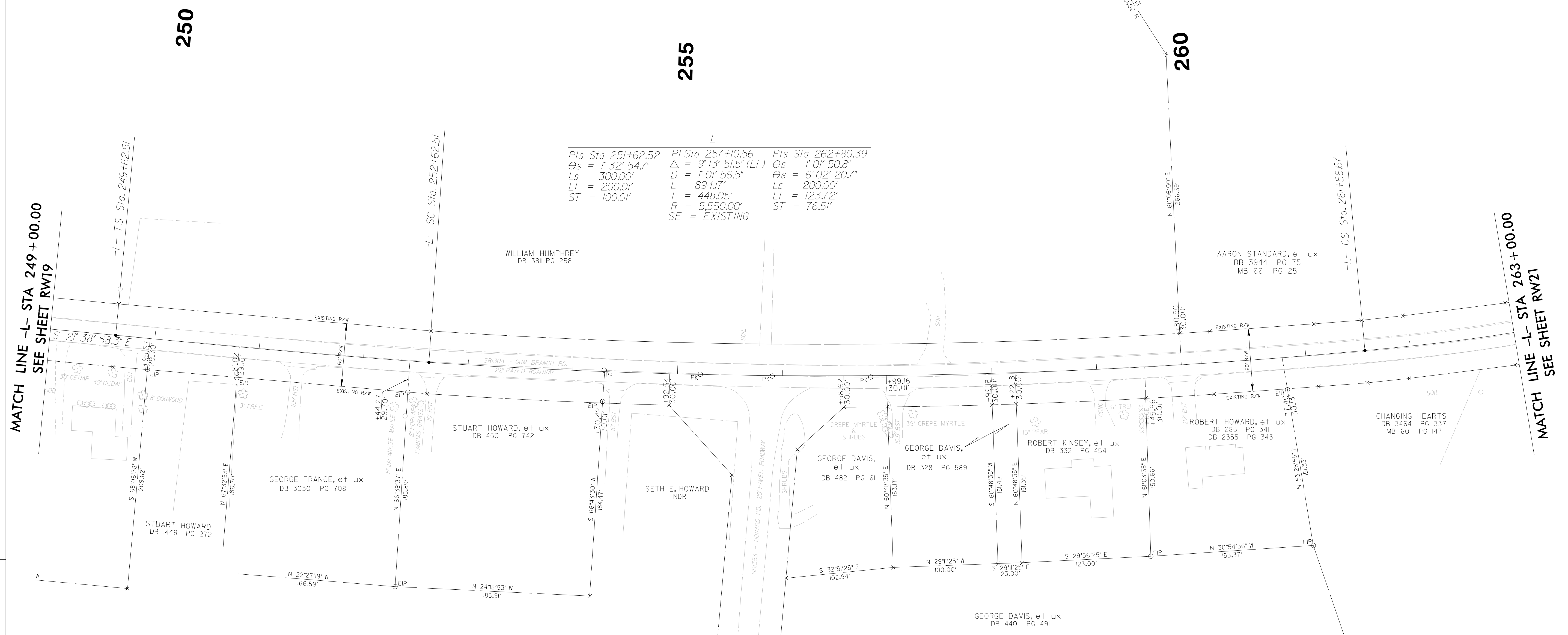
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Witness my original signature, registration number and seal this 17th day of August, 2021.

Designed by: 
Professional Land Surveyor L-4192 PLS Seal


-L-		
Pls Sta 251+62.52	PI Sta 257+10.56	Pls Sta 262+80.39
Os = 1' 32' 54.7"	Δ = 9' 13' 51.5" (LT)	Os = 1' 01' 50.8"
Ls = 300.00'	D = 1' 01' 56.5"	Os = 6' 02' 20.7"
LT = 200.01'	L = 894.17'	Ls = 200.00'
ST = 100.01'	T = 448.05'	LT = 123.72'
	R = 5,550.00'	ST = 76.51'
	SE = EXISTING	



NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

PROJECT REFERENCE NO. U-4906	SHEET NO. RW21
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2788 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
 Vaughn & Melton Consulting Engineers	

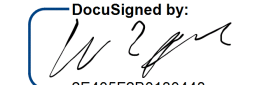


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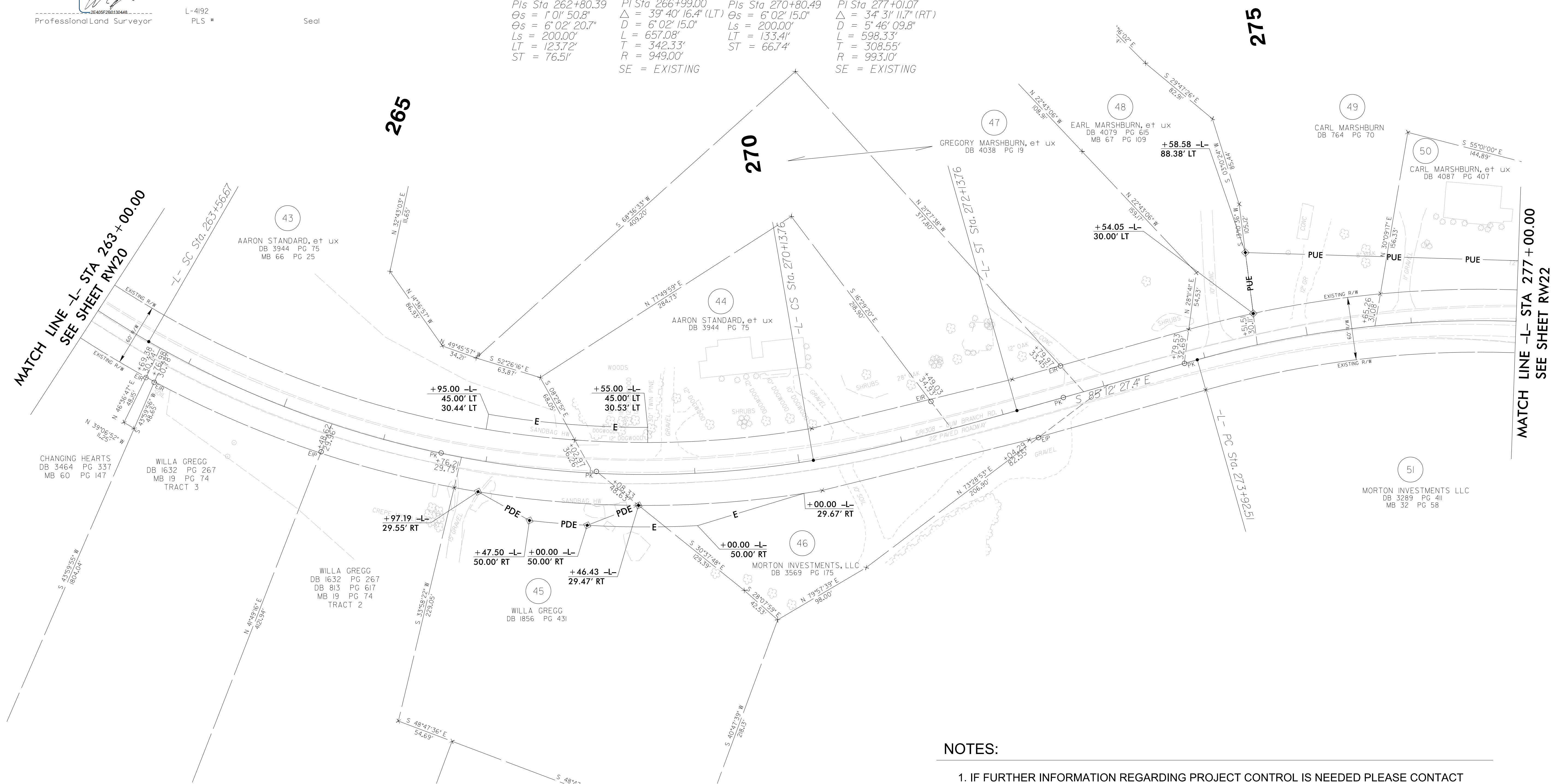
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Witness my original signature, registration number and seal this 17th day of August, 2021.

DocuSigned by:

 2E405F2B0130448
 Professional Land Surveyor L-4192 PLS Seal

-L-			
PIs Sta. 262+80.39	PI Sta. 266+99.00	PIs Sta. 270+80.49	PI Sta. 277+01.07
Θs = 1°01'50.8"	Δ = 39°40'16.4" (LT)	Θs = 6°02'15.0"	Δ = 34°31'11.7" (RT)
Θs = 6°02'20.7"	D = 6°02'15.0"	Ls = 200.00'	D = 5°46'09.8"
Ls = 200.00'	L = 657.08'	LT = 133.41'	L = 598.33'
LT = 123.72'	T = 342.33'	ST = 66.74'	T = 308.55'
ST = 76.51'	R = 949.00'		R = 993.10'
	SE = EXISTING		SE = EXISTING



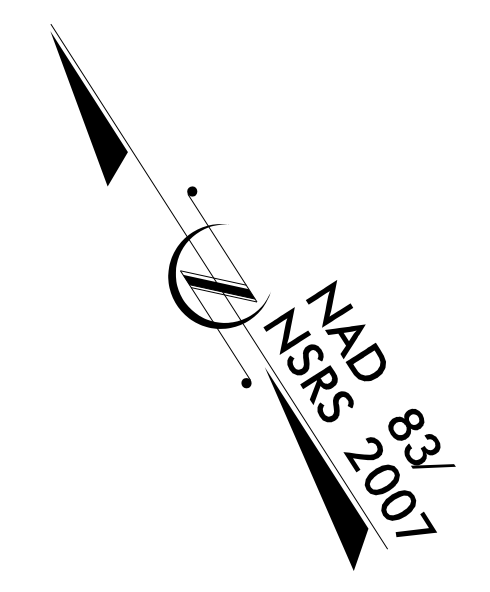
NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

6/2/2021 12:38:00 PM
User: jabboules

PROJECT REFERENCE NO.	SHEET NO.
U-4906	RW22
Location and Surveys	
<ul style="list-style-type: none"> ■ New Bern, North Carolina Phone: (252) 631-5115 □ Middleboro, Kentucky 40965 Phone: (606) 248-6600 □ Asheville, North Carolina 28806 Phone: (828) 255-2795 □ Charlotte, North Carolina 28217 Phone: (704) 357-0488 	
Vaughn & Melton Consulting Engineers	



-L-
 PI Sta 277+01.07
 $\Delta = 34' 31'' 11.7''$ (RT)
 $D = 5' 46'' 09.8''$
 $L = 598.33'$
 $T = 308.55'$
 $R = 993.10'$
 SE = EXISTING



REVISIONS

285

I, William T. Robbins, II, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 17th day of August, 2021.

DocuSigned by:
 William T. Robbins
 2E405E28013044E
 Professional Land Surveyor

L-4192
 PLS #

Seal

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

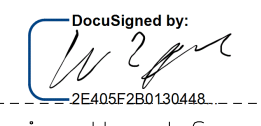


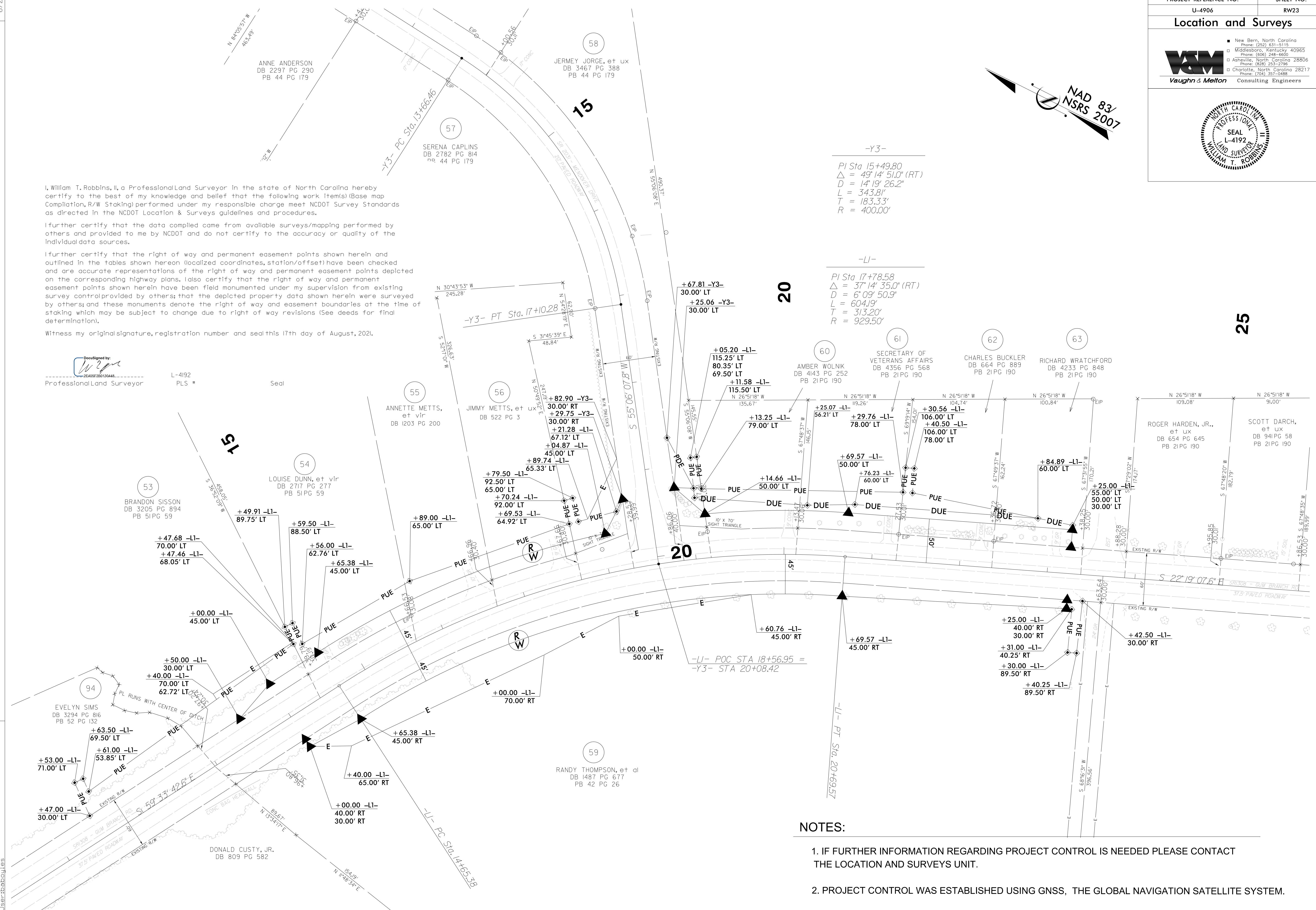
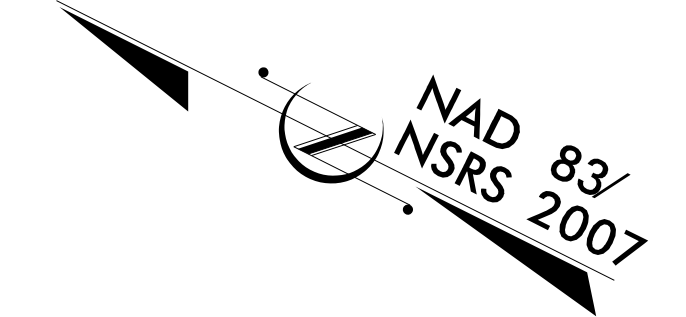
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DocuSigned by:

 L-4192
 Professional Land Surveyor Seal

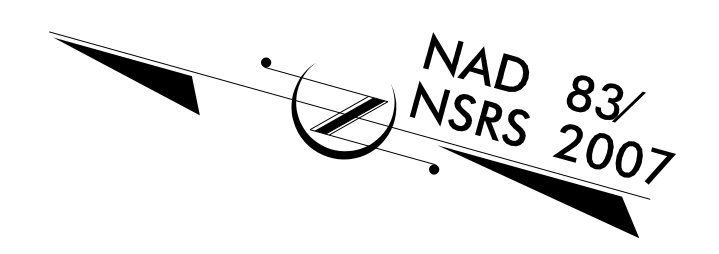


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REVISIONS

6/2/2023 10:40:43 AM
 User: wtaboyles



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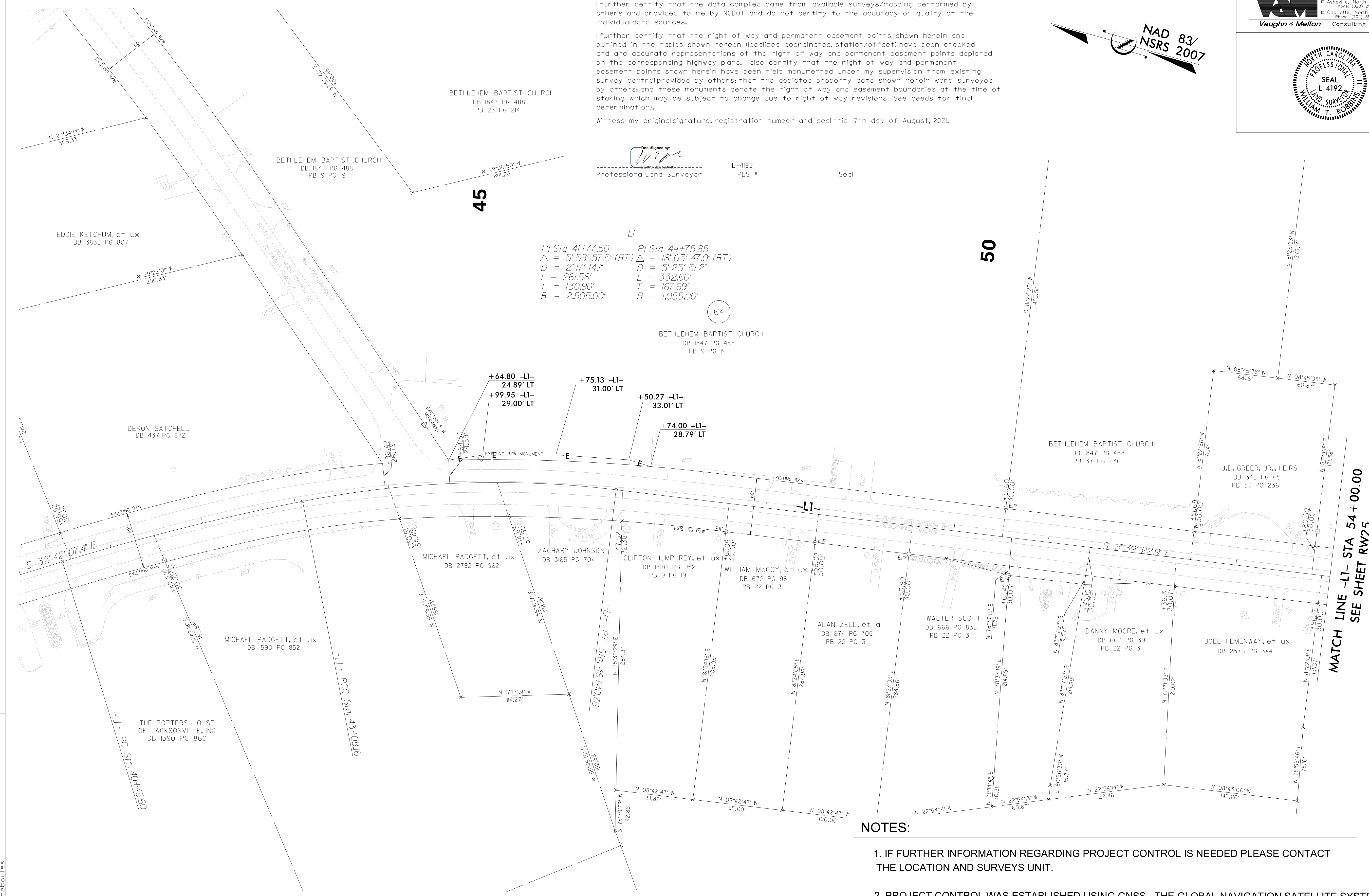
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Witness my original signature, registration number and seal this 17th day of August, 2021.

DocuSigned by

 28465220130448
 Professional Land Surveyor

L-4192
 PLS # Seal



-L1-	
PI Sta 41+77.50	PI Sta 44+75.85
$\Delta = 5^{\circ} 58' 57.5''$ (RT)	$\Delta = 18^{\circ} 03' 47.0''$ (RT)
$D = 2^{\circ} 17' 14.1''$	$D = 5^{\circ} 25' 51.2''$
$L = 261.56'$	$L = 332.60'$
$T = 130.90'$	$T = 167.69'$
$R = 2,505.00'$	$R = 1,055.00'$

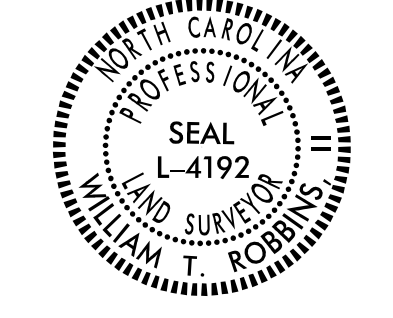
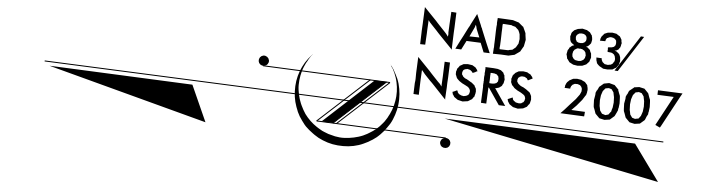
64

REVISIONS

MATCH LINE -L1- STA 54 + 00.00
SEE SHEET RW25

NOTES:

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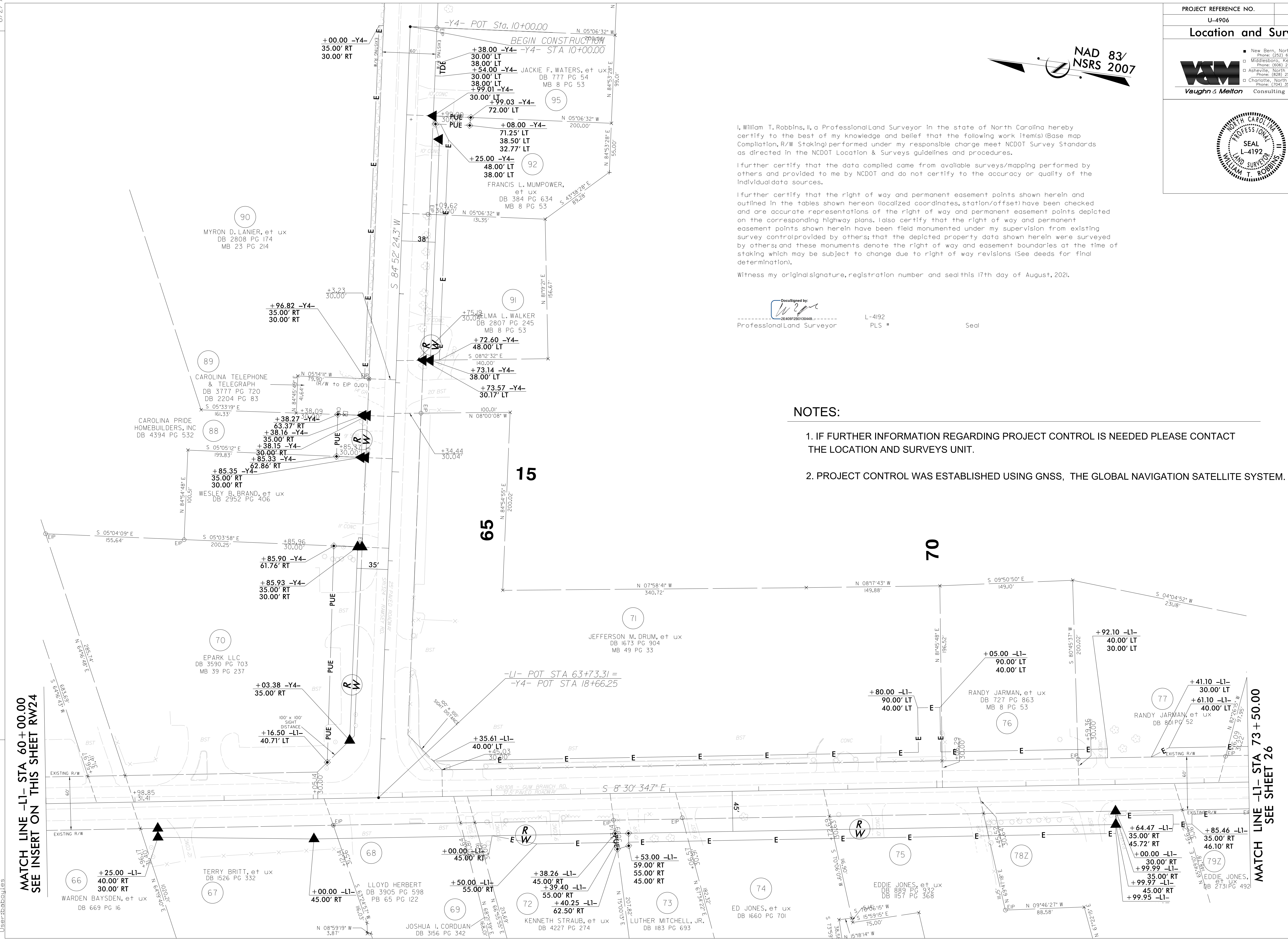
DocuSigned by:

 2E405F280130448... L-4192
 Professional Land Surveyor PLS # Seal

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REVISIONS



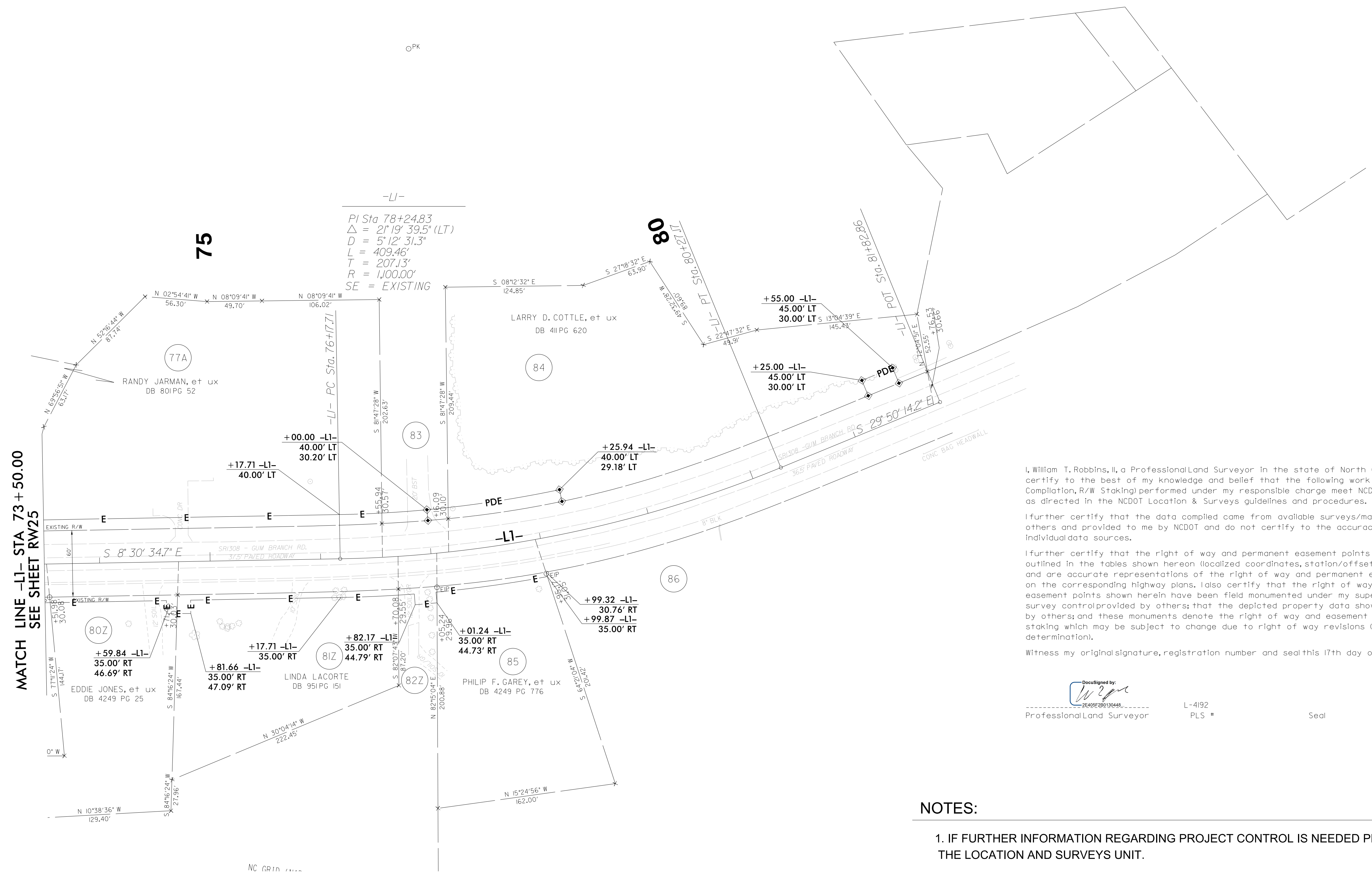
MATCH LINE -L1- STA 60+00.00
SEE INSERT ON THIS SHEET RW24

MATCH LINE -L1- STA 73+50.00
SEE SHEET 26

6/2/2021 12:42:42 PM
User: tababoules



REVISIONS



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 26409F280190448
 Professional Land Surveyor L-4192 PLS Seal

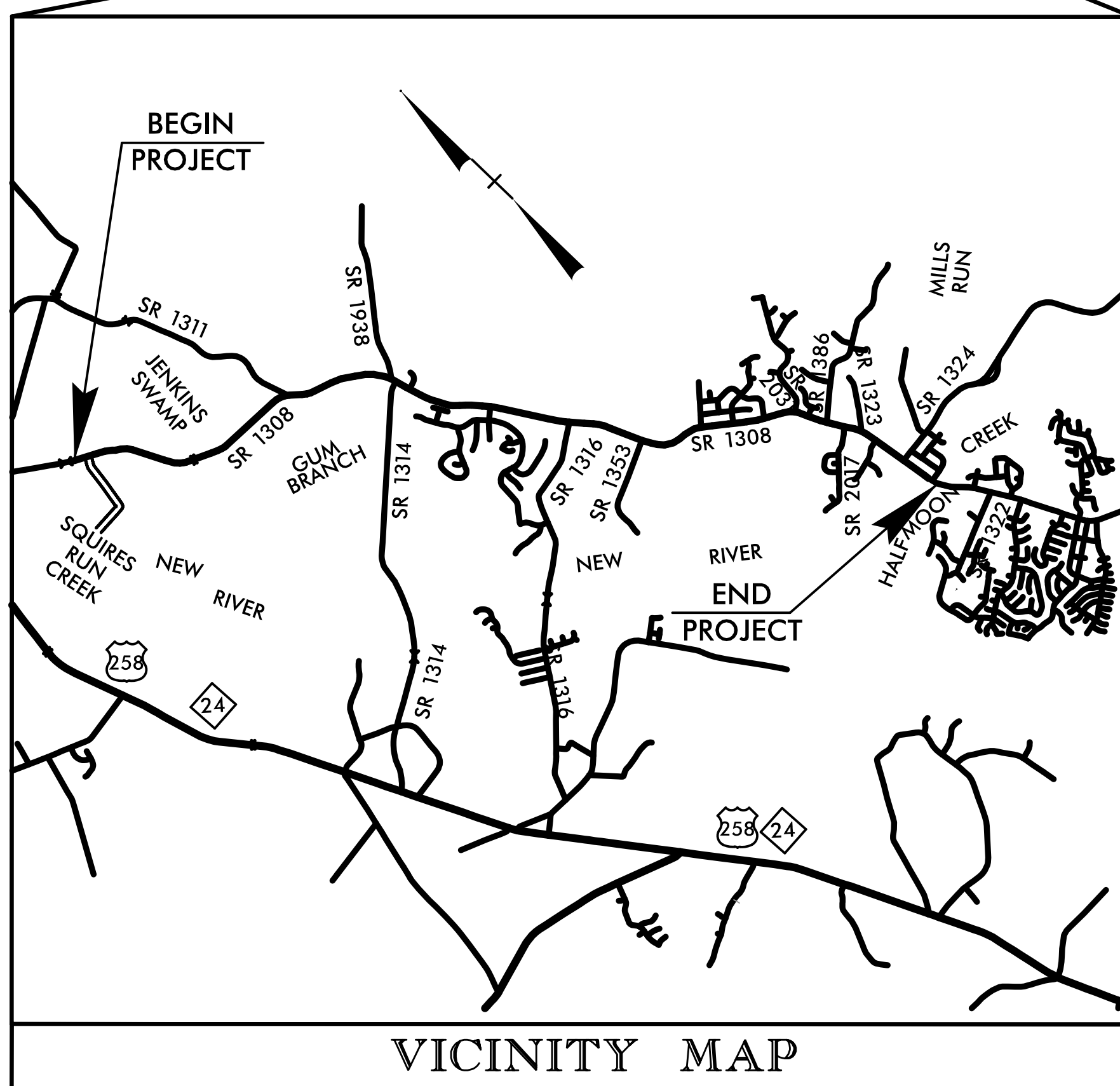
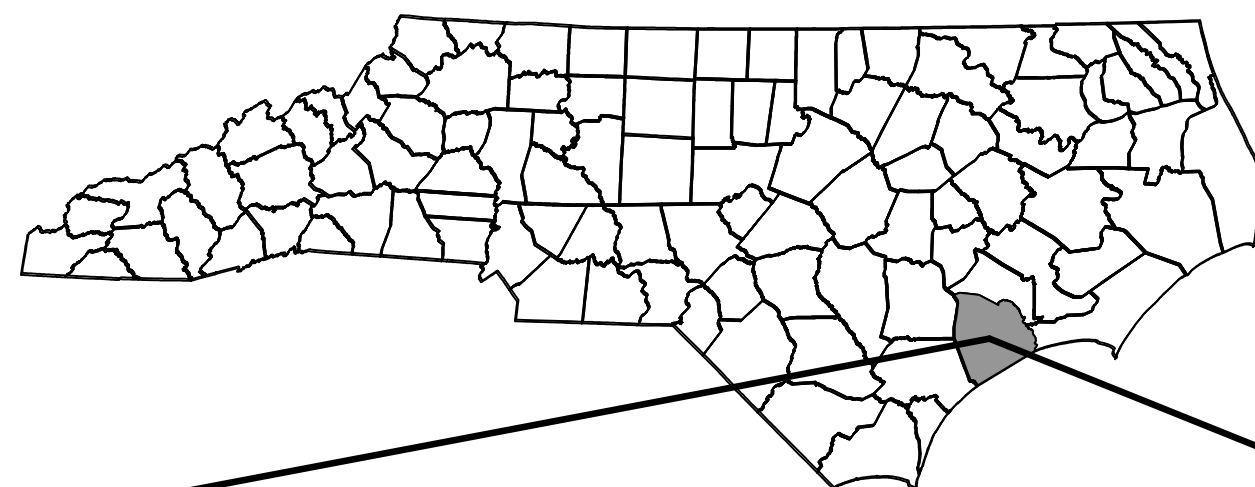
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

ONSLOW COUNTY



LOCATION: GUM BRANCH ROAD (SR 1308) – WIDENING FROM THE WEST OF MILLS FIELDS RD (SR 1313) TO EAST OF RAMSEY ROAD (SR 1324)
TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND SIGNALS

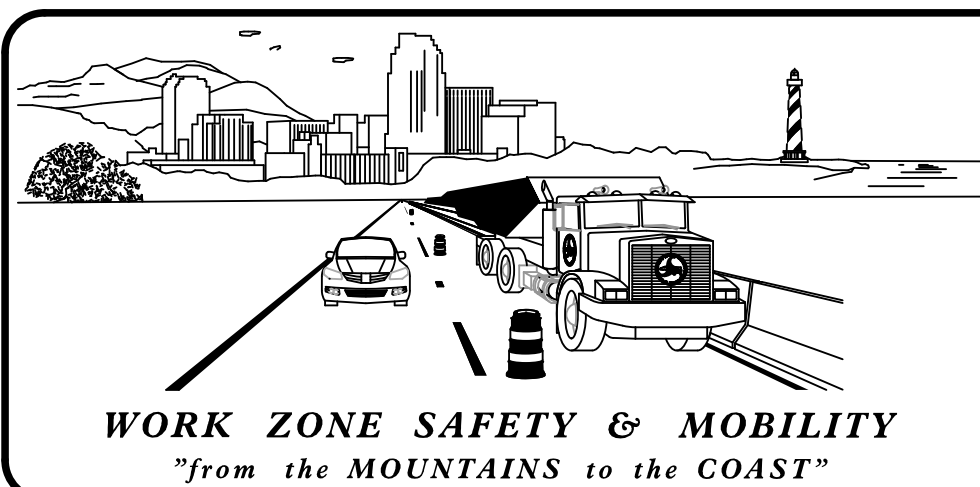
INDEX OF SHEETS	
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, VICINITY MAP AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B AND 1C	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES AND GENERAL NOTES)
TMP-2	OFFSITE DETOUR (GUM BRANCH RD)
TMP-2A	ROCK CREEK RD ROAD CLOSURE DETAIL
TMP-2B	OFFSITE DETOUR (COW HORN RD)
TMP-3	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4 THRU 9A	TEMPORARY TRAFFIC CONTROL PHASE I DETAILS
TMP-10 AND 11	TEMPORARY TRAFFIC CONTROL PHASE II DETAILS

SHEET NO.
TMP-1

U-4906

TIP PROJECT:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



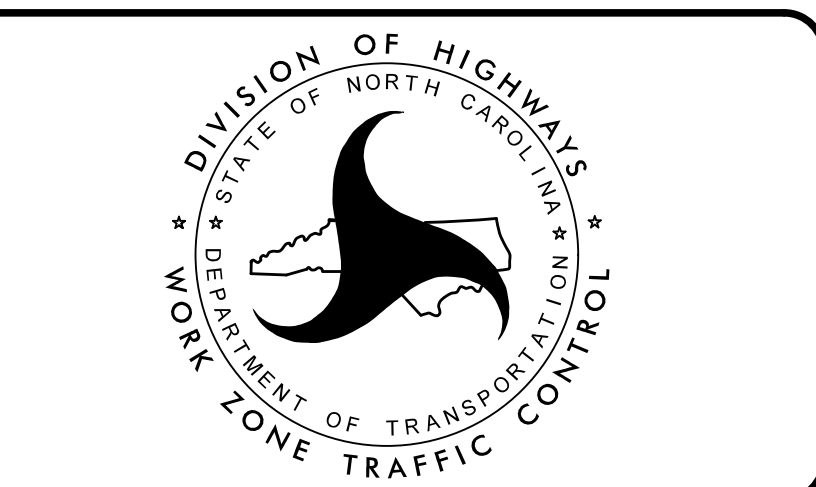
PLANS PREPARED BY:

H. SHYU, P.E.
PROJECT ENGINEER

R. B. EARLY, P.E.
PROJECT QC ENGINEER

NCDOT CONTACTS:

JESSI LEONARD, P.E.
DIVISION TRAFFIC ENGINEER



HNTB

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

APPROVED: *Helen Shyu*
DATE: 8/17/2021

SEAL

5/14/24 PM
\\TCPU4906-tc-tmp_01\title.dgn
8/17/2021

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - CONTRACT STANDARDS AND DEVELOPMENT UNIT - 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:

<u>STD. NO.</u>	<u>TITLE</u>
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGERS
1165.01	TRUCK MOUNTED ATTENUATOR
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

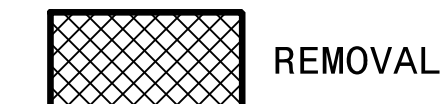
LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF PEDESTRIAN TRAFFIC FLOW
- EXIST. PVMT.
- NORTH ARROW
- PROPOSED PVMT.



WORK AREA



REMOVAL



WEDGE / WIDEN



TEMPORARY PAVEMENT

SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)
- CONE
- DRUM SKINNY DRUM
- TEMPORARY CRASH CUSHION
- FLASHING ARROW BOARD
- FLAGGER
- LAW ENFORCEMENT
- TRUCK MOUNTED ATTENUATOR (TMA)
- CHANGEABLE MESSAGE SIGN
- PORTABLE CONCRETE BARRIER

TEMPORARY SIGNING

- PORTABLE SIGN
- STATIONARY SIGN
- STATIONARY OR PORTABLE SIGN

PAVEMENT MARKERS

- CRYSTAL / CRYSTAL
- CRYSTAL / RED
- YELLOW / YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

TEMPORARY PAVEMENT MARKING

- PAINT (24")
P2- WHITE STOP BARS
- PAINT (12")
P14- 3FT. -9 FT./SP WHITE MINISKIP
PV- YELLOW DIAGONAL
- PAINT (8")
PN- WHITE GORELINE
- PAINT (4")
P8- 2 FT. -6 FT./SP WHITE MINISKIP
PA- WHITE EDGELINE
PD- 3 FT. -9 FT./SP WHITE MINISKIP
PE- WHITE SOLID LANE LINE
PF- 10 FT YELLOW SKIP
PH- YELLOW SINGLE CENTER
PI- YELLOW DOUBLE CENTER

- PAVEMENT MARKING SYMBOLS & CHARACTERS
- QA LEFT TURN ARROW
- QB RIGHT TURN ARROW
- QC STRAIGHT ARROW
- QE COMBO STRAIGHT/RIGHT

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8/17/2021

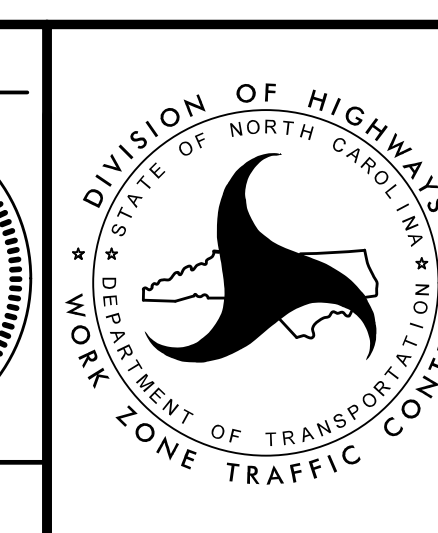
HNTB HNTB NORTH CAROLINA, P.C.
343 E. SIX FORKS ROAD, SUITE 200
RALEIGH, NORTH CAROLINA 27609
NC License No: C-1554

DocuSigned by:
APPROVED: *Helen Shyu*
DATE: 8/17/2021

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NORTH CAROLINA
PROFESSIONAL
SEAL
042517
ENGINEER
HELEN SHYU

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TRANSPORTATION
MANAGEMENT PLAN

**ROADWAY STANDARD
DRAWINGS & LEGEND**

GENERAL NOTES

TRAFFIC CONTROL DEVICES

- R) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- S) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

- T) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

<u>ROAD NAME</u>	<u>MARKING</u>	<u>MARKER</u>
ANY ROAD	PAINT	TEMPORARY RAISED

- U) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- V) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- W) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

MISCELLANEOUS

- X) LAW ENFORCEMENT MAY BE USED TO MAINTAIN TRAFFIC THROUGH THE WORK AREA AND/OR INTERSECTIONS AS DIRECTED BY THE ENGINEER.

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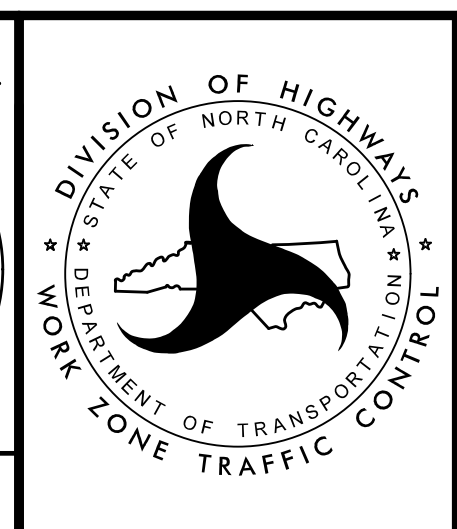


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190255 signed by: Helen Shyu 0F19075A85E44EF

DATE: 8/17/2021

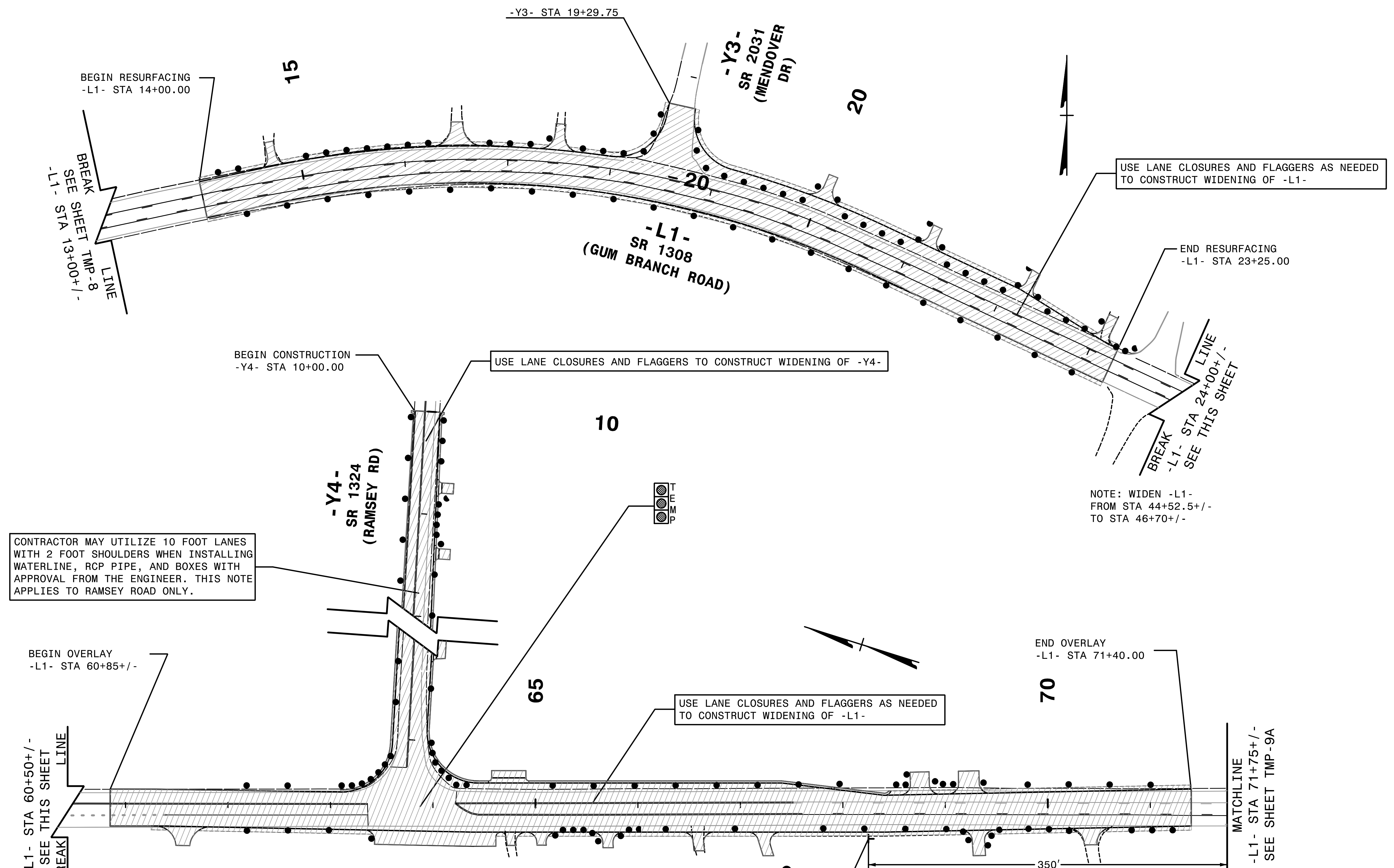
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TRANSPORTATION
 MANAGEMENT PLAN

 TRANSPORTATION
 OPERATIONS
 PLAN

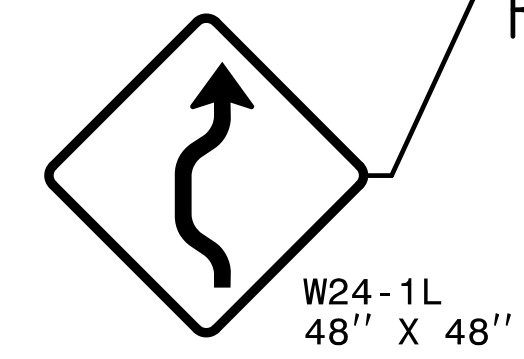


CONTRACTOR MAY UTILIZE 10 FOOT LANES WITH 2 FOOT SHOULDERS WHEN INSTALLING WATERLINE, RCP PIPE, AND BOXES WITH APPROVAL FROM THE ENGINEER. THIS NOTE APPLIES TO RAMSEY ROAD ONLY.

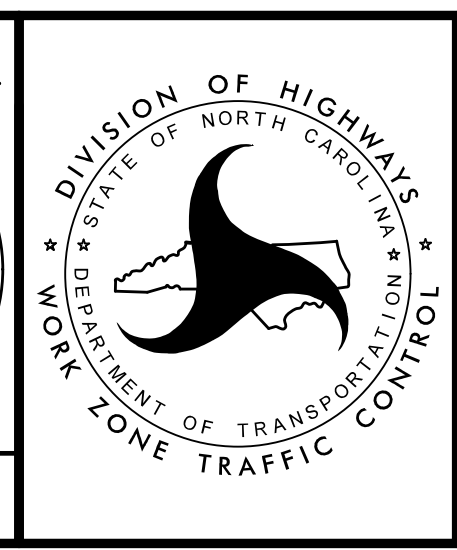
NOTE: WIDEN -L1- FROM STA 44+52.5+/- TO STA 46+70+/-

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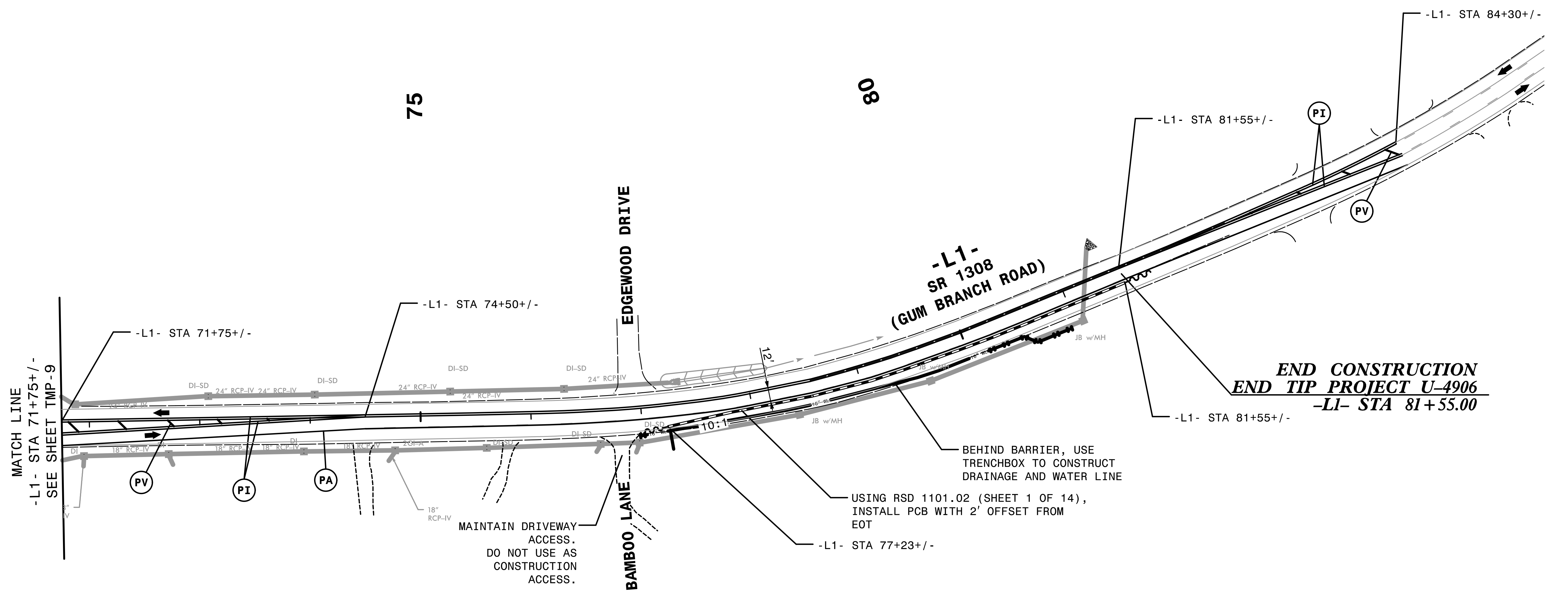


APPROVED: *Helen Shyu*
 DATE: 8/17/2021
 SEAL
 NORTH CAROLINA PROFESSIONAL SEAL 042517
 ENGINEER HELEN SHYU



TRANSPORTATION MANAGEMENT PLAN
 PHASE I
 DETAIL

10:04:41 AM
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MATCH LINE
-L1- STA 71+75+/-
SEE SHEET TMP-9

DRAINAGE AND UTILITY INFORMATION SHOWN ON THIS SHEET IS NOT FOR CONSTRUCTION. CONTRACTOR SHOULD REFER TO ROADWAY AND UTILITY PLANS FOR DETAILS.

MAINTAIN DRIVEWAY ACCESS.
DO NOT USE AS CONSTRUCTION ACCESS.

BEHIND BARRIER, USE TRENCHBOX TO CONSTRUCT DRAINAGE AND WATER LINE

USING RSD 1101.02 (SHEET 1 OF 14), INSTALL PCB WITH 2' OFFSET FROM EOT

END CONSTRUCTION
END TIP PROJECT U-4906
-L1- STA 81+55.00

10:04:45 AM
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TRANSPORTATION
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PHASE I
DETAIL