

09/06/99

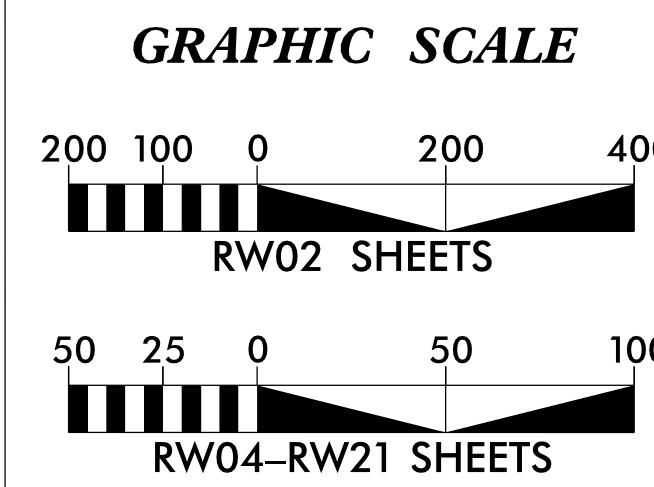
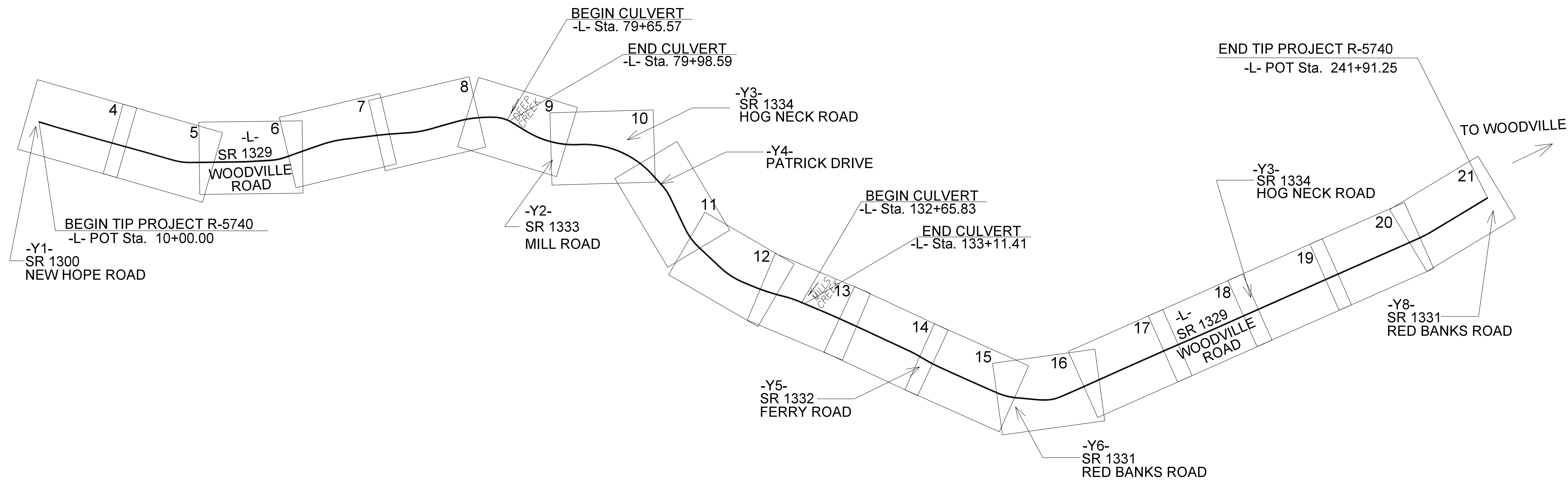
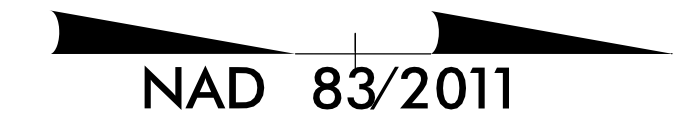
TIP PROJECT: R-5740

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5740	RW01	30

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

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

**PERQUIMANS COUNTY**

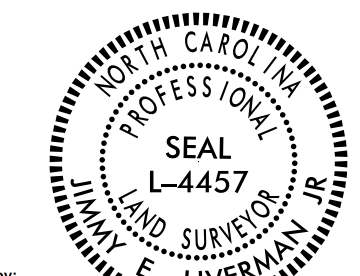


**DATUM DESCRIPTION**  
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY JMT INC. FOR MONUMENT "R-5716 CENTROID" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 907799.5148(ft) EASTING: 2780294.6280(ft) PROJECT ELEVATION IS BASED ON USGS MONUMENT "39 MEA" WITH NAVD 88 ORTHO HEIGHT OF ELEVATION: 7.68(FT). THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.000019305  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R-5716 CENTROID" TO -L- STATION 10+00.00 IS S 28°46'50.08" E 24,510.63(ft)  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88

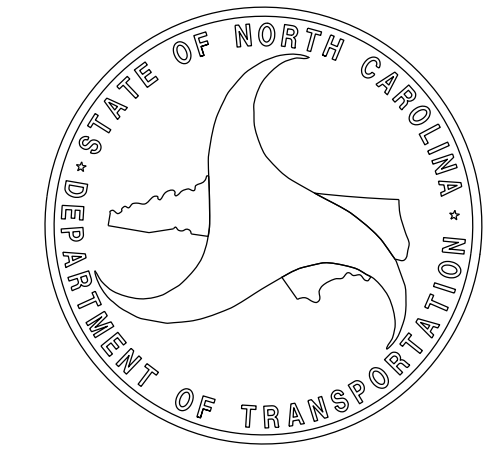
Prepared in the Office of:  
 LOCATION & SURVEYS  
 DIVISION 1 FIELD OFFICE  
 1300 US HWY 64W  
 PLYMOUTH, NC 27962

2018 STANDARD SPECIFICATIONS  
**RIGHT OF WAY DATE:** JULY 2017  
**LETTING DATE:** MARCH 17, 2020

PROFESSIONAL LAND SURVEYOR



DocuSigned by:  
 Jimmy Liverman, Jr.  
 SIGNATURE: \_\_\_\_\_ Date: 2/6/2020



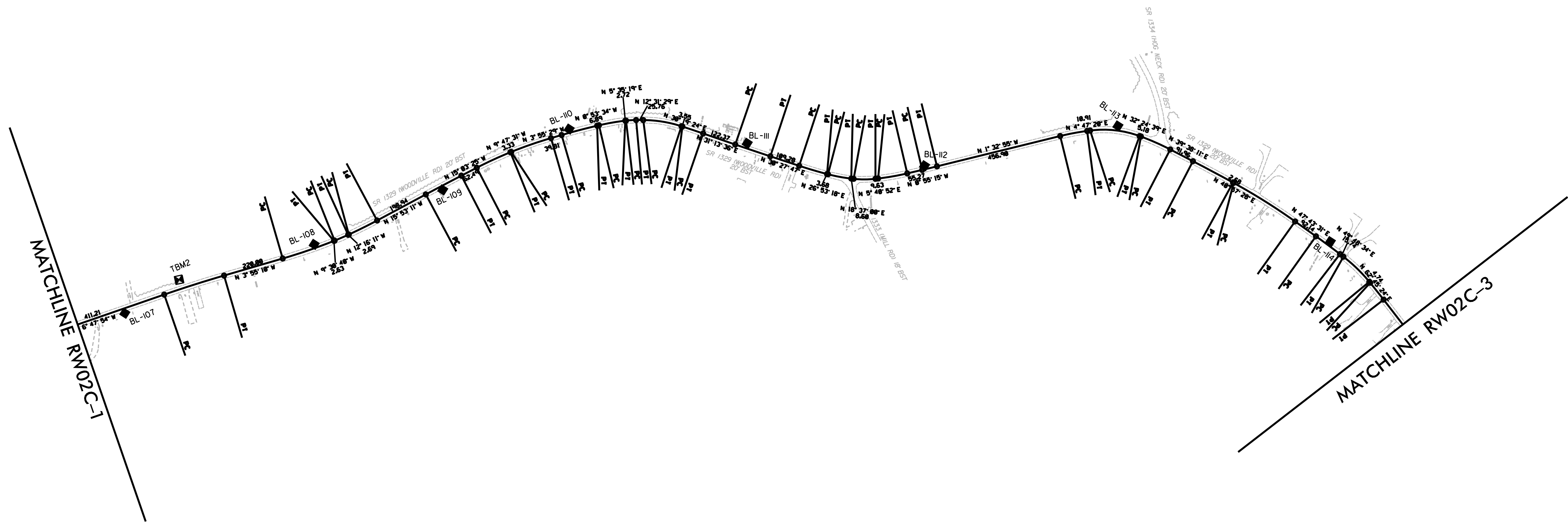
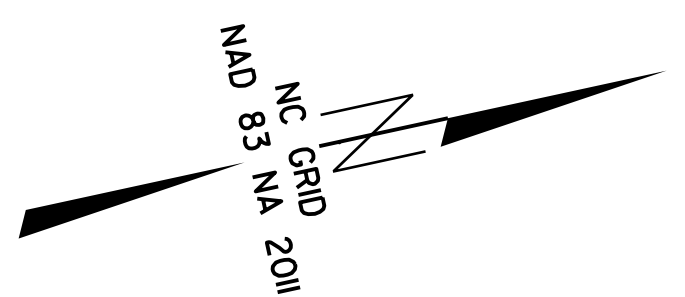
\$\$\$\$\$ SYSTEM TIME\$\$\$\$\$  
 \$\$\$ DDMMYY \$\$\$  
 \$\$\$ USERNAME \$\$\$



PROJECT REFERENCE NO.	SHEET NO.
R-5740x	RW02C-2
Location and Surveys	
INSERT CONSULTANT'S NAME	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-7  
FOR FURTHER  
ALIGNMENT DETAILS

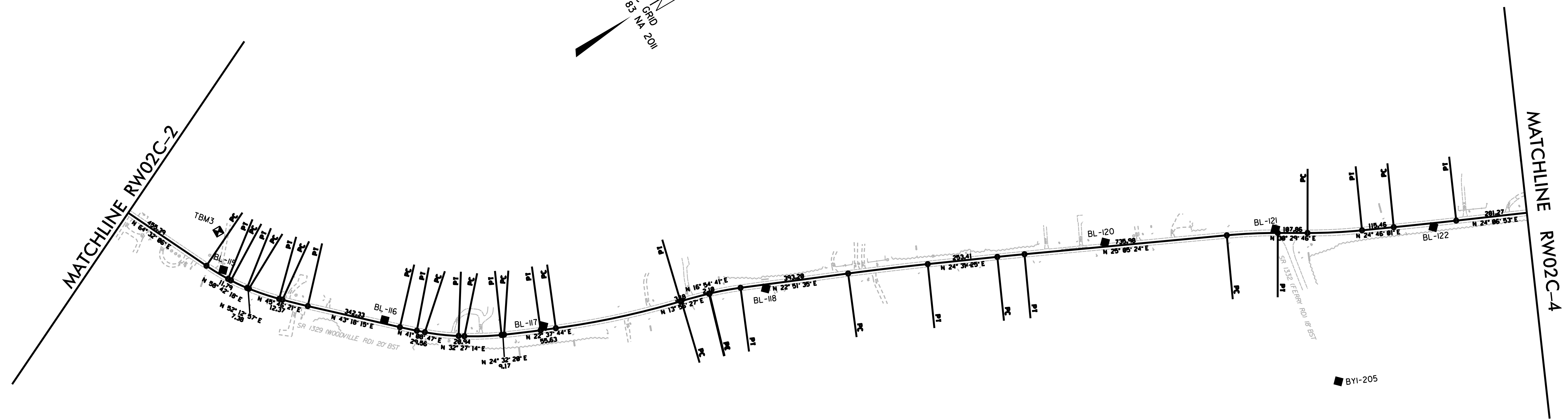
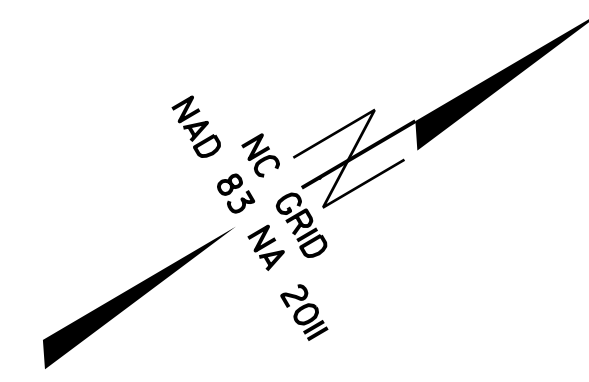
**NOTES:**

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.

PROJECT REFERENCE NO.	SHEET NO.
R-5740	RW02C-3
Location and Surveys	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-7  
FOR FURTHER  
ALIGNMENT DETAILS

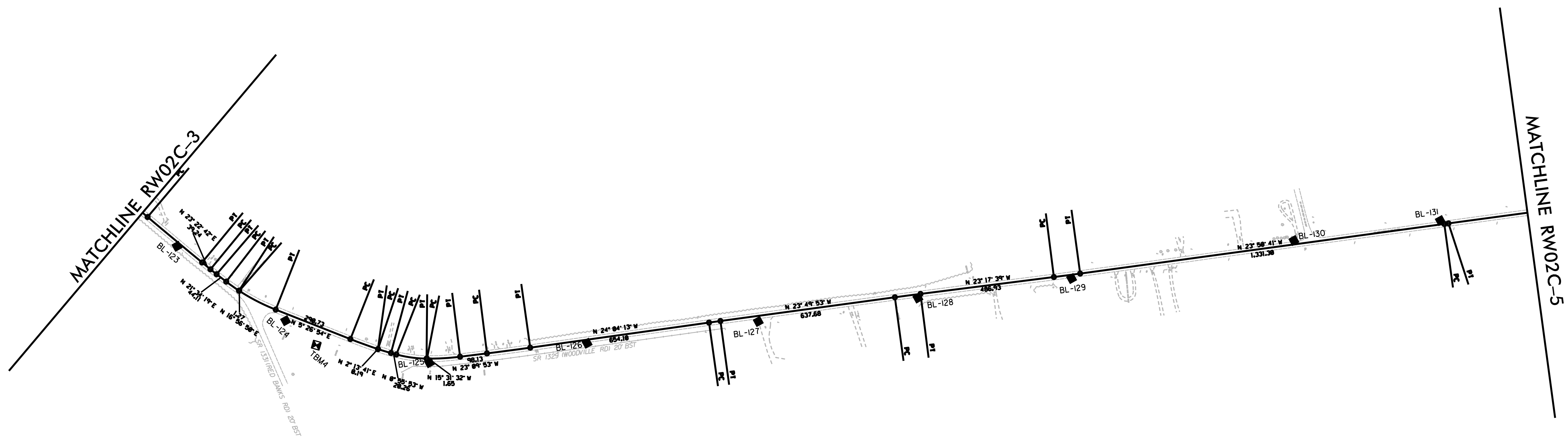
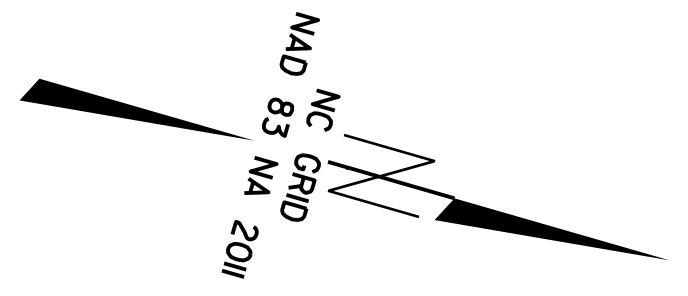
**NOTES:**

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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.

PROJECT REFERENCE NO.	SHEET NO.
R-5740	RW02C-4
Location and Surveys	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-7  
FOR FURTHER  
ALIGNMENT DETAILS

**NOTES:**

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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.

REVISIONS

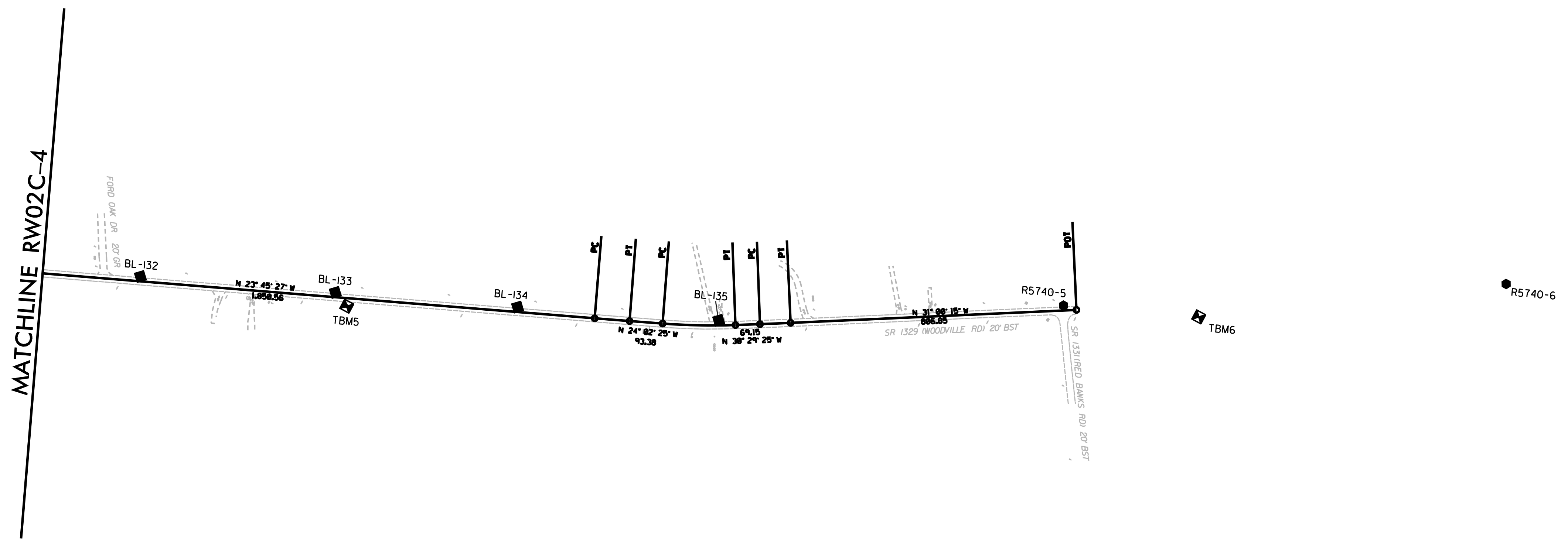
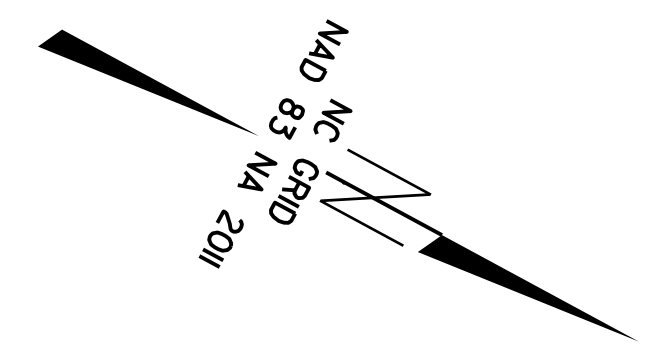
6/2/09

I6-DEC-2018 08:41  
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Lsdowns AT LS-311565

PROJECT REFERENCE NO.	SHEET NO.
R-5740	RW02C-5
Location and Surveys	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-7  
FOR FURTHER  
ALIGNMENT DETAILS

**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.



PROJECT REFERENCE NO.	SHEET NO.
R-5740	RW02C-6
Location and Surveys	

# SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
2		R5740-2	886293.7880	2792085.9920	7.92
100		BL-100	887029.4250	2792291.5290	7.02
101		BL-101	887615.1870	2792455.9790	5.51
102		BL-102	888093.0010	2792592.7070	5.06
103		BL-103	888779.7430	2792672.0680	7.84
104		BL-104	889267.2140	2792694.8100	8.62
105		BL-105	889784.2430	2792628.0000	8.56
106		BL-106	890402.7900	2792424.4160	7.73
107		BL-107	891062.3630	2792335.5510	7.31
108		BL-108	891781.3300	2792238.4150	7.81
109		BL-109	892275.4420	2792144.9900	8.62
110		BL-110	892766.8080	2792028.0710	9.63
111		BL-111	893382.5980	2792214.1980	5.64
112		BL-112	893989.3840	2792428.7340	8.84
113		BL-113	894700.3810	2792436.8610	9.72
114		BL-114	895359.3720	2793006.2700	9.25
115		BL-115	895742.8830	2793705.8980	9.29
116		BL-116	896154.9840	2794158.7010	8.66
117		BL-117	896639.8040	2794468.8130	7.60
118		BL-118	897403.7140	2794759.4390	5.06
119		BL-119	898067.7810	2795047.1570	9.07
120		BL-120	898547.7260	2795238.0950	9.62
121		BL-121	899104.1150	2795509.1800	10.89
122		BL-122	899601.4820	2795792.5140	10.35
123		BL-123	900073.1100	2796001.6550	10.61
124		BL-124	900525.8920	2796151.7390	10.29
125		BL-125	901068.6430	2796153.9530	10.36
126		BL-126	901597.9810	2795927.7010	9.82
127		BL-127	902172.0090	2795690.3330	10.03
128		BL-128	902704.1290	2795438.4220	10.11
129		BL-129	903219.4930	2795216.2970	9.45
130		BL-130	903955.0180	2794860.9290	9.71
131		BL-131	904444.6670	2794644.5630	9.01
132		BL-132	904986.8600	2794406.4780	9.01
133		BL-133	905491.6720	2794184.4750	9.32
134		BL-134	905963.3910	2793976.3160	9.27
135		BL-135	906480.0000	2793739.2740	9.08
5		R5740-5	907315.4660	2793240.1490	8.17
6		R5740-6	908384.3250	2792592.8000	7.58

REVISIONS

.....  
TBM1 ELEVATION • 7.68  
N 886290 E 2792073  
USGS39MEA  
.....  
TBM2 ELEVATION • 9.95  
N 891279 E 2792259  
NAIL IN 22° PINE  
.....  
TBM3 ELEVATION • 10.75  
N 895798 E 2793577  
NAIL IN 18° OAK  
.....

.....  
TBM4 ELEVATION • 12.00  
N 900657 E 2796206  
NAIL IN 24° SWEETGUM  
.....  
TBM5 ELEVATION • 9.93  
N 905539 E 2794203  
NAIL IN POLE  
.....  
TBM6 ELEVATION • 8.08  
N 907672 E 2793090  
NAIL IN POLE  
.....

### NOTES:

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

PROJECT REFERENCE NO.	SHEET NO.
R-5740	RW02D-1
Location and Surveys	

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POINT	886316.683	2792854.334	N 17°08'32.9" E	223.68					
LINE	886538.514	2792168.811	N 16°31'32.2" E	115.59	88°57'38.7" (L)	88°49'19.3"	115.59	57.88	6378.88
POINT	886641.328	2792193.638	N 16°03'01.9" E	552.12					
LINE	887171.923	2792466.342	N 16°47'44.2" E	88.98	88°38'35.4" (L)	88°34'22.6"	88.98	44.49	18888.88
LINE	887257.544	2792378.563	N 15°32'26.9" E	572.68					
LINE	887889.289	2792423.958	N 15°58'28.3" E	184.98	88°36'03.7" (R)	88°34'22.6"	184.98	52.45	18888.88
LINE	887918.282	2792552.632	N 16°08'38.2" E	363.99					
LINE	888293.845	2792653.827	N 07°45'04.9" E	282.65	16°46'58.5" (L)	86°21'58.3"	283.99	132.75	988.88
LINE	888528.895	2792689.251	N 88°38'28.4" W	781.53					
LINE	889221.585	2792681.428	N 81°54'58.9" W	178.81	82°33'08.2" (L)	81°25'56.6"	178.81	89.83	4888.88
LINE	889395.498	2792675.482	N 83°11'28.9" W	289.32					
LINE	889568.399	2792668.588	N 11°41'46.6" W	281.49	17°08'52.2" (L)	88°44'26.4"	282.42	127.14	888.88
LINE	889914.666	2792669.517	N 28°12'12.7" W	67.84					
LINE	889978.333	2792686.888	N 19°41'21.4" W	89.75	81°01'42.6" (R)	81°08'45.3"	89.75	44.88	5888.88
LINE	890862.837	2792655.819	N 19°08'38.1" W	363.35					
LINE	890486.831	2792436.583	N 12°59'11.9" W	365.51	12°22'36.5" (R)	83°22'13.2"	367.23	184.33	1788.88
LINE	890763.178	2792454.133	N 05°47'53.7" W	442.78					
LINE	891282.838	2792381.726	N 05°21'32.8" W	251.13	82°52'44.3" (R)	81°08'45.3"	251.21	125.63	5888.88
LINE	891452.928	2792278.266	N 03°55'18.3" W	231.47					
LINE	891683.853	2792282.444	N 89°54'18.8" W	333.67	11°58'08.7" (L)	83°34'51.6"	334.17	167.78	1688.88
LINE	892012.451	2792285.878	N 15°52'18.6" W	287.89					
LINE	892212.482	2792188.172	N 15°28'18.8" W	144.72	88°49'45.1" (R)	88°34'22.6"	144.72	72.36	18888.88
LINE	892351.879	2792189.566	N 15°03'25.9" W	68.28					
LINE	892418.889	2792093.928	N 11°16'38.8" W	197.89	87°33'51.8" (R)	83°49'11.8"	198.83	99.16	1588.88
LINE	892684.875	2792055.238	N 02°43'04.3" W	332.98	83°33'08.5" (R)	82°01'53.2"	333.36	167.87	2888.88
LINE	892938.677	2792039.448	N 16°38'38.8" E	251.81	23°18'09.7" (R)	11°27'33.8"	254.55	138.18	588.88
LINE	893177.518	2792111.554	N 31°13'35.7" E	268.95					
LINE	893481.884	2792246.847	N 14°04'53.9" E	784.15	34°17'24.4" (L)	84°18'28.6"	795.97	418.31	1338.88
LINE	893616.851	2792287.898	N 22°19'51.1" E	1148.73	58°47'19.7" (R)	84°18'28.6"	1178.95	631.37	1338.88
LINE	89381.854	2792093.686	N 56°07'48.7" E	222.18	16°48'36.4" (R)	87°32'28.1"	222.97	112.29	758.88
LINE	894484.884	2792214.168	N 64°32'06.4" E	485.82					
LINE	894563.768	2793852.784	N 53°55'18.9" E	358.81	21°13'51.7" (L)	85°01'52.1"	362.82	178.85	958.88
LINE	894893.897	2793335.662	N 42°1814.7" E	421.97					
LINE	894826.972	2794225.876	N 32°57'39.4" E	481.96	28°48'38.6" (L)	85°06'56.5"	484.15	284.38	1128.88
LINE	894844.214	2794443.883	N 22°37'44.1" E	145.73					
LINE	894878.729	2794499.876	N 18°11'08.2" E	465.87	88°53'27.6" (L)	81°54'35.5"	465.54	233.24	3888.88
LINE	897128.572	2794645.884	N 18°17'55.8" E	238.56	89°07'19.1" (R)	83°49'11.8"	238.81	119.66	1588.88
LINE	897347.869	2794719.986	N 22°51'35.4" E	378.51					
LINE	897588.478	2794863.841	N 23°41'38.1" E	298.37	81°39'49.9" (R)	88°34'22.6"	298.38	145.28	18888.88
LINE	897942.374	2794988.515	N 24°31'24.9" E	283.98					
LINE	898129.952	2795065.188	N 24°48'24.4" E	197.72	88°33'59.1" (R)	88°17'11.9"	197.72	98.86	28888.88
LINE	898319.427	2795148.135	N 25°09'24.8" E	688.55					
LINE	898411.98	2795439.268	N 27°47'34.9" E	184.86	88°24'21.8" (R)	82°55'23.7"	184.93	92.54	1988.88
LINE	899184.734	2795425.459	N 38°29'45.8" E	187.78					
LINE	899197.532	2795686.112	N 27°37'53.9" E	197.98	88°49'44.7" (L)	82°53'37.4"	197.98	99.87	1988.88
LINE	899372.881	2795671.895	N 24°46'01.1" E	116.28					
LINE	899477.546	2795728.193	N 24°06'53.4" E	313.41					
LINE	899684.784	2795814.379	N 23°44'47.6" E	192.83	88°39'07.7" (L)	88°17'11.9"	227.64	113.82	28888.88
LINE	899978.846	2795942.429	N 23°44'47.6" E	192.83	88°44'11.7" (L)	88°22'55.1"	192.84	96.42	15888.88
LINE	900147.954	2796028.882	N 23°22'41.7" E	97.87					
LINE	900236.499	2796085.681	N 14°24'47.9" E	284.91	17°55'47.7" (L)	85°44'26.4"	285.88	134.89	858.88
LINE	900493.833	2796124.542	N 05°25'54.8" E	283.87					
LINE	900775.618	2796151.494	N 02°21'08.3" E	195.17	88°58'47.6" (L)	83°49'11.8"	195.24	77.69	1588.88
LINE	900938.547	2796158.218	N 11°49'23.8" W	216.32	22°48'59.8" (L)	88°25'02.7"	217.74	118.32	958.88
LINE	901142.381	2796113.896	N 23°09'32.6" W	127.62					
LINE	901295.711	2796063.694	N 23°37'32.8" W	158.87	88°54'38.5" (L)	88°34'22.6"	158.87	79.84	18888.88
LINE	901484.543	2796088.366	N 24°04'13.1" W	633.24					
LINE	901582.723	2796742.893	N 23°57'32.9" W	83.42	88°14'28.4" (R)	88°17'11.9"	83.42	41.71	28888.88
LINE	902058.964	2796785.227	N 23°49'32.7" W	569.96					
LINE	902588.327	2796477.938	N 23°37'46.1" W	187.45	88°32'13.2" (R)	88°17'11.9"	187.45	93.73	28888.88
LINE	902792.149	2796483.884	N 23°17'35.9" W	892.84					
LINE	903112.234	2796247.989	N 23°34'18.8" W	192.18	88°33'01.9" (L)	88°17'11.9"	192.18	96.09	28888.88
LINE	903288.385	2796171.157	N 23°58'28.5" W	1282.83					
LINE	904424.199	2794664.692	N 22°48'03.6" W	76.12	88°05'14.8" (R)	88°06'52.5"	76.12	38.06	58888.88
LINE	904583.843	2794633.973	N 22°45'26.6" W	1828.12					
LINE	906165.721	2793988.713	N 23°53'55.7" W	98.74	88°16'58.9" (L)	88°17'11.9"	98.74	49.37	28888.88
LINE	906299.992	2793886.713	N 24°02'24.9" W	98.58					
LINE	906342.642	2793823.845	N 22°31'19.8" W	242.94	86°57'49.9" (L)	82°51'53.2"	243.88	121.69	2888.88
LINE	906558.885	2793711.587	N 31°08'14.8" W	1835.27					
LINE	907454.828	2793173.167							

Y1

POINT	N	E	BEARING	DIST
POINT	886316.683	2792854.334	N 17°08'32.9" E	223.68
LINE	886538.514	2792168.811	N 16°31'32.2" E	115.59
POINT	886641.328	2792193.638	N 16°03'01.9" E	552.12

Y2

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POINT	893726.788	2792388.887	N 74°07'29.9" E	25.15					
LINE	893719.988	2792412.997	N 89°55'09.6" E	54.98	31°54'41.8" (L)	97°17'44.8"	55.78	28.59	188.88
LINE	893719.977	2792467.976	N 74°57'49.1" E	198.27					
POINT	893774.758	2792858.534							

Y3

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POINT	894838.669	2792215.112	N 88°57'38.5" E	358.89	32°33'41.8" (R)	89°18'31.2"	354.89	182.36	624.49
LINE	894837.833	2792565.148	N 74°42'43.6" E	14.37					
POINT	894833.295	2792579.816							

Y4

POINT	N	E	BEARING	DIST
POINT	895244.819	2792811.817	N 42°18'29.8" E	63.83
LINE	895237.589	2792864.795		

Y5

POINT	N	E	BEARING	DIST
POINT	899128.366	2795534.665	N 81°39'24.8" E	288.81
LINE	899131.345	2795732.557		

Y6

POINT	N	E	BEARING	DIST
POINT	900381.384	2795811.428	N 59°09'26.5" E	288.85
LINE	900498.241	2796295.499		

Y7

POINT	N	E	BEARING	DIST
POINT	903912.457	2794677.287	N 59°38'39.3" E	288.75
LINE	904014.311	2794858.275		

Y8

POINT	N	E	BEARING	DIST
POINT	907321.842	2793253.881	N 59°48'39.8" E	288.88
LINE	907433.815	2793418.288		

**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 INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

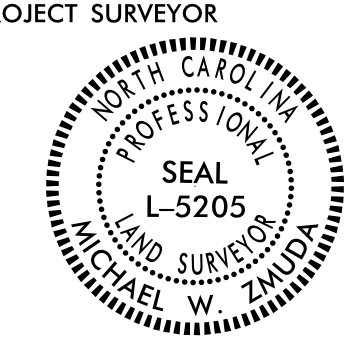
REVISIONS

6/2/09

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# RIGHT OF WAY CONTROL SHEET

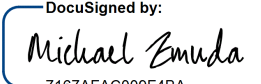
PROJECT REFERENCE NO. R-5740	SHEET NO. RW03E-1
<b>Location and Surveys</b>	
JOHNSON, MIRAMIRAN & THOMPSON 1130 SITUS COURT, SUITE 200 RALEIGH, NC 27606	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, R/W STAKING, PERFORMED UNDER MY RESPONSIBLE CHARGE MEETS NCDOT SURVEY STANDARDS AS DIRECTED IN THE NCDOT LOCATION AND SURVEY GUIDELINES AND PROCEDURES.

I FURTHER CERTIFY THAT THE DATA COMPILED CAME FROM AVAILABLE SURVEYS/MAPPING PERFORMED BY OTHERS AND PROVIDED TO ME BY THE 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 DEPICED 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 DEPICED 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 5TH OF FEBRUARY 2020

DocuSigned by:  
  
MICHAEL W. ZMUDA, PLS #L-5205  
SENIOR ASSOCIATE


ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	10+19.74	39.00	886324.1551	2792138.5005
L	10+34.00	30.00	886340.4256	2792134.0639
L	10+39.87	-30.00	886363.5819	2792078.4020
L	12+23.60	30.00	886521.7424	2792189.5004
L	12+23.63	-30.00	886539.3084	2792132.1294
L	13+39.17	30.00	886633.0098	2792222.5136
L	13+39.17	-30.00	886649.5989	2792164.8525
L	14+07.00	-30.00	886714.7871	2792183.6072
L	16+15.00	-30.00	886914.6789	2792241.1160
L	17+74.00	-30.00	887067.4808	2792285.0771
L	18+56.00	-30.00	887146.2843	2792307.7488
L	18+91.31	-30.00	887180.2178	2792317.5115
L	18+91.31	30.00	887163.6287	2792375.1726
L	19+80.29	-30.00	887265.5812	2792341.6598
L	19+80.29	30.00	887249.5058	2792399.4663
L	20+93.00	30.00	887358.0947	2792429.6637
L	21+78.00	-30.00	887456.0625	2792394.6307
L	24+87.00	-30.00	887753.7656	2792477.4188
L	25+52.97	-30.00	887817.3267	2792495.0945
L	25+52.97	30.00	887801.2513	2792552.9009
L	26+57.87	30.00	887901.8614	2792581.4489
L	26+57.87	-30.00	887918.5422	2792523.8142
L	26+81.00	30.00	887924.0794	2792587.8793
L	28+89.00	-30.00	888140.5603	2792588.0716
L	29+37.00	30.00	888169.9871	2792659.0509
L	30+21.86	-30.00	888268.1854	2792625.0094
L	30+21.86	30.00	888251.5046	2792682.6440
L	31+67.00	30.00	888398.2981	2792712.5678
L	31+84.05	30.08	888415.7950	2792714.5979
L	32+15.03	29.91	888447.7120	2792717.1235
L	32+16.23	29.89	888448.9547	2792717.1842
L	32+85.45	-30.00	888519.7600	2792659.2533
L	33+09.53	30.00	888544.5031	2792718.9808
L	33+84.00	30.00	888618.9695	2792718.1505
L	35+55.00	-30.00	888789.2897	2792856.2472
L	37+48.00	-30.00	888982.2777	2792654.0948
L	39+86.99	30.00	889221.9191	2792711.4259
L	39+86.99	-30.00	889221.2499	2792651.4296
L	41+65.01	-30.00	889397.8288	2792645.5286
L	41+65.01	30.00	889401.1666	2792705.4357
L	44+34.33	-30.00	889666.7305	2792630.5463
L	44+34.33	30.00	889670.0683	2792690.4534
L	45+53.00	30.00	889791.8589	2792675.0925
L	46+16.56	29.77	889855.8148	2792659.7067
L	46+29.84	29.43	889868.9355	2792655.6084
L	46+86.75	-30.00	889904.3054	2792581.3630
L	47+29.67	30.00	889965.3102	2792622.8470
L	47+54.59	-30.00	889967.9724	2792557.9336
L	47+54.59	30.00	889988.6938	2792614.2419
L	48+44.34	-30.00	890052.9837	2792527.5131
L	48+44.34	30.00	890072.6910	2792584.1843
L	51+44.66	30.00	890356.3428	2792485.5448
L	52+07.70	-30.00	890396.1778	2792408.1679
L	53+13.15	30.75	890514.9263	2792434.5902
L	53+26.16	30.52	890527.1785	2792430.9725
L	54+90.69	30.33	890684.8900	2792396.0832
L	55+25.12	30.66	890718.3301	2792391.0868
L	55+74.92	-30.00	890759.6191	2792324.3501
L	56+19.06	30.00	890810.5465	2792378.7038
L	60+17.70	-30.00	891199.2866	2792271.9366
L	60+30.34	29.98	891218.8641	2792330.0276
L	60+81.00	30.00	891268.9095	2792324.4627
L	62+21.00	30.00	891407.4765	2792311.6795
L	62+56.28	29.98	891442.4447	2792309.0549
L	62+68.92	-30.00	891450.8774	2792248.3364
L	64+76.35	30.00	891661.9261	2792294.0169
L	65+00.38	-30.00	891681.8026	2792232.5144
L	66+71.31	29.63	891858.5966	2792270.8603
L	66+73.89	29.66	891861.1926	2792270.4253
L	67+27.31	29.85	891914.6169	2792260.1467
L	67+29.95	29.84	891917.2494	2792259.5742
L	68+34.56	-30.00	892004.2388	2792176.2234
L	68+43.51	30.00	892029.2698	2792231.4822
L	70+42.45	30.00	892220.6144	2792177.0258
L	70+42.45	-30.00	892204.1906	2792119.3174
L	71+87.17	30.00	892359.6723	2792138.5357
L	71+87.17	-30.00	892344.0854	2792080.5956
L	72+47.37	-30.00	892402.2152	2792064.9577
L	72+49.71	30.00	892420.0178	2792122.3017
L	73+40.00	30.00	892506.1363	2792102.0360

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	74+21.00	30.00	892584.3076	2792088.2919
L	74+45.40	-30.00	892600.1628	2792025.4937
L	75+37.31	30.71	892698.0443	2792075.9464
L	75+77.74	30.95	892737.7606	2792073.2215
L	76+84.00	-30.00	892841.5883	2792008.2931
L	77+06.00	30.00	892863.9463	2792068.1597
L	77+08.00	-35.00	892865.9504	2792003.1597
L	77+78.76	-35.00	892937.9334	2792004.4711
L	77+78.76	30.00	892935.6001	2792069.4292
L	79+50.00	-45.00	893120.0620	2792032.6781
L	79+50.00	-35.00	893116.3678	2792041.9707
L	79+50.09	29.82	893092.5042	2792102.2387
L	80+09.00	33.00	893141.1368	2792128.4883
L	80+33.31	-45.00	893201.2693	2792073.0837
L	80+33.31	33.00	893160.8323	2792139.7834
L	80+33.31	-30.00	893193.4930	2792085.9106
L	82+94.26	33.00	893383.9761	2792275.0656
L	82+94.26	37.00	893381.9024	2792278.4861
L	82+94.26	-30.00	893416.6368	2792221.1928
L	82+94.26	-35.00	893419.2289	2792216.9172
L	84+48.43	37.00	893521.8584	2792352.6071
L	84+60.94	38.39	893533.0100	2792359.1662
L	85+63.21	51.06	893626.3958	2792410.2422
L	85+66.73	51.53	893629.6824	2792411.9087
L	86+01.52	55.63	893662.6346	2792427.4186
L	87+18.35	52.75	893780.5513	2792457.0759
L	87+41.41	50.69	893804.3903	2792460.2294
L	87+50.64	49.67	893813.9691	2792461.1823
L	87+91.50	45.00	893856.4159	2792464.4446
L	90+90.23	-35.00	894159.7969	2792402.6811
L	90+90.23	45.00	894164.0724	2792482.5668
L	90+90.23	40.00	894163.8052	2792477.5739
L	93+01.88	-35.00	894376.7150	2792408.3438
L	94+08.83	-54.31	894488.8490	2792405.3122
L	95+03.71	-73.81	894590.1327	2792408.1769
L	95+13.88	-75.74	894601.0040	2792409.0877
L	96+93.77	-77.27	894781.1808	2792469.7231
L	96+97.98	-76.54	894784.9914	2792472.1424
L	98+28.90	-54.91	894899.0374	2792551.6314
L	98+97.52	-43.13	894954.5747	2792597.6352
L	99+19.77	-40.09	894972.3765	2792612.4300
L	99+20.40	-43.03	894974.5121	2792610.3047
L	99+97.40	-35.00	895035.3949	2792661.6553
L	101+52.00	40.00	895107.1908	2792817.3378
L	102+69.19	-35.00	895242.7488	2792847.5137
L	102+69.19	-29.43	895238.6275	2792851.2604
L	103+19.73	30.00	895228.6553	2792928.6390
L	103+19.73	-30.00	895273.0510	2792888.2778
L	103+45.00	-35.00	895293.7468	2792903.6095
L	104+11.87	30.00	895290.6358	2792996.8151
L	104+83.57	-35.00	895386.9619	2793006.1424
L	105+19.89	31.11	895360.8570	2793076.9359
L	105+36.30	30.76	895371.0168	2793088.9623
L	106+64.48	30.22	895439.2335	2793191.1834
L	106+69.42	30.32	895441.4042	2793195.3993
L	106+86.00	-35.00	895506.9825	2793179.8349
L	107+47.57	-30.00	895529.6085	2793238.2997
L	107+47.57	30.00	895475.4376	2793264.0972
L	111+47.00	30.00	895647.1758	2793624.7225
L	111+92.37	30.00	895666.6821	2793665.6829
L	112+03.31	-29.94	895725.4076	2793649.4493
L	112+11.71	-29.85	895728.9418	2793656.7821
L	112+70.00	-30.00	895755.9133	2793706.3666
L	114+32.00	30.00	895799.8433	2793873.1734
L	114+93.95	28.78	895843.3025	2793919.9774
L	115+05.96	28.74	895851.9330	2793928.8439
L	115+44.39	-30.00	895920.4736	2793913.8303
L	116+00.62	30.00	895920.2423	2793996.0612
L	119+42.96	30.00	896169.3662	2794230.8571
L	119+66.36	-30.00	896227.5479	2794203.2438
L	120+05.67	29.51	896216.5782	2794273.7042
L	120+34.47	29.81	896238.8377	2794293.1541
L	121+10.00	-30.00	896335.1416	2794292.3477
L	121+57.75	-29.82	896373.2245	2794318.9724
L	121+58.83	30.17	896341.0272	2794369.6018
L	121+79.22	30.00	896358.7010	2794380.8413
L	121+79.26	-30.00	896390.8983	2794330.2119
L	123+14.57	28.89	896480.7065	2794447.0750
L	123+17.00	-30.00	896508.1868	2794394.9352
L	123+23.51	28.77	896489.0471	2794450.8828

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	123+70.51	-30.00	896555.7566	2794416.1122
L	124+56.63	30.00	896612.1616	2794504.6291
L	125+12.26	30.00	896663.5875	2794526.0327
L	125+16.24	-30.00	896690.2714	2794472.1850
L	127+51.00	-30.00	896908.0673	2794553.1270
L</				



# RIGHT OF WAY CONTROL SHEET

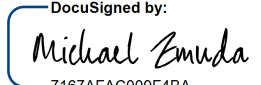
PROJECT REFERENCE NO. R-5740	SHEET NO. RW03E-2
<b>Location and Surveys</b>	
JOHNSON, MIRMIRAN & THOMPSON 1130 SITUS COURT, SUITE 200 RALEIGH, NC 27606	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 5TH OF FEBRUARY 2020

DocuSigned by:  
  
MICHAEL W. ZMUDA, PLS #L-5205  
SENIOR ASSOCIATE

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	171+07.00	-30.00	900925.7921	2796128.2508
L	171+11.70	30.00	900930.8996	2796188.2172
L	171+27.05	-29.60	900944.9197	2796128.2973
L	172+22.06	30.00	901046.4031	2796175.6080
L	172+35.92	-30.46	901046.6280	2796113.5893
L	172+37.67	-30.51	901048.2200	2796113.1471
L	172+38.01	29.51	901062.6880	2796171.4000
L	172+39.58	29.46	901064.2800	2796170.9577
L	173+40.00	-30.00	901140.2890	2796082.1601
L	173+58.93	30.00	901181.2951	2796129.8763
L	174+57.06	30.00	901271.5118	2796091.2753
L	174+57.06	-30.00	901247.9094	2796036.1126
L	176+15.13	30.00	901416.7791	2796027.7569
L	176+15.13	-30.00	901392.3077	2795972.9742
L	182+48.38	-30.00	901970.4873	2795714.7016
L	182+69.26	29.99	902014.0014	2795760.9780
L	183+10.91	29.99	902052.0075	2795744.0956
L	183+31.80	-30.00	902046.8427	2795680.7845
L	188+27.00	30.00	902524.0647	2795535.5854
L	189+01.76	-30.00	902568.2055	2795450.4958
L	189+01.76	30.00	902592.4482	2795505.3801
L	190+89.21	30.00	902764.0122	2795430.5583
L	190+89.21	-30.00	902740.2850	2795375.4491
L	192+36.00	-30.00	902875.1104	2795317.4000
L	194+81.25	30.00	903124.0980	2795275.5233
L	195+29.35	-29.94	903144.4805	2795201.4227
L	196+25.25	-29.94	903232.2516	2795163.1322
L	196+73.35	30.00	903300.4324	2795198.5966
L	199+10.00	30.00	903516.8848	2795102.9284
L	205+04.00	-30.00	904035.9286	2794807.9207
L	209+26.18	-30.00	904422.0708	2794637.2524
L	209+56.64	29.99	904474.1747	2794679.8226
L	209+71.83	29.99	904488.0618	2794673.6973
L	210+02.30	-30.00	904491.7571	2794606.5156
L	228+22.41	30.00	906181.8070	2793928.1710
L	228+22.41	-30.00	906157.6352	2793873.2554
L	229+21.15	-30.00	906247.7704	2793833.3152
L	229+21.15	30.00	906272.2131	2793888.1108
L	230+11.65	-30.00	906330.4208	2793796.4473
L	230+14.49	30.00	906357.4959	2793850.0686
L	231+23.00	-30.00	906429.2940	2793749.0004
L	232+19.85	-30.71	906512.6725	2793702.7025
L	232+20.35	29.29	906543.1161	2793754.4054
L	232+88.99	29.61	906602.7039	2793719.3190
L	232+89.53	-30.39	906572.2604	2793667.6161
L	233+75.77	-30.00	906646.3789	2793623.5251
L	233+75.77	30.00	906677.2849	2793674.9529
L	235+43.00	-30.00	906789.7151	2793537.3861
L	238+79.00	-30.00	907077.7109	2793364.3126
L	240+74.15	30.00	907275.8840	2793315.2199
L	241+82.62	-30.00	907337.9566	2793207.9158
L	242+14.05	30.00	907395.7959	2793243.1579


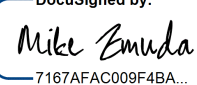
REVISIONS

### 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.

# PERMANENT EASEMENT CONTROL SHEET


PROJECT REFERENCE NO.	SHEET NO.
R-5740	RW03E-3
<b>Location and Surveys</b>	
JOHNSON, MIRMIRAN & THOMPSON 1130 SITUS COURT, SUITE 200 RALEIGH, NC 27606	
PROJECT SURVEYOR 	
DocuSigned by:  7187AFAC00F8BA	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, R/W STAKING, PERFORMED UNDER MY RESPONSIBLE CHARGE MEETS NCDOT SURVEY STANDARDS AS DIRECTED IN THE NCDOT LOCATION AND SURVEY GUIDELINES AND PROCEDURES.

I FURTHER CERTIFY THAT THE DATA COMPILED CAME FROM AVAILABLE SURVEYS/MAPPING PERFORMED BY OTHERS AND PROVIDED TO ME BY THE 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 9TH OF APRIL 2020

DocuSigned by:  
  
7187AFAC00F8BA  
MICHAEL W. ZMUDA, PLS #L-5205  
SENIOR ASSOCIATE

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	14+80.25	50.00	886763.0615	2792280.7407
L	14+80.25	30.00	886768.5910	2792261.5203
L	15+00.25	50.00	886782.2818	2792286.2704
L	15+00.25	30.00	886787.8114	2792267.0500
L	17+28.73	50.00	887001.8610	2792349.4433
L	17+28.73	30.00	887007.3906	2792330.2229
L	17+48.73	30.00	887026.6109	2792335.7526
L	17+48.73	50.00	887021.0814	2792354.9730
L	18+43.00	30.00	887117.2020	2792361.8156
L	18+43.00	48.00	887112.2252	2792379.1139
L	18+71.00	30.00	887144.1104	2792369.5572
L	18+71.00	48.00	887139.1337	2792386.8555
L	23+37.00	47.00	887588.6195	2792511.4153
L	23+37.00	30.00	887593.1742	2792495.0368
L	23+69.00	30.00	887624.0043	2792503.6104
L	23+69.00	47.00	887619.4496	2792519.9889
L	28+35.00	51.00	888066.1700	2792650.8656
L	28+35.00	30.00	888072.0083	2792630.6935
L	28+65.00	30.00	888100.8256	2792639.0339
L	28+65.00	51.00	888094.9873	2792659.2060
L	33+54.00	40.00	888589.0828	2792728.4845
L	33+54.00	30.00	888588.9713	2792718.4851
L	33+73.94	30.00	888608.9060	2792718.2628
L	33+73.94	40.00	888609.0175	2792728.2621
L	42+27.00	30.00	889463.0563	2792701.9874
L	42+27.00	48.00	889464.0577	2792719.9596
L	42+56.00	30.00	889492.0114	2792700.3741
L	42+56.00	48.00	889493.0128	2792718.3463
L	50+45.78	65.75	890274.6981	2792551.7881
L	50+53.03	30.00	890269.8019	2792515.6393
L	50+60.48	-30.00	890289.5624	2792549.7748
L	50+68.34	30.00	890284.2579	2792510.6122
L	54+74.00	53.00	890672.7562	2792421.2149
L	54+74.00	30.04	890668.6909	2792398.6203
L	54+76.00	-30.00	890660.0620	2792339.1673
L	54+76.00	-40.00	890658.3028	2792329.3233
L	55+02.00	30.52	890695.8767	2792394.4417
L	55+02.00	53.00	890699.4929	2792416.6313
L	55+05.00	-40.00	890687.5653	2792324.3510
L	55+05.00	-30.00	890689.1564	2792334.2236
L	55+99.81	30.06	890791.4376	2792381.0413
L	56+02.06	50.07	890796.0397	2792400.6456
L	58+40.58	55.08	891033.4810	2792377.3841
L	60+12.00	30.00	891200.7263	2792332.1898
L	60+12.00	42.00	891202.1467	2792344.1055
L	60+48.00	30.00	891236.3033	2792328.0405
L	60+48.00	42.00	891237.6515	2792339.9646
L	60+80.45	59.32	891271.4671	2792353.6775
L	63+63.52	54.38	891551.0223	2792326.0524
L	66+44.54	29.42	891831.6778	2792275.1846
L	66+46.03	52.99	891836.9129	2792298.2096
L	78+45.29	44.35	892995.3475	2792089.9595
L	78+47.24	30.00	892999.5682	2792076.1307
L	85+12.00	63.31	893572.1097	2792402.7798
L	89+34.35	45.00	894003.0063	2792481.7397
L	89+36.08	64.95	894003.5478	2792501.7665
L	92+03.34	-73.72	894277.0624	2792362.7103
L	92+04.53	-35.00	894277.0555	2792401.4497
L	92+17.28	57.82	894266.2363	2792494.6787
L	92+17.54	-74.27	894292.0624	2792362.7129
L	92+19.15	-35.00	894292.0554	2792402.0194
L	94+71.35	58.39	894526.4607	2792528.5018
L	97+02.68	59.12	894735.8595	2792598.6727
L	98+95.37	58.13	894899.5968	2792682.6904
L	101+34.47	-103.09	895190.2086	2792699.4275
L	101+35.22	-35.00	895145.2966	2792750.6055
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L	103+94.00	30.00	895278.6132	2792983.5906
L	104+40.00	30.00	895309.5567	2793017.6273
L	104+40.00	40.00	895302.1574	2793024.3542
L	125+16.24	30.00	896667.1857	2794527.5660
L	125+16.24	40.00	896663.3381	2794536.7962
L	125+36.23	29.97	896685.8532	2794535.2449
L	125+36.24	40.00	896682.0678	2794544.5305
L	129+37.00	-30.07	897084.7320	2794604.9487
L	129+78.09	-48.47	897128.5642	2794597.0543
L	129+86.09	-61.10	897139.4389	2794586.7234

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	130+01.74	-33.17	897148.2394	2794617.7651
L	130+06.86	-29.92	897152.4723	2794622.2208
L	130+27.23	-34.80	897173.8357	2794622.9306
L	130+30.00	-35.00	897176.6231	2794623.4932
L	130+35.12	-29.98	897180.3003	2794629.7354
L	131+19.80	-30.61	897262.9192	2794654.9553
L	131+20.00	29.39	897243.5632	2794711.7475
L	131+20.19	-78.41	897278.8750	2794609.9016
L	131+34.44	-78.35	897293.0141	2794614.9089
L	131+34.50	-30.64	897277.0867	2794659.8824
L	131+50.00	-30.62	897291.9560	2794665.2820
L	132+50.00	50.00	897354.7450	2794777.4039
L	132+50.00	-46.00	897392.0389	2794688.9439
L	133+07.00	51.00	897406.8796	2794800.4686
L	133+50.00	-42.00	897482.6307	2794731.4776
L	133+56.00	42.00	897455.5273	2794811.2109
L	134+00.00	-30.00	897524.0419	2794761.9590
L	134+48.00	30.00	897544.9632	2794835.8934
L	164+43.50	40.00	900256.3813	2796109.8769
L	164+43.50	30.00	900259.9471	2796100.5343
L	164+62.60	30.00	900278.5003	2796107.3777
L	164+62.60	40.00	900275.1453	2796116.7981
L	174+68.00	30.00	901281.5997	2796086.9525
L	174+68.00	49.00	901289.0930	2796104.4125
L	174+97.00	49.00	901315.8563	2796092.8806
L	174+97.00	30.00	901308.3125	2796075.4424
L	199+05.00	30.00	903512.3116	2795104.9497
L	199+05.00	49.00	903519.9925	2795122.3279
L	199+34.00	30.00	903538.8363	2795093.2262
L	199+34.00	49.00	903546.5172	2795110.6045
L	203+99.00	-30.00	903939.8908	2794850.3677
L	204+30.84	-52.00	903960.1238	2794817.3720
L	204+90.55	-58.00	904012.3088	2794787.7472
L	205+22.00	-30.00	904052.3922	2794800.6440
L	205+91.00	40.00	904143.7988	2794836.7763
L	205+91.00	30.00	904139.7562	2794827.6298
L	206+11.00	40.00	904162.0917	2794828.6911
L	206+11.00	30.00	904158.0491	2794819.5447
L	211+42.00	30.00	904643.7951	2794605.1491
L	211+42.00	49.00	904651.4495	2794622.5390
L	211+71.00	30.00	904670.3376	2794593.4660
L	211+71.00	49.00	904677.9921	2794610.8559
L	211+71.00	78.85	904690.0174	2794638.1762
L	211+88.55	30.00	904686.4031	2794586.3945
L	211+88.69	78.80	904706.1906	2794631.0018
L	214+08.19	-30.00	904863.2535	2794442.9962
L	214+08.19	-47.34	904856.2667	2794427.1256
L	216+68.67	-49.49	905093.8049	2794320.2157
L	219+11.00	50.00	905355.6870	2794313.6513
L	219+11.00	30.00	905347.6297	2794295.3462
L	219+40.00	50.00	905382.2295	2794301.9683
L	219+40.00	30.00	905374.1722	2794283.6631
L	231+33.00	54.00	906476.8498	2793818.9690
L	231+33.00	29.84	906465.6870	2793797.5408
L	231+62.00	54.00	906503.1629	2793805.0180
L	231+62.00	29.70	906491.6233	2793783.6292
L	232+10.83	29.37	906534.7815	2793759.2838
L	232+10.88	74.76	906557.3464	2793798.6734
L	232+23.97	-30.74	906516.1750	2793700.6402
L	232+25.34	74.80	906570.3620	2793791.2172
L	232+25.61	29.25	906547.7206	2793751.6941
L	232+26.11	-49.40	906508.6070	2793683.4493
L	239+57.00	40.00	907180.6240	2793384.1340
L	239+57.00	30.00	907175.4730	2793375.5627
L	239+77.00	40.00	907197.7666	2793373.8320
L	239+77.00	30.00	907192.6156	2793365.2607

### 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

C:\A\FR\0000\_1135\_017\_SR\_1329\_woodville\CAD\Drawings\FIELD\DDNNRW-03\R5740.LS\_rw03e-3.dgn  
 01/18/2020 09:37  
 AT-Jlemmons







6/2/09

I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, R/W STAKING, PERFORMED UNDER MY RESPONSIBLE CHARGE MEETS NCDOT SURVEY STANDARDS AS DIRECTED IN THE NCDOT LOCATION AND SURVEY GUIDELINES AND PROCEDURES.

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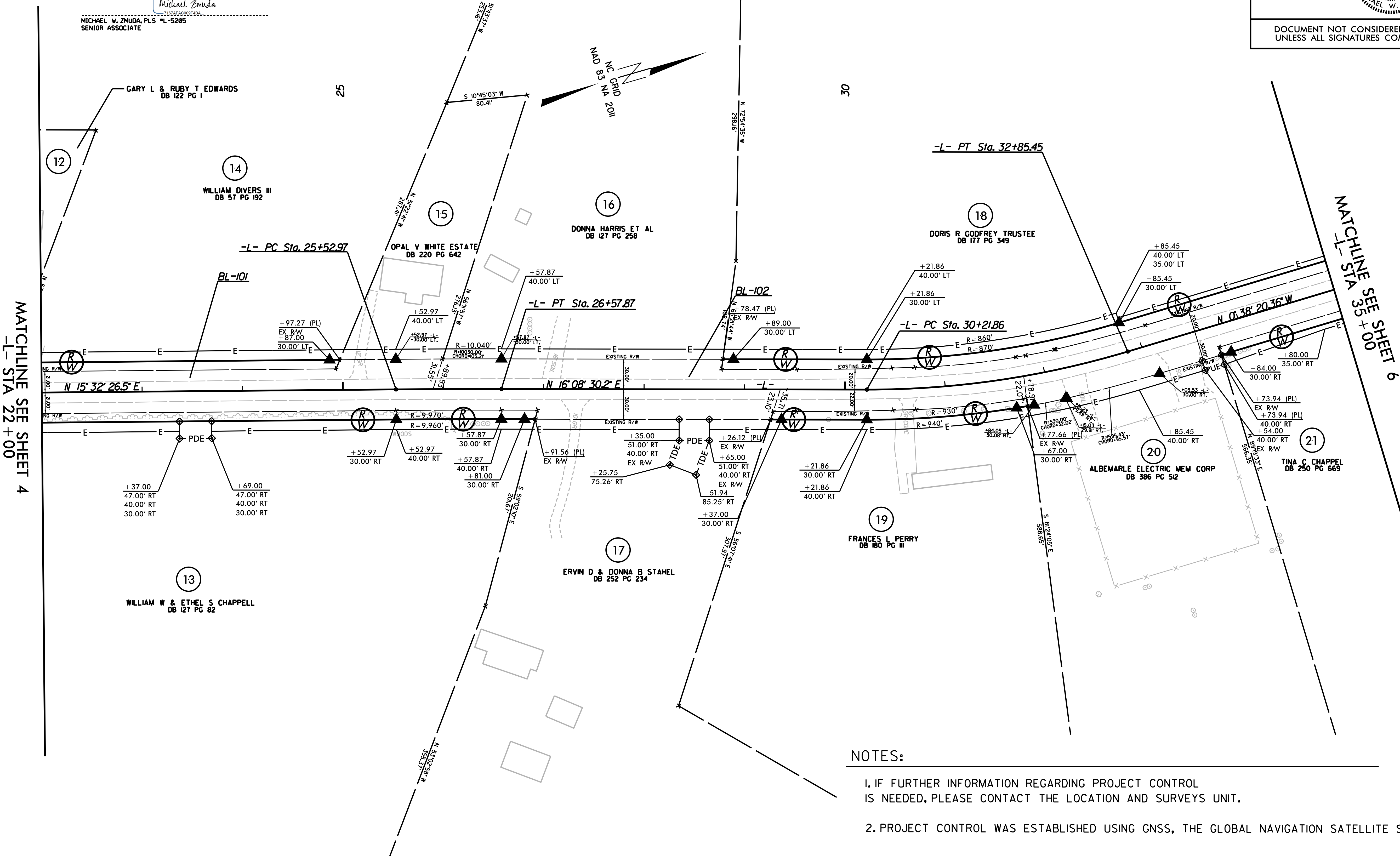
WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 27TH OF JANUARY 2020

DocuSigned by:  
Michael W. Zmuda

MICHAEL W. ZMUDA, PLS #L-5205  
SENIOR ASSOCIATE

PROJECT REFERENCE NO.	SHEET NO.
R-5740	RW05
<b>Location and Surveys</b>	
JOHNSON, MIRMIRAN & THOMPSON 1130 SITUS COURT, SUITE 200 RALEIGH, NC 27606	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-	
PI Sta 26+05.42	PI Sta 31+54.61
$\Delta = 0^{\circ} 36' 03.7''$ (RT)	$\Delta = 16^{\circ} 46' 50.5''$ (LT)
$D = 0^{\circ} 34' 22.6''$	$D = 6^{\circ} 21' 58.3''$
$L = 104.90'$	$L = 263.59'$
$T = 52.45'$	$T = 132.75'$
$R = 10,000.00'$	$R = 900.00'$
$SE = EXIST$	$SE = EXIST$



- 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

MATCHLINE SEE SHEET 4  
-L- STA 22+00

MATCHLINE SEE SHEET 6  
-L- STA 35+00

27-Jan-2020 08:40  
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6/2/09  
BVA131071

6/2/09

I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, R/W STAKING, PERFORMED UNDER MY RESPONSIBLE CHARGE MEETS NCDOT SURVEY STANDARDS AS DIRECTED IN THE NCDOT LOCATION AND SURVEY GUIDELINES AND PROCEDURES.

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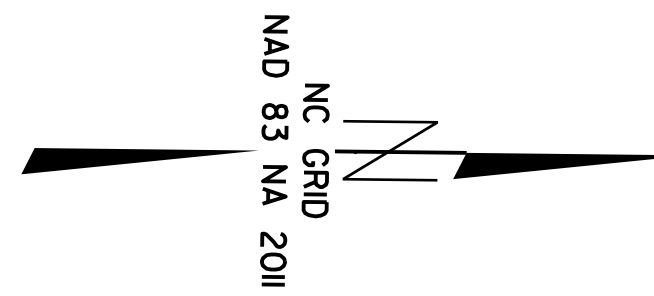
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WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 27TH OF JANUARY 2020

DocuSigned by:  
Michael W. Zmuda

MICHAEL W. ZMUDA, PLS #L-5205  
SENIOR ASSOCIATE

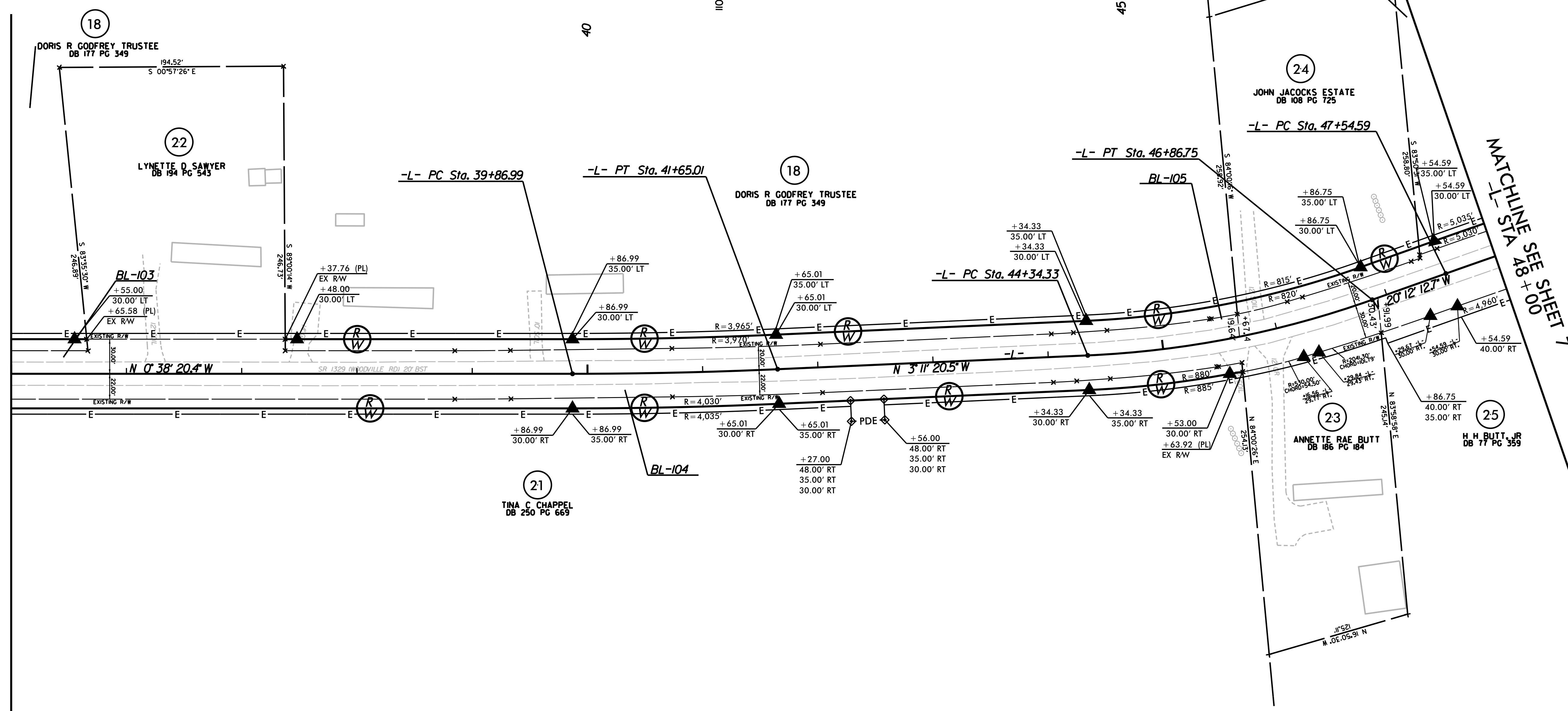
-L-	
PI Sta 40+76.02	PI Sta 45+61.48
$\Delta = 2' 33'' 00.2''$ (LT)	$\Delta = 17' 00'' 52.2''$ (LT)
D = 1' 25' 56.6"	D = 6' 44' 26.4"
L = 178.03'	L = 252.42'
T = 89.03'	T = 127.14'
R = 4,000.00'	R = 850.00'
SE = EXIST	SE = EXIST



PROJECT REFERENCE NO.	SHEET NO.
R-5740	RW06
<b>Location and Surveys</b>	
JOHNSON, MIRMIRAN & THOMPSON 1130 SITUS COURT, SUITE 200 RALEIGH, NC 27606	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE SEE SHEET 5  
-L- STA 35+00

MATCHLINE SEE SHEET 7  
-L- STA 48+00



**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.

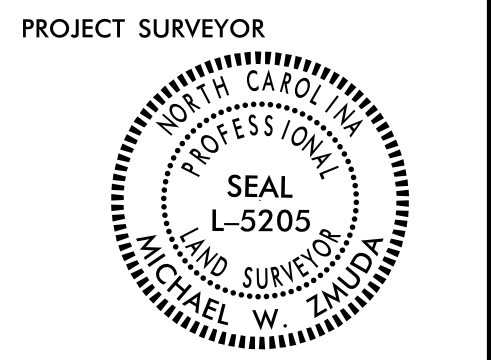
REVISIONS

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11/18/2018 11:20:08 AM



**Location and Surveys**

JOHNSON, MIRMIRAN & THOMPSON  
1130 SITUS COURT, SUITE 200  
RALEIGH, NC 27606



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

-L-	
PI Sta 47+99.47	PI Sta 53+92.03
$\Delta = 1^{\circ}01'42.6"$ (RT)	$\Delta = 12^{\circ}22'36.5"$ (RT)
$D = 1^{\circ}08'45.3"$	$D = 3^{\circ}22'13.2"$
$L = 89.75'$	$L = 367.23'$
$T = 44.88'$	$T = 184.33'$
$R = 5,000.00'$	$R = 1,700.00'$
SE = EXIST	SE = EXIST

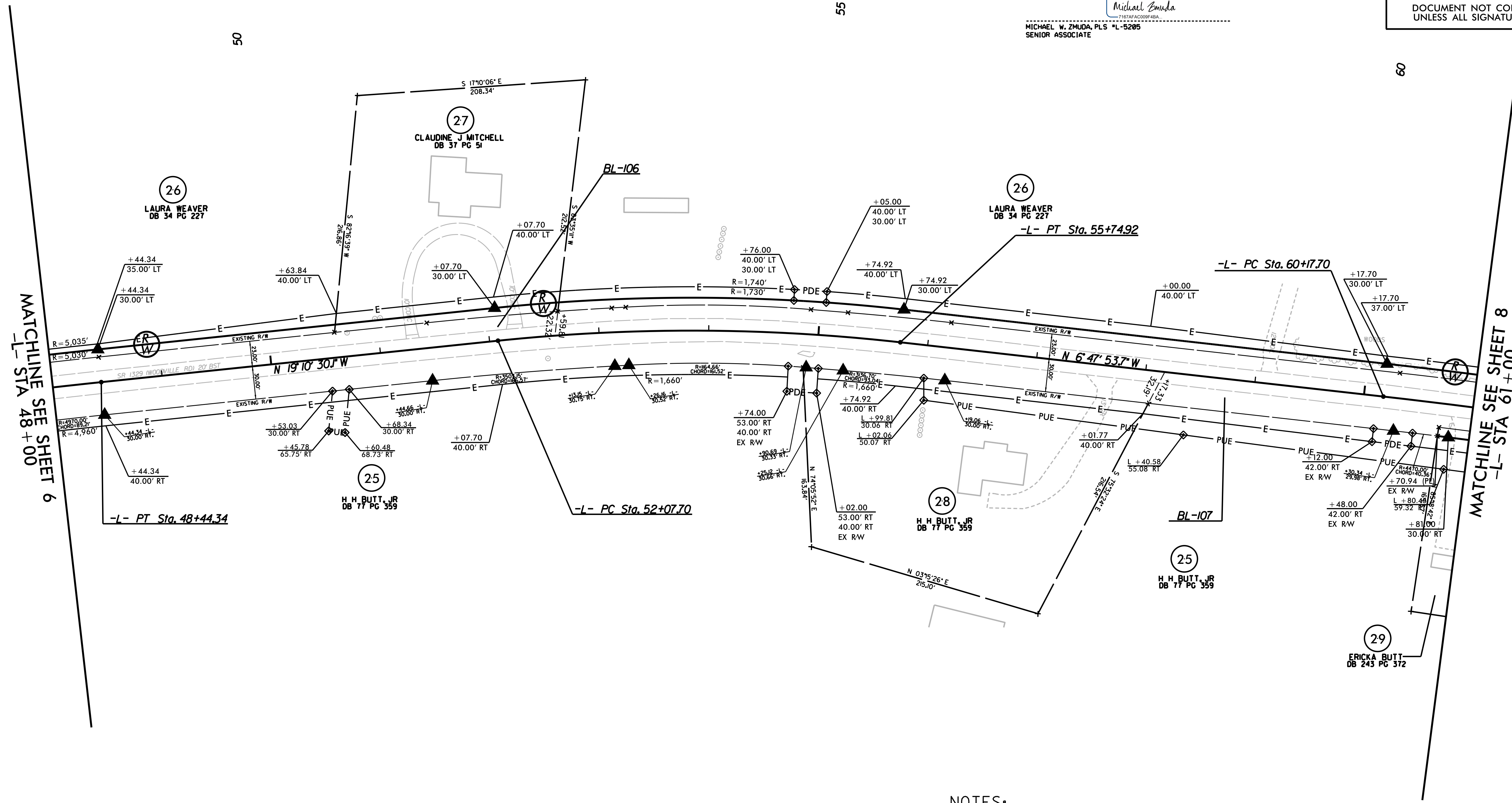
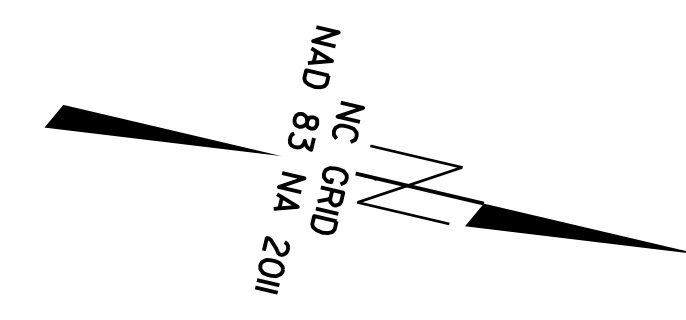
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WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 27TH OF JANUARY 2020

DocuSigned by:  
*Michael Zmuda*  
7107AFACD09F4BA  
MICHAEL W. ZMUDA, PLS #L-5205  
SENIOR ASSOCIATE



**NOTES:**

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REVISIONS

MATCHLINE SEE SHEET 6  
-L- STA 48+00

MATCHLINE SEE SHEET 8  
-L- STA 61+00

6/2/09  
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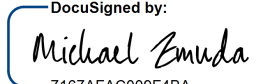
-L-			
<i>PI Sta 61+43.34</i>	<i>PI Sta 66+68.08</i>	<i>PI Sta 71+14.81</i>	<i>PI Sta 73+46.53</i>
$\Delta = 2^{\circ} 52' 43.3" (RT)$	$\Delta = 1^{\circ} 58' 00.3" (LT)$	$\Delta = 0^{\circ} 49' 45.1" (RT)$	$\Delta = 7^{\circ} 33' 51.0" (RT)$
$D = 1^{\circ} 08' 45.3"$	$D = 3^{\circ} 34' 51.6"$	$D = 0^{\circ} 34' 22.6"$	$D = 3^{\circ} 49' 11.0"$
$L = 251.2'$	$L = 334.1'$	$L = 144.7'$	$L = 198.0'$
$T = 125.63'$	$T = 167.70'$	$T = 72.36'$	$T = 99.16'$
$R = 5,000.00'$	$R = 1,600.00'$	$R = 10,000.00'$	$R = 1,500.00'$
$SE = EXIST$	$SE = EXIST$	$SE = EXIST$	$SE = EXIST$

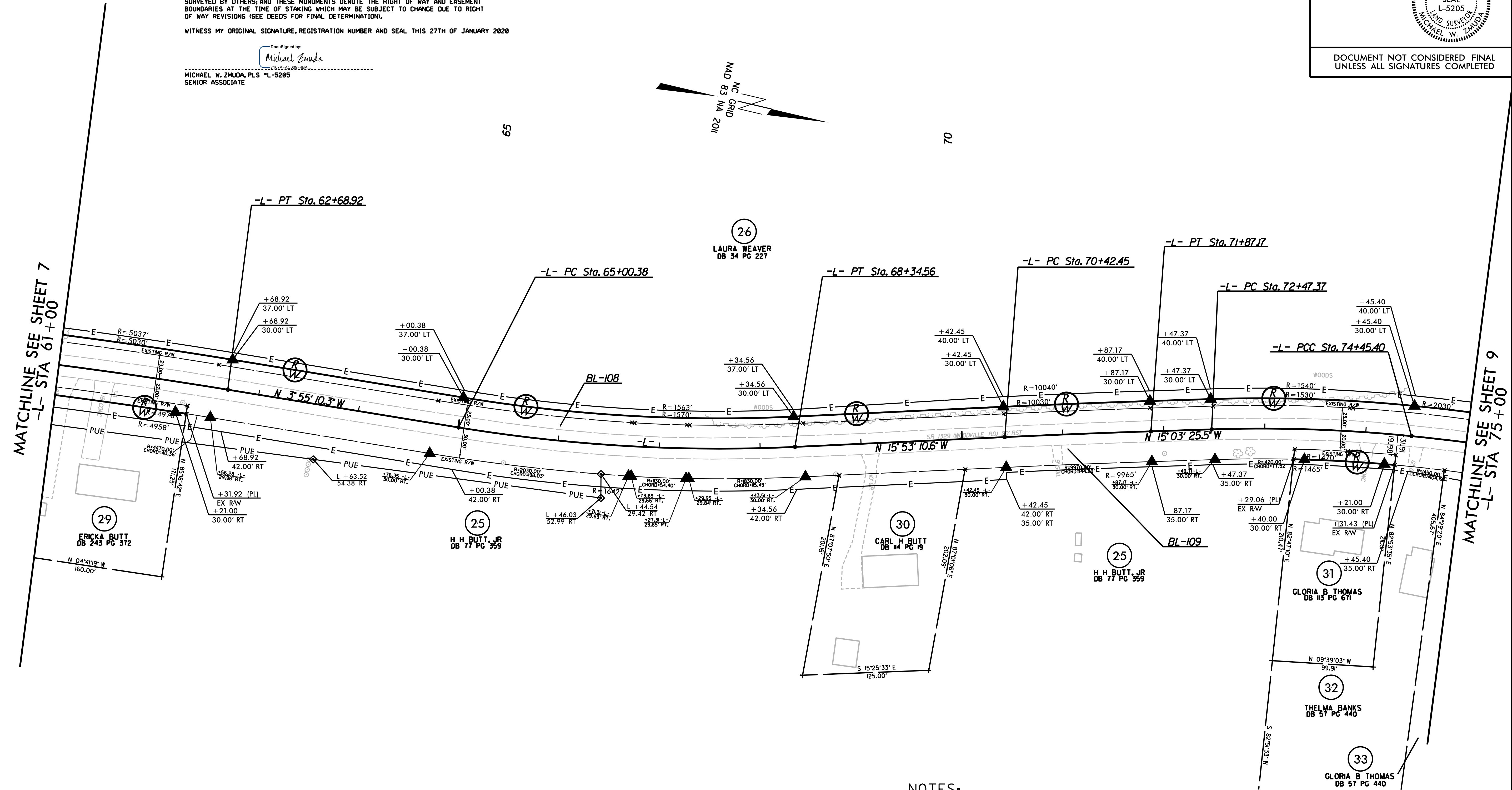
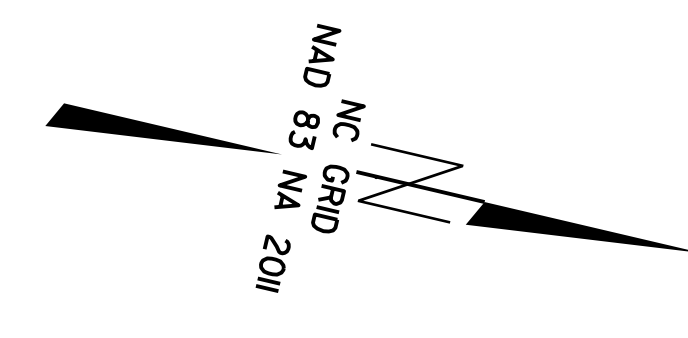
I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, R/W STAKING, PERFORMED UNDER MY RESPONSIBLE CHARGE MEETS NCDOT SURVEY STANDARDS AS DIRECTED IN THE NCDOT LOCATION AND SURVEY GUIDELINES AND PROCEDURES.

I FURTHER CERTIFY THAT THE DATA COMPILED CAME FROM AVAILABLE SURVEYS/MAPPING PERFORMED BY OTHERS AND PROVIDED TO ME BY THE 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 27TH OF JANUARY 2020

DocuSigned by:  
  
 MICHAEL W. ZMUDA, PLS \*L-5205  
 SENIOR ASSOCIATE



**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

MATCHLINE SEE SHEET 7  
-L- STA 61+00

MATCHLINE SEE SHEET 9  
-L- STA 75+00

6/2/09  
 27 JAN 2020 08:40  
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 Files and More\NON JMT\RW-04\PS740\_1s\_rw08.dgn  
 Files and More\NON JMT\RW-04\PS740\_1s\_rw08.dgn  
 Files and More\NON JMT\RW-04\PS740\_1s\_rw08.dgn



Location and Surveys

JOHNSON, MIRMIRAN & THOMPSON  
1130 SITUS COURT, SUITE 200  
RALEIGH, NC 27606

PROJECT SURVEYOR



Designed by:  
Mike Zmuda  
7167AFAC0006F48A

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

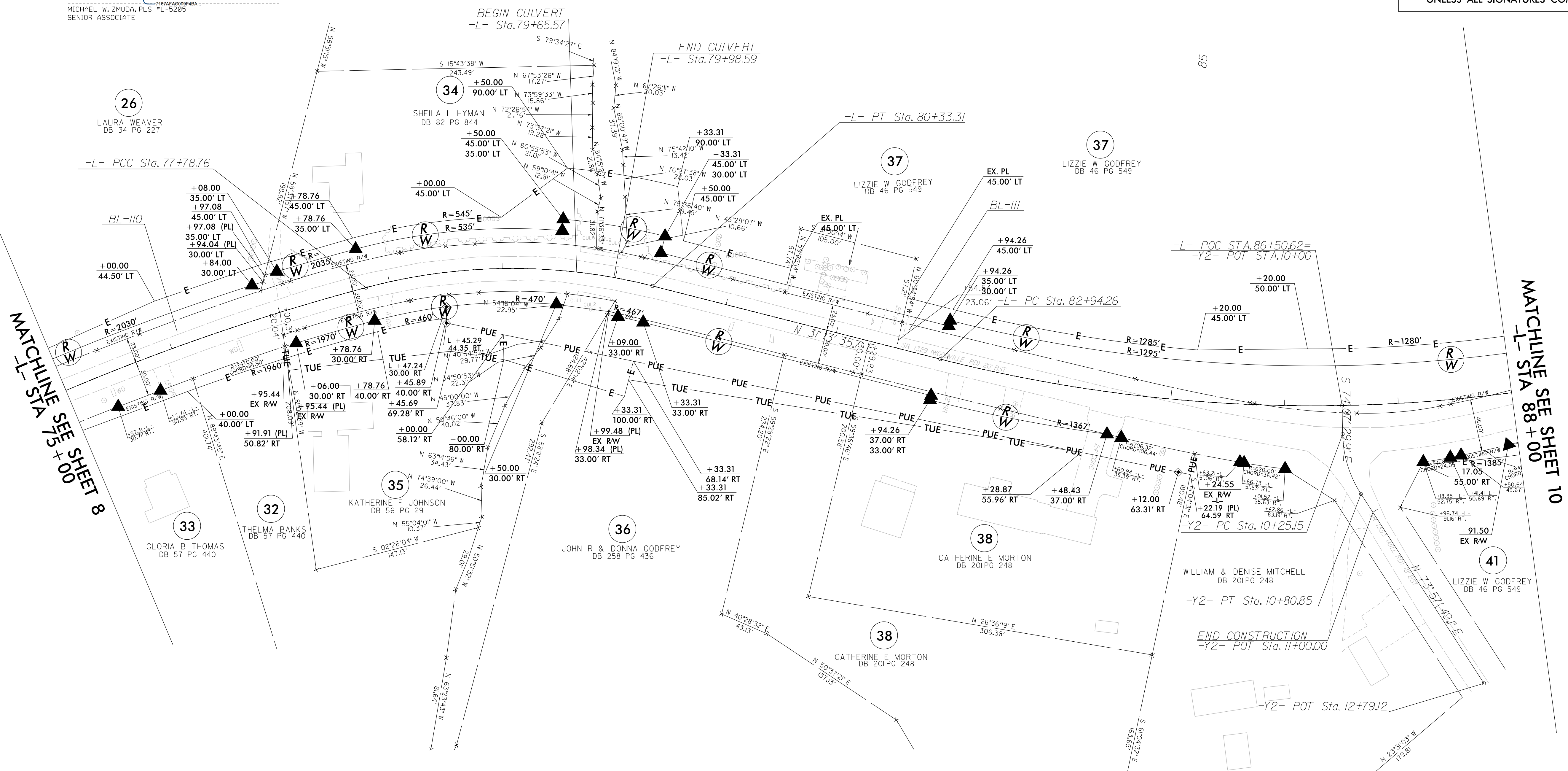
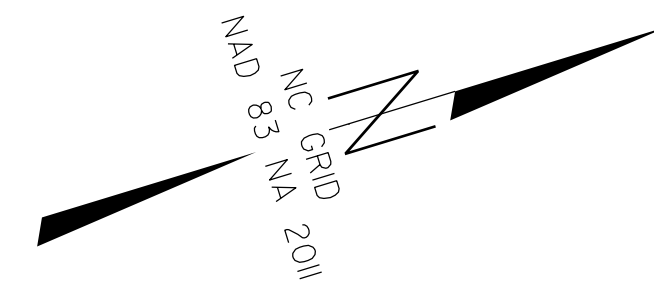
I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, R/W STAKING, PERFORMED UNDER MY RESPONSIBLE CHARGE MEETS NCDOT SURVEY STANDARDS AS DIRECTED IN THE NCDOT LOCATION AND SURVEY GUIDELINES AND PROCEDURES.

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WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 9TH OF APRIL 2020

-L-		
PI Sta 76+12.47	PI Sta 79+08.86	PI Sta 87+04.57
$\Delta = 9^{\circ}33'00.5''$ (RT)	$\Delta = 29^{\circ}10'09.7''$ (RT)	$\Delta = 34^{\circ}17'24.4''$ (LT)
D = 2'51'53.2"	D = 1'27'33.0"	D = 4'18'28.6"
L = 333.36'	L = 254.55'	L = 795.97'
T = 167.07'	T = 130.10'	T = 410.31'
R = 2,000.00'	R = 500.00'	R = 1,330.00'
SE = EXIST	SE = EXIST	SE = 0.06



NOTES:

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

-Y2-	
PI Sta 10+53.74	$\Delta = 31^{\circ}54'41.0''$ (LT)
D = 57'17'44.8"	L = 55.70'
T = 28.59'	R = 100.00'
SE = 0.01	

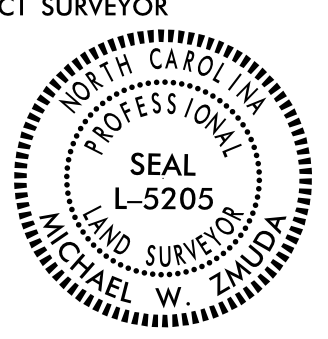
REVISIONS

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PROJECT REFERENCE NO. R-5740	SHEET NO. RW11
<b>Location and Surveys</b>	
JOHNSON, MIRMIRAN & THOMPSON 1130 SITUS COURT, SUITE 200 RALEIGH, NC 27606	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

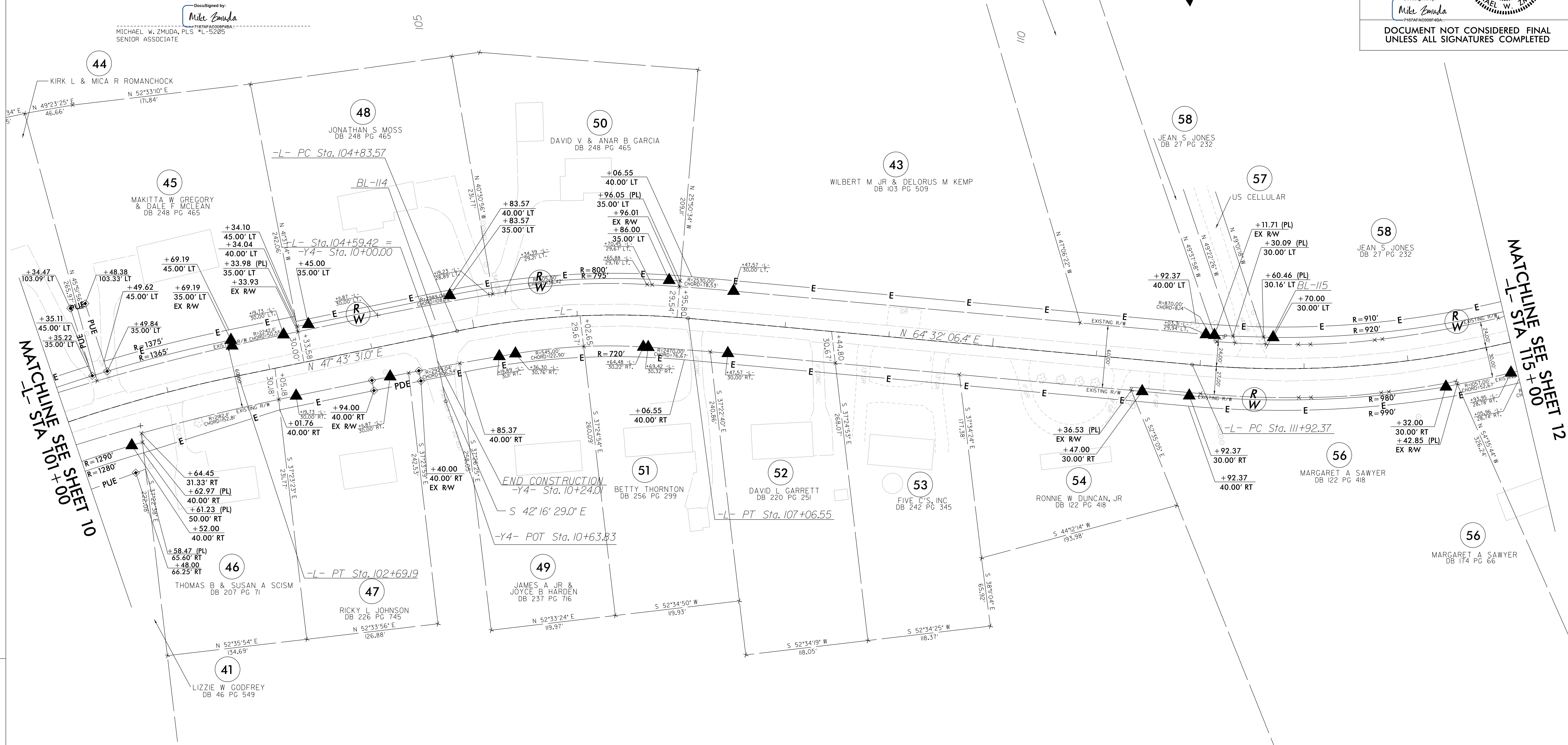
I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, R/W STAKING, PERFORMED UNDER MY RESPONSIBLE CHARGE MEETS NCDOT SURVEY STANDARDS AS DIRECTED IN THE NCDOT LOCATION AND SURVEY GUIDELINES AND PROCEDURES.

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WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 9TH OF APRIL 2020

-L-	
PI Sta 105+95.87 Δ = 16° 48' 35.4" (RT) D = 7° 32' 20.1" L = 222.97' T = 112.29' R = 760.00' SE = 0.06	PI Sta 113+70.42 Δ = 2° 13' 51.7" (LT) D = 6° 01' 52.1" L = 352.02' T = 178.05' R = 950.00' SE = 0.06



REVISIONS

MATCHLINE SEE SHEET 10  
-L- STA 101+00

MATCHLINE SEE SHEET 12  
-L- STA 115+00

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.

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 tlemmons AT RVA131071

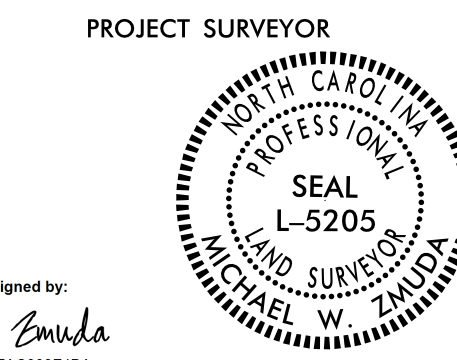






Location and Surveys

JOHNSON, MIRMIRAN & THOMPSON  
1130 SITUS COURT, SUITE 200  
RALEIGH, NC 27606



DocuSigned by:  
Michael W. Zmuda  
7152FAAC0586A8A

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

-L-		
PI Sta 127+49.48	PI Sta 131+01.44	PI Sta 137+36.30
$\Delta = 8^{\circ}53'27.8"$ (LT)	$\Delta = 9^{\circ}07'19.1"$ (RT)	$\Delta = 1^{\circ}39'49.5"$ (RT)
$D = 1^{\circ}54'35.5"$	$D = 3^{\circ}49'11.0"$	$D = 0^{\circ}34'22.6"$
$L = 465.54'$	$L = 238.81'$	$L = 290.38'$
$T = 233.24'$	$T = 119.66'$	$T = 145.20'$
$R = 3,000.00'$	$R = 1,500.00'$	$R = 10,000.00'$
$SE = 0.04$	$SE = 0.06$	$SE = EXIST$

I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, R/W STAKING, PERFORMED UNDER MY RESPONSIBLE CHARGE MEETS NCDOT SURVEY STANDARDS AS DIRECTED IN THE NCDOT LOCATION AND SURVEY GUIDELINES AND PROCEDURES.

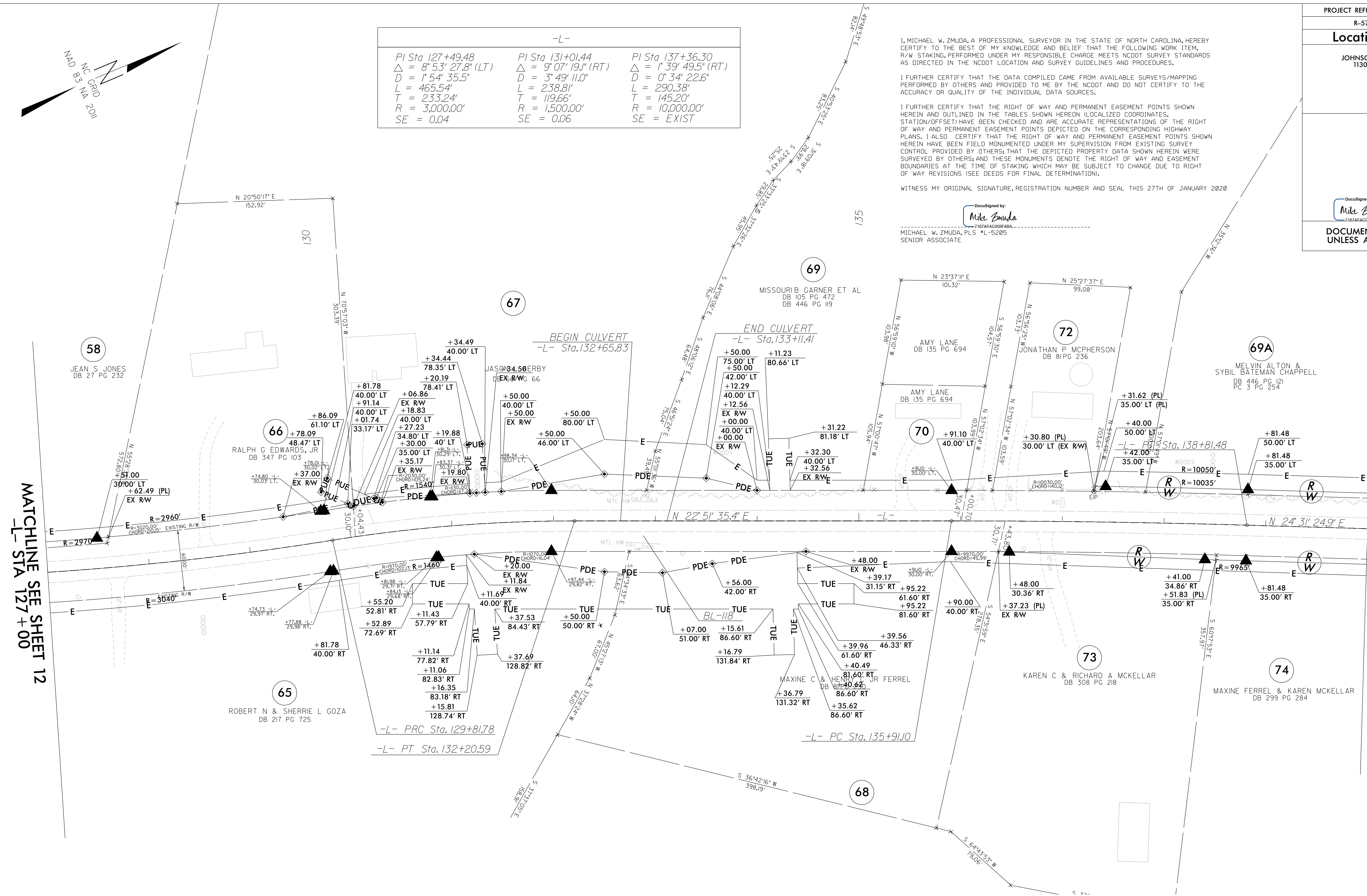
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WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 27TH OF JANUARY 2020

DocuSigned by:  
Mike Zmuda  
7152FAAC0586A8A

MICHAEL W. ZMUDA, PLS #L-5205  
SENIOR ASSOCIATE



MATCHLINE SEE SHEET 12  
-L- STA 127+00

MATCHLINE SEE SHEET 14  
-L- STA 140+00

REVISIONS

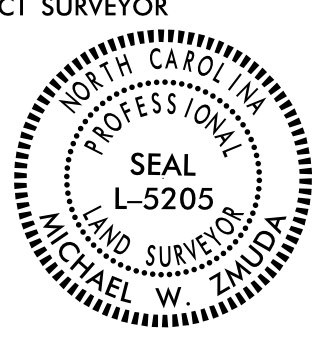
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C:\Users\lemmons\_AT\_RVA\131071

NOTES:

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



6/2/09

PROJECT REFERENCE NO. R-5740	SHEET NO. RW14
<b>Location and Surveys</b>	
JOHNSON, MIRMIRAN & THOMPSON 1130 SITUS COURT, SUITE 200 RALEIGH, NC 27606	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	


I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, R/W STAKING, PERFORMED UNDER MY RESPONSIBLE CHARGE MEETS NCDOT SURVEY STANDARDS AS DIRECTED IN THE NCDOT LOCATION AND SURVEY GUIDELINES AND PROCEDURES.

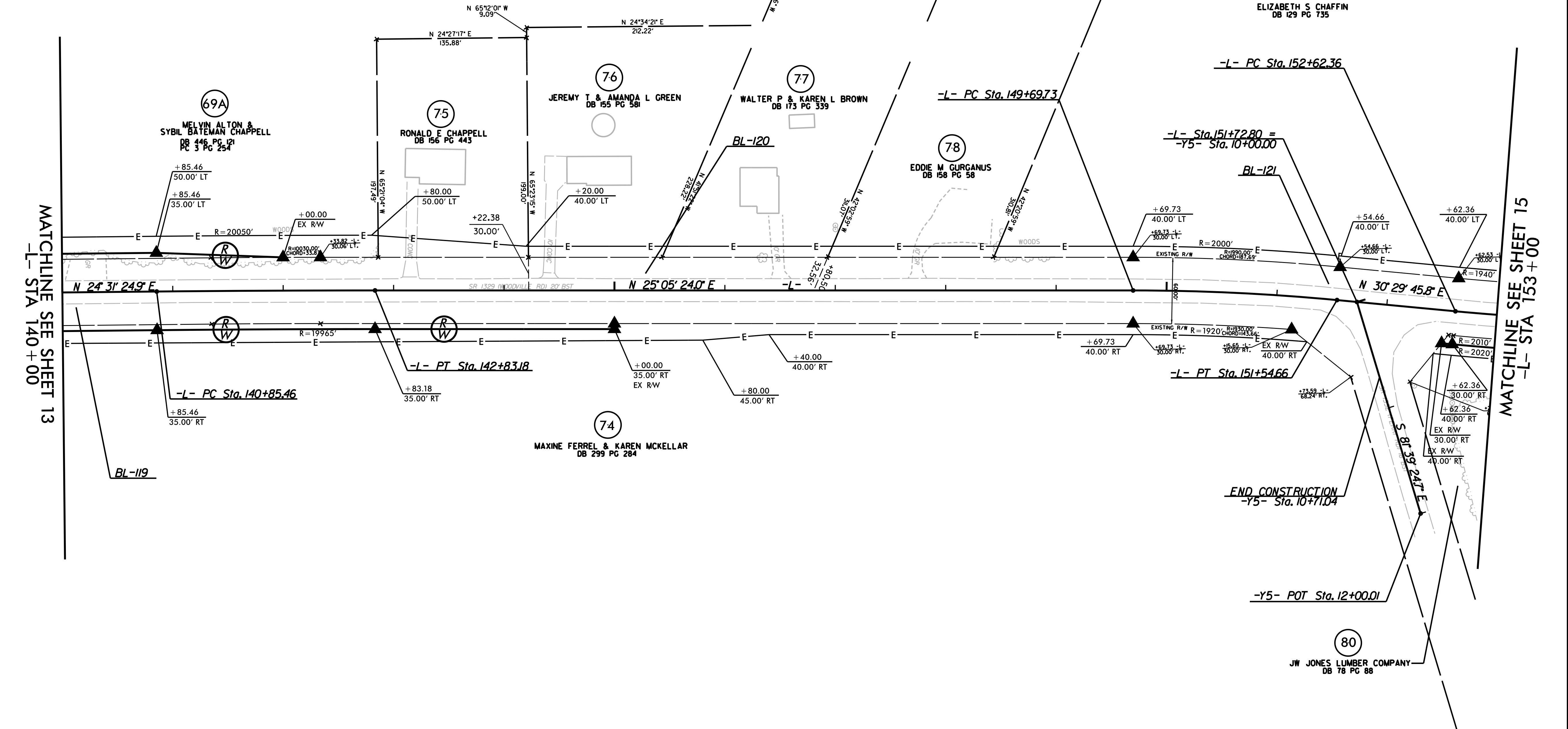
I FURTHER CERTIFY THAT THE DATA COMPILED CAME FROM AVAILABLE SURVEYS/MAPPING PERFORMED BY OTHERS AND PROVIDED TO ME BY THE NCDOT AND DO NOT CERTIFY TO THE ACCURACY OR QUALITY OF THE INDIVIDUAL DATA SOURCES.

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WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 27TH OF JANUARY 2020

-L-	
PI Sta 141+84.32	PI Sta 150+62.26
$\Delta = 0' 33' 59.1''$ (RT)	$\Delta = 5' 24' 21.8''$ (RT)
$D = 0' 17' 11.3''$	$D = 2' 55' 23.7''$
$L = 197.72'$	$L = 184.93'$
$T = 98.86'$	$T = 92.54'$
$R = 20,000.00'$	$R = 1,960.00'$
$SE = EXIST$	$SE = 0.06$

DocuSigned by:  
  
MICHAEL W. ZMUDA, PLS \*L-5205  
SENIOR ASSOCIATE



**NOTES:**

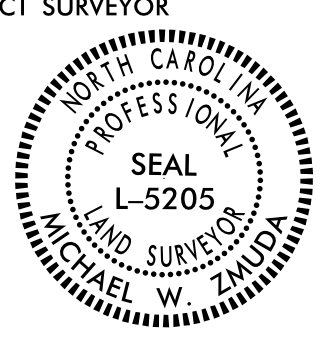
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
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REVISIONS

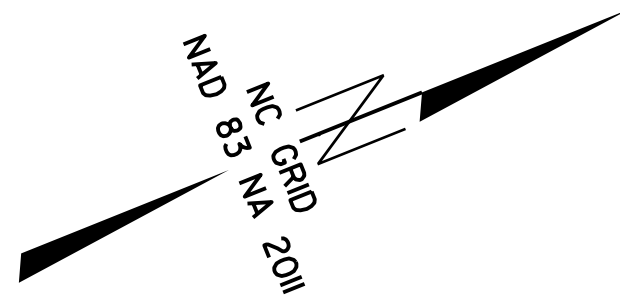
7: JAN 2020 08:40  
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 BVA181071



6/2/09

PROJECT REFERENCE NO.	SHEET NO.
R-5740	RW15
<b>Location and Surveys</b>	
JOHNSON, MIRMIRAN & THOMPSON 1130 SITUS COURT, SUITE 200 RALEIGH, NC 27606	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-		
PI Sta 153+61.43	PI Sta 156+89.45	PI Sta 162+13.10
$\Delta = 5^{\circ} 43' 44.7" (LT)$	$\Delta = 0^{\circ} 39' 07.7" (LT)$	$\Delta = 0^{\circ} 44' 11.7" (LT)$
$D = 2^{\circ} 53' 37.4"$	$D = 0^{\circ} 17' 11.3"$	$D = 0^{\circ} 22' 55.7"$
$L = 197.98'$	$L = 227.64'$	$L = 192.84'$
$T = 99.07'$	$T = 113.82'$	$T = 96.42'$
$R = 1,980.00'$	$R = 20,000.00'$	$R = 15,000.00'$
$SE = 0.06$	$SE = EXIST$	$SE = EXIST$

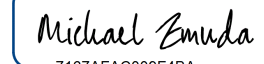


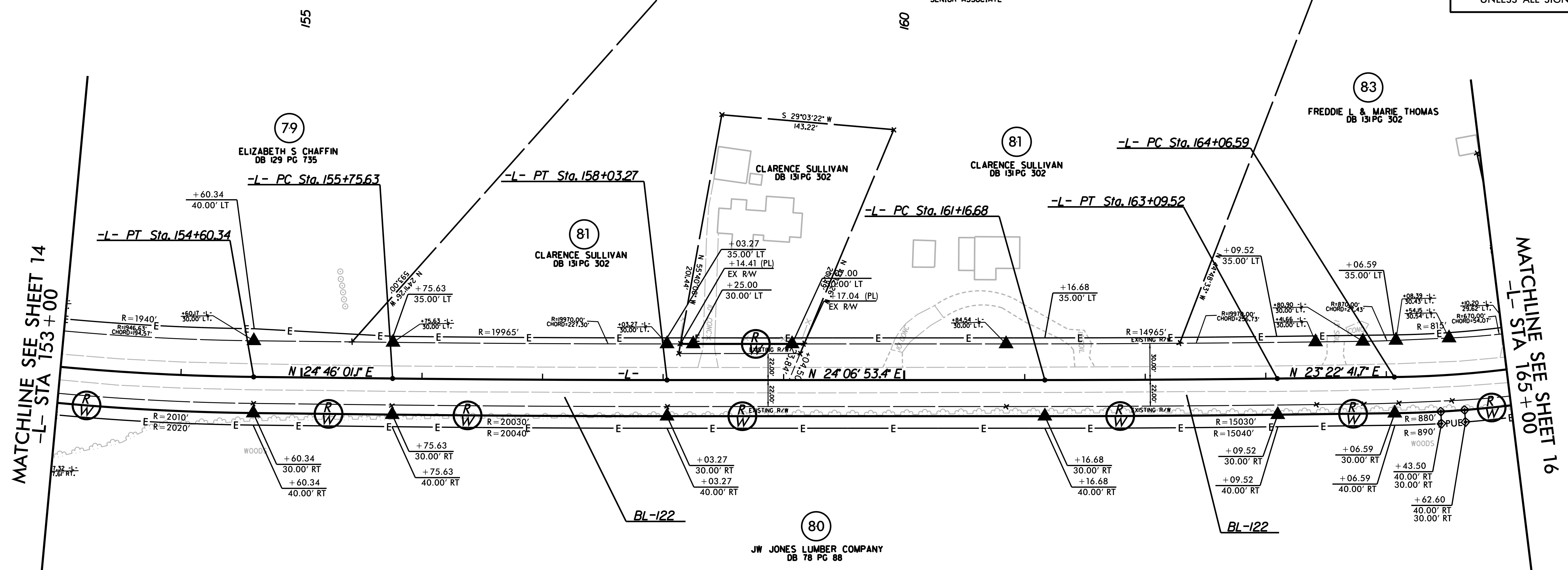
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WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 27TH OF JANUARY 2020

DocuSigned by:  
  
 MICHAEL W. ZMUDA, PLS "L-5205"  
 SENIOR ASSOCIATE



REVISIONS

**NOTES:**

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27-Jan-2020 08:40  
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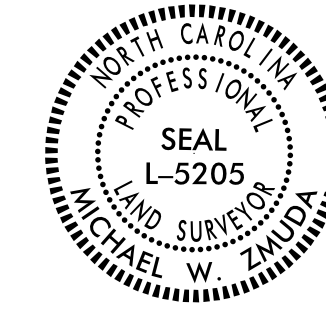




Location and Surveys

JOHNSON, MIRMIRAN & THOMPSON  
1130 SITUS COURT, SUITE 200  
RALEIGH, NC 27606

PROJECT SURVEYOR



Designed by:  
Michael W. Zmuda  
7187AFAC000F48A

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

-L-

PI Sta 209+64.24  
 $\Delta = 0'05'14.0''(RT)$   
 $D = 0'06'52.5''$   
 $L = 76.12'$   
 $T = 38.06'$   
 $R = 50,000.00'$   
 $SE = EXIST$

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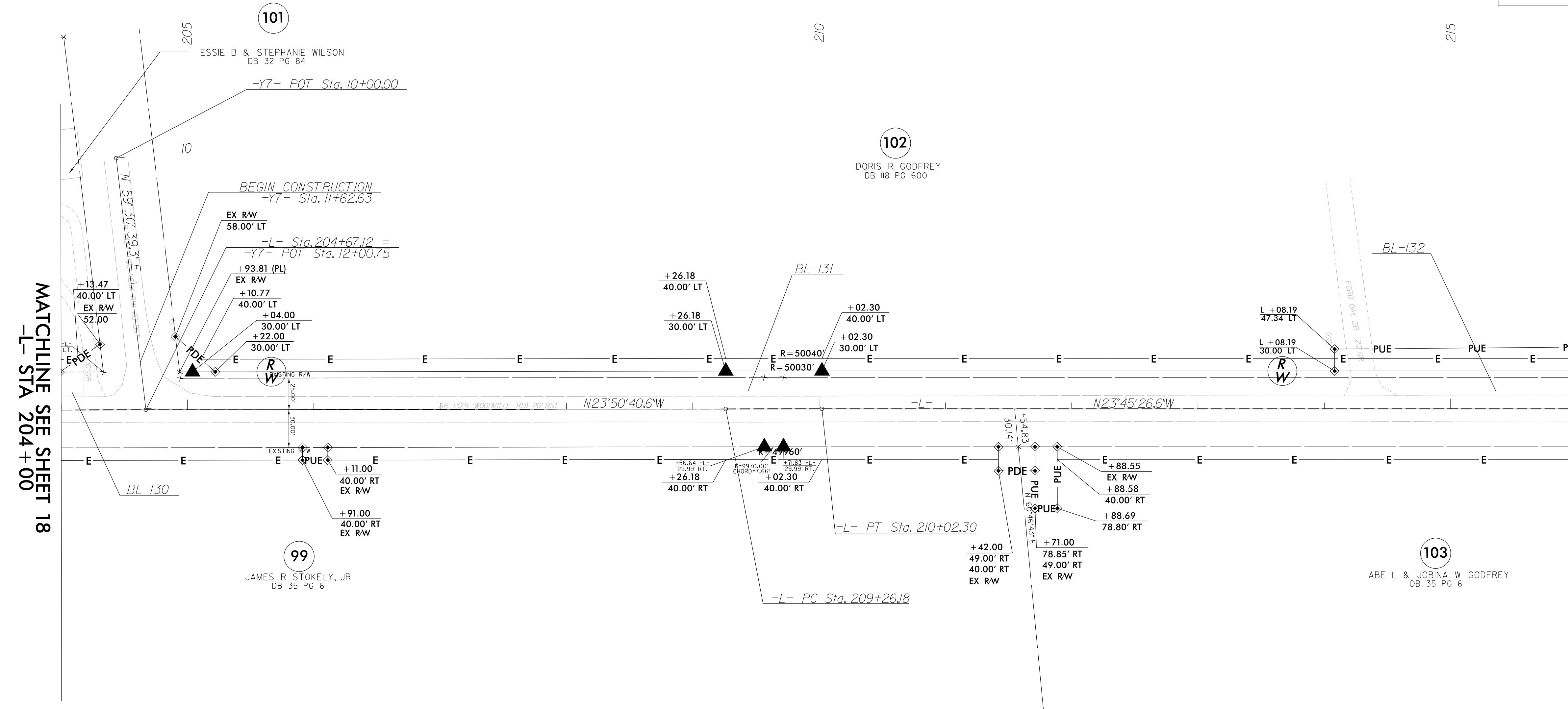
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WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 4TH OF FEBRUARY 2020

DocuSigned by:  
Michael W. Zmuda  
7187AFAC000F48A

MICHAEL W. ZMUDA, PLS #L-5205  
SENIOR ASSOCIATE

REVISIONS



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C:\AFC\000\_09\_35\_01\2018\18010937\_07\_SR\_1329\_woodville\_1\ADD\Surveys\FIELD\DCNN\RW-04\RS740\_1s\_rw19.dgn  
tlemmons AT RVA131071



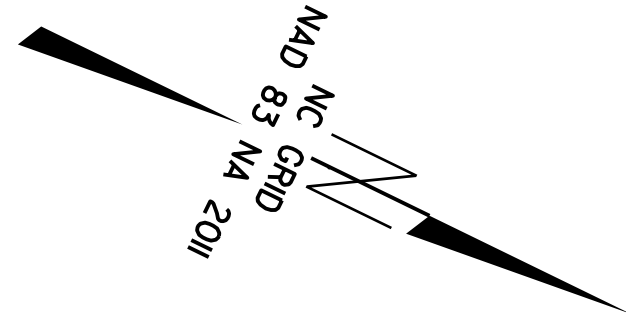
6/2/09

C:\Users\jz2018\OneDrive\Documents\2020\08\40\27\20181220\5740 RW Files and More\NON JMT\RW-04\R5740\_1s\_r+20.dgn

REVISIONS

MATCHLINE SEE SHEET 19  
-L- STA 216+00

MATCHLINE SEE SHEET 21  
-L- STA 230+00



-L-  
PI Sta 228+71.8  
Δ = 0° 16' 58.3" (LT)  
D = 0' 17' 11.3"  
L = 98.74'  
T = 49.37'  
R = 20,000.00'  
SE = EXIST

I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, R/W STAKING, PERFORMED UNDER MY RESPONSIBLE CHARGE MEETS NCDOT SURVEY STANDARDS AS DIRECTED IN THE NCDOT LOCATION AND SURVEY GUIDELINES AND PROCEDURES.


I FURTHER CERTIFY THAT THE DATA COMPILED CAME FROM AVAILABLE SURVEYS/MAPPING PERFORMED BY OTHERS AND PROVIDED TO ME BY THE NCDOT AND DO NOT CERTIFY TO THE ACCURACY OR QUALITY OF THE INDIVIDUAL DATA SOURCES.

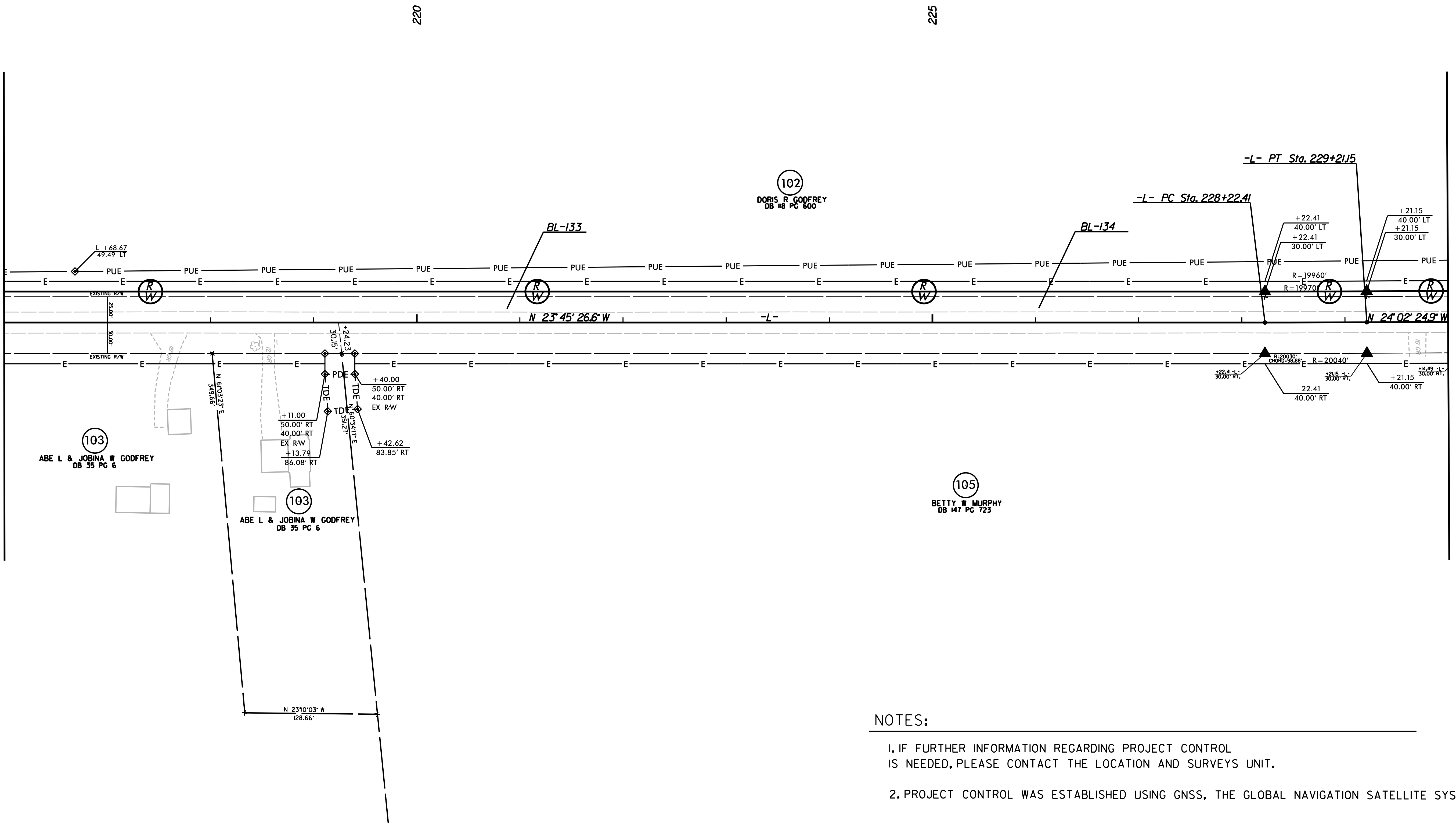
I FURTHER CERTIFY THAT THE RIGHT OF WAY AND PERMANENT EASEMENT POINTS SHOWN HEREIN AND OUTLINED IN THE TABLES SHOWN HEREON (LOCALIZED COORDINATES, STATION/OFFSET) HAVE BEEN CHECKED AND ARE ACCURATE REPRESENTATIONS OF THE RIGHT OF WAY AND PERMANENT EASEMENT POINTS DEPICTED ON THE CORRESPONDING HIGHWAY 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 27TH OF JANUARY 2020

DocuSigned by:  
Michael Zmuda  
7167AFAC000F4BA


MICHAEL W. ZMUDA, PLS "L-5205"  
SENIOR ASSOCIATE

PROJECT REFERENCE NO. R-5740	SHEET NO. RW20
<b>Location and Surveys</b>	
JOHNSON, MIRMIRAN & THOMPSON 1130 SITUS COURT, SUITE 200 RALEIGH, NC 27606	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

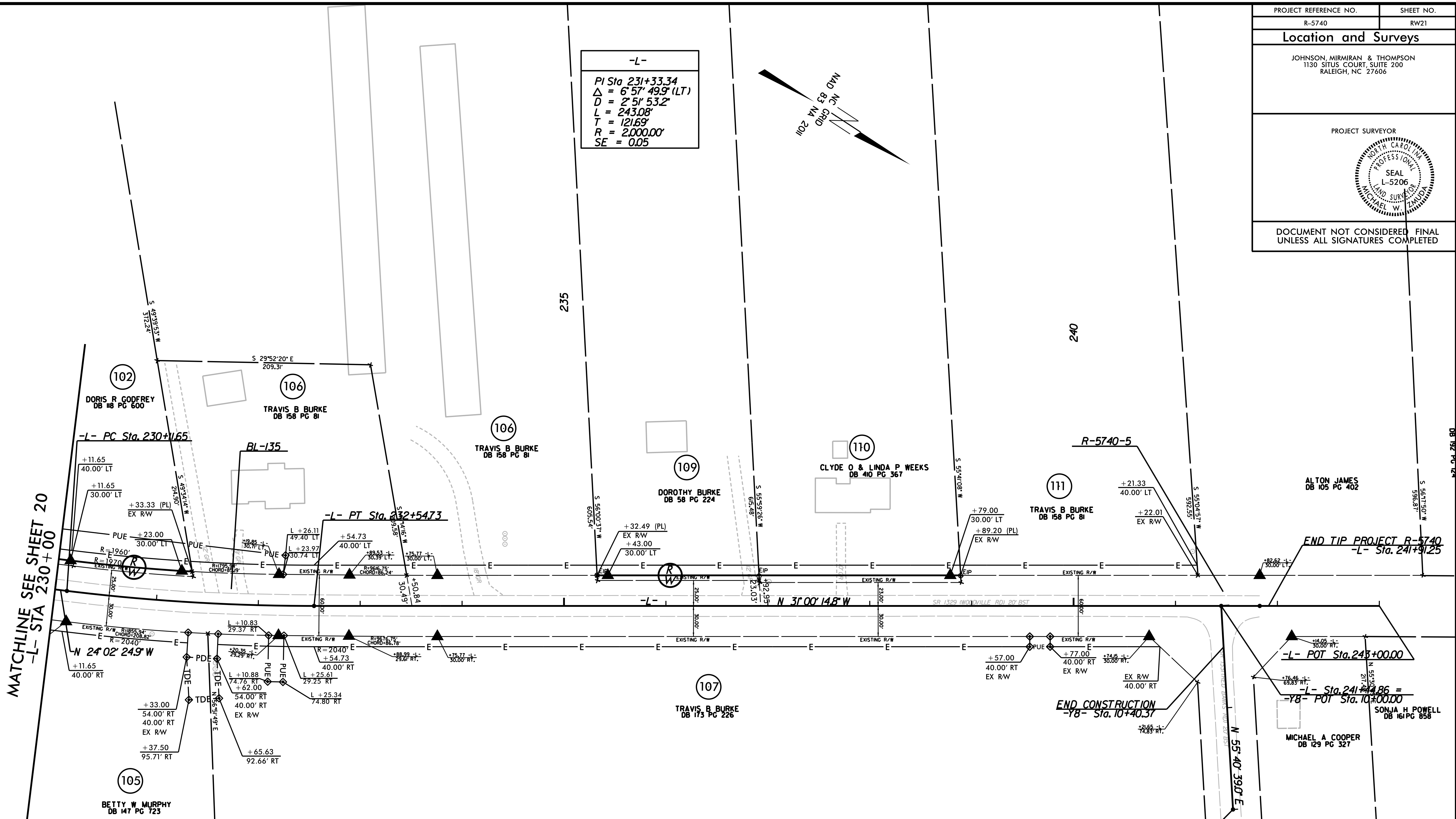
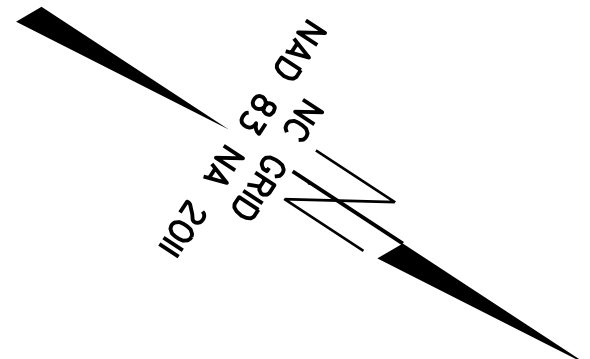


NOTES:

- 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.

PROJECT REFERENCE NO.	SHEET NO.
R-5740	RW21
<b>Location and Surveys</b>	
JOHNSON, MIRMIRAN & THOMPSON 1130 SITUS COURT, SUITE 200 RALEIGH, NC 27606	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-  
PI Sta 231+33.34  
 $\Delta = 6^{\circ}57'49.9''$  (LT)  
 $D = 2^{\circ}51'53.2''$   
 $L = 243.08'$   
 $T = 121.69'$   
 $R = 2,000.00'$   
 $SE = 0.05$



MATCHLINE SEE SHEET 20  
-L- STA 230+00

END TIP PROJECT R-5740  
-L- Sta. 241+91.25

END CONSTRUCTION  
-YB- Sta. 10+40.37

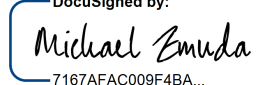
-YB- POT Sta. 12+00.00

I, MICHAEL W. ZMUDA, A PROFESSIONAL SURVEYOR IN THE STATE OF NORTH CAROLINA, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE FOLLOWING WORK ITEM, STATION/OFFSET(S) 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).

I FURTHER CERTIFY THAT THE DATA COMPILED CAME FROM AVAILABLE SURVEYS/MAPPINGS PERFORMED BY OTHERS AND PROVIDED TO ME BY THE 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(S)) 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 27TH OF JANUARY 2020

DocuSigned by:  
  
MICHAEL W. ZMUDA, PLS \*L-5206  
SENIOR ASSOCIATE

**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

6/2/09

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7/20/2018 12:20:01 PM  
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