

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5813	RW01	21

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

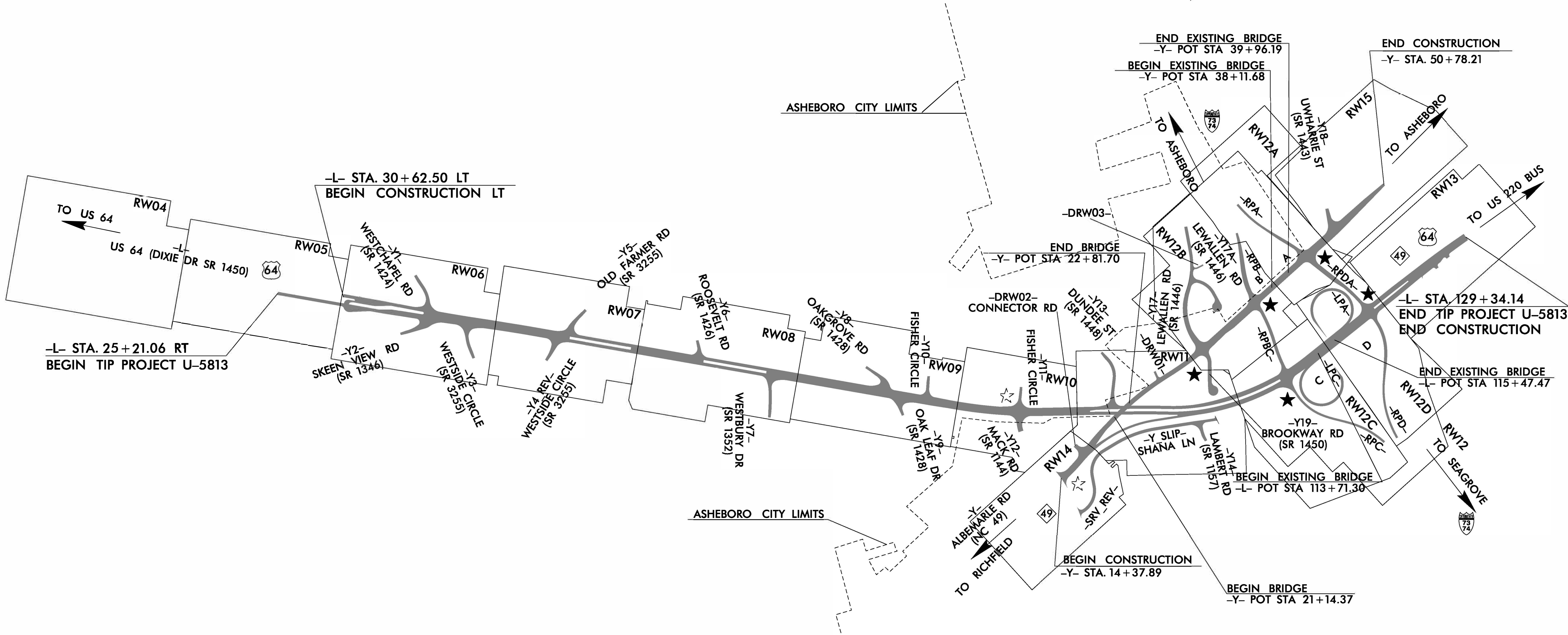
RANDOLPH COUNTY

**US 64 FROM ASHEBORO BYPASS TO
EAST OF I-73/I-74/US 220 TO ASHEBORO**



★ EXISTING SIGNAL

★ PROPOSED SIGNAL



TIP PROJECT: U-5813

GRAPHIC SCALE



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "U5813-2" WITH NAD 83/NA2011 STATE PLANE GRID COORDINATES OF NORTHING: 706358.334(ft) EASTING: 1749963.937(ft) ELEVATION: 854.823(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999857352 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U5813-2" TO -L- STATION 77+21.64 IS S 27° 58' 48" W 44.75'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

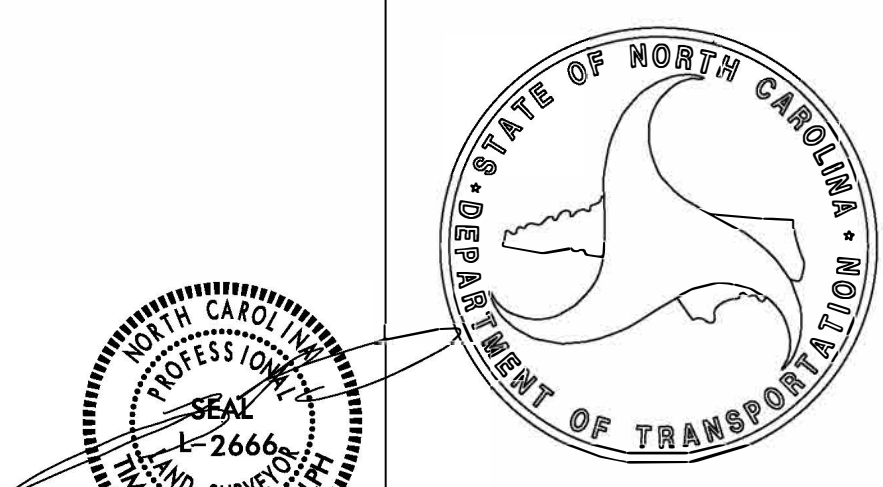


Dewberry Engineers Inc.
9300 Harris Corners Pkwy - Suite 220
Charlotte, NC 28259
Phone: 704.509.9513
Fax: 704.509.9537
www.dewberry.com
NCELS #F-0929

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
01/15/2021

LETTING DATE:
07/16/24



SIGNATURE: _____
Date: 07/06/2021

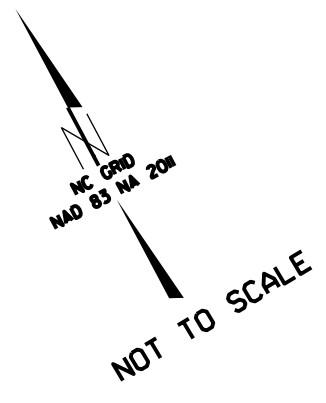
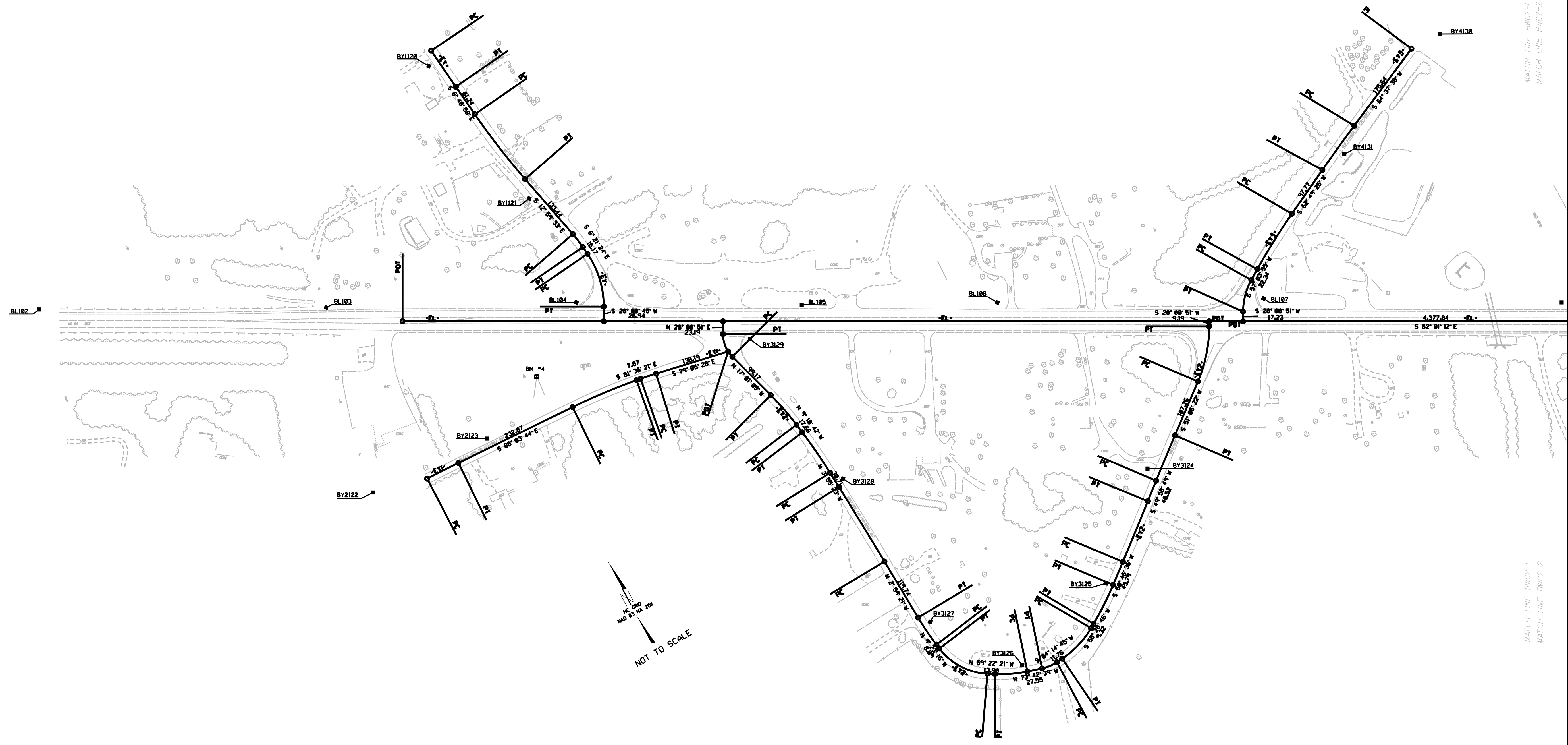
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6/2/09

PROJECT REFERENCE NO.	SHEET NO.
U-5813	RW02C-1
Location and Surveys	
Dewberry 9300 Harris Corners Parkway, Suite 220 Charlotte, NC 28269	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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.

REVISIONS

08-JAN-2019 12:34
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 gprof.ctb AT: MUD03W1GH

MATCH LINE RWC2-1
 MATCH LINE RWC2-2

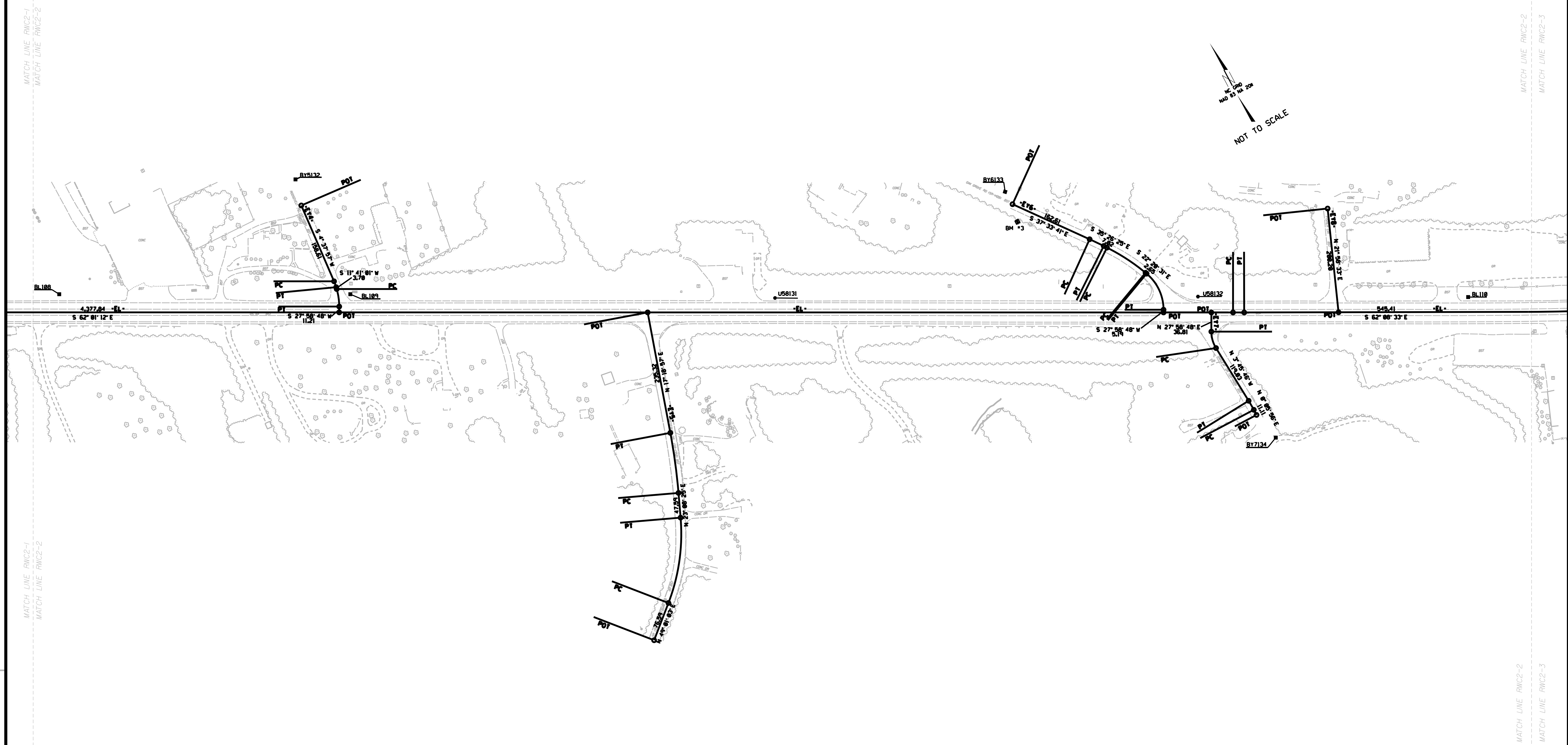
6/2/19

PROJECT REFERENCE NO.	SHEET NO.
U-5813	RW02C-2
Location and Surveys	
Dewberry 9300 Harris Corners Parkway, Suite 220 Charlotte, NC 28269	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS



NOTES:

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 sprofitt AT NUDSWTGH

MATCH LINE RWC2-1
 MATCH LINE RWC2-2

MATCH LINE RWC2-1
 MATCH LINE RWC2-2

MATCH LINE RWC2-2
 MATCH LINE RWC2-3

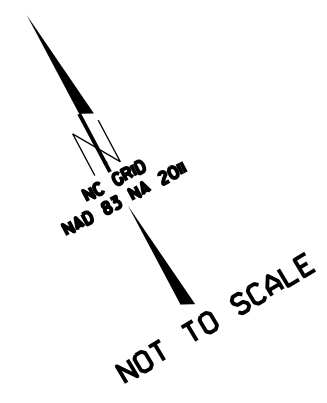
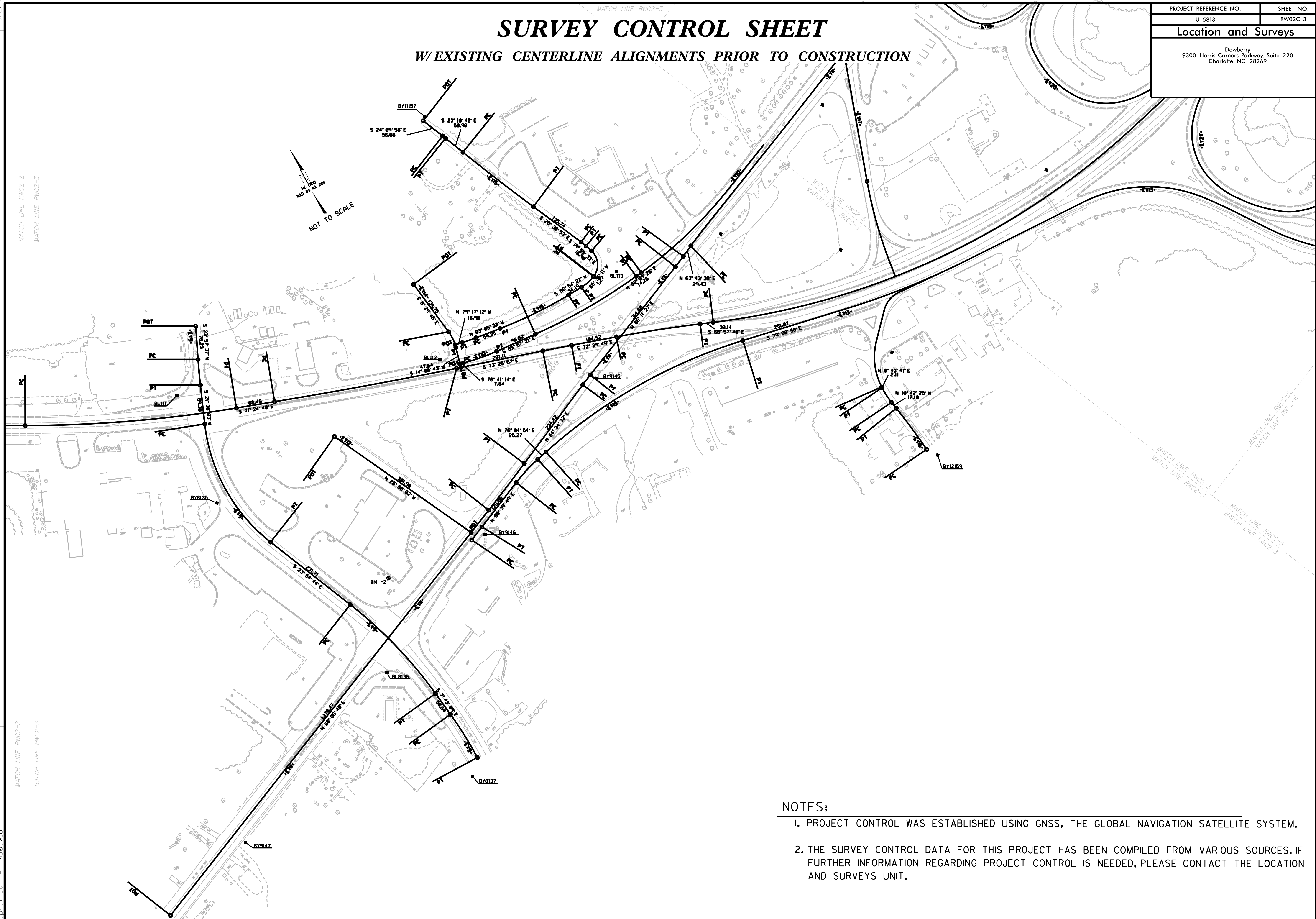
MATCH LINE RWC2-2
 MATCH LINE RWC2-3

6/2/19

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-5813	RW02C-3
Location and Surveys	
Dewberry 9300 Harris Corners Parkway, Suite 220 Charlotte, NC 28269	



REVISIONS:

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 sprofitt AT MD05WTH

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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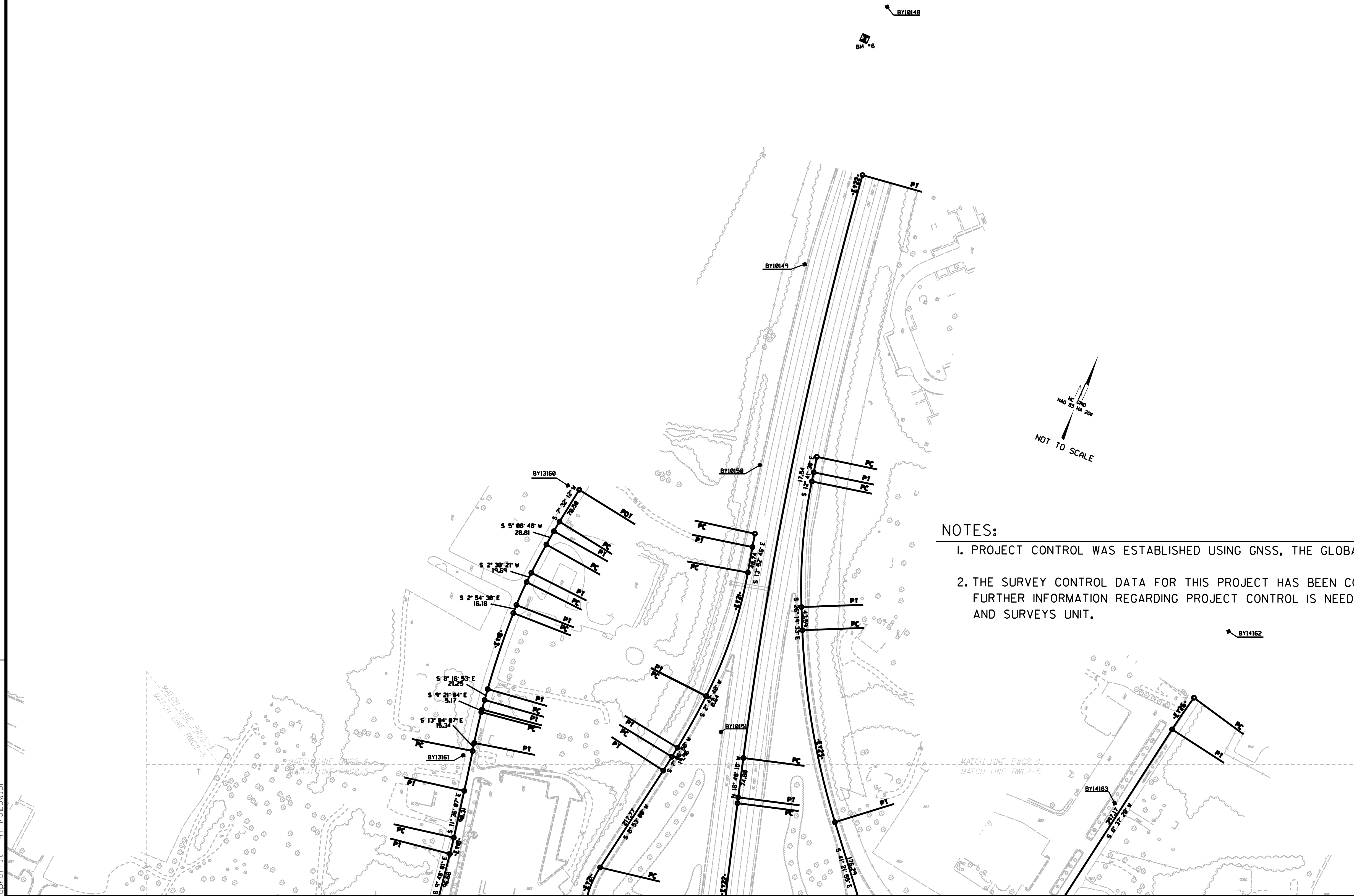
PROJECT REFERENCE NO.	SHEET NO.
U-5813	RW02C-4
Location and Surveys	
Dewberry 9300 Harris Corners Parkway, Suite 220 Charlotte, NC 28269	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS

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A:\N0351GH



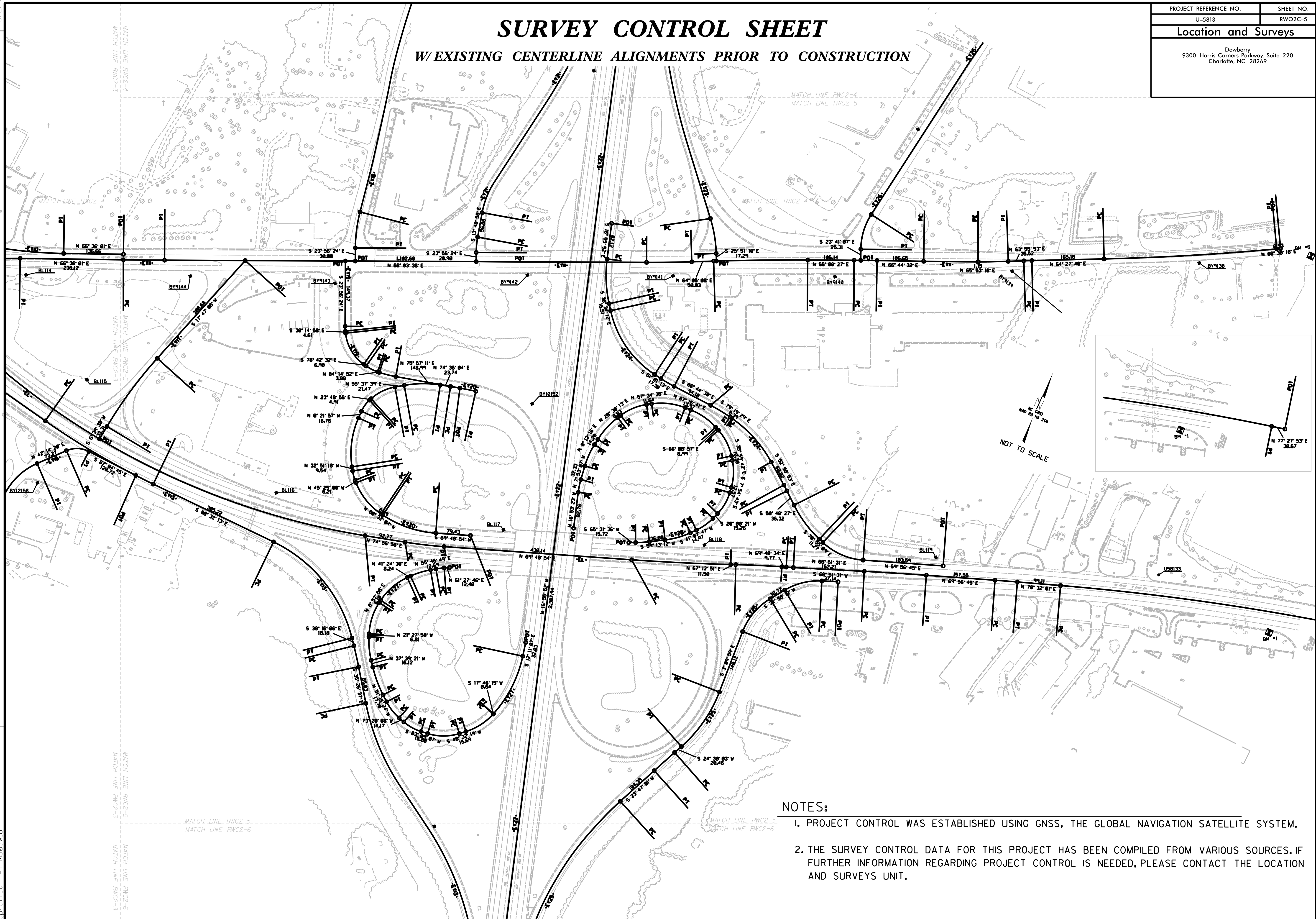
NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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PROJECT REFERENCE NO.	SHEET NO.
U-5813	RWO2C-5
Location and Surveys	
Dewberry 9300 Harris Corners Parkway, Suite 220 Charlotte, NC 28269	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



REVISIONS

09-JAN-2019 12:35
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 gprof\it At: NUD03W1GH

- 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.

6/2/19

PROJECT REFERENCE NO.	SHEET NO.
U-5813	RW02C-6
Location and Surveys	
Dewberry 9300 Harris Corners Parkway, Suite 220 Charlotte, NC 28269	

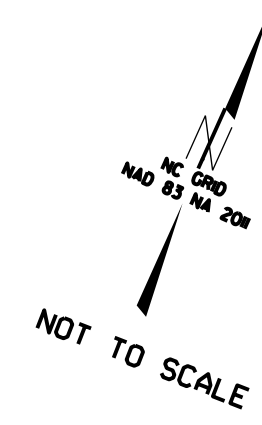
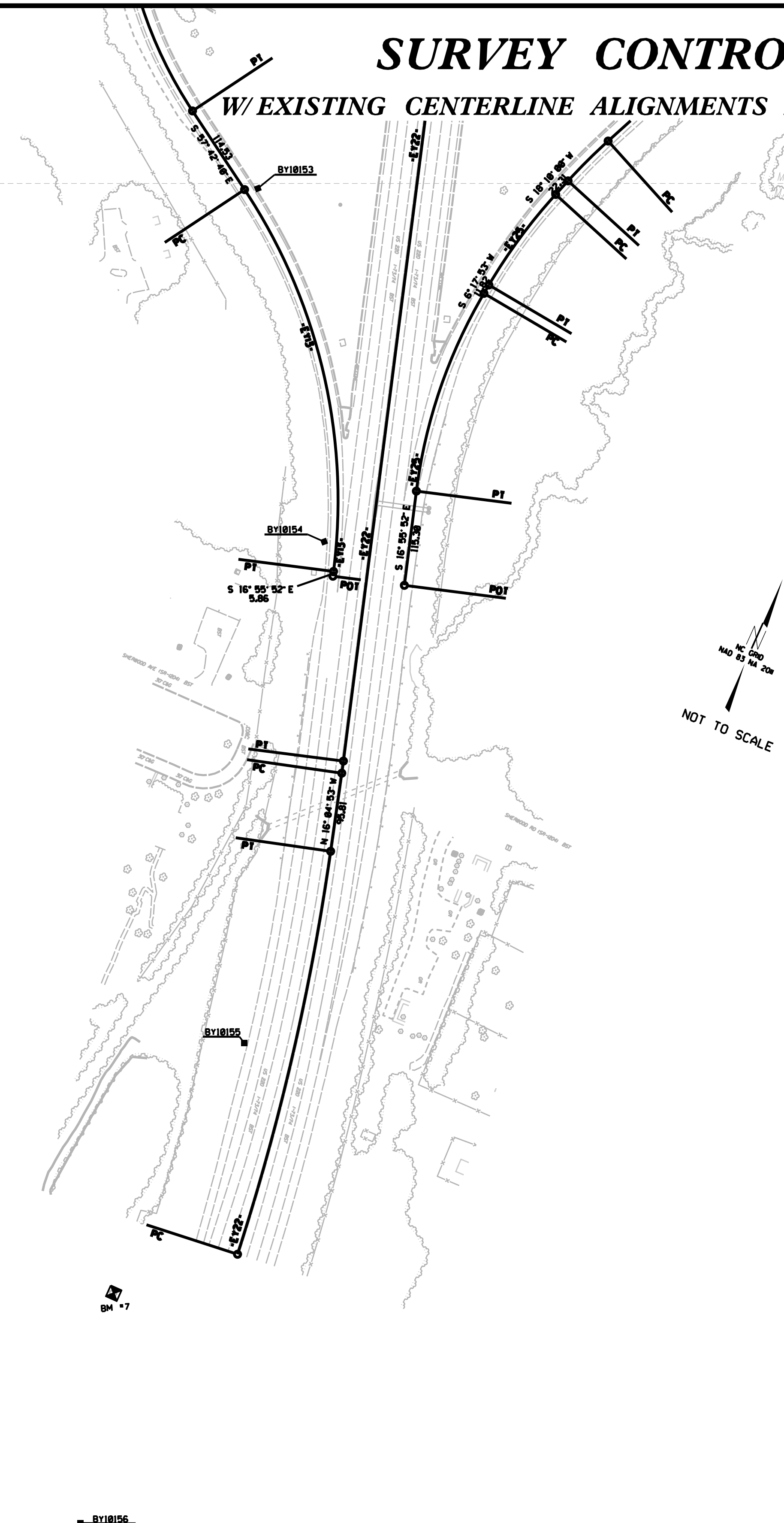
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

MATCH LINE RWC2-5
MATCH LINE RWC2-3

MATCH LINE RWC2-5
MATCH LINE RWC2-6

MATCH LINE RWC2-5
MATCH LINE RWC2-6



REVISIONS

08-JAN-2019 12:35
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 sprofitt AT MD05WIGH

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EY27		N	E	BEARING	DIST	DELTA	D	L	T	R
POT		705377.503	1753508.055	S 12°11'07.4" E	32.03					
LINE		705346.192	1753514.816	S 02°47'33.6" W	148.08	29°57'22.0"(RT)	20°00'00.0"	149.78	76.64	286.48
PC		705198.288	1753507.601							
CURVE		705197.675	1753507.405	S 17°46'14.6" W	0.64					
PT		705135.601	1753466.855	S 33°09'16.9" W	74.15	30°46'04.5"(RT)	41°00'00.0"	75.04	38.45	139.75
LINE		705125.212	1753455.096	S 48°32'19.1" W	15.69					
PC		705095.532	1753388.916	S 65°50'43.3" W	72.53	34°36'48.3"(RT)	47°00'00.0"	73.65	37.99	121.91
CURVE		705093.639	1753373.149	S 83°09'07.4" W	15.88					
PT		705097.480	1753328.415	N 85°05'30.5" W	44.90	23°30'44.2"(RT)	52°00'00.0"	45.22	22.93	110.18
LINE		705101.544	1753314.838	N 73°20'08.4" W	14.17					
PC		705123.249	1753273.503	N 62°17'46.4" W	46.69	22°04'43.9"(RT)	47°00'00.0"	46.98	23.78	121.91
CURVE		705134.327	1753259.697	N 51°15'24.4" W	17.70					
PT		705182.754	1753212.180	N 44°27'22.8" W	67.84	13°36'03.3"(RT)	20°00'00.0"	68.00	34.16	286.48
LINE		705195.518	1753202.330	N 37°39'21.2" W	16.12					
PC		705242.303	1753175.795	N 29°33'39.8" W	53.79	16°11'22.7"(RT)	30°00'00.0"	53.97	27.16	190.99
CURVE		705248.642	1753173.302	N 21°27'58.4" W	6.81					
PT		705323.385	1753165.117	N 06°15'00.1" W	75.19	30°25'56.8"(RT)	40°00'00.0"	76.08	38.96	143.24
LINE		705329.408	1753166.067	N 08°57'58.3" E	6.10					
PC		705401.826	1753200.124	N 25°11'14.1" E	80.03	32°26'31.6"(RT)	40°00'00.0"	81.11	41.67	143.24
CURVE		705408.005	1753205.574	N 41°24'30.0" E	8.24					
PT		705439.607	1753241.411	N 48°35'39.2" E	47.78	14°22'18.6"(RT)	30°00'00.0"	47.91	24.08	190.99
LINE		705446.744	1753251.905	N 55°46'48.5" E	12.69					
PC		705456.602	1753268.070	N 58°37'17.0" E	18.93	05°40'57.0"(RT)	30°00'00.0"	18.94	9.48	190.99
CURVE		705462.528	1753278.966	N 61°27'45.5" E	12.40					
PT										

EY28		N	E	BEARING	DIST	DELTA	D	L	T	R
POT		705660.783	1753500.959	N 16°53'23.1" W	82.76					
LINE		705739.972	1753476.915	N 12°23'14.9" W	29.98	09°00'16.3"(RT)	30°00'00.0"	30.02	15.04	190.99
PC		705769.258	1753470.482							
CURVE		705801.279	1753466.048	N 07°53'06.8" W	32.33					
PT		705854.735	1753466.196	N 00°09'34.6" E	53.46	16°05'22.9"(RT)	30°00'00.0"	53.63	26.99	190.99
LINE		705868.787	1753468.222	N 08°12'16.1" E	14.20					
PC		705932.673	1753489.418	N 18°21'14.4" E	67.31	20°17'56.5"(RT)	30°00'00.0"	67.66	34.19	190.99
CURVE		705940.430	1753493.630	N 28°30'12.6" E	8.83					
PT		705987.145	1753537.254	N 43°02'25.2" E	63.92	29°04'25.1"(RT)	45°00'00.0"	64.61	33.02	127.32
LINE		705993.386	1753547.079	N 57°34'37.7" E	11.64					
PC		706016.720	1753620.760	N 72°25'39.3" E	77.29	29°42'03.2"(RT)	38°00'00.0"	78.16	39.98	150.78
CURVE		706017.383	1753634.712	N 87°16'40.9" E	13.97					
PT		706004.677	1753702.841	S 79°26'07.9" E	69.30	26°34'22.3"(RT)	38°00'00.0"	69.93	35.60	150.78
LINE		706001.041	1753711.064	S 66°08'56.7" E	8.99					
PC		705959.421	1753762.593	S 51°04'19.3" E	66.24	30°09'14.9"(RT)	45°00'00.0"	67.01	34.30	127.32
CURVE		705951.091	1753768.644	S 35°59'41.8" E	10.30					
PT		705893.787	1753791.742	S 21°57'12.2" E	61.78	28°04'59.2"(RT)	45°00'00.0"	62.41	31.84	127.32
LINE		705881.332	1753793.473	S 07°54'42.6" E	12.57					
PC		705826.355	1753787.649	S 06°02'49.2" W	55.28	27°55'03.6"(RT)	50°00'00.0"	55.84	28.48	114.59
CURVE		705812.019	1753782.429	S 20°00'21.0" W	15.26					
PT		705771.829	1753758.692	S 30°34'04.0" W	46.68	21°07'25.8"(RT)	45°00'00.0"	46.94	23.74	127.32
LINE		705760.550	1753748.842	S 41°07'46.9" W	14.97					
PC		705722.090	1753702.723	S 50°10'29.4" W	60.05	18°05'25.0"(RT)	30°00'00.0"	60.30	30.40	190.99
CURVE		705703.626	1753671.724	S 59°13'11.9" W	36.08					
PT		705689.011	1753643.799	S 62°22'24.2" W	31.52	06°18'24.6"(RT)	20°00'00.0"	31.53	15.78	286.48
LINE		705682.500	1753629.495	S 65°31'36.5" W	15.72					
POT										

REVISIONS

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PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. U-5813 SHEET NO. RWD2-1 Location and Surveys

Table L with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PRC, PT, PC, PT, PC, PRC, PCC, PT, PC, PCC, PT.

Table Y7 with columns: TYPE, STATION, NORTH, EAST. Data points for PC, PT, POT.

Table Y17 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PRC, PT, POT.

Table RPB with columns: TYPE, STATION, NORTH, EAST. Data points for PC, CS, SRS, SC, CS, PC, CS, ST, TS, SC, PT, POT.

Table Y with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PRC, PRC, PT, PC, PRC, PT, PC, PT.

Table Y8 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, POT.

Table Y17A with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, PC, PT, POT.

Table Y1 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PRC, PT.

Table Y9 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, POT.

Table Y18 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, POT.

Table RPB with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PRC, PT, POT.

Table Y2 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, POT.

Table Y10 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, POT.

Table Y19 with columns: TYPE, STATION, NORTH, EAST. Data points for PC, PT, PC, PT, POT.

Table RPC with columns: TYPE, STATION, NORTH, EAST. Data points for POT, TS, SC, CS, SC, PT, CS, SRS, SC, PC, PT, POT.

Table Y3 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, POT.

Table Y11 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, POT.

Table Y20 with columns: TYPE, STATION, NORTH, EAST. Data points for PC, PT, PC, PT, PC, PT, PC, PT.

Table RPD with columns: TYPE, STATION, NORTH, EAST. Data points for PC, CS, SC, PT, CS, SRS, SC, PT, POT.

Table Y4_REV with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT.

Table Y12 with columns: TYPE, STATION, NORTH, EAST. Data points for PC, PT, PC, PT, PC, PT, PC, PT, POT.

Table LPA with columns: TYPE, STATION, NORTH, EAST. Data points for POT, TS, SC, PT, CS, ST, POT.

Table RPD with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, POT.

Table Y5 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, PC, PT.

Table Y13 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PRC, PT, PC, PT, POT.

Table LPC with columns: TYPE, STATION, NORTH, EAST. Data points for POT, TS, SC, PT, CS, ST, POT.

Table SRV_REV with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, PC, PT, PC, PT, PC, PT, POT.

Table Y6 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, POT.

Table Y14 with columns: TYPE, STATION, NORTH, EAST. Data points for POT, PC, PT, POT.

Table RPA with columns: TYPE, STATION, NORTH, EAST. Data points for PC, CS, SC, CS, SRS, SC, PC, PT, POT.

Table Y_SLIP with columns: TYPE, STATION, NORTH, EAST. Data points for PC, PT, POT.

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REVISIONS

07/11/2019/08:00:00/08/09/09/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. U-5813 SHEET NO. RW03E-2 Location and Surveys Dewberry logo and seal, Timothy A Rudolph, PLS L-2666 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 140 rows of permanent easement data.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 50 rows of permanent easement data.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 10 rows of permanent easement data.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 4 rows of permanent easement data.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 4 rows of permanent easement data.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 4 rows of permanent easement data.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 5 rows of permanent easement data.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 6 rows of permanent easement data.

I, TIMOTHY A. RUDOLPH, certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from March 2021 to January 2022, and all coordinates are based on NAD83(2011); That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 18th day of March, 2022.

Timothy A Rudolph, Professional Land Surveyor L-2666


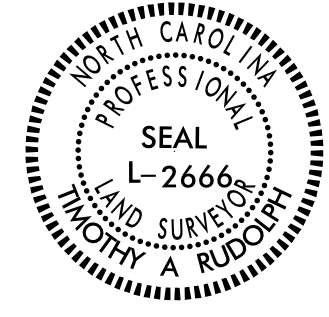
NOTES:

- 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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

REVISIONS PER MEMO'S DATED (02/5/2021, 2/19/2021, 3/11/2021, 5/3/2021, 6/22/2021, 8/8/2021, 09/24/2021 10/11/2021)

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RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. U-5813	SHEET NO. RW03E-3
Location and Surveys	
 <small>Dewberry Engineers Inc. 3500 Harris Center Plaza - Suite 220 Charlotte, NC 28209 Tel: 704-539-8937 www.dewberry.com NCBLS #7-0229</small>	
	
Timothy A Rudolph, PLS L-2666	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9	10+50.00	-30.12	706183.2805	1749922.8062

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y18	11+40.00	32.00	706609.9862	1753862.5737

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y10	10+91.83	35.07	706263.5068	1750249.5305
Y10	11+17.73	-19.90	706308.0903	1750208.2397

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y19	10+94.43	-57.00	705642.2898	1752418.7077
Y19	12+25.00	-63.16	705768.5005	1752452.7221
Y19	12+25.00	-32.94	705759.2685	1752481.5031

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y13	11+15.00	-55.00	705764.3718	1751606.7656
Y13	11+17.00	-76.25	705774.9785	1751588.2437
Y13	11+65.64	-31.85	705800.9042	1751648.7833

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPA	12+90.56	-77.03	706884.7313	1753247.8936
RPA	17+85.00	-120.00	706532.6777	1753572.4849
RPA	17+85.00	-80.79	706508.3591	1753541.7259
RPA	18+35.00	-120.00	706488.8663	1753605.6789
RPA	18+35.00	-90.95	706471.8089	1753582.1648

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y14	10+13.50	30.54	705171.0092	1752312.8124
Y14	10+32.42	-27.84	705180.1568	1752252.0123
Y14	10+47.50	-62.50	705194.1361	1752215.6583
Y14	10+75.00	-65.00	705228.5667	1752212.3902
Y14	10+95.00	-56.27	705252.7123	1752222.8952
Y14	11+00.00	116.89	705235.8971	1752395.2813

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPB	9+14.19	321.74	706943.7943	1752714.1322
RPB	9+36.12	291.20	706932.3078	1752747.9174
RPB	16+51.57	81.27	706283.8948	1752934.5929
RPB	16+91.15	109.50	706236.2843	1752907.9552
RPB	17+13.17	71.80	706213.9510	1752947.8723

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y17	18+40.00	-75.00	706684.6163	1752573.7089
Y17	18+40.00	-35.00	706678.3427	1752613.2139
Y17	18+53.00	46.17	706679.2974	1752695.4282
Y17	18+55.00	74.00	706677.6184	1752723.2892
Y17	18+66.00	-72.00	706708.0386	1752580.0517
Y17	18+66.00	-62.00	706706.7269	1752589.9653
Y17	18+71.18	-64.31	706712.1644	1752588.3549
Y17	18+75.00	58.00	706699.9098	1752710.1090
Y17	18+75.00	73.00	706697.9423	1752724.9795
Y17	18+83.00	-50.00	706722.0061	1752604.0914
Y17	18+83.00	-35.00	706720.0387	1752618.9618
Y17	20+60.00	65.00	706882.3934	1752741.3135
Y17	20+60.00	50.00	706884.3608	1752726.4431

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
SRV_REV	10+87.82	30.00	704890.4899	1751163.4697
SRV_REV	10+87.82	56.56	704865.5029	1751172.4809
SRV_REV	11+12.18	30.00	704901.5745	1751189.1822
SRV_REV	11+12.18	53.20	704880.8696	1751199.6457
SRV_REV	14+54.65	40.00	705208.5999	1751348.5983
SRV_REV	14+93.99	40.00	705235.6813	1751364.5358
SRV_REV	15+00.00	138.00	705179.4121	1751444.8273
SRV_REV	15+70.50	121.00	705208.4010	1751451.9670
SRV_REV	20+65.00	117.00	705265.6866	1751859.7269
SRV_REV	20+65.00	86.00	705296.5150	1751862.9841
SRV_REV	22+13.00	131.00	705230.4519	1751997.3529
SRV_REV	22+13.00	100.00	705261.0525	1752002.3133

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y17A	12+35.86	-63.50	706228.9270	1752673.5735
Y17A	12+36.11	-48.11	706232.0487	1752688.6478
Y17A	12+57.69	-48.52	706253.1676	1752684.2168
Y17A	12+57.69	-65.98	706249.9124	1752667.0653
Y17A	13+27.20	-35.00	706318.3022	1752683.6808

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
DRW02	10+73.48	-43.28	705408.4843	1751213.2254

REVISIONS PER MEMO'S DATED (02/5/2021, 2/19/2021, 3/11/2021,5/3/2021, 6/22/2021, 8/8/2021, 09/24/2021 10/11/2021)

P:\MIS\2022\07\17\Survey\Deliverable\E_Sheets\5813_1s_rw03E-3.dgn
6/2/2022 10:47:53 AM AT F:\14877A

I, TIMOTHY A. RUDOLPH, certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from March 2021 to January 2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 18th day of March, 2022.

DocuSigned by:

 Timothy A Rudolph
 Professional Land Surveyor L-2666

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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

6/2/19

PROJECT REFERENCE NO.	SHEET NO.
U-5813	RW04

Location and Surveys

Dewberry
 Dewberry Engineers Inc.
 9500 Hester Center Drive - Suite 220
 Cary, NC 27513
 Tel: 919.236.9897
 www.dewberry.com
 NC28113 #11022

Timothy A. Rudolph, PLS L-2666

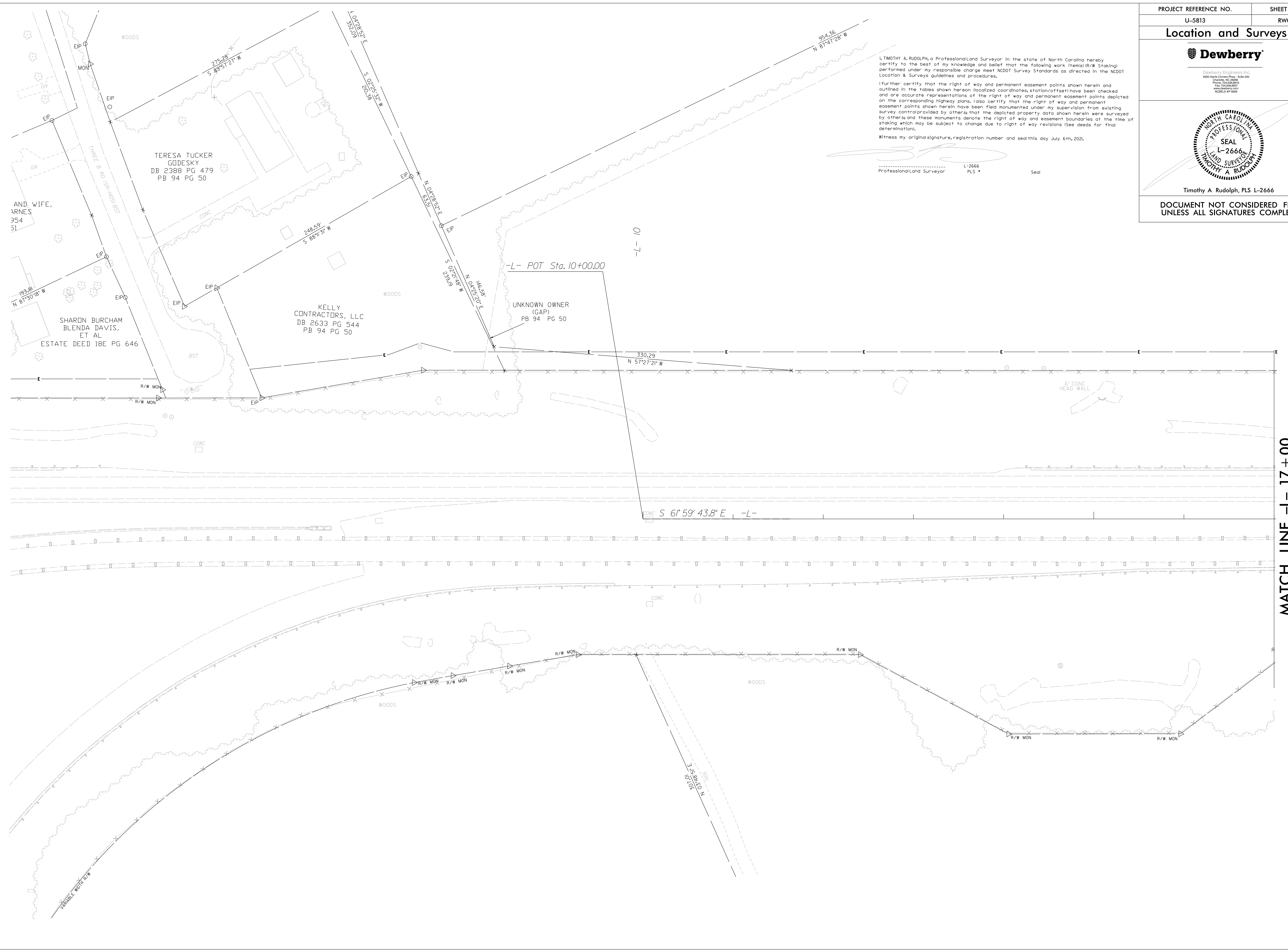
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, TIMOTHY A. RUDOLPH, 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) (B/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 day July 6th, 2021.

(Signature)
 Professional Land Surveyor L-2666 PLS * Seal



REVISIONS

P:\50132891\460\Drawings\E SERIES\U5813_1s_rw04.dgn
 6/2/2021 11:46 AM
 T.A. RUDOLPH

MATCH LINE -L- 17 +00
SEE SHEET 5

Location and Surveys



Dewberry Engineers Inc.
3000 Harris Center Drive, Suite 200
Charlotte, NC 28209
Tel: 704.269.2887
Fax: 704.269.2887
www.dewberry.com
LICENSE # 10222



Timothy A. Rudolph, PLS L-2666

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, TIMOTHY A. RUDOLPH, 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 1 through 4) 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 day July 6th, 2021.

Professional Land Surveyor L-2666 PLS Seal

KELLY CONTRACTORS, LLC
DB 2420 PG 1602
PB 4 PG 60

JHS MASTER CAPITAL, LLC
DB 2302 PG 1745
MB 4 PG 60

AMOS & LOUELLA NEWSOME ESTATE DEED 9E PG 108
DB 1126 PG 557
PB 11 PG 46

NCDOT
DB 2504 PG 1893
DB 2504 PG 1897
DB 2494 PG 159
DB 2504 PG 1893

MARTHA B BRASWELL
DB 1177 PG 1854
PB 11 PG 46

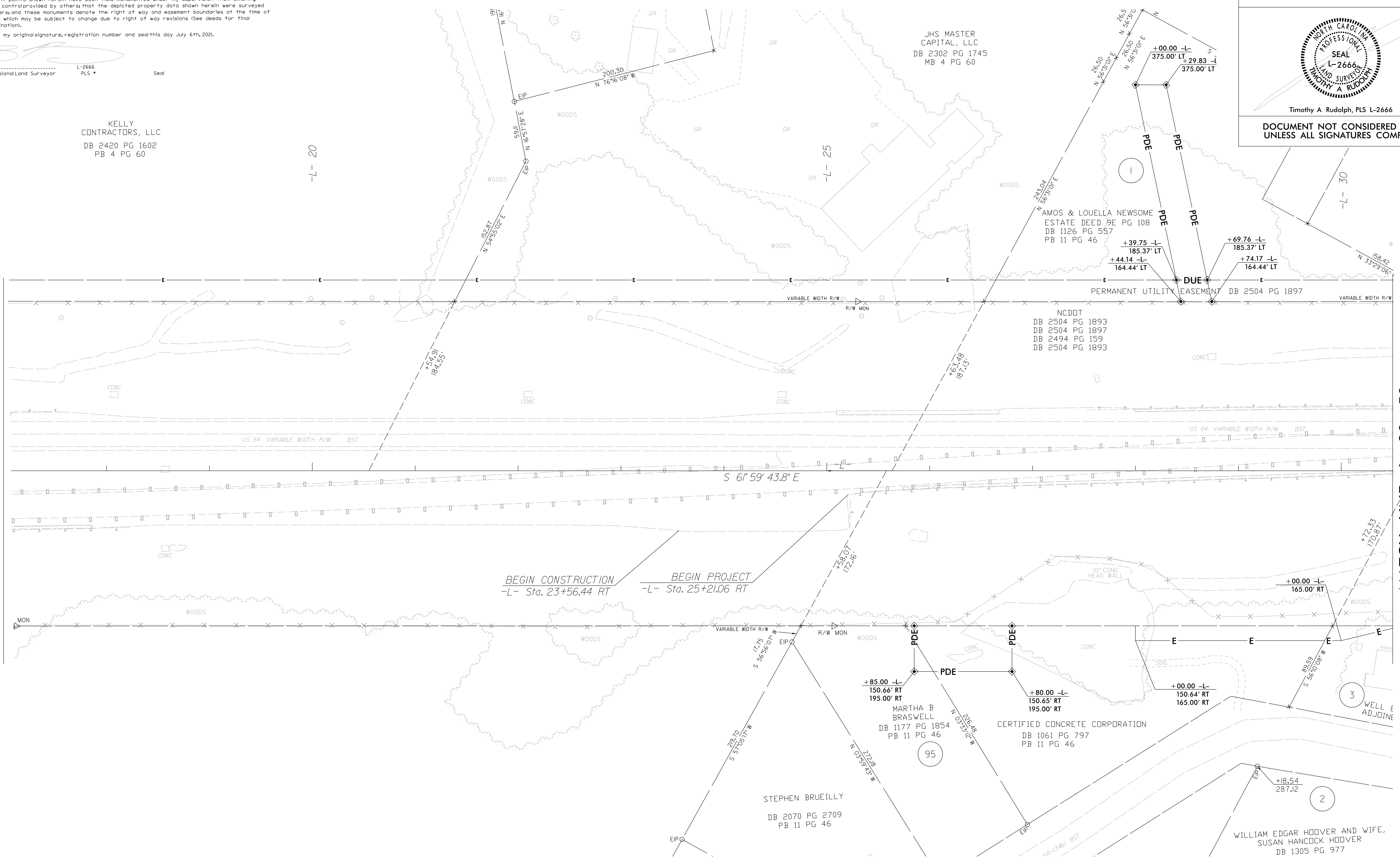
CERTIFIED CONCRETE CORPORATION
DB 1061 PG 797
PB 11 PG 46

STEPHEN BRUEILLY
DB 2070 PG 2709
PB 11 PG 46

WILLIAM EDGAR HOOVER AND WIFE, SUSAN HANCOCK HOOVER
DB 1305 PG 977

MATCH LINE -L- 17 + 00
SEE SHEET 4

MATCH LINE -L- 30 + 50
SEE SHEET 6



REVISIONS

6/2/19

DATE: 07/06/2021 TIME: 11:52:00 AM
DRAWN: J. SHERREES (UR5833) LSC: cm40654dgr
CHECKED: J. SHERREES (UR5833) LSC: cm40654dgr
DATE: 07/06/2021 TIME: 11:52:00 AM

NOTES:


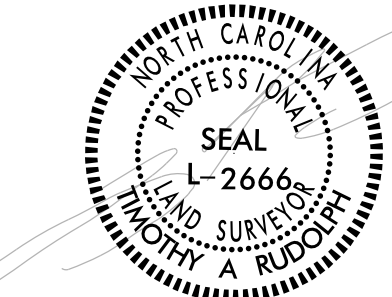
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED _____ TO _____.

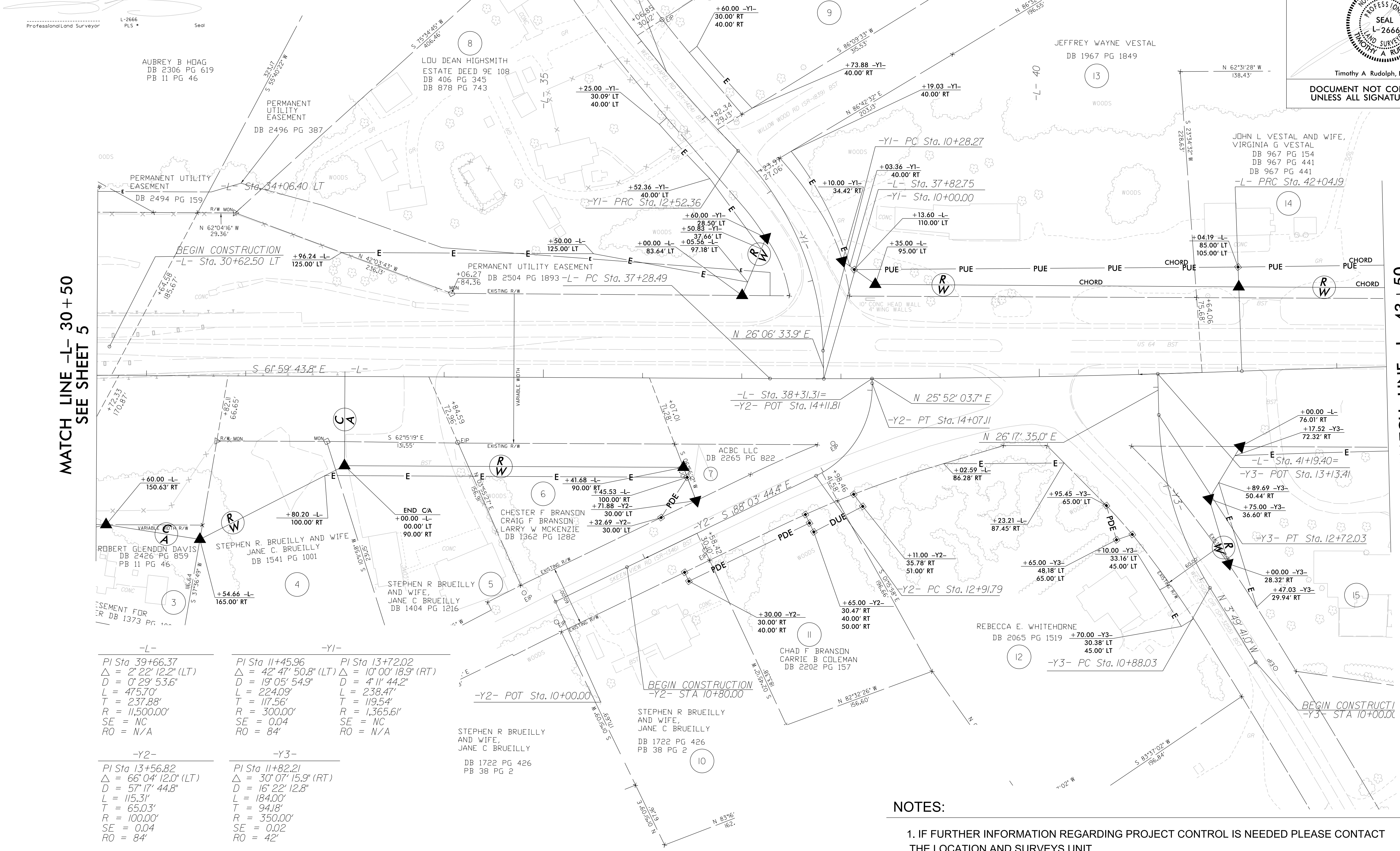
TIMOTHY A. RUDOLPH, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (Items)(R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and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

Further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (located, 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 day June 6th, 2021.

Professional Land Surveyor L-2666 PLS Seal

PROJECT REFERENCE NO.	SHEET NO.
U-5813	RW06
Location and Surveys	
	
Dewberry Engineers Inc. 9000 Harris Corner Pkwy, Suite 200 Charlotte, NC 28226 Tel: 704.528.0800 www.dewberry.com NCELS #P-0029	
	
Timothy A Rudolph, PLS L-2666	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCH LINE -L- 30 + 50 SEE SHEET 5

MATCH LINE -L- 43 + 50 SEE SHEET 7

-L-	-Y1-	-Y2-
PI Sta 39+66.37	PI Sta 11+45.96	PI Sta 13+72.02
$\Delta = 2' 22'' 12.2'' (LT)$	$\Delta = 42' 47'' 50.8'' (LT)$	$\Delta = 10' 00'' 18.9'' (RT)$
$D = 0' 29'' 53.6''$	$D = 19' 05'' 54.9''$	$D = 4' 11'' 44.2''$
$L = 475.70'$	$L = 224.09'$	$L = 238.47'$
$T = 237.88'$	$T = 117.56'$	$T = 119.54'$
$R = 11,500.00'$	$R = 300.00'$	$R = 1,365.61'$
$SE = NC$	$SE = 0.04$	$SE = NC$
$RO = N/A$	$RO = 84'$	$RO = N/A$
-Y2-	-Y3-	
PI Sta 13+56.82	PI Sta 11+82.21	
$\Delta = 66' 04'' 12.0'' (LT)$	$\Delta = 30' 07'' 15.9'' (RT)$	
$D = 57' 17'' 44.8''$	$D = 16' 22'' 12.8''$	
$L = 115.31'$	$L = 184.00'$	
$T = 65.03'$	$T = 94.18'$	
$R = 100.00'$	$R = 350.00'$	
$SE = 0.04$	$SE = 0.02$	
$RO = 84'$	$RO = 42'$	

- 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.
 3. RIGHT OF WAY MONUMENTATION ESTABLISHED _____ TO _____.

REVISIONS

P:\5813\2841\600\SURVEY\NE SERIES\U5813.1s.rw06.dgn
6/2/2021 11:56 AM
T.A. Rudolph

Location and Surveys



Dewberry Engineers Inc.
 9000 Harris Corner Pkwy, Suite 210
 Charlotte, NC 28215
 Phone: 704.262.0000
 Fax: 704.262.0007
 www.dewberry.com
 NCESLS #P-0029



Timothy A. Rudolph, PLS L-2666

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, TIMOTHY A. RUDOLPH, 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) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

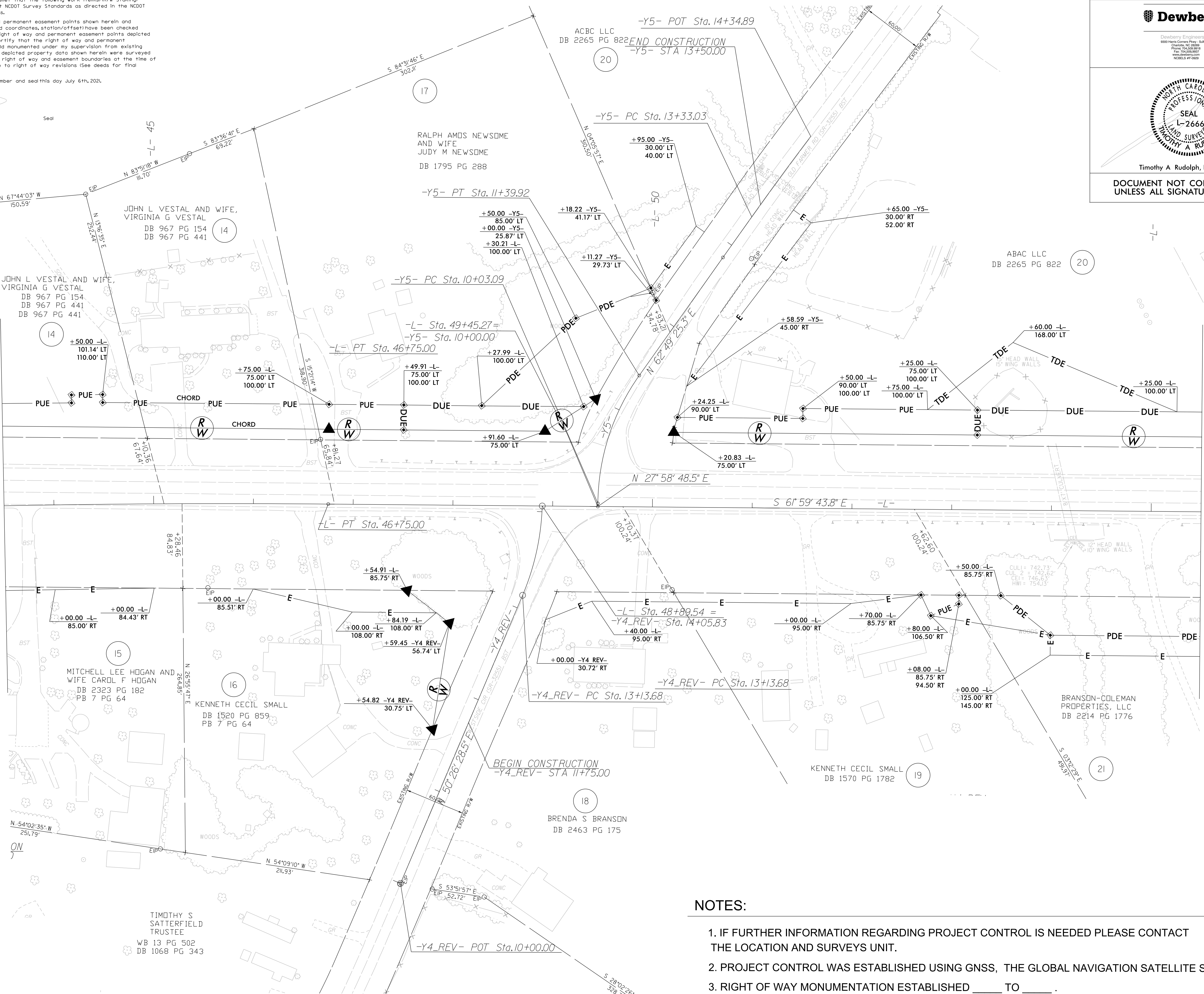
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Witness my original signature, registration number and seal this day July 6th, 2011.

Professional Land Surveyor
 L-2666
 PLS

MATCH LINE -L- 43 + 50
SEE SHEET 6

MATCH LINE -L- 55 + 50
SEE SHEET 8



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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

REVISIONS

P:\50132837\ROAD SURVEYS\U5813.1s.r.w\07.dgn
 6/2/09 10:20 AM
 T.A. Rudolph

6/2/2019



TIMOTHY A. RUDOLPH, 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) (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 day July 6th, 2021.

DocuSigned by:
Timothy A Rudolph
 088D28678F548D
 Professional Land Surveyor L-2666
 FLS *

PARCEL NO.	PARCEL OWNER	DEED BOOK/PAGE
29	RICHARD DOSIER CRIDER AND WIFE, DOLLIE FRYER CRIDER	DB 2062 PG 640 PB 13 PG 45

PROJECT REFERENCE NO. U-5813	SHEET NO. RW08
Location and Surveys	
 <small>Dewberry Engineers Inc. 9000 North Carolina Parkway, Suite 200 Charlotte, NC 28269 Tel: 704.535.8877 www.dewberry.com NCELS #1-0809</small>	
 Timothy A Rudolph, PLS L-2666	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

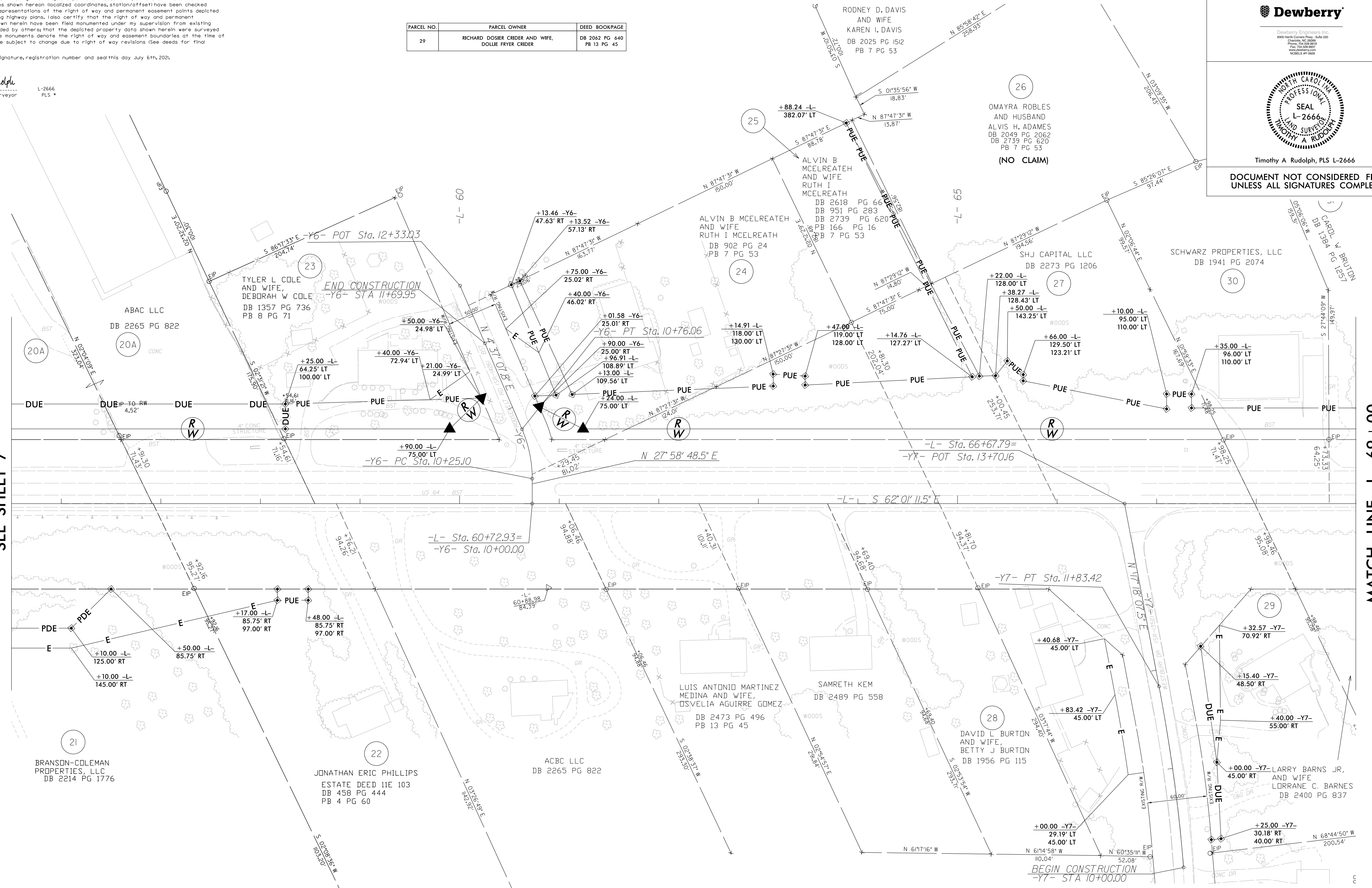
REVISIONS

1. (PER MEMO DATED MAY 3, 2021) ADD TCE TO PARCEL 24
2. (PER MEMO DATED JUNE, 2021) REMOVE PUE FROM PARCEL 28
3. (PER MEMO DATED OCTOBER 11, 2021) ADD TCE ALONG RIGHT SIDE OF -Y6-
4. REVISED PROPERTY DATA SUPPLIED BY NCDOT DATED 10-21-2021

P:\MAR-2022\4255\GIS\Survey\Deliverable\U5813_1s_rw08.dgn
 AT: PF14877A

MATCH LINE -L- 55 + 50
SEE SHEET 7

MATCH LINE -L- 69 + 00
SEE SHEET 9



-Y6-	-Y7-
PI Sta 10+50.94	PI Sta 10+91.79
Δ = 23° 21' 40.7" (LT)	Δ = 5° 50' 18.0" (LT)
D = 45° 50' 11.8"	D = 3° 10' 59.2"
L = 50.97'	L = 183.42'
T = 25.84'	T = 91.79'
R = 125.00'	R = 1,800'
SE = 0.05	SE = 0.04
RO = 106'	RO = 84'

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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

Location and Surveys



Dewberry Engineers Inc. 9000 North Carolina Hwy., Suite 200 Charlotte, NC 28269



Timothy A. Rudolph, PLS L-2666

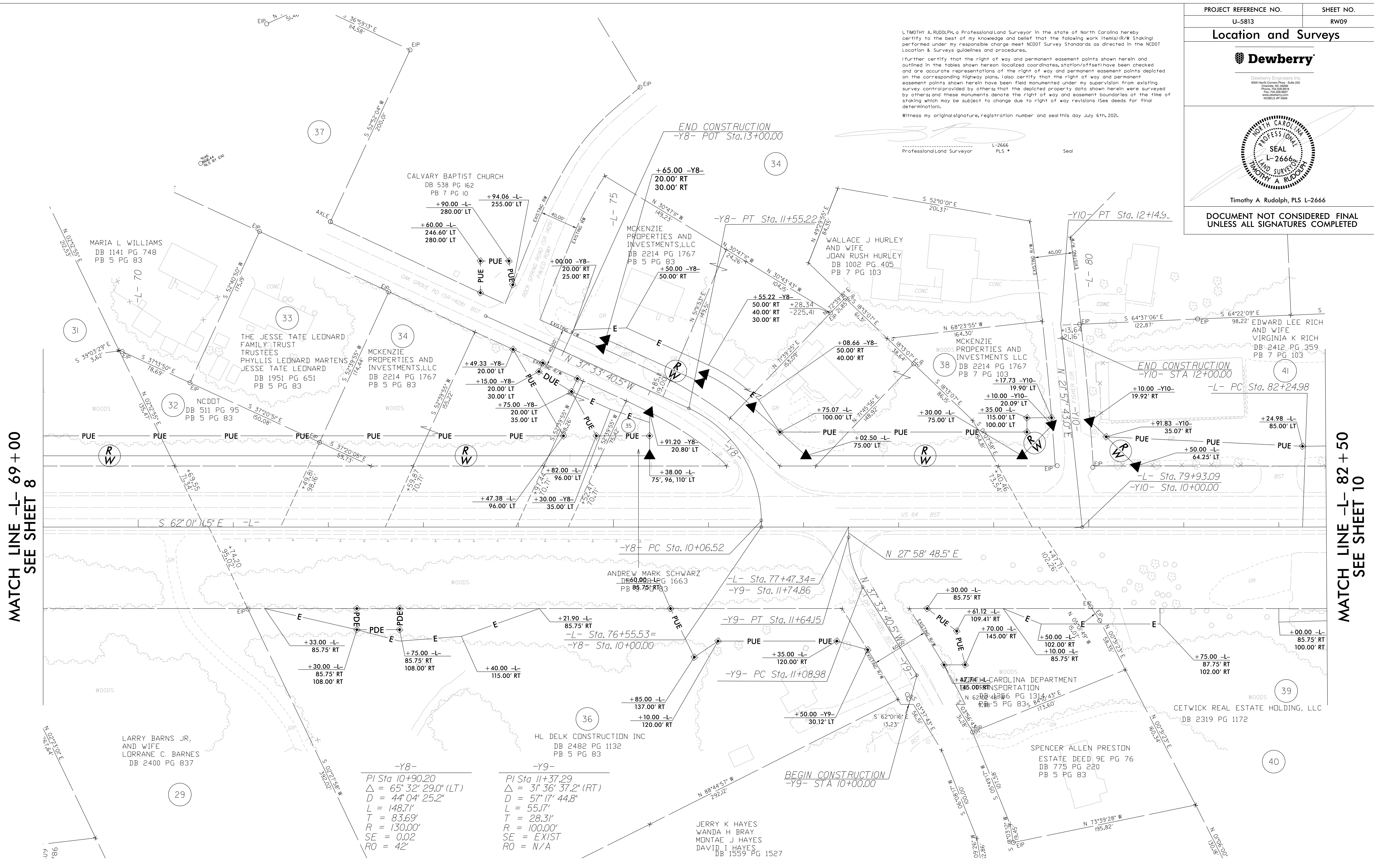
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, TIMOTHY A. RUDOLPH, 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) (B/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 day July 6th, 2020.

Professional Land Surveyor L-2666 PLS Seal



MATCH LINE -L- 69+00 SEE SHEET 8

MATCH LINE -L- 82+50 SEE SHEET 10

Station	Delta	D	L	T	R	SE	RO
-Y8- PI Sta 10+90.20	65° 32' 29.0" (LT)	44' 04" 25.2"	148.71'	83.69'	130.00'	0.02	42'
-Y9- PI Sta 11+37.29	31° 36' 37.2" (RT)	57' 17" 44.8"	55.17'	28.31'	100.00'	EXIST	N/A

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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

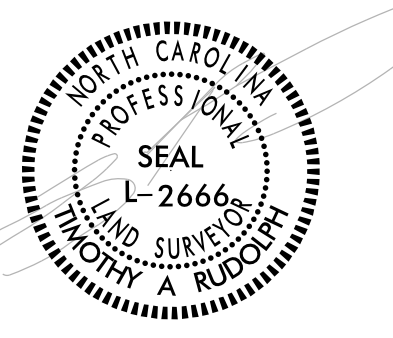
REVISIONS

Project: 20201201 (R) 01 Survey/Drawn: SERIES U5813.1s.r.w09.dgn
Date: 6/2/2020
By: Timothy A. Rudolph

Location and Surveys



Dewberry Engineers Inc.
 8000 Harris Corner Pkwy, Suite 200
 Cary, NC 27513
 Phone: 919.488.2800
 Fax: 919.488.2807
 www.dewberry.com
 NCELS #1-0089



Timothy A. Rudolph, PLS L-2666

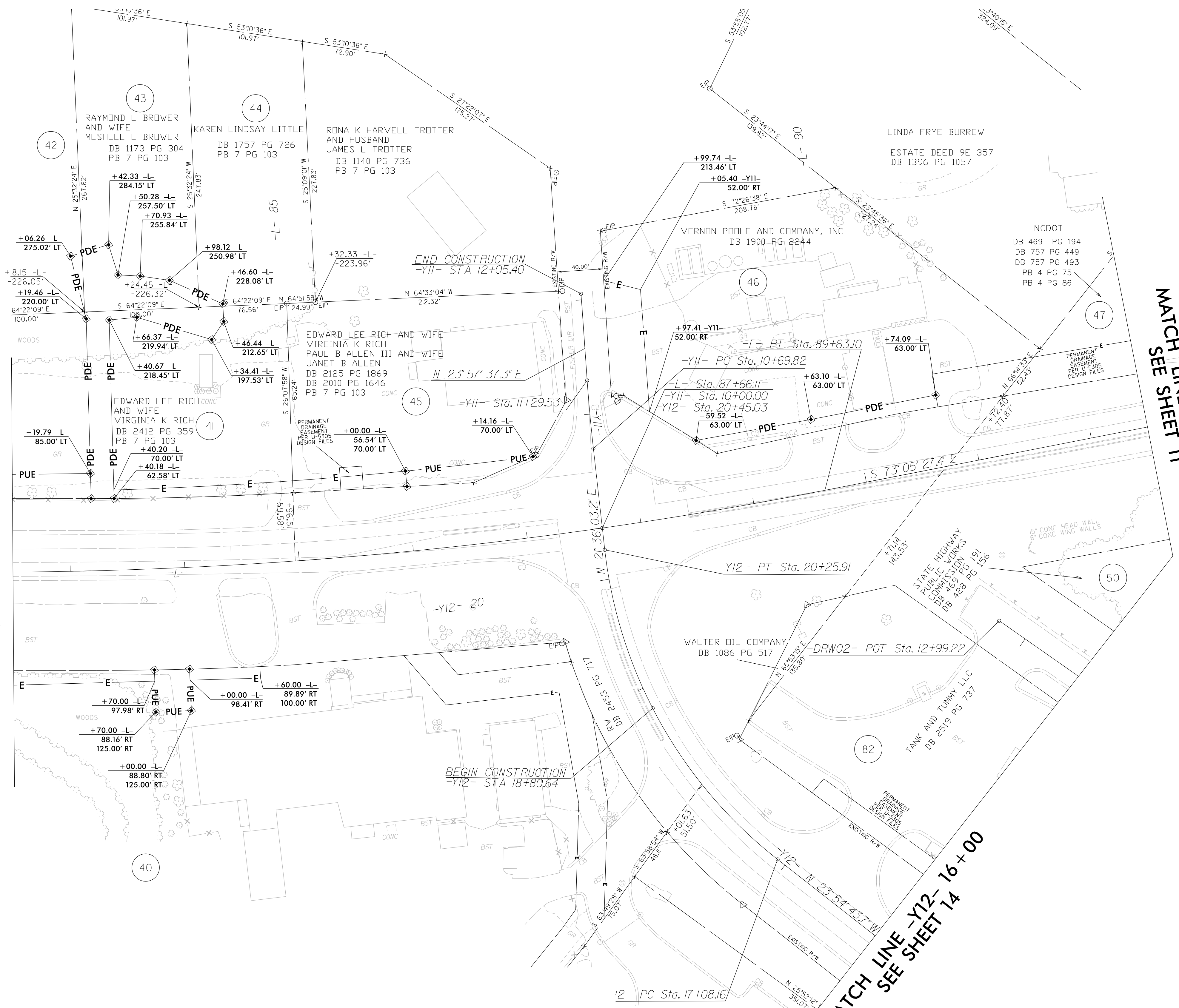
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

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Witness my original signature, registration number and seal this day July 6th, 2021.

Professional Land Surveyor L-2666
 Timothy A. Rudolph PLS Seal



MATCH LINE -L- 82 + 50
SEE SHEET 9

MATCH LINE -L- 92 + 50
SEE SHEET 11

MATCH LINE -Y12- 16 + 00
SEE SHEET 14

- 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.
 3. RIGHT OF WAY MONUMENTATION ESTABLISHED _____ TO _____.

REVISIONS

Location and Surveys



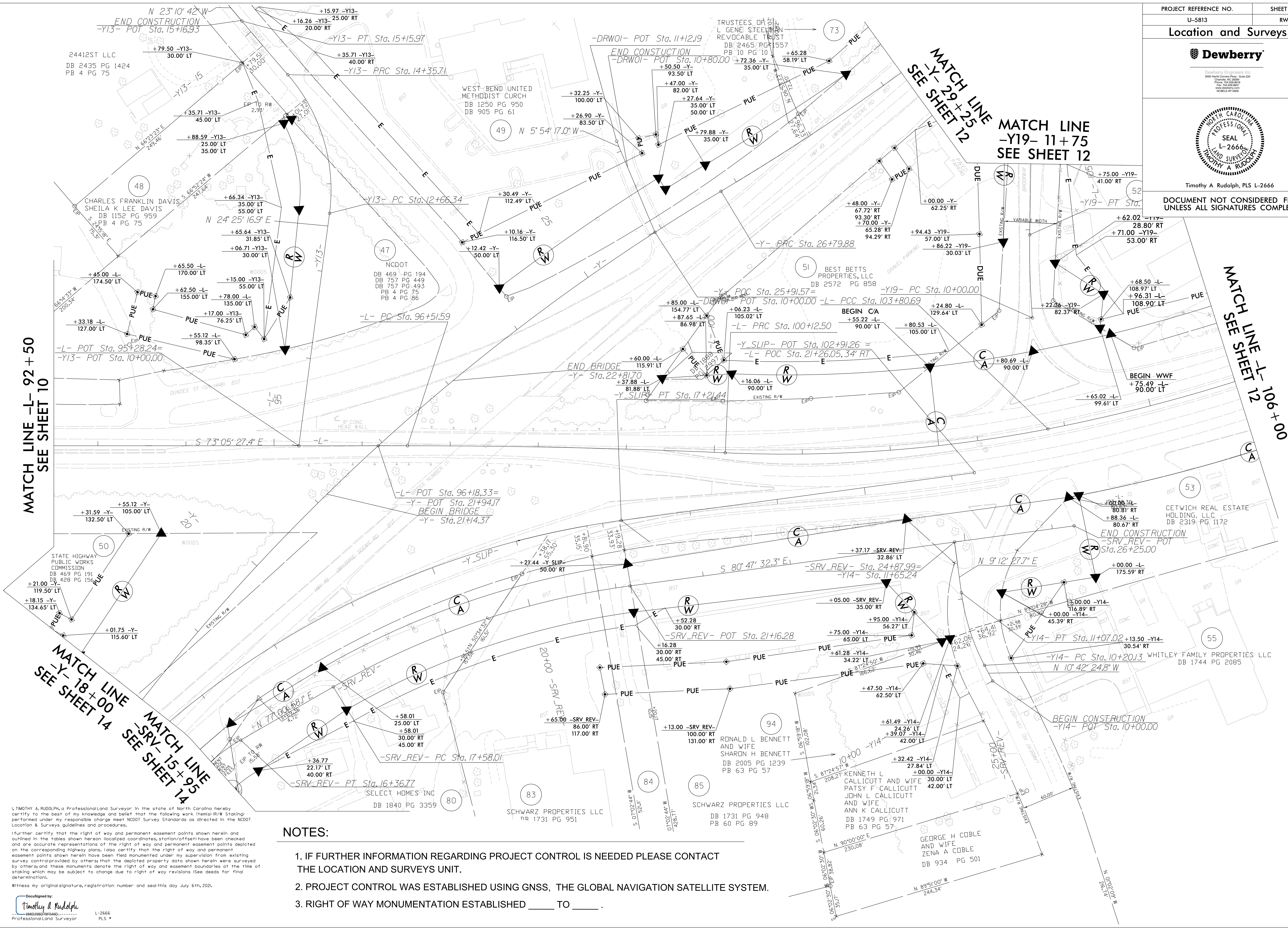
Dewberry Engineers Inc.
8500 North Carolina Hwy, Suite 200
Charlotte, NC 28269
Phone: 704.366.8800
Fax: 704.366.8807
www.dewberry.com
LICENSE # 0088



Timothy A Rudolph, PLS L-2666

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS
1. I, PER MEMO DATED SEPTEMBER 24, 2020 EASEMENT REVISED ALONG -Y19- AND -L- TO MINIMIZE IMPACT FOR PARCELS 51AN D52 AND R/W AND PUE LIMITS REVISED ALONG -L-
2. REVISED PROPERTY DATA SUPPLIED BY NCDOT DATED 10-21-2021



MATCH LINE -L- 92 + 50
SEE SHEET 10

MATCH LINE -Y- 18 + 00
SEE SHEET 14

MATCH LINE -SRV- 15 + 95
SEE SHEET 14

MATCH LINE -Y- 29 + 25
SEE SHEET 12

MATCH LINE -Y19- 11 + 75
SEE SHEET 12

MATCH LINE -L- 106 + 00
SEE SHEET 12



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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

I, TIMOTHY A. RUDOLPH, 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 (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 herein (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 day July 6th, 2021.

Designed by:
Timothy A Rudolph
Professional Land Surveyor
L-2666
PLS

21-MAY-2022 07:47
C:\Users\deliverable\U5813\1.s.rwl.dgn
CP-OF-FIT AT PF-14877A

PROJECT REFERENCE NO. U-5813	SHEET NO. RW12
Location and Surveys	
	
<small>Dewberry Engineers Inc. 1000 North Carolina Plaza, Suite 200 Charlotte, NC 28206 Phone: 704.366.8888 Fax: 704.366.2027 www.dewberry.com NCELES #7-0029</small>	
	
Timothy A. Rudolph, PLS L-2666	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

L. TIMOTHY A. RUDOLPH, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (re: IR/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

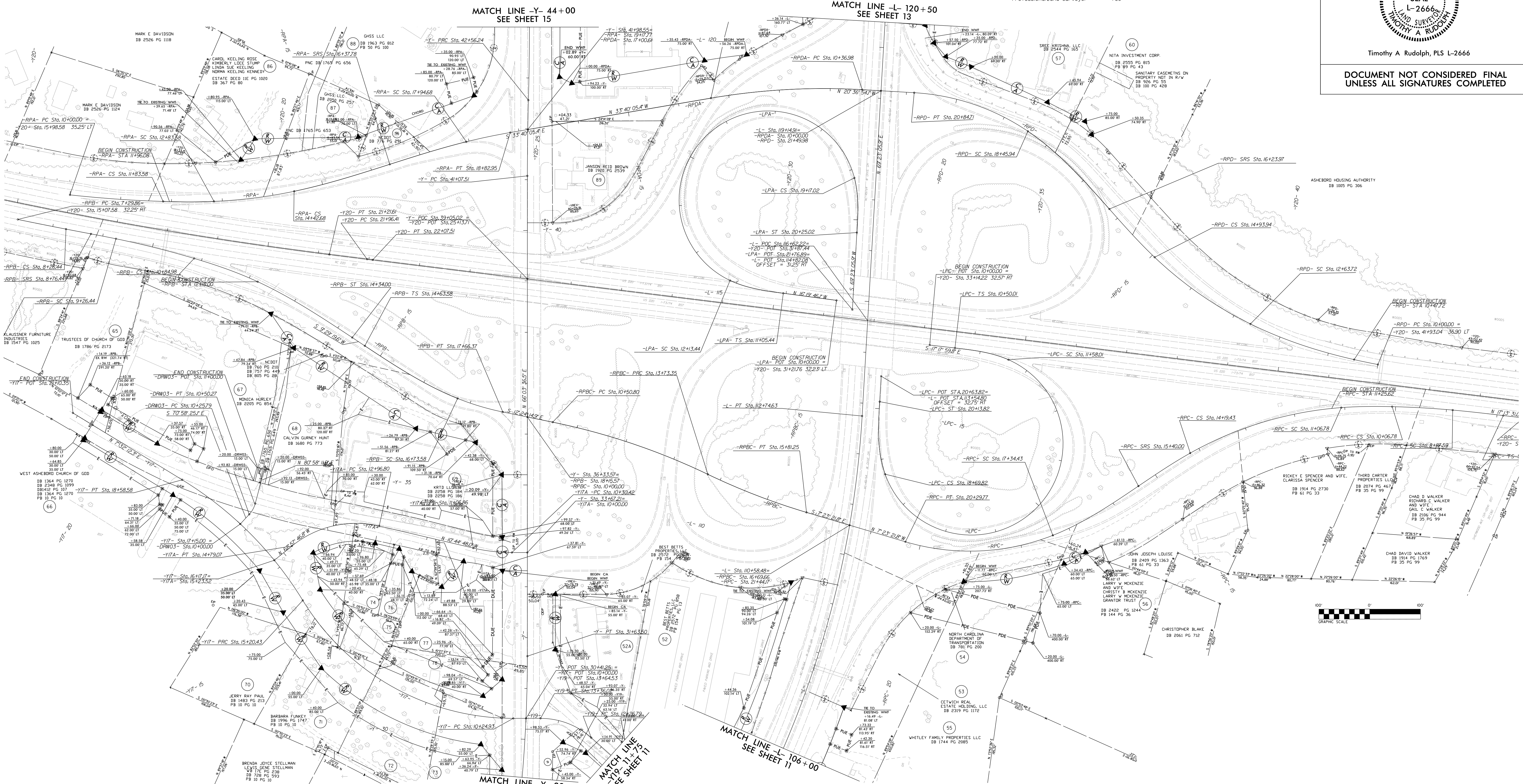
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway 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 day July 6th, 2021.

DocuSigned by:
Timothy A. Rudolph
Professional Land Surveyor L-2666
PLS *

REVISIONS
 1. PER MEMO DATED SEPTEMBER 24, 2020 EASEMENT REVISED ALONG -Y19- AND -L- TO MINIMIZE IMPACTS FOR PARCELS 51, 52, AND 52A. R/W AND PUE LIMITS REVISED ALONG -L-
 2. REVISED PROPERTY DATA SUPPLIED BY NCDOT DATED 10-21-2021

2:\Map\42929_07\17\Survey\Deliverable\U5813.1.s.rw12.dgn
 CP-01.fvt



- 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.
 3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.
 4. SEE SHEETS 12A-12D FOR TIES

Location and Surveys



Dewberry Engineers Inc.
 9000 North Carolina Parkway, Suite 200
 Charlotte, NC 28269
 Tel: 704.535.8887
 www.dewberry.com
 NCELS #0-0899



Timothy A Rudolph, PLS L-2666

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, TIMOTHY A. RUDOLPH, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (retrial B/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 of the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

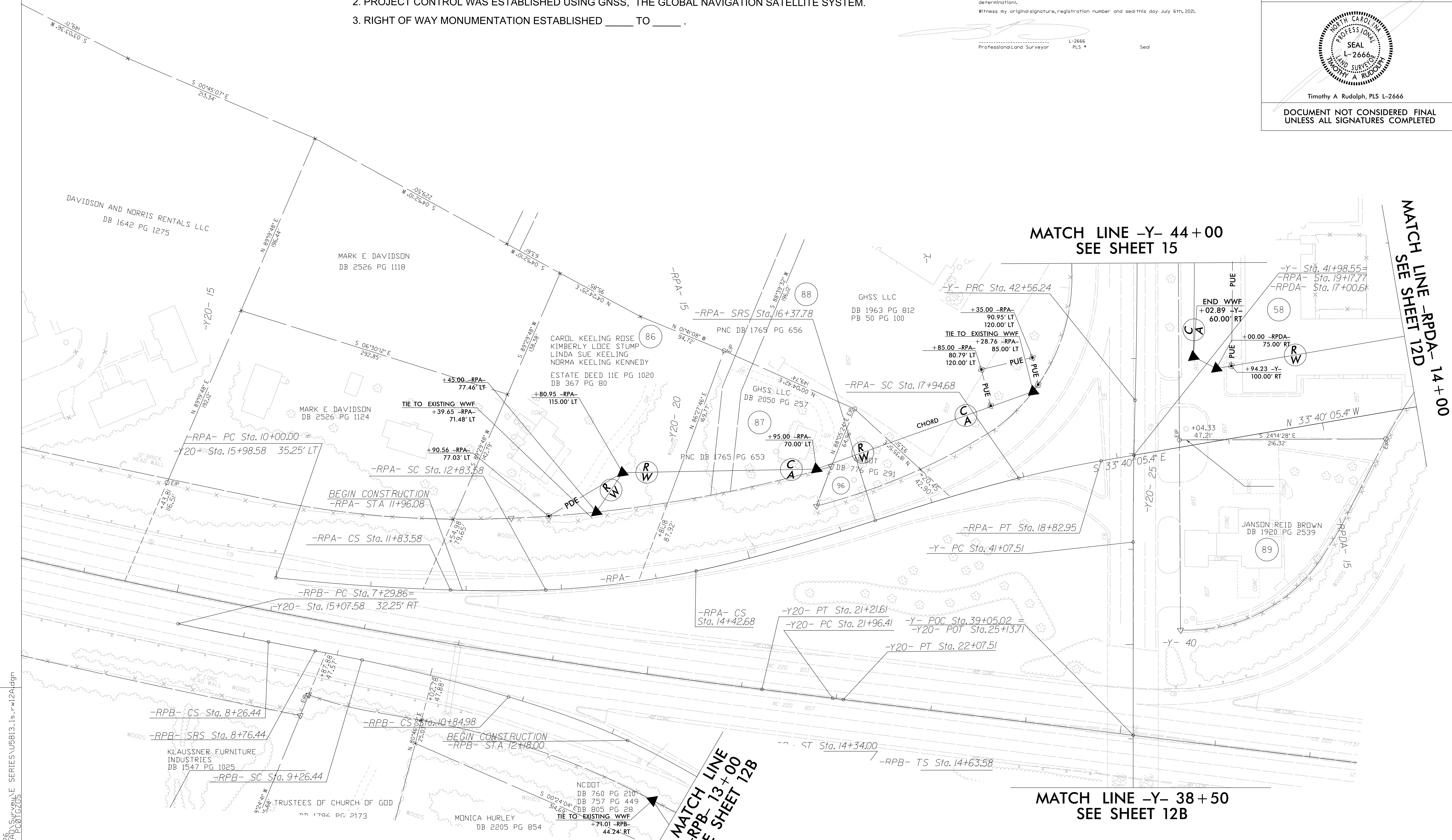
Witness my original signature, registration number and seal this day July 6th, 2020.

Professional Land Surveyor L-2666
 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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.


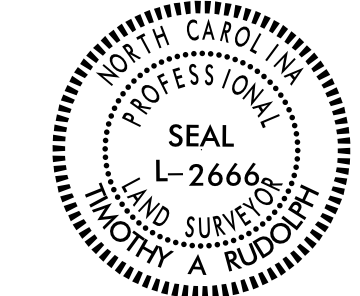
REVISIONS



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 At: P:\Projects\2009\12\26\12091226\12091226.dgn
 mr-rudolph

MATCH LINE
-RPB- Sta. 13+00
SEE SHEET 12B

MATCH LINE -Y- 38+50
SEE SHEET 12B

PROJECT REFERENCE NO.	SHEET NO.
U-5813	RW12B
Location and Surveys	
	
<small>Dewberry Engineers Inc. 9001 North Carolina Hwy, Suite 200 Charlotte, NC 28269 Phone: 704.535.8887 www.dewberry.com NCELS #0-0909</small>	
	
Timothy A. Rudolph, PLS L-2666	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

1. PER MEMO DATED SEPTEMBER 24, 2021 EASEMENT REVISED ALONG -Y19- AND -L- TO MINIMIZE IMPACTS FOR PARCELS 51, 52, AND 52A. R/W AND PUE LIMITS REVISED ALONG -L-
2. REVISED PROPERTY DATA SUPPLIED BY NCDOT DATED 10-21-2021

6/2/19
2:50:42
2023
07:47
C:\Users\Deliverable\U5813_1s_rw12B.dgn
CP-0111

I, TIMOTHY A. RUDOLPH, 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 (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 herein located coordinates, station/offsets 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).

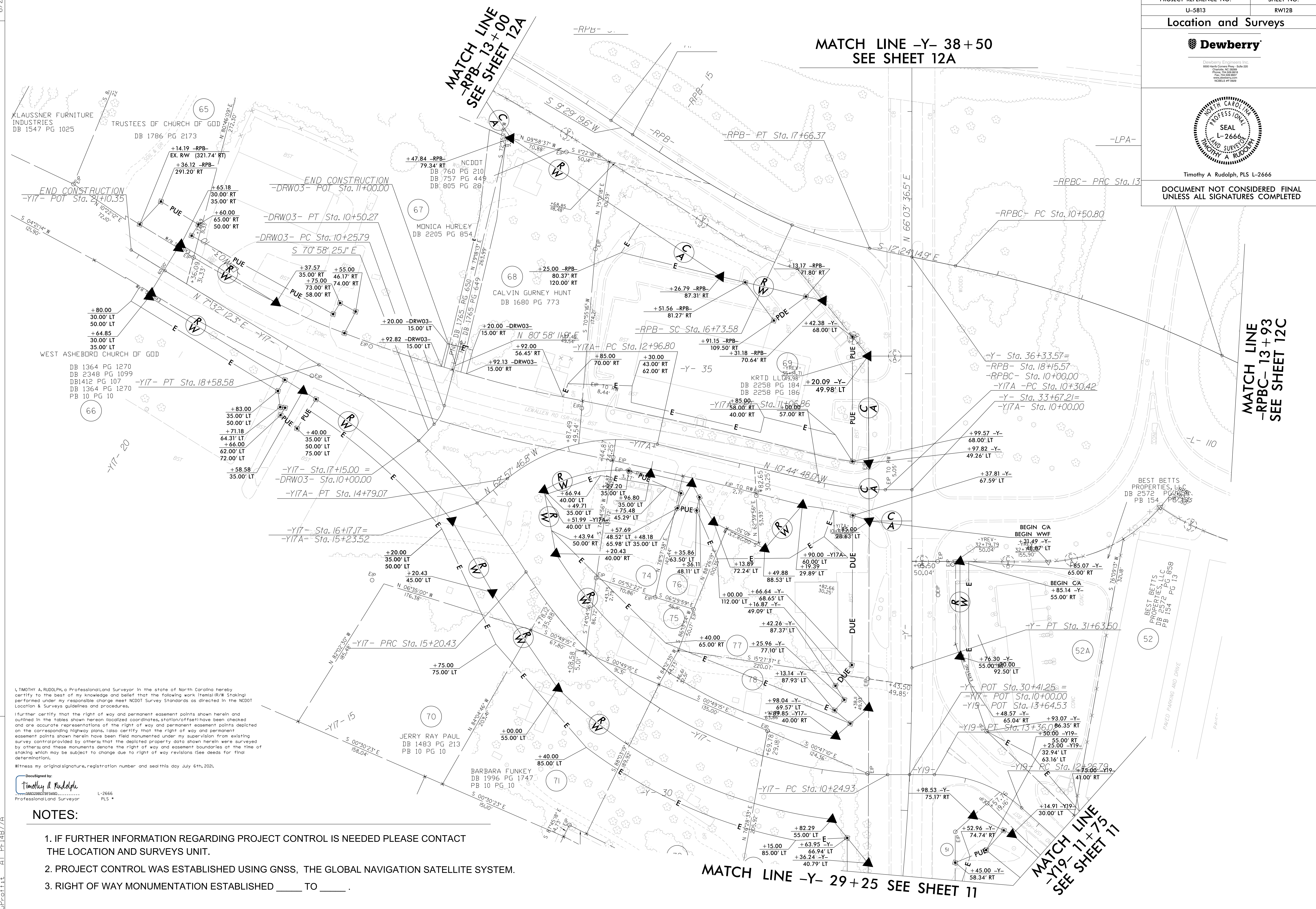
Witness my original signature, registration number and seal this day July 6th, 2021.

DocuSigned by:



Timothy A. Rudolph
L-2666
Professional Land Surveyor
PLS *

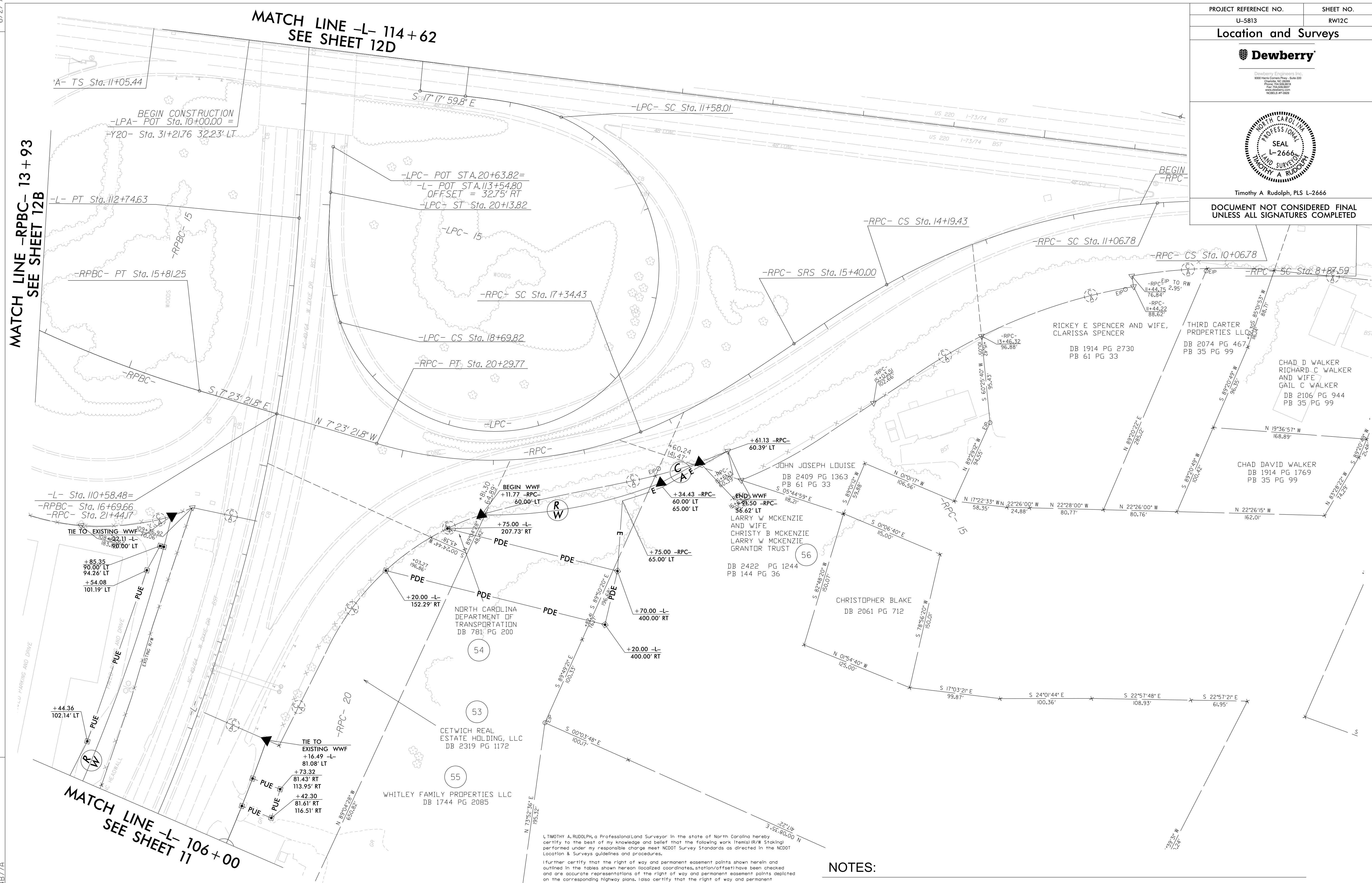
NOTES:

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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED _____ TO _____.



MATCH LINE
-RPBC- 13+93
SEE SHEET 12C

PROJECT REFERENCE NO. U-5813	SHEET NO. RW12C
Location and Surveys	
	
<small>Dewberry Engineers Inc. 9000 Harris Corner Pkwy, Suite 270 Charlotte, NC 28268 Tel: 704.262.9987 www.dewberry.com NCELS #P-0029</small>	
	
Timothy A. Rudolph, PLS L-2666	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

- 1. (PER MEMO DATED SEPTEMBER 24, 2021) R/W AND PUE LIMITS REVISED ALONG -L-
- 2. REVISED PROPERTY DATA SUPPLIED BY NCDOT DATED 10-21-2021

P:\MAR-2022\0717_Survey\Deliverable\U5813_1.s.rw12C.dgn
 15:01:42
 CP-01-FIT

I, TIMOTHY A. RUDOLPH, 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 1(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 of 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 day 6th, 2021.

DocuSigned by:

 Timothy A. Rudolph
 Professional Land Surveyor

L-2666
 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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED _____ TO _____.

Location and Surveys



Dewberry Engineers Inc.
9000 Harris Corner Pkwy, Suite 200
Charlotte, NC 28269
Phone: 704.261.8000
Fax: 704.261.8007
www.dewberry.com
NC REG. # 0022



Timothy A Rudolph, PLS L-2666

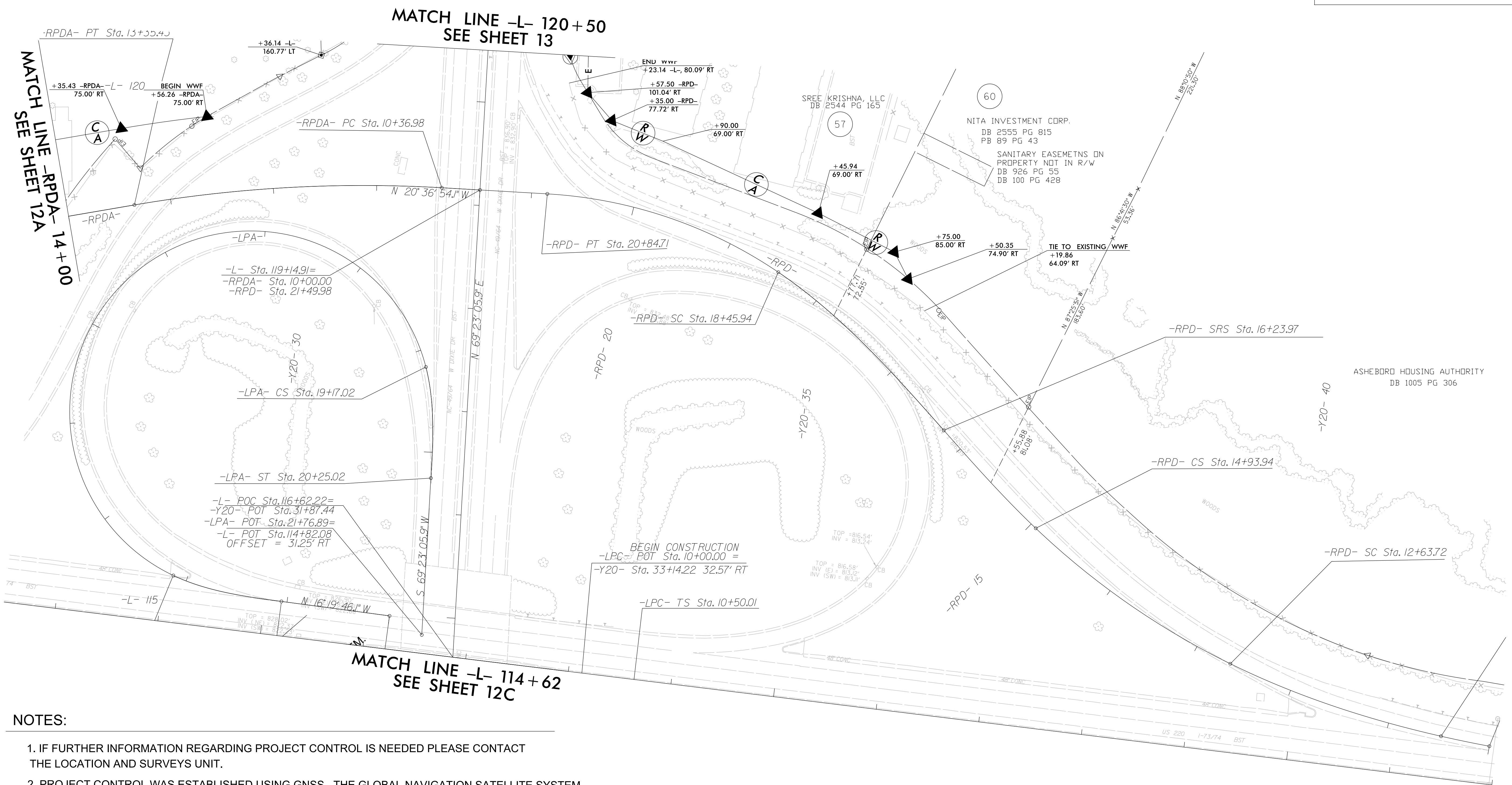
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, TIMOTHY A. RUDOLPH, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (Final 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 (located 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 of 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 day July 6th, 2021.

Professional Land Surveyor L-2666 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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

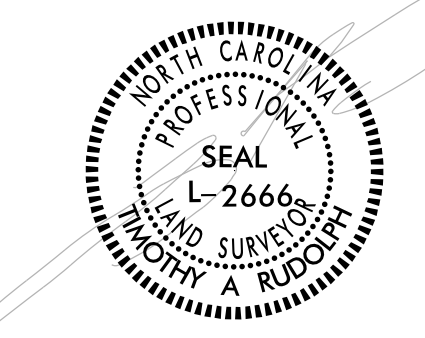
REVISIONS

P:\1132837\1132837.dgn
 PROJECT: U5813_1S_RW12D.dgn
 DATE: 6/2/19
 DRAWN BY: T.A. Rudolph
 CHECKED BY: T.A. Rudolph
 SERIES: U5813_1S_RW12D.dgn

Location and Surveys



Dewberry Engineers Inc. 9301 North Carolina Parkway, Suite 220 Charlotte, NC 28268

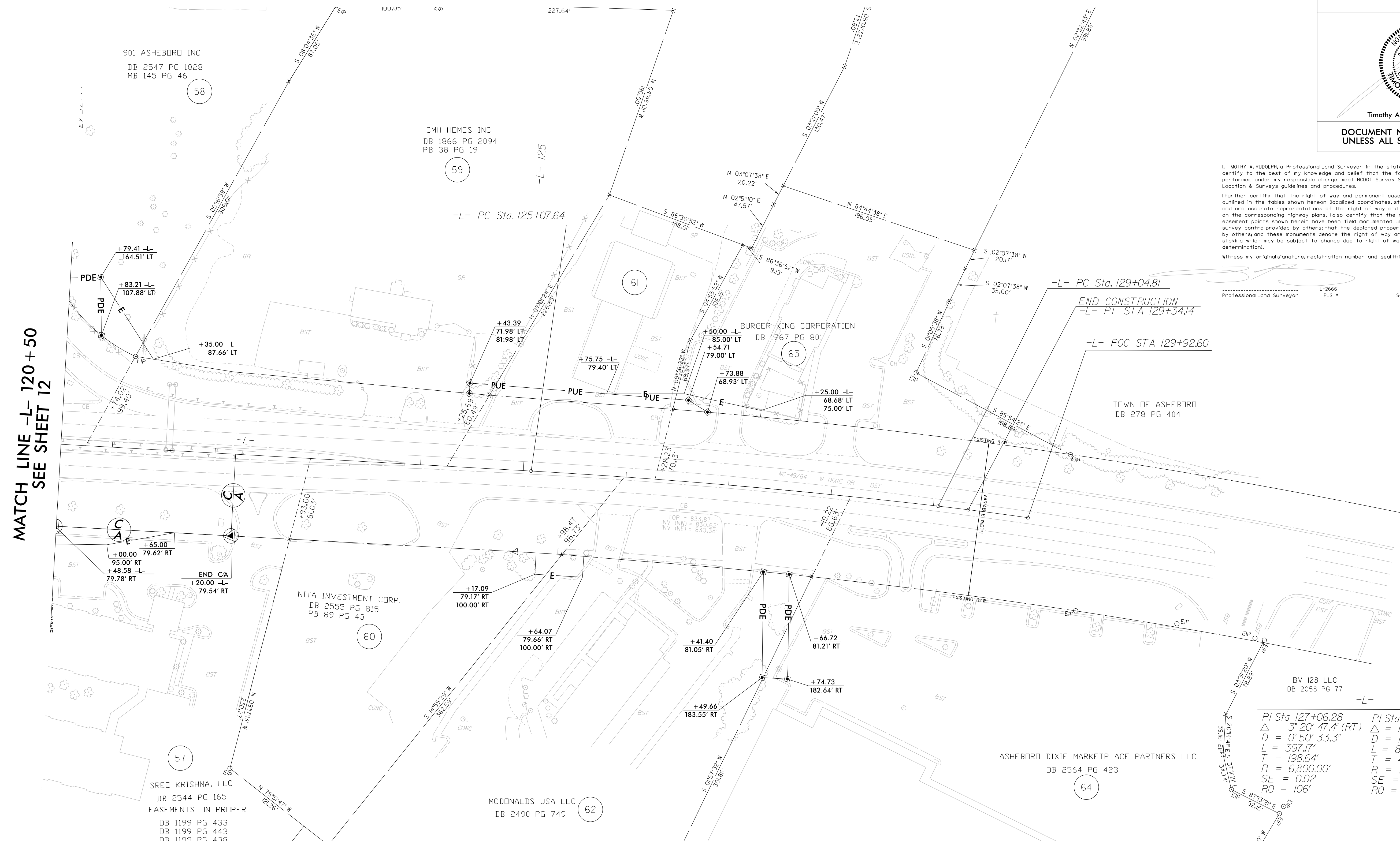


Timothy A. Rudolph, PLS L-2666

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, TIMOTHY A. RUDOLPH, 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) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

Witness my original signature, registration number and seal this day July 6th, 2019. Timothy A. Rudolph, PLS L-2666



MATCH LINE -L- 120 + 50 SEE SHEET 12

$PI\ Sta\ 127+06.28$ $\Delta = 3^{\circ} 20' 47.4'' (RT)$ $D = 0^{\circ} 50' 33.3''$ $L = 397.17'$ $T = 198.64'$ $R = 6,800.00'$ $SE = 0.02$ $RO = 106'$	$PI\ Sta\ 129+48.71$ $\Delta = 1^{\circ} 28' 46.0'' (RT)$ $D = 1^{\circ} 41' 06.6''$ $L = 87.79'$ $T = 43.90'$ $R = 3,400'$ $SE = EXIST$ $RO = N/A$
---	--

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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ____ TO ____.

REVISIONS

PROJECT: 20190701-01 SURVEY/ENGINEERING SERIES: U5813.13.rw13.dgn AT: PLOT0205 mr.rudolph

Location and Surveys



Dewberry Engineers Inc.
9000 Harris Corner Pkwy, Suite 200
Charlotte, NC 28269
Phone: 704.262.0800
www.dewberry.com
NCELS # 0029



Timothy A Rudolph, PLS L-2666

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TIMOTHY A. RUDOLPH, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (Final R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

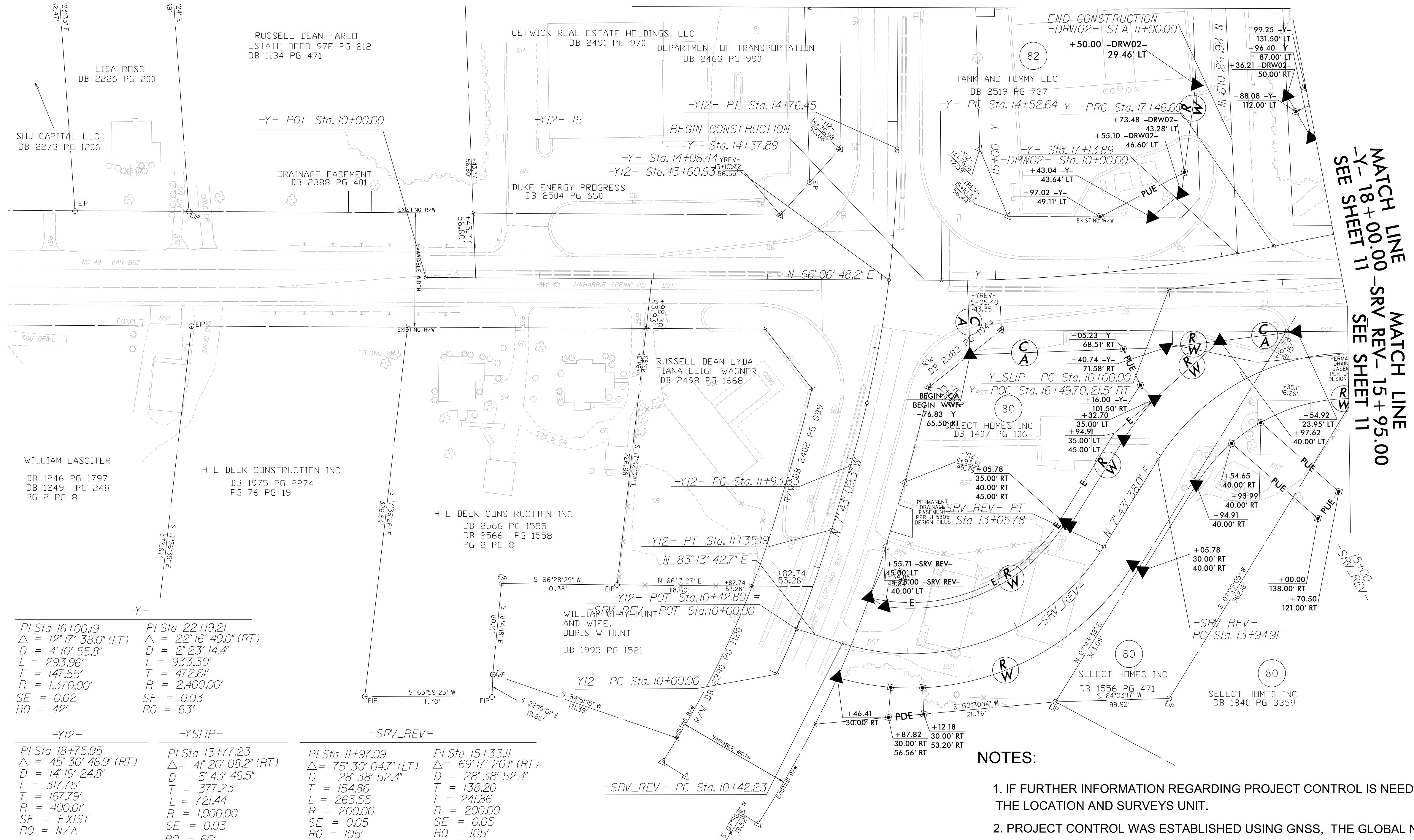
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown herein (local coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. 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 day July 6th, 2021.

Designed by:
Timothy A Rudolph
Professional Land Surveyor

L-2666
PLS *

MATCH LINE -Y12- 16+00
SEE SHEET 10



MATCH LINE
-Y- 18+00.00 -SRV REV- 15+95.00
SEE SHEET 11
MATCH LINE
SEE SHEET 11

PI Sta 16+00.19 Δ = 12° 17' 38.0" (LT) D = 4° 10' 55.8" L = 293.96' T = 147.55' R = 1,370.00' SE = 0.02 RO = 42'	PI Sta 22+19.21 Δ = 22° 16' 49.0" (RT) D = 2° 23' 14.4" L = 933.30' T = 472.61' R = 2,400.00' SE = 0.03 RO = 63'
---	---

-Y12- PI Sta 18+75.95 Δ = 45° 30' 46.9" (RT) D = 14° 19' 24.8" L = 317.75' T = 167.79' R = 400.01' SE = EXIST RO = N/A	-YSLIP- PI Sta 13+77.23 Δ = 41° 20' 08.2" (RT) D = 5° 43' 46.5" T = 377.23 L = 721.44 R = 1,000.00 SE = 0.03 RO = 60'
--	---

-SRV_REV- PI Sta 11+97.09 Δ = 75° 30' 04.7" (LT) D = 28° 38' 52.4" T = 154.86 L = 263.55 R = 200.00 SE = 0.05 RO = 105'	PI Sta 15+33.11 Δ = 69° 17' 20.1" (RT) D = 28° 38' 52.4" T = 138.20 L = 241.86 R = 200.00 SE = 0.05 RO = 105'
---	--


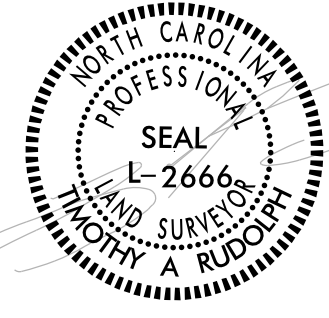
NOTES:

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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED _____ TO _____.

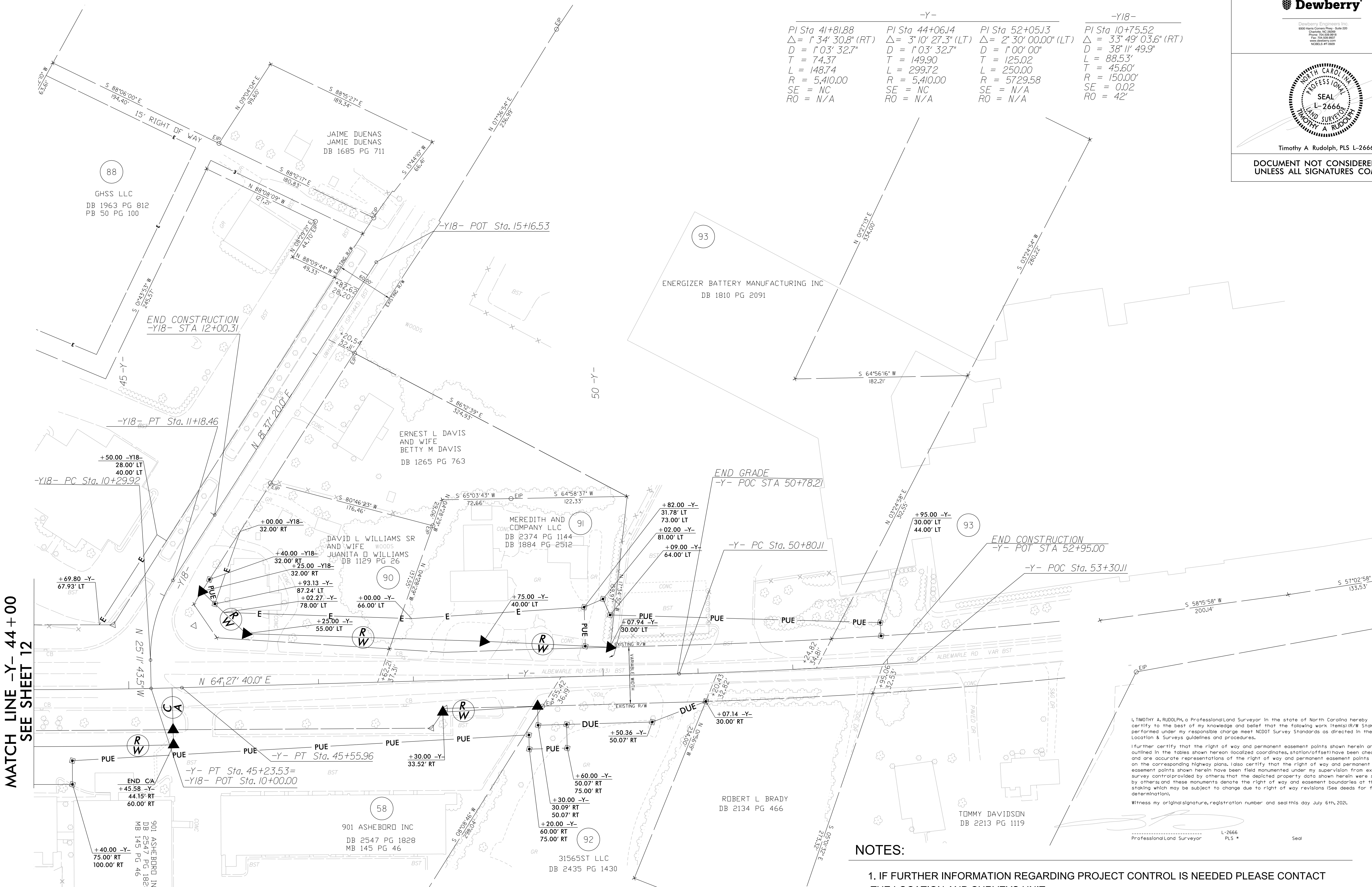
REVISIONS

1. PER MEMO DATED MARCH 11, 2021 REVISED PUE ON PARCELS 80 AND 82
2. REVISED PROPERTY DATA SUPPLIED BY NCDOT DATED 10-21-2021

P:\50142555\Drawings\Deliverable\U5813_1s.rwl.dgn
6/2/2021 10:47:11 AM
CP

PROJECT REFERENCE NO. U-5813	SHEET NO. RW15
Location and Surveys	
	
<small>Dewberry Engineers Inc. 9300 Harris Corner Pkwy - Suite 200 Charlotte, NC 28216 Phone: 704.539.9997 www.dewberry.com NCSLS #10029</small>	
	
Timothy A Rudolph, PLS L-2666	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

	-Y-	-Y18-
PI Sta 41+81.88	PI Sta 44+06.14	PI Sta 52+05.13
$\Delta = 1' 34' 30.8''$ (RT)	$\Delta = 3' 10' 27.3''$ (LT)	$\Delta = 2' 30' 00.00''$ (LT)
D = 1' 03' 32.7"	D = 1' 03' 32.7"	D = 1' 00' 00"
T = 74.37	T = 149.90	T = 125.02
L = 148.74	L = 299.72	L = 250.00
R = 5,410.00	R = 5,410.00	R = 5,729.58
SE = NC	SE = NC	SE = N/A
RO = N/A	RO = N/A	RO = N/A
		PI Sta 10+75.52
		$\Delta = 33' 49' 03.6''$ (RT)
		D = 38' 11' 49.9"
		L = 88.53'
		T = 45.60'
		R = 150.00'
		SE = 0.02
		RO = 42'



REVISIONS

MATCH LINE -Y- 44 + 00
SEE SHEET 12

P:\50132891\2481\Survey\U5813_1s_rw15.dgn
6/2/09 10:48 AM
TAR
PLS
Tim Rudolph

I, TIMOTHY A. RUDOLPH, 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 (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 day July 6th, 2012.

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.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED _____ TO _____.