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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

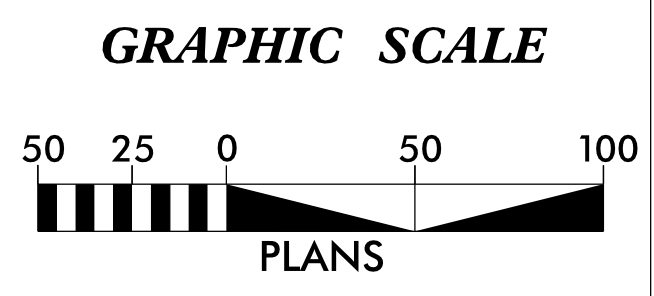
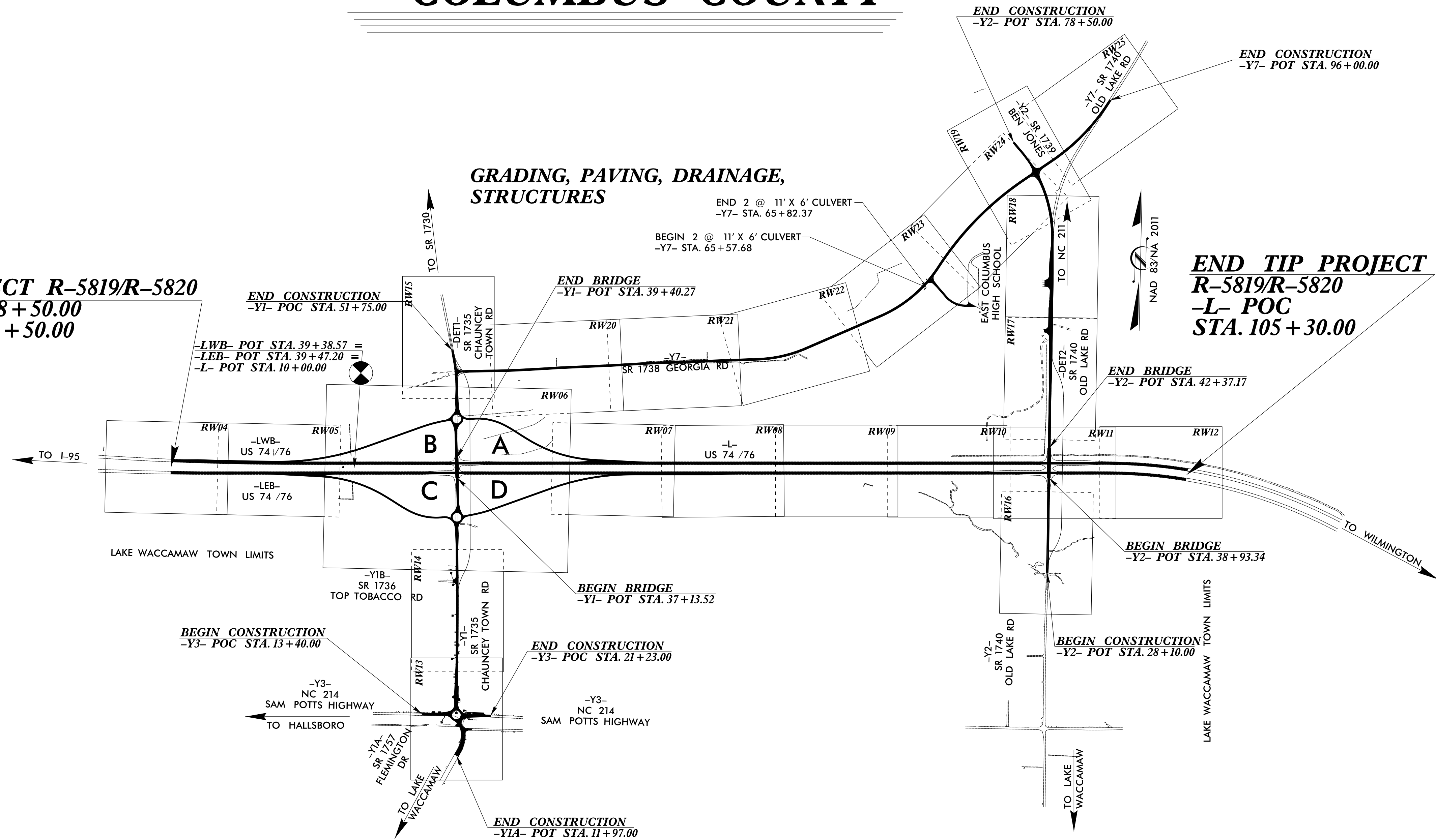
SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

COLUMBUS COUNTY

TIP PROJECT: R-5819/R-5820

BEGIN TIP PROJECT R-5819/R-5820
-LWB- POC STA. 18+50.00
-LEB- POC STA. 18+50.00

END TIP PROJECT R-5819/R-5820
-L- POC STA. 105+30.00



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R5819-103" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 211,375.033(ft) EASTING: 2,147,243.060(ft) ELEVATION: 59.174(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999963

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R5819-103" TO -L- STATION 10+00.00 IS S 89-56'49.3" W 4195.68(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88-GEOID 12B

Prepared in the Office of:



NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MARCH 22, 2021

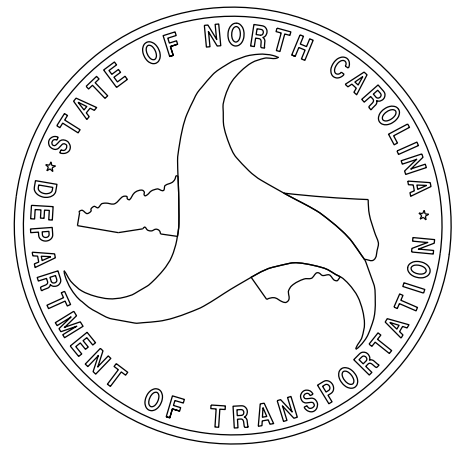
LETTING DATE:
JUNE 21, 2022

PROFESSIONAL LAND SURVEYOR



DocuSigned by:
C. Andrew Heath, Jr.
2023/03/29/14:17:47

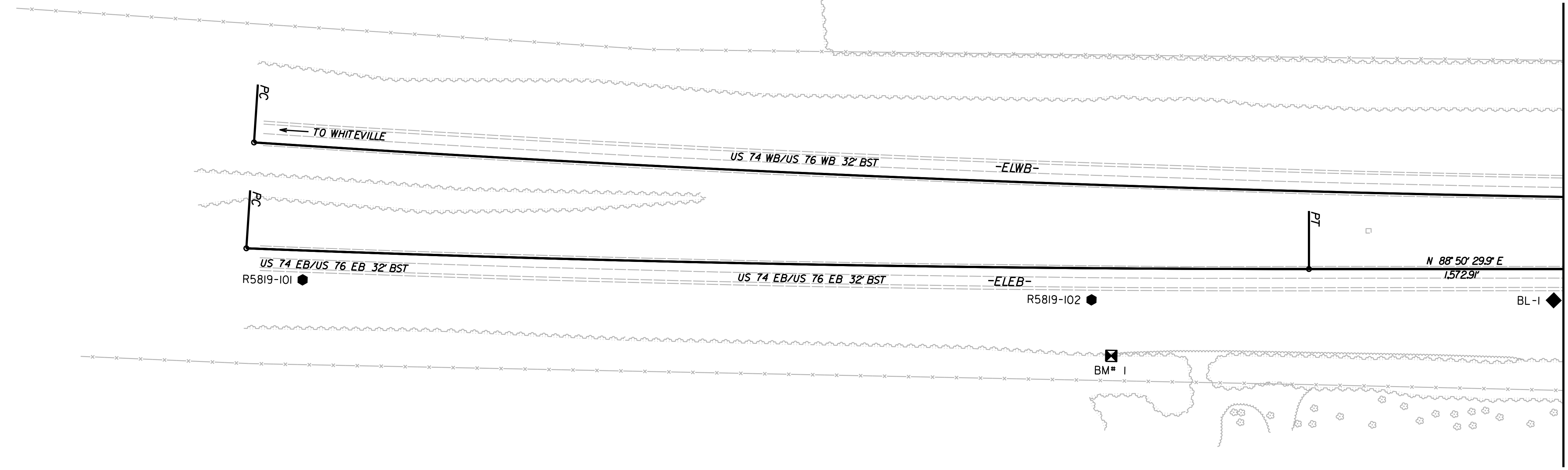
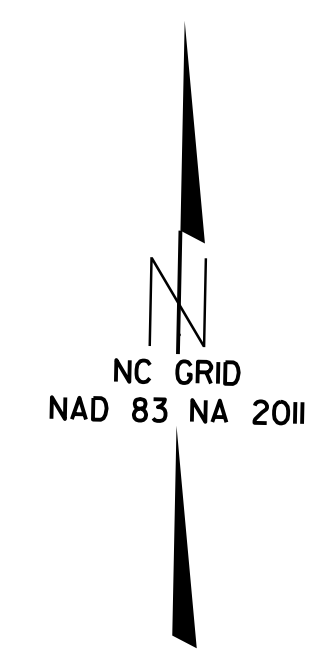
Date: 3/15/2022



PROJECT REFERENCE NO.	SHEET NO.
R-5819/R-5820	RW02C-1
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



REVISIONS

6/2/09

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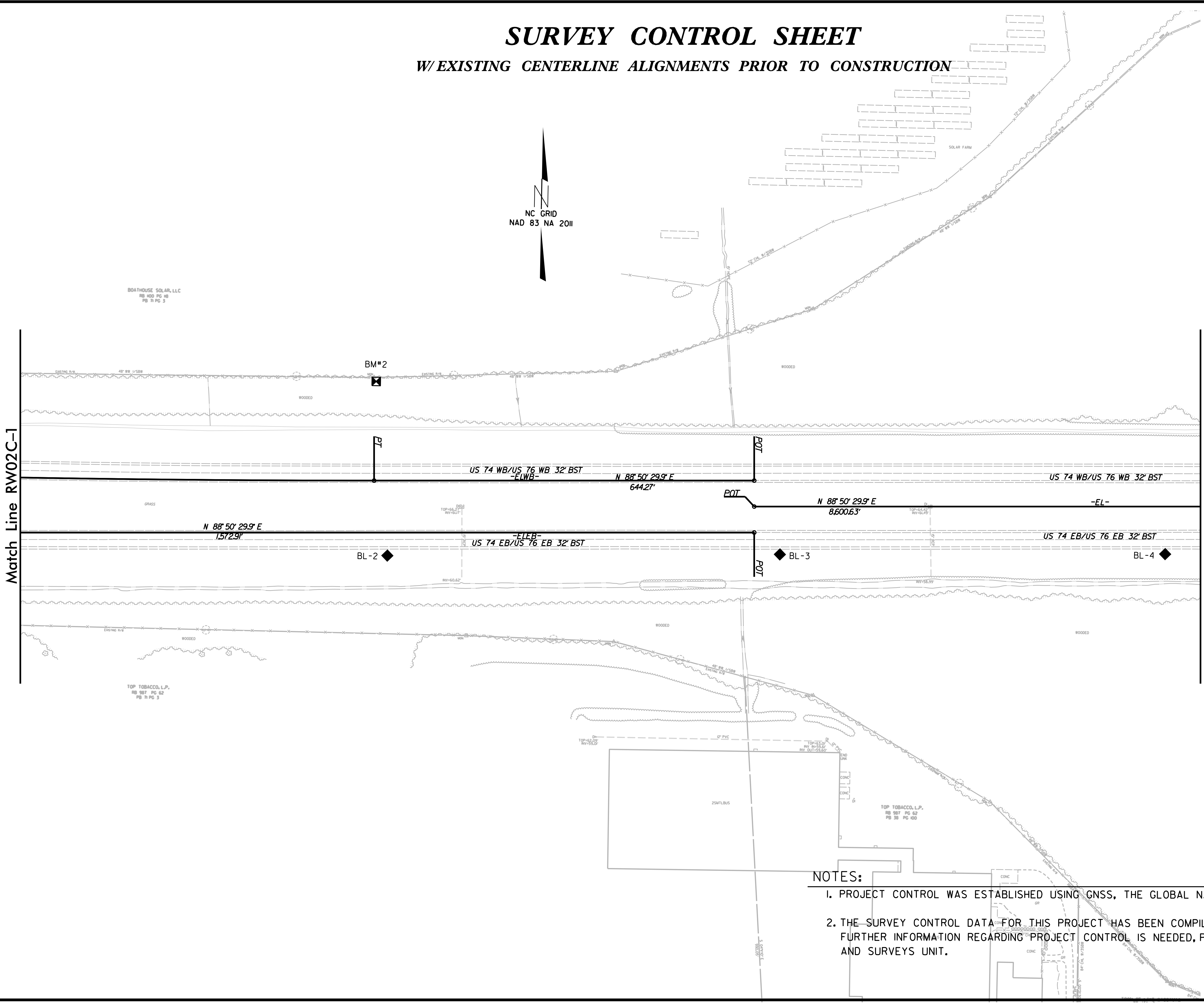
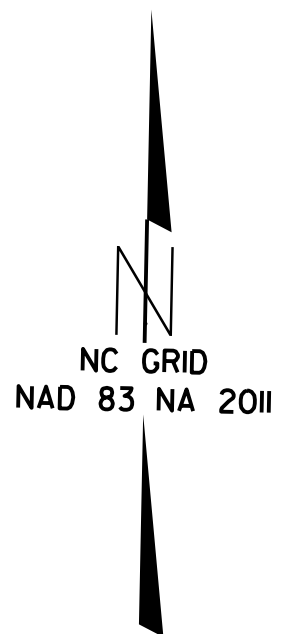
NOTES:

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-5819/R-5820	RW02C-2
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



- NOTES:**
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6/2/19

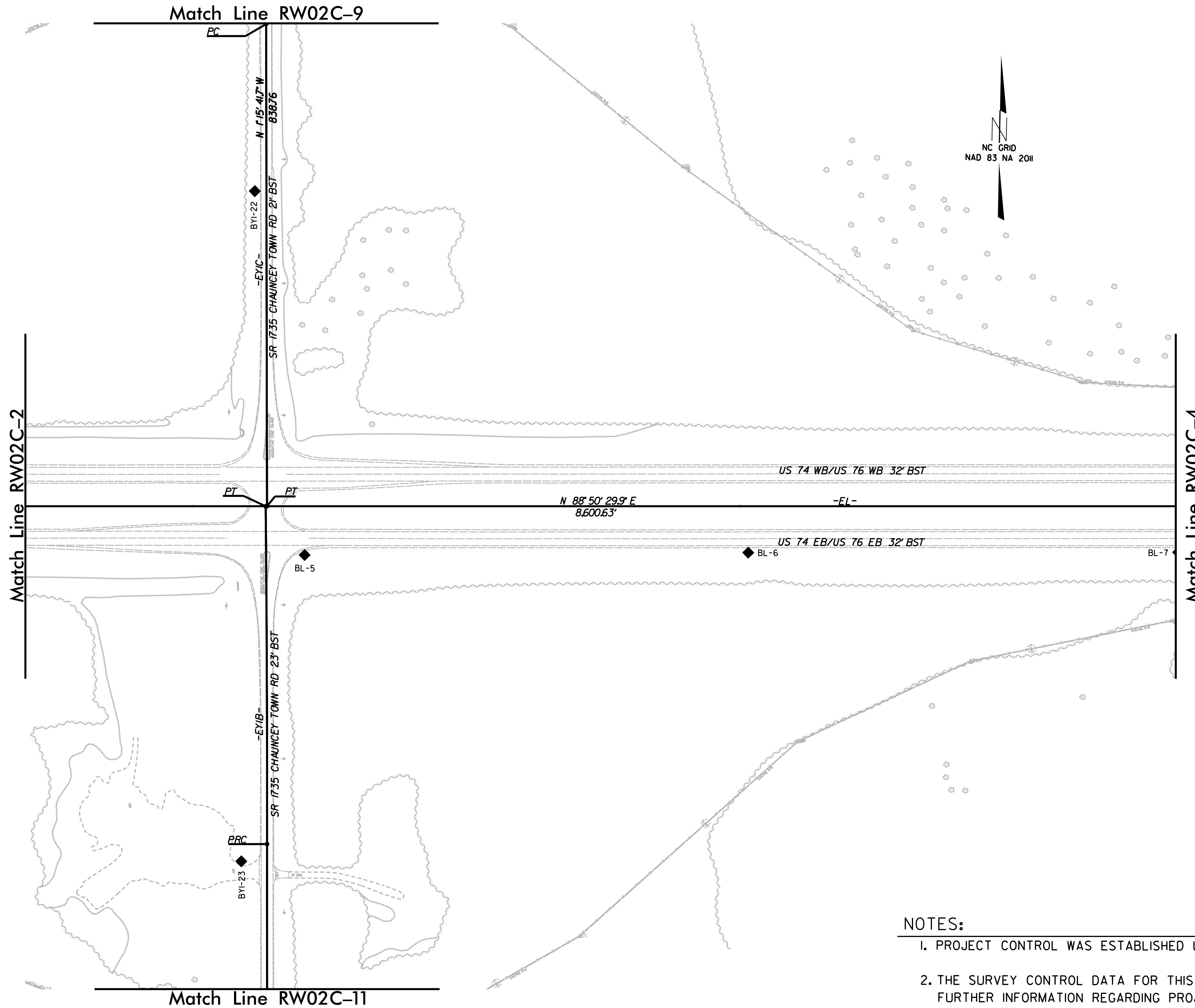
REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02C-3
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



NOTES:

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REVISIONS

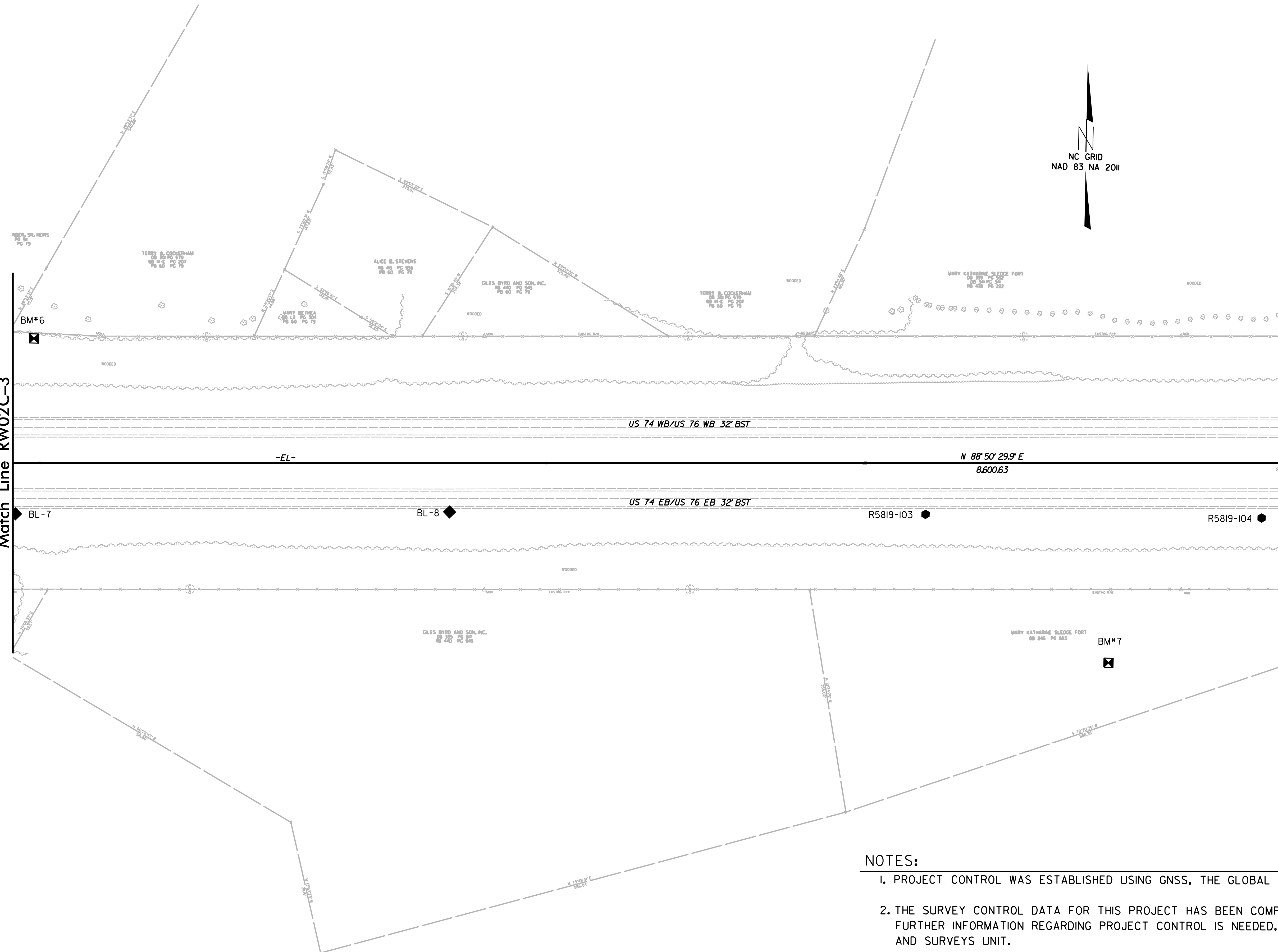
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 wilson AT L506-299086
 6/2/09

6/2/09

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02C-4
Location and Surveys	
NCDOT	



REVISIONS

Match Line RW02C-3

Match Line RW02C-5

NOTES:

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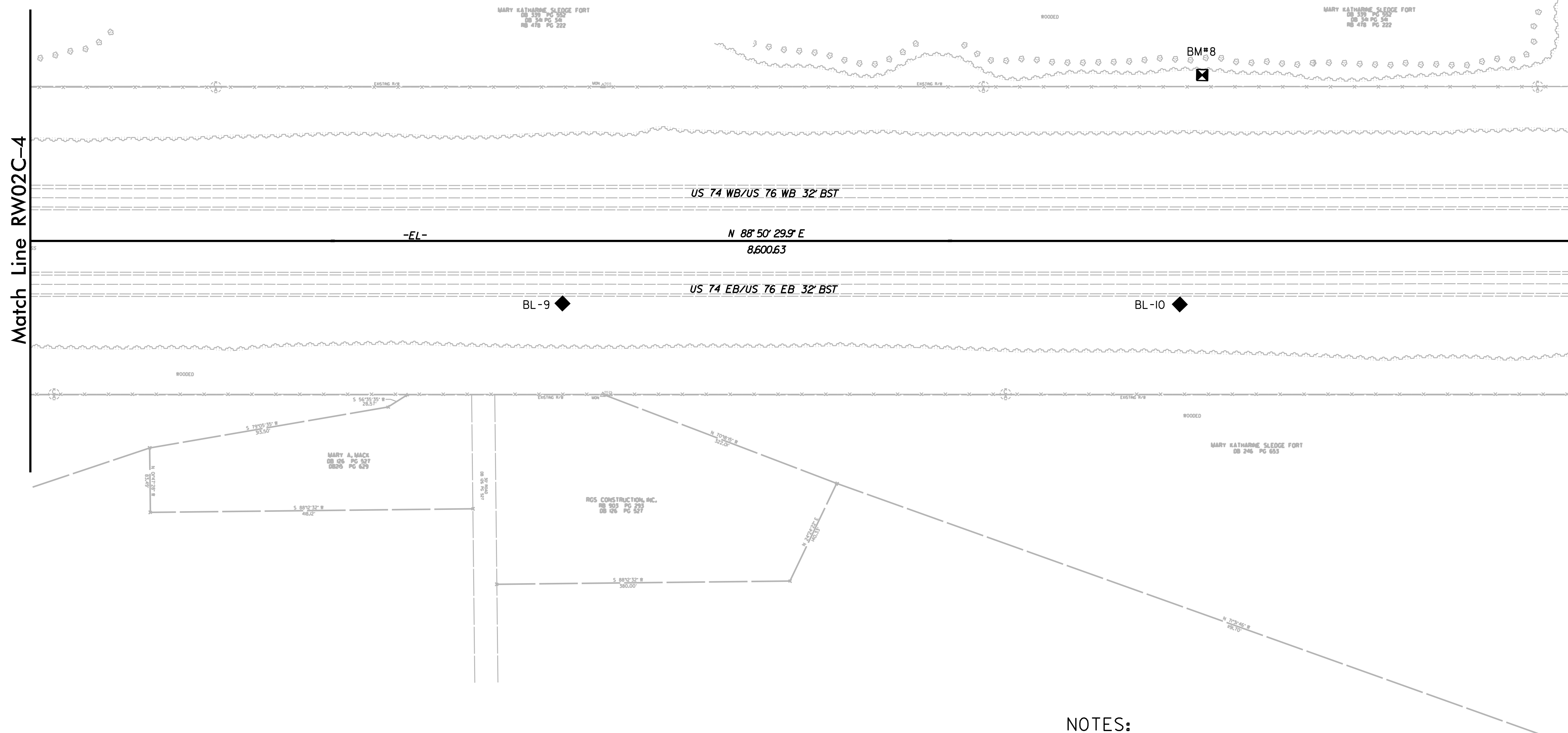
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 wilson AT LSD6-299086

6/2/09

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02C-5
Location and Surveys	
NCDOT	



Match Line RW02C-4

Match Line RW02C-6

REVISIONS

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 willson AT LSD6-299086

NOTES:

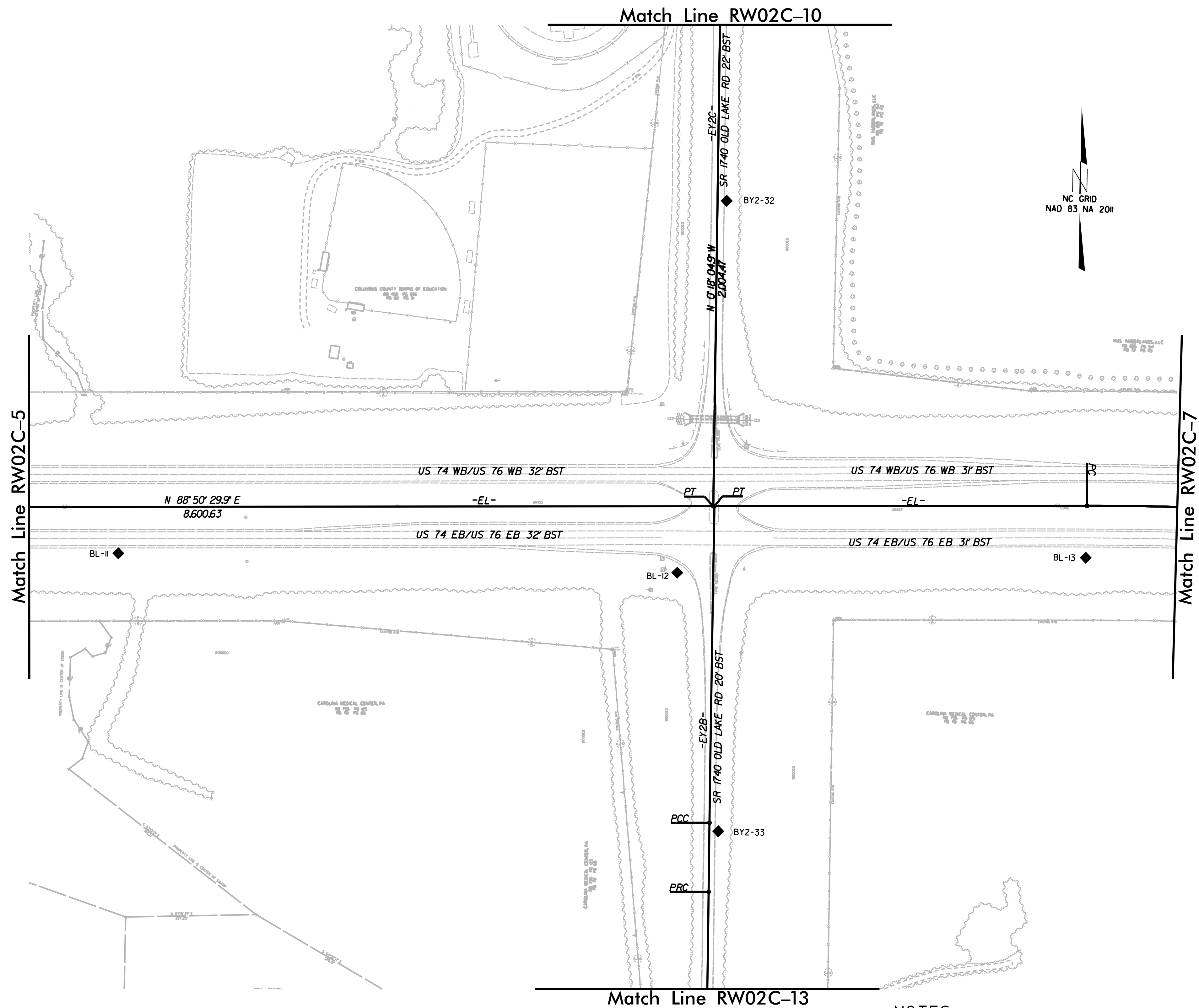
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6/2/09

PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02C-6
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



REVISIONS

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 wilson AT L5D6-299086

NOTES:

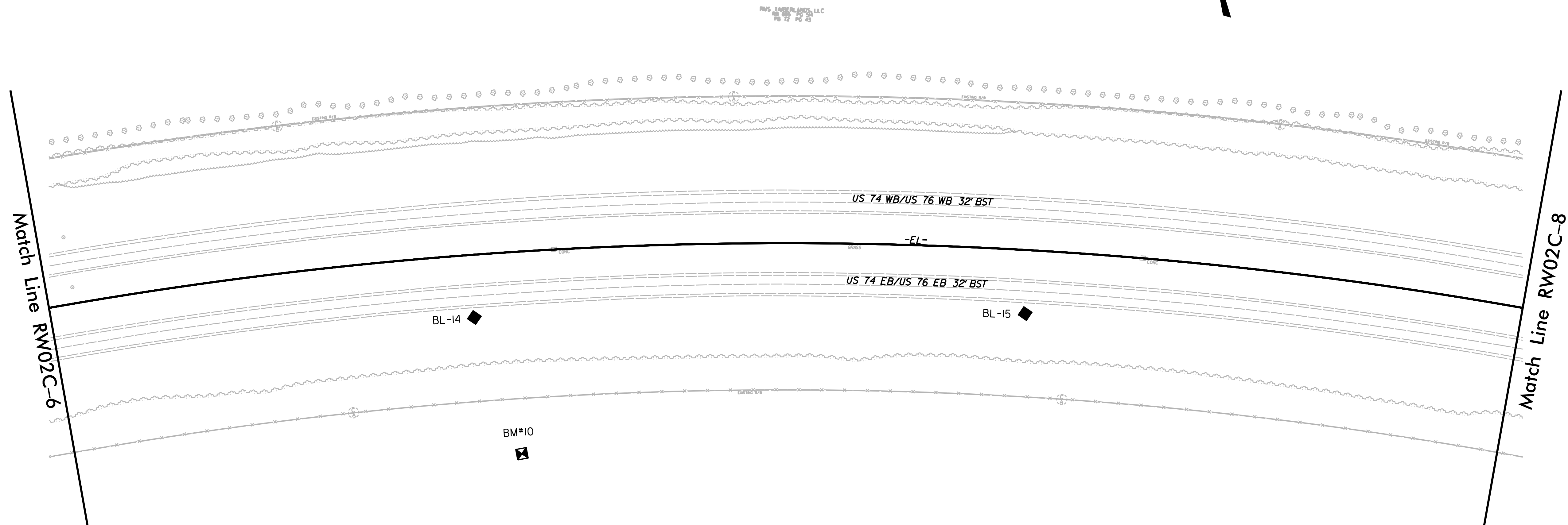
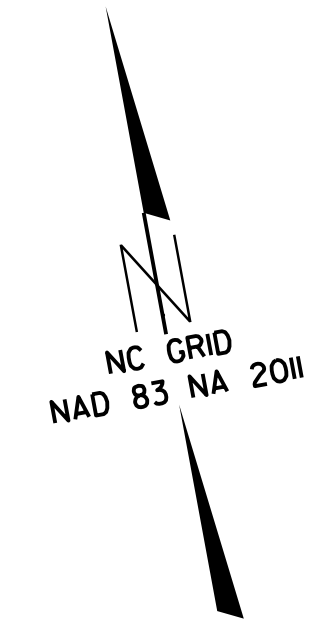
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6/2/09

PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02C-7
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



REVISIONS

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 willson AT LSDG-299086

- NOTES:**
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6/2/09

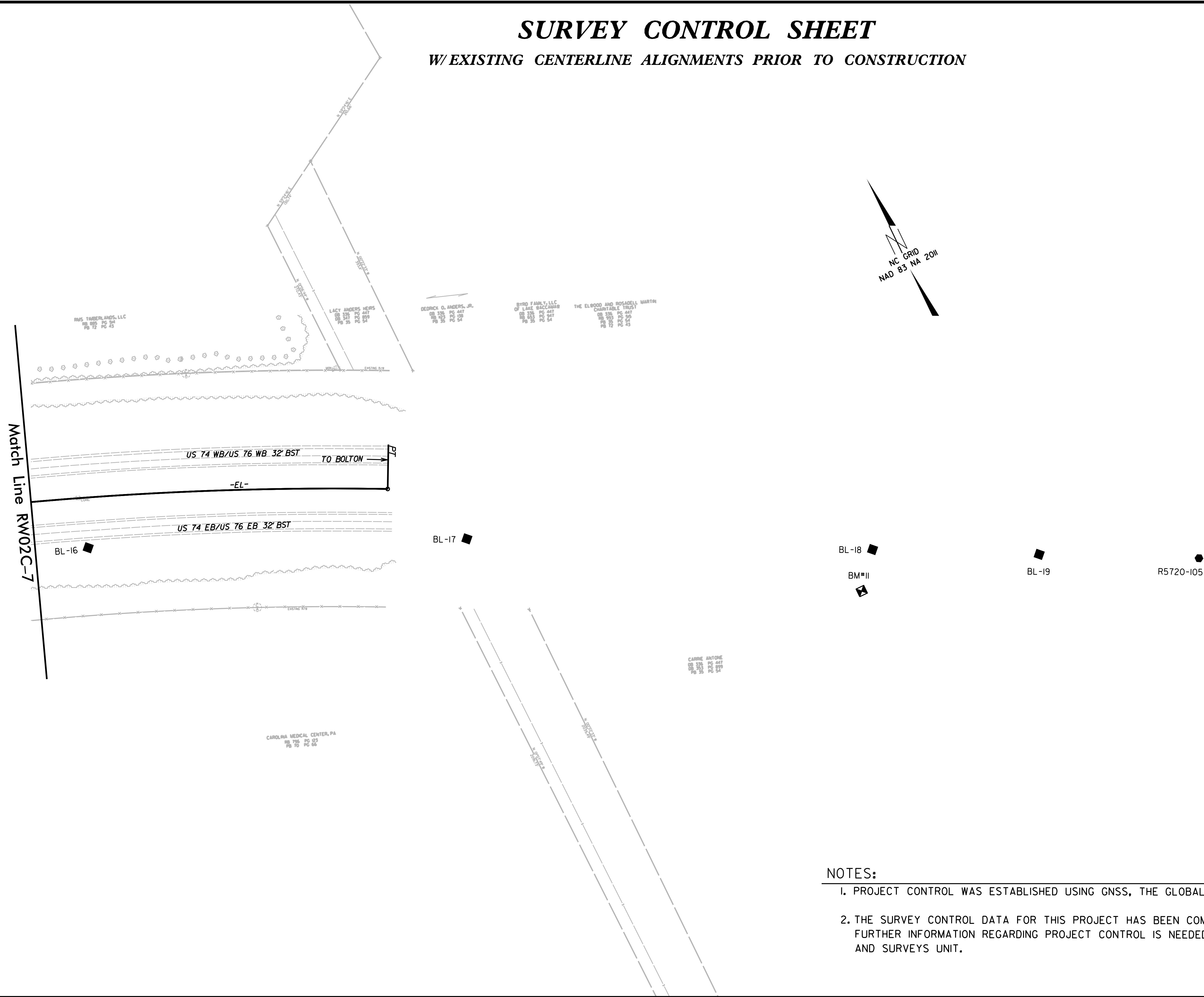
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willson AT L5D6-299086

PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02C-8
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02C-9
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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REVISIONS

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 kwillison AT LSD6-299086 6/2/09

6/2/09

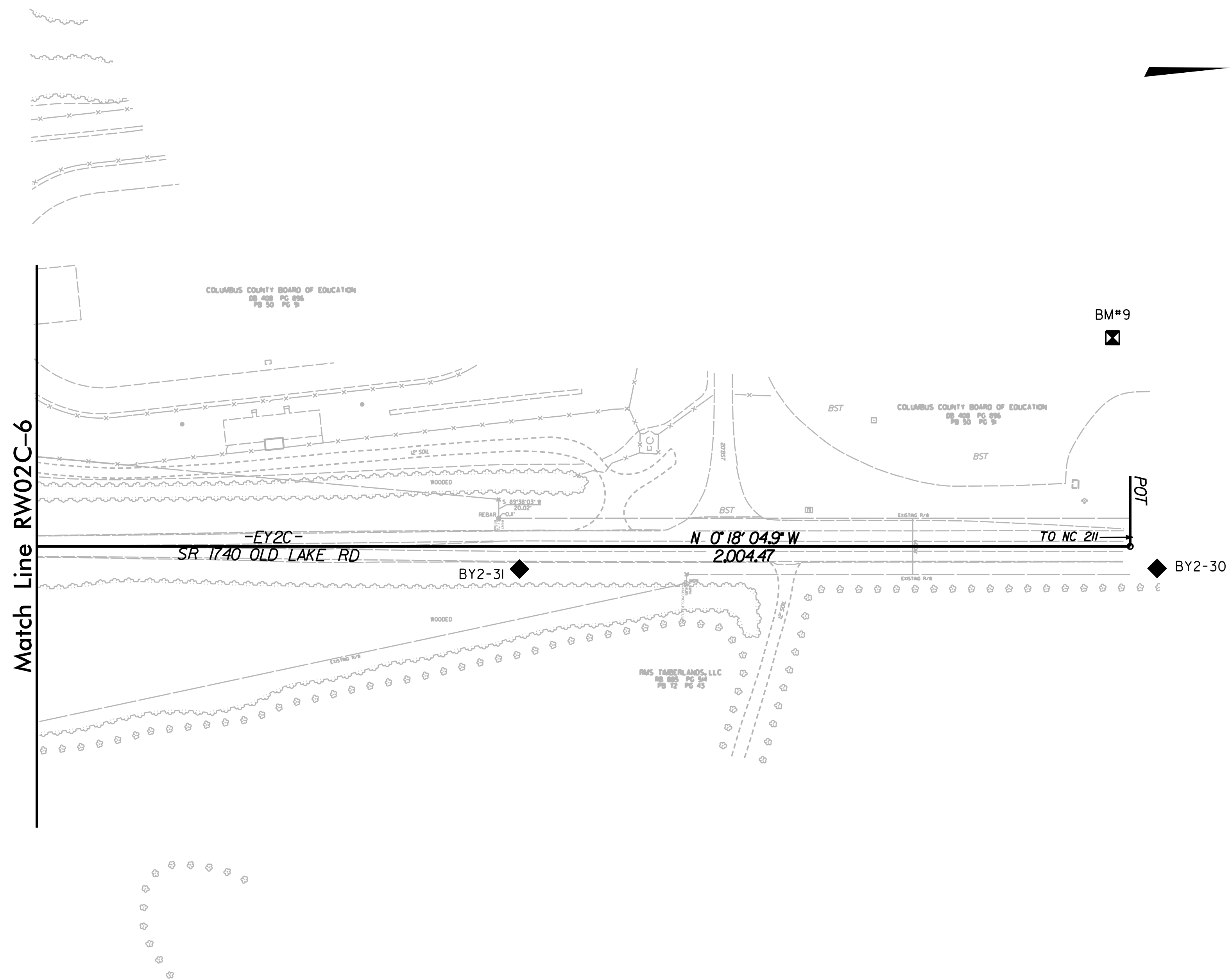
REVISIONS

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wilson AT LSDG-299086

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02C-10
Location and Surveys	
NCDOT	



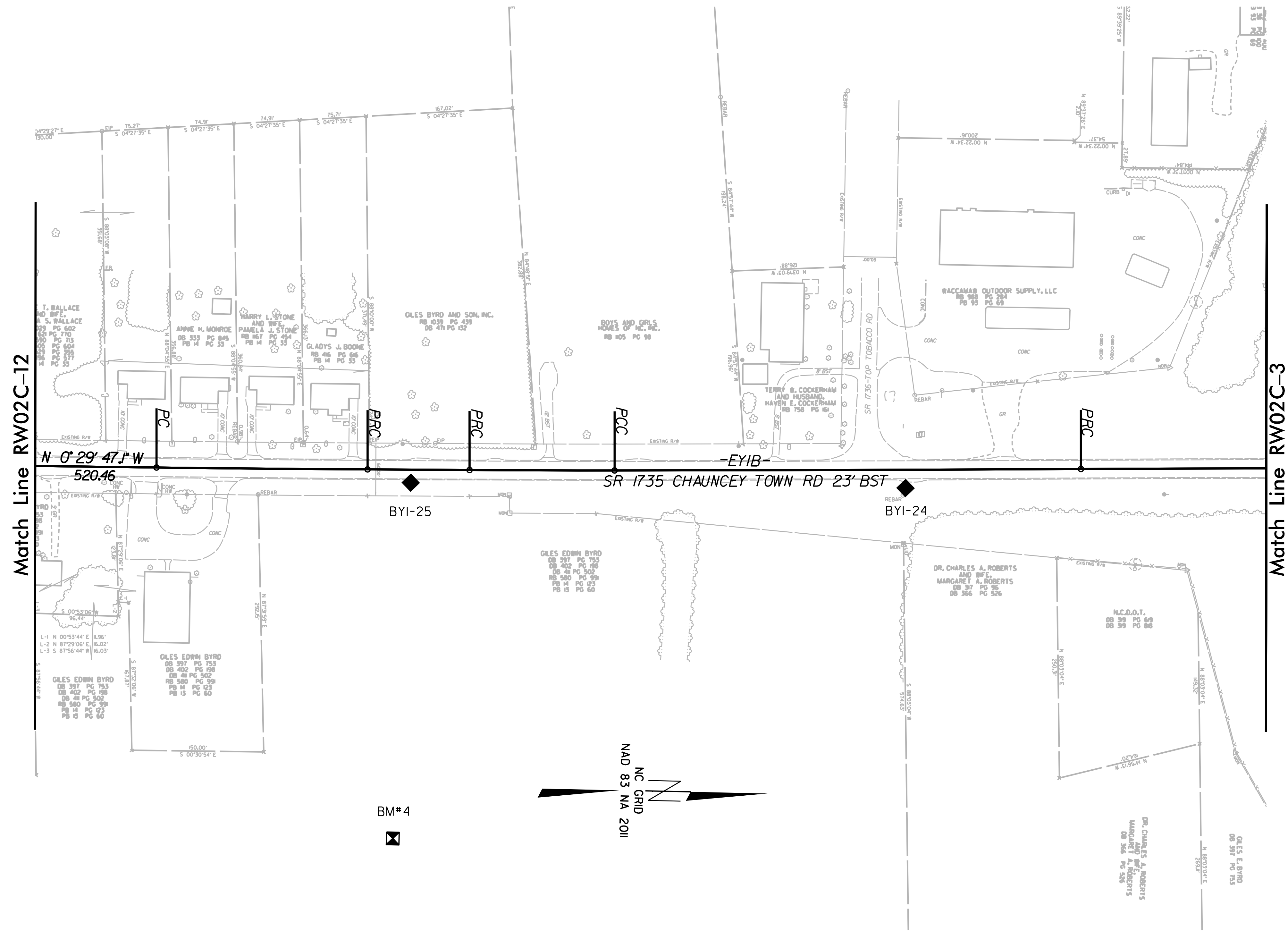
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PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02C-11
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



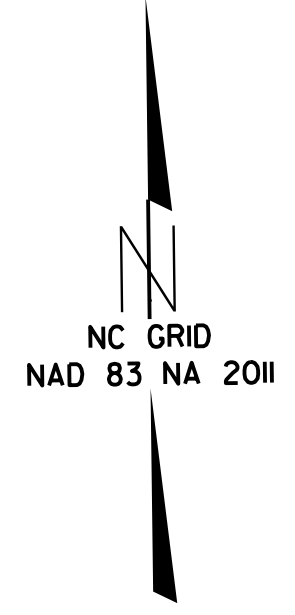
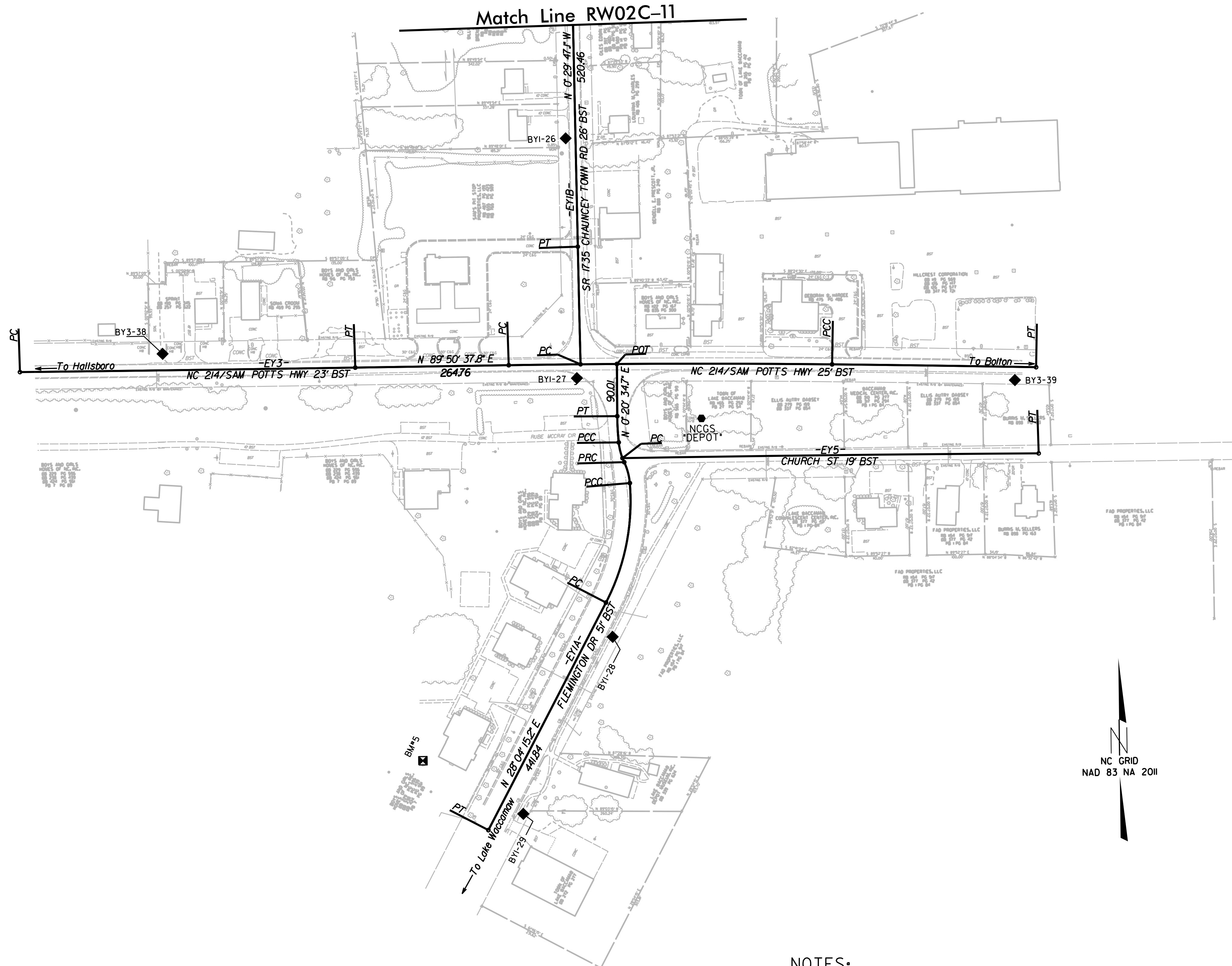
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PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW02C-12
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



NOTES:

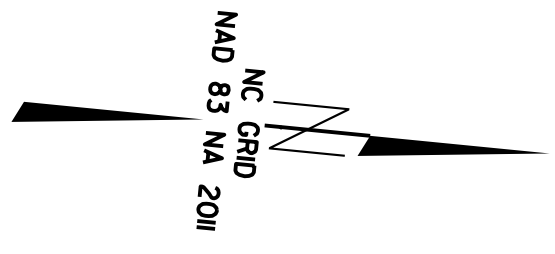
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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02C-13
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



Match Line RW02C-6

NOTES:

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REVISIONS

6/2/09

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 willison AT LSD6-299086

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW02C-14
Location and Surveys	
NCDOT	

BL POINT	DESC.	NORTH	EAST	ELEVATION
101	R5819-101	211255.1000	2140175.0370	69.45
102	R5819-102	211249.8810	2141195.3830	69.20
1	BL-1	211264.1650	2141800.7190	69.60
2	BL-2	211275.4670	2142427.4020	68.79
3	BL-3	211290.9070	2143092.5490	67.31
4	BL-4	211304.6440	2143745.4090	65.75
5	BL-5	211311.3740	2144290.8850	64.66
6	BL-6	211331.0880	2145062.0400	62.70
7	BL-7	211346.7340	2145809.4540	60.95
8	BL-8	211363.6330	2146493.2040	59.56
103	R5819-103	211375.0330	2147243.0600	59.17
104	R5819-104	211380.0450	2147772.6090	58.34
9	BL-9	211400.2250	2148494.9700	59.11
10	BL-10	211415.1970	2149295.1350	58.83
11	BL-11	211429.8330	2149960.5410	59.27
12	BL-12	211414.7860	2150934.6820	57.65
13	BL-13	211454.3570	2151645.8270	57.43
14	BL-14	211428.3310	2152368.9580	57.94
15	BL-15	211297.8790	2153105.0900	56.91
16	BL-16	211071.5670	2153824.3590	55.19
17	BL-17	210808.7620	2154407.1500	54.52
18	BL-18	210496.4240	2155016.6730	55.66
19	BL-19	210240.3810	2155536.1290	58.35
105	R5820-105	210015.9820	2155989.6510	59.61
106	R5820-106	209596.1720	2156816.1420	58.77

BY2 POINT	DESC.	NORTH	EAST	ELEVATION
30	BY2-30	213565.0650	2151008.0490	57.95
31	BY2-31	212885.2320	2151012.3180	57.30
32	BY2-32	212064.3000	2151008.3230	57.18
A12	BL-12	211414.7860	2150934.6820	57.65
33	BY2-33	210965.6760	2151014.7060	54.48
34	BY2-34	210101.4670	2151015.7040	52.88
35	BY2-35	209441.9780	2150964.9740	56.13
36	BY2-36	208574.7500	2151028.7470	58.69
37	BY2-37	207753.0380	2151034.6350	57.65

BY3 POINT	DESC.	NORTH	EAST	ELEVATION
38	BY3-38	208597.1640	2143552.9610	55.89
A27	BY1-27	208545.9850	2144267.1080	61.42
39	BY3-39	208532.9410	2145022.5490	61.80

BY4 POINT	DESC.	NORTH	EAST	ELEVATION
40	BY4-40	208530.4420	2150281.9300	58.99
A36	BY2-36	208574.7500	2151028.7470	58.69
41	BY4-41	208543.6990	2151758.7180	58.31

BY1 POINT	DESC.	NORTH	EAST	ELEVATION
20	BY1-20	213373.1640	2144023.8910	64.27
21	BY1-21	212476.1830	2144220.6330	63.70
22	BY1-22	211942.4660	2144191.4660	61.92
A5	BL-5	211311.3740	2144290.8850	64.66
23	BY1-23	210776.4580	2144191.5320	63.43
24	BY1-24	210145.3290	2144272.0820	61.66
25	BY1-25	209582.6210	2144278.1530	61.82
26	BY1-26	208959.9230	2144253.0950	60.12
27	BY1-27	208545.9850	2144267.1080	61.42
28	BY1-28	208098.9290	2144323.0100	60.37
29	BY1-29	207795.6240	2144164.9820	59.57

 BM1 ELEVATION = 66.38
 N 211178 E 2141222
 RRSPIKE IN 14' PINE

 BM2 ELEVATION = 67.81
 N 211570 E 2142403
 RRSPIKE IN 12' PINE

 BM3 ELEVATION = 65.70
 N 213427 E 2143962
 RRSPIKE IN 18' PINE

 BM4 ELEVATION = 63.28
 N 209571 E 2144683
 RRSPIKE IN 48' PINE

 BM5 ELEVATION = 61.76
 N 207890 E 2143993
 RRSPIKE IN 36' OAK

 BM6 ELEVATION = 61.04
 N 211624 E 2145833
 RRSPIKE IN 21' PINE

 BM7 ELEVATION = 59.25
 N 211147 E 2147536
 RRSPIKE IN 48' PINE

 BM8 ELEVATION = 54.85
 N 211713 E 2149318
 RRSPIKE IN 11' PINE

 BM9 ELEVATION = 61.33
 N 213516 E 2150762
 NE CORNER OF LP BASE

 BM10 ELEVATION = 56.25
 N 211235 E 2152399
 RRSPIKE IN 9' PINE

 BM11 ELEVATION = 53.04
 N 210441 E 2154970
 RRSPIKE IN 19' PINE

 BM12 ELEVATION = 59.17
 N 209515 E 2150696
 RRSPIKE IN 25' PINE

 BM13 ELEVATION = 60.72
 N 207692 E 2151058
 RRSPIKE IN 17' OAK

- NOTES:
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REVISIONS

DATE: 6/2/09
BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW02D-1

Location and Surveys

NV5

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

This 14th day of March, 2022.

DocuSigned by:

C. Andrew Heath, Jr.
Professional Land Surveyor L-3281

REVISIONS

LEB

TYPE	STATION	NORTH	EAST
PC	10+00.00	211294.3813	2140101.4813
PT	23+74.29	211295.3647	2141475.6870
POT	39+47.20	211327.1626	2143048.2756

LWB

TYPE	STATION	NORTH	EAST
PC	10+00.00	211431.3044	2140108.6526
PT	32+94.30	211402.1200	2142402.3538
POT	39+38.57	211415.1445	2143046.4907

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	211371.1536	2143047.3831
PC	96+00.63	211545.0240	2151646.2596
PT	123+71.25	210942.5372	2154323.0321

Y1

TYPE	STATION	NORTH	EAST
POT	10+00.00	208569.8887	2144273.3715
PC	17+23.41	209293.2732	2144267.1039
PRC	19+63.45	209533.2905	2144264.0613
PRC	20+79.42	209649.2483	2144262.2728
PCC	22+44.35	209814.1491	2144259.2265
PRC	27+74.67	210344.3106	2144246.1396
PT	32+63.00	210832.5135	2144235.2085
PC	33+24.07	210892.8436	2144244.6801
PT	33+65.52	210934.1673	2144246.8346
PC	42+86.22	211853.6424	2144199.3983
PT	43+27.67	211894.9661	2144201.5529
POT	43+90.73	211957.2589	2144211.3326
PC	46+67.04	212233.4994	2144205.2491
PCC	47+93.29	212359.6884	2144201.2810
PCC	50+42.64	212607.0380	2144171.8147
PT	54+02.25	212959.0842	2144098.4872
POT	58+39.24	213386.0689	2144005.5035

Y1A

TYPE	STATION	NORTH	EAST
POT	10+00.00	207932.1790	2144191.6833
PC	12+55.73	208157.8292	2144312.0220
PT	15+61.26	208452.9316	2144324.0192
POT	16+88.71	208569.8887	2144273.3715

Y1ROUND1

TYPE	STATION	NORTH	EAST
PC	10+00.00	210883.8843	2144243.2735
PCC	10+62.91	210843.1151	2144286.1164
PCC	11+54.30	210780.5226	2144236.1780
PCC	12+24.36	210820.0416	2144184.7263
PT	13+26.73	210883.8843	2144243.2735

Y1ROUND2

TYPE	STATION	NORTH	EAST
PC	10+00.00	212009.1791	2144210.1892
PCC	10+70.23	211969.6811	2144261.8270
PCC	11+72.65	211905.8254	2144203.2577
PCC	12+35.97	211947.0225	2144160.3532
PT	13+26.73	212009.1791	2144210.1892

Y1RPA

TYPE	STATION	NORTH	EAST
POT	10+00.00	211502.7653	2146192.6534
TS	12+97.75	211512.3341	2145895.0552
SC	15+37.75	211526.1905	2145655.5188
CS	21+03.51	211687.2977	2145116.4191
ST	23+43.51	211807.1441	2144908.5572
TS	23+43.51	211807.1442	2144908.5570
SC	25+83.51	211919.4241	2144696.8455
PRC	29+17.77	211955.9659	2144368.2155
PT	30+10.29	211973.9811	2144279.3059
POT	30+80.29	211957.2589	2144211.3326

Y1RPB

TYPE	STATION	NORTH	EAST
TS	10+00.00	211420.9282	2142064.2642
SC	11+00.00	211424.6243	2142244.2190
PT	20+59.72	211587.7251	2143105.4865
TS	27+33.30	211825.7044	2143735.6194
SC	29+13.30	211886.4941	2143905.0154
PT	30+81.66	211928.4732	2144067.9747
POT	32+27.88	211957.2589	2144211.3326

Y1RPC

TYPE	STATION	NORTH	EAST
POT	10+00.00	211287.0491	2142251.6143
TS	13+01.89	211277.3472	2142553.3502
SC	15+41.89	211263.4908	2142792.8867
CS	21+07.70	211102.3605	2143332.0316
ST	23+47.70	210982.5074	2143539.8896
TS	23+47.70	210982.5074	2143539.8896
SC	25+87.70	210870.2427	2143751.6078
PRC	29+20.02	210833.7396	2144078.3422
PT	30+12.54	210815.7244	2144167.2517
POT	30+82.54	210832.5135	2144235.2085

Y1RPD

TYPE	STATION	NORTH	EAST
POT	10+00.00	211370.0558	2146356.7642
TS	10+46.69	211369.1120	2146310.0862
SC	12+26.69	211363.4814	2146130.1831
CS	19+77.74	211220.6248	2145395.2931
ST	21+57.74	211158.4487	2145226.3820
TS	26+90.83	210968.7702	2144728.1741
SC	28+70.83	210907.9805	2144558.7781
PT	30+28.03	210868.2378	2144406.7533
POT	32+03.25	210832.5135	2144235.2085

Y2

TYPE	STATION	NORTH	EAST
POT	10+00.00	208525.2239	2150995.2244
PC	17+51.06	209276.2735	2150991.2750
PCC	18+97.16	209422.3757	2150991.2159
PRC	26+10.07	210135.2451	2150997.7954
PRC	34+61.55	210986.7070	2150998.6664
PT	36+29.15	211154.2957	2150997.2232
PC	66+34.93	214160.0336	2150981.4141
PCC	77+19.06	215151.4201	2150603.4433
PCC	80+55.14	215403.1779	2150380.7965
PT	81+16.06	215448.7181	2150340.3422
POT	83+58.76	215629.9510	2150178.9175

Y3

TYPE	STATION	NORTH	EAST
PC	10+00.00	208568.7084	2143541.8964
PT	13+43.13	208569.1867	2143885.0237
PC	16+07.89	208569.9083	2144149.7865
PCC	21+65.77	208564.1653	2144707.6152
PT	23+92.29	208558.3794	2144934.0668

Y3ROUND

TYPE	STATION	NORTH	EAST
PC	10+00.00	208569.9838	2144221.3716
PCC	10+81.14	208621.8867	2144272.9210
PCC	11+63.49	208569.6673	2144325.3710
PCC	12+23.70	208522.1708	2144294.0355
PT	13+26.73	208569.9838	2144221.3716

Y5

TYPE	STATION	NORTH	EAST
PC	10+00.00	208407.0774	2144340.0925
PT	13+60.97	208407.5301	2144701.0614

Y7

TYPE	STATION	NORTH	EAST
POT	10+00.00	212499.6257	2144189.4085
PC	12+36.61	212508.7947	2144425.8385
PRC	14+07.72	212515.4253	2144596.8162
PCC	16+66.74	212527.7090	2144855.5342
PRC	21+18.87	212561.6898	2145306.3824
PT	22+38.65	212570.6322	2145425.8254
PC	27+13.23	212601.1151	2145899.4256
PT	28+32.53	212609.6797	2146018.4143
PC	31+21.79	212632.6322	2146306.7565
PT	33+02.06	212644.8777	2146486.6112
PC	44+59.82	212710.2881	2147642.5233
PT	50+23.41	212845.1889	2148186.3623
PC	59+52.66	213231.8702	2149031.3358
PRC	68+39.09	213809.7837	2149686.6762
PT	82+37.35	214821.9743	2150637.8462
PC	86+33.28	215050.9695	2150960.8459
PT	95+51.30	215715.4118	2151585.4595
POT	99+51.02	216055.1496	2151796.0715

DET1

TYPE	STATION	NORTH	EAST
PC	10+00.00	209814.1491	2144259.2265
PRC	10+85.73	209899.8522	2144257.2472
PRC	13+88.83	210191.9023	2144325.3792
PT	16+91.32	210483.3327	2144393.5255
PC	34+12.46	212204.0480	2144355.0362
PRC	37+76.83	212543.9428	2144240.1299
PRC	40+31.65	212775.1518	2144137.6293
PT	42+19.70	212959.0842	2144098.4872

DET2

TYPE	STATION	NORTH	EAST
PC	10+00.00	210135.2451	2150997.7954
PT	12+17.76	210352.9955	2151000.1229
PC	12+17.77	210353.0028	2151000.1229
PRC	14+89.83	210610.4592	2151076.3449
PT	17+68.00	210674.0394	2151152.5733
PC	32+36.90	212342.9172	2151144.8475
PRC	35+44.10	212636.4558	2151066.3656
PT	38+51.29	212929.9944	2150987.8837
POT	41+46.42	213225.1203	2150986.3314

NOTES:

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

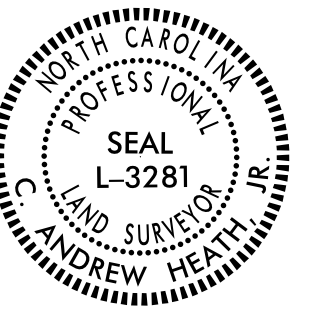
RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. SHEET NO.
R-5819R-5820 RW03E-1

Location and Surveys



PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. Andrew Heath, Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
DocuSigned by:
C. Andrew Heath, Jr.
Professional Land Surveyor L-3281

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+74.00	46.00	208644.2844	2144318.7286
Y1	11+25.00	-50.00	208694.4508	2144222.2904
Y1	11+39.08	30.03	208709.2230	2144302.1992
Y1	12+35.00	-50.00	208804.4467	2144221.3373
Y1	13+44.00	37.00	208914.1963	2144307.3897
Y1	13+44.00	30.00	208914.1357	2144300.3900
Y1	15+90.00	-37.00	209159.5460	2144231.2612
Y1	17+23.41	37.00	209293.5921	2144304.1026
Y1	17+23.41	-37.00	209292.9510	2144230.1053
Y1	19+63.45	-37.00	209532.6730	2144227.0665
Y1	19+63.45	37.00	209533.9079	2144301.0562
Y1	20+79.42	-37.00	209648.7245	2144225.2765
Y1	20+79.42	37.00	209649.7721	2144299.2691
Y1	21+25.06	37.00	209695.4972	2144298.5671
Y1	21+54.25	-37.00	209723.4041	2144224.0729

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	13+00.00	-40.00	212551.5800	2144487.5231
Y7	13+10.02	40.00	212472.0550	2144500.7850
Y7	14+07.72	40.00	212475.4429	2144598.0005
Y7	14+07.72	-40.00	212555.4078	2144595.6320
Y7	16+66.74	40.00	212487.7942	2144858.1434
Y7	16+66.74	-40.00	212567.6239	2144852.9251
Y7	21+18.87	40.00	212521.8348	2145309.7855
Y7	21+18.87	-40.00	212601.5448	2145302.9792
Y7	22+38.65	40.00	212530.7148	2145428.3946
Y7	22+38.65	-40.00	212610.5496	2145423.2561
Y7	27+13.23	40.00	212561.1977	2145901.9949
Y7	27+13.23	-40.00	212641.0325	2145896.8564
Y7	28+32.53	40.00	212569.8059	2146021.5883
Y7	28+32.53	-40.00	212649.5536	2146015.2403
Y7	31+21.79	-40.00	212672.5061	2146303.5825
Y7	31+21.79	40.00	212592.7583	2146309.9306
Y7	33+02.06	-50.00	212694.7978	2146483.7863
Y7	33+02.06	50.00	212594.9576	2146489.4360
Y7	44+59.82	-50.00	212760.2082	2147639.6984
Y7	44+59.82	50.00	212660.3679	2147645.3482
Y7	50+23.41	-50.00	212890.6544	2148165.5561
Y7	50+23.41	50.00	212799.7357	2148207.1950
Y7	59+52.66	50.00	213186.4048	2149052.1419
Y7	59+52.66	-50.00	213277.3357	2149010.5296
Y7	66+27.00	50.00	213605.8839	2149601.1203
Y7	67+06.00	50.00	213669.9059	2149651.7249
Y7	68+39.09	-40.00	213830.8471	2149652.6712
Y7	68+39.09	-50.00	213836.1130	2149644.1700
Y7	68+39.09	50.00	213783.4545	2149729.1823
Y7	68+39.09	40.00	213788.7204	2149720.6811
Y7	82+37.35	40.00	214789.3430	2150660.9806
Y7	82+37.35	-40.00	214854.6055	2150614.7118
Y7	83+00.00	40.00	214825.5801	2150712.0933
Y7	83+43.00	-40.00	214915.7122	2150700.9031
Y7	84+87.00	-40.00	214998.9960	2150818.3757
Y7	85+15.00	40.00	214949.9276	2150887.4864
Y7	86+33.28	40.00	215018.3383	2150983.9803
Y7	86+33.28	-40.00	215083.6008	2150937.7115
Y7	89+95.08	40.00	215253.9191	2151266.3152
Y7	93+38.59	40.00	215515.9333	2151497.0947
Y7	95+51.30	40.00	215694.3360	2151619.4567
Y7	95+51.30	-40.00	215736.4875	2151551.4623
Y7	96+00.00	-30.00	215772.6096	2151585.6209
Y7	96+60.00	40.00	215786.7229	2151676.7297
Y7	96+60.00	30.00	215791.9919	2151668.2304

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1A	14+95.00	-37.07	208382.0949	2144308.0543
Y1A	15+95.00	-42.00	208467.2075	2144272.0681

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1RPD	17+31.00	-97.97	211194.8107	2145655.2324
Y1RPD	19+55.00	-130.00	211104.6026	2145457.9903
Y1RPD	19+87.00	-90.43	211132.1698	2145416.1705

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	54+88.36	50.00	213013.7453	2151037.4439
Y2	60+50.00	-50.13	213574.8518	2150934.3579
Y2	60+50.00	-65.00	213574.7736	2150919.4915
Y2	63+85.00	-65.00	213909.7689	2150917.7295
Y2	65+13.00	-49.75	214037.8474	2150932.3107
Y2	65+76.67	-40.00	214101.5722	2150941.7211
Y2	66+34.93	50.00	214160.2966	2151031.4134
Y2	66+34.93	-40.00	214159.8232	2150941.4147
Y2	68+21.16	50.00	214352.1456	2151018.5544
Y2	69+84.74	40.00	214515.8993	2150978.1347
Y2	72+67.12	40.00	214789.6766	2150884.2285
Y2	73+30.00	-40.00	214812.0264	2150784.9746
Y2	73+48.32	79.00	214882.6190	2150882.5519
Y2	74+98.16	47.00	215001.3732	2150776.4139
Y2	75+30.00	-30.00	214985.3468	2150694.5809
Y2	77+19.06	-30.00	215131.5659	2150580.9531

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	16+27.00	30.00	208539.9519	2144168.9499
Y3	16+48.00	-65.60	208635.5795	2144189.8389
Y3	18+36.00	-30.00	208599.3147	2144378.1308
Y3	18+43.59	62.00	208507.2563	2144384.9696
Y3	19+25.00	37.00	208531.4284	2144466.4418
Y3	20+31.00	30.00	208536.8877	2144572.3666

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR1	11+80.00	-30.00	213561.5573	2149735.6029
DR1	11+80.00	30.00	213521.4103	2149691.0133

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 FEBRUARY 2022 TO MARCH 2022 .

Location and Surveys

NV5

NVS ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F 1333
Formerly C&I Engineers & Consultants

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

RIGHT OF WAY CONTROL SHEET

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+84.00	65.00	208654.4487	2144337.6413
Y1	10+98.46	40.00	208668.6879	2144312.5170
Y1	11+06.00	55.00	208676.3612	2144327.4510
Y1	11+47.00	30.03	208717.1437	2144302.1227
Y1	11+47.00	54.00	208717.3510	2144326.0959
Y1	11+59.00	-50.00	208728.4495	2144221.9958
Y1	11+67.00	-72.00	208736.2586	2144199.9273
Y1	11+71.00	-56.00	208740.3971	2144215.8921
Y1	11+74.00	30.01	208744.1422	2144301.8698
Y1	11+74.00	54.00	208744.3500	2144325.8619
Y1	11+87.00	-77.00	208756.2145	2144194.7542
Y1	11+91.00	-60.00	208760.3617	2144211.7189
Y1	13+32.00	-68.00	208901.2871	2144202.4976
Y1	13+38.00	-85.00	208907.1396	2144185.4463
Y1	13+53.00	-45.68	208922.4797	2144224.6360
Y1	13+53.00	-80.00	208922.1823	2144190.3161
Y1	13+77.00	-44.80	208946.4864	2144225.3069
Y1	13+77.00	-73.00	208946.2421	2144197.1079
Y1	14+12.00	37.00	208982.1938	2144306.8006
Y1	14+25.00	224.00	208996.8134	2144493.6809
Y1	14+26.00	203.00	208997.6315	2144472.6731
Y1	14+39.00	-76.00	209008.2137	2144193.5709
Y1	14+39.00	-42.53	209008.5037	2144227.0401
Y1	14+40.00	204.00	209011.6396	2144473.5517
Y1	14+51.00	55.00	209021.3483	2144324.4620
Y1	14+59.00	-79.00	209028.1870	2144190.3977
Y1	14+70.00	225.00	209041.8204	2144494.2910
Y1	14+70.00	-41.39	209039.5124	2144227.9066
Y1	14+82.00	63.00	209052.4164	2144332.1931
Y1	16+45.00	-61.00	209214.3360	2144206.7856
Y1	16+45.00	-37.00	209214.5439	2144230.7847
Y1	16+79.00	-61.00	209248.3347	2144206.4910
Y1	16+79.00	-37.00	209248.5426	2144230.4901
Y1	21+39.00	-58.00	209707.8185	2144203.3451
Y1	21+39.00	-37.00	209708.1813	2144224.3420
Y1	21+68.00	-58.00	209736.7258	2144202.8238
Y1	21+68.00	-46.00	209736.9513	2144214.8204
Y1	23+36.23	60.00	209907.4091	2144317.0866
Y1	23+41.00	76.00	209912.5573	2144332.9702
Y1	23+60.00	62.34	209931.2397	2144318.8620
Y1	23+62.00	73.00	209933.4920	2144329.4763

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1A	15+80.00	75.31	208500.0597	2144385.6780

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1RPB	19+58.00	-112.00	211663.0367	2142975.7461
Y1RPB	19+58.00	-101.81	211653.3027	2142978.7558
Y1RPB	19+90.00	-112.00	211672.2933	2143005.1277
Y1RPB	19+90.00	-102.48	211663.2281	2143008.0368

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	12+69.00	-68.00	208637.0058	2143810.7500
Y3	12+69.00	-49.30	208618.3058	2143810.7902
Y3	12+75.00	-97.00	208666.0187	2143816.6831
Y3	12+75.00	-68.00	208637.0188	2143816.7468
Y3	12+77.00	30.00	208539.0235	2143818.9625
Y3	12+77.00	38.00	208531.0235	2143818.9802
Y3	13+01.00	-98.00	208667.0784	2143842.6610
Y3	13+01.00	-49.30	208618.3786	2143842.7779
Y3	13+81.00	68.00	208501.2901	2143923.0812
Y3	13+81.00	53.00	208516.2901	2143923.0403
Y3	14+03.00	55.00	208514.3500	2143945.0457
Y3	14+03.00	70.00	208499.3501	2143945.0865
Y3	15+89.00	75.00	208494.8571	2144131.0995
Y3	15+89.00	62.00	208507.8570	2144131.0640
Y3	15+89.00	30.00	208539.8569	2144130.9768
Y3	16+12.00	62.00	208507.9193	2144154.0521
Y3	16+12.00	75.00	208494.9193	2144154.0850
Y3	16+12.00	30.00	208539.9192	2144153.9710
Y3	16+75.23	64.00	208505.9860	2144217.0980
Y3	18+54.00	65.00	208504.1679	2144395.3230
Y3	18+54.00	70.00	208499.1681	2144395.2791
Y3	18+84.00	49.64	208519.2477	2144425.3867
Y3	18+84.00	66.00	208502.8850	2144425.2204

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	11+10.19	75.00	212428.9522	2144302.4245
Y7	15+28.00	60.00	212460.0459	2144719.7816
Y7	21+41.00	-75.00	212638.2818	2145322.3396
Y7	21+41.00	-40.00	212603.3975	2145325.1827
Y7	22+00.00	-75.00	212642.8303	2145381.9384
Y7	22+00.00	-40.00	212607.9185	2145384.4220
Y7	22+38.65	-55.00	212625.5187	2145422.2926
Y7	22+68.00	-55.00	212627.4036	2145451.6787
Y7	22+68.00	-40.00	212612.4346	2145452.5422
Y7	25+52.00	54.00	212536.8704	2145741.9935
Y7	30+05.00	58.00	212565.5481	2146194.9416
Y7	30+05.00	40.00	212583.4913	2146193.5132
Y7	30+41.00	40.00	212586.3480	2146229.3997
Y7	30+41.00	58.00	212568.4047	2146230.8280
Y7	31+52.00	41.96	212593.1273	2146340.0495
Y7	31+52.00	59.00	212576.1404	2146341.3361
Y7	49+19.00	50.00	212758.2176	2148107.6636
Y7	49+65.00	50.00	212775.6609	2148151.8678
Y7	49+95.00	133.00	212711.6696	2148213.5587
Y7	50+14.00	117.00	212734.6335	2148225.8828
Y7	64+80.00	50.00	213494.1593	2149498.3431
Y7	65+00.00	97.00	213475.7389	2149546.4001
Y7	74+82.00	58.00	214283.2279	2150116.2781
Y7	74+82.00	40.00	214295.3420	2150102.9646
Y7	74+86.00	-58.00	214364.3027	2150033.2186
Y7	74+86.00	-40.00	214352.1733	2150046.5182
Y7	75+14.00	-58.00	214385.2568	2150052.4830
Y7	75+14.00	-40.00	214373.0215	2150065.6852
Y7	75+19.00	40.00	214322.2651	2150127.7238
Y7	75+19.00	58.00	214310.0110	2150140.9085

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR1	10+88.00	-56.00	213647.3249	2149693.3664
DR1	10+88.00	-36.84	213634.5063	2149679.1294
DR1	11+09.00	-35.28	213617.8549	2149692.0201
DR1	11+09.00	-56.00	213631.7185	2149707.4178
DR1	11+17.97	35.19	213564.0374	2149645.6516

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 FEBRUARY 2022 TO MARCH 2022 .

I, C. Andrew Heath, Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.

C. Andrew Heath, Jr.

Professional Land Surveyor L-3281

REVISIONS

6/2/19

6/2/19

Location and Surveys



PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

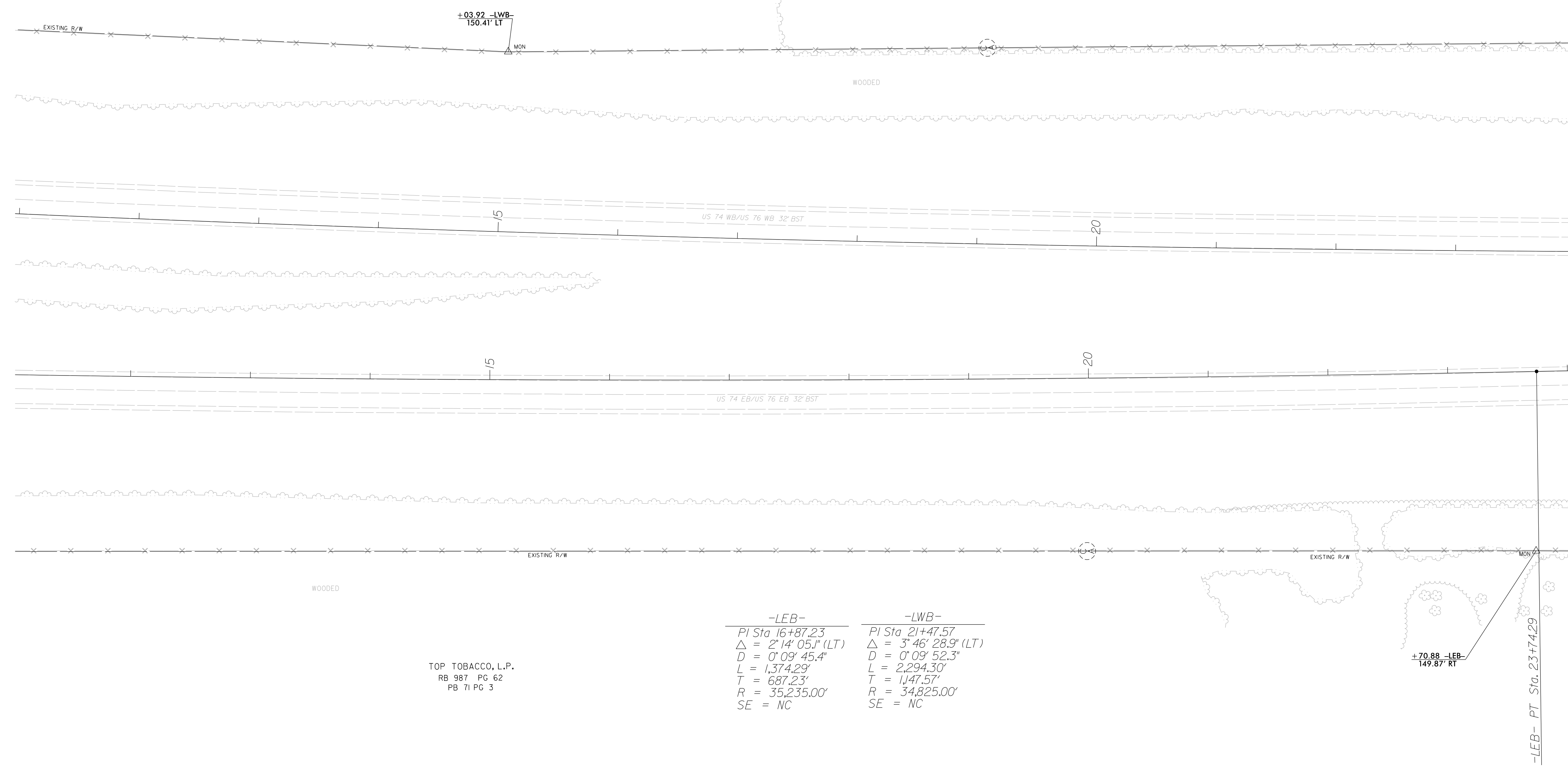
I, C. Andrew Heath Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.

C. Andrew Heath Jr.
Professional Land Surveyor L-3281

NAD 83/NA 2011

1
BOATHOUSE SOLAR, LLC
RB 1100 PG 118
PB 71 PG 3



TOP TOBACCO, L.P.
RB 987 PG 62
PB 71 PG 3

-LEB-	-LWB-
PI Sta 16+87.23	PI Sta 21+47.57
$\Delta = 2^{\circ} 14' 05.1''$ (LT)	$\Delta = 3^{\circ} 46' 28.9''$ (LT)
D = 0' 09' 45.4"	D = 0' 09' 52.3"
L = 1,374.29'	L = 2,294.30'
T = 687.23'	T = 1,147.57'
R = 35,235.00'	R = 34,825.00'
SE = NC	SE = NC

+70.88 -LEB-
149.87' RT

-LEB- PT Sta. 23+74.29

MATCHLINE -LWB- STA. 24 + 00.00
SEE SHEET RW05

REVISIONS

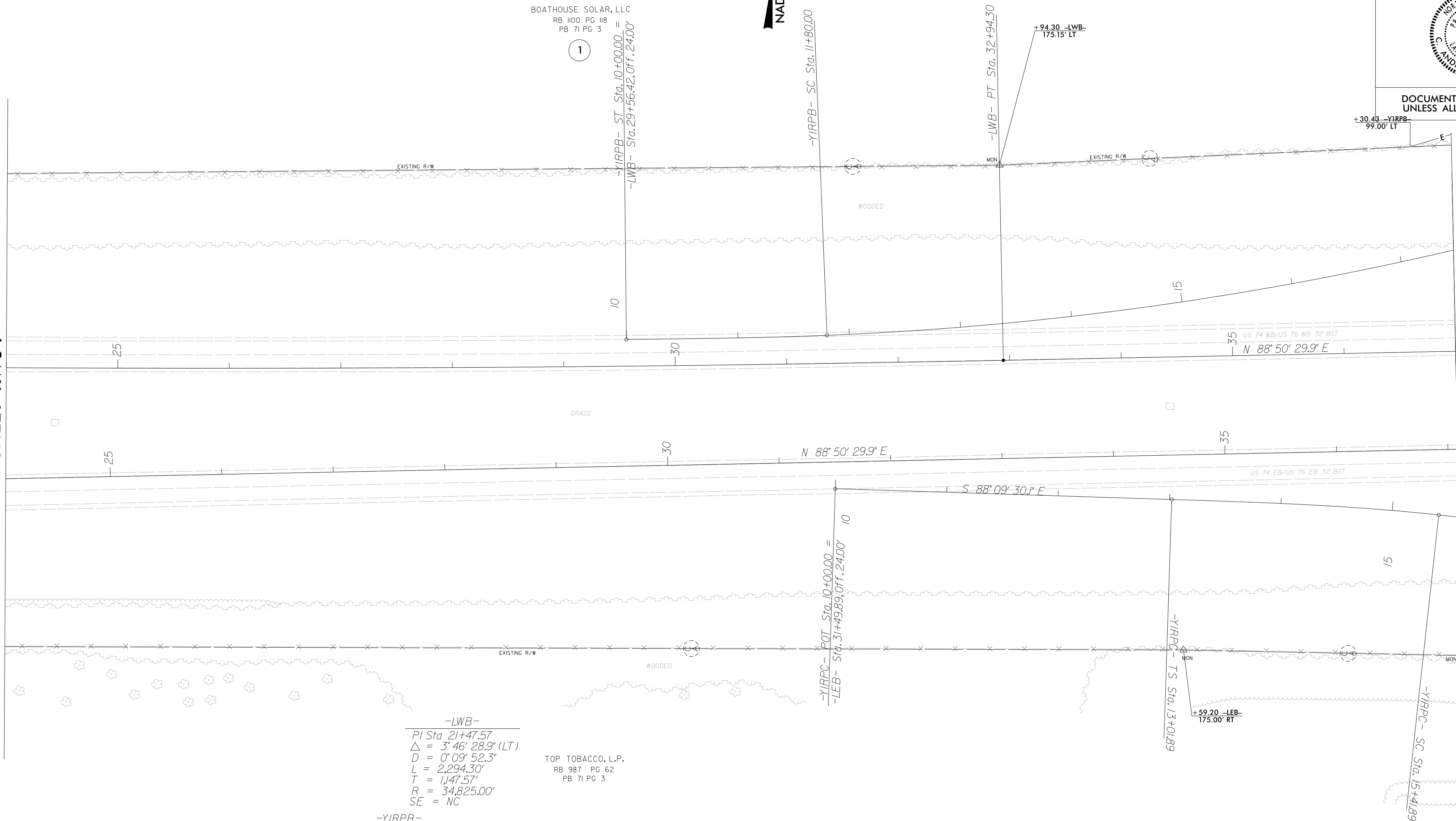
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D:\Projects\2022\20221014_87_SURVY_SHEETS\5819R-5820.1.s_rw04.dgn
AT:\NCCAP-GRANS100
scott.panford

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 FEBRUARY 2022 TO MARCH 2022 .

REVISIONS

MATCHLINE -LWB- STA. 24 + 00.00
SEE SHEET RW04



-LWB-

PI Sta 21+47.57	Δ = 3° 46' 28.9" (LT)
D = 0° 09' 52.3"	L = 2,294.30'
T = 1,147.57'	R = 34,825.00'
SE = NC	

-YIRPB-

PIs Sta 11+20.01	PI Sta 16+23.04
θs = 1° 43' 07.9"	Δ = 16° 48' 05.3" (LT)
Ls = 180.00'	D = 1° 54' 35.5"
LT = 120.01'	L = 879.72'
ST = 60.01'	T = 443.04'
	R = 3,000.00'
	SE = 06

-YIRPC-

PIs Sta 14+61.94	PI Sta 18+27.94
θs = 4° 24' 26.5"	Δ = 20° 46' 51.2" (RT)
Ls = 240.00'	D = 3° 40' 22.1"
LT = 160.05'	L = 565.80'
ST = 80.05'	T = 286.04'
	R = 1,560.00'
	SE = 08

TOP TOBACCO, L.P.
RB 987 PG 62
PB 71 PG 3

BOATHOUSE SOLAR, LLC
RB 100 PG 118
PB 71 PG 3

NAD 83/NA 2011

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.

C. Andrew Heath Jr.
Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	R-5819R-5820
SHEET NO.	RW05
Location and Surveys	
NIVIS	
<small>NIVIS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NIVIS.com NC License # 41338 Formerly CALV Engineers & Consultants</small>	
PROJECT SURVEYOR	

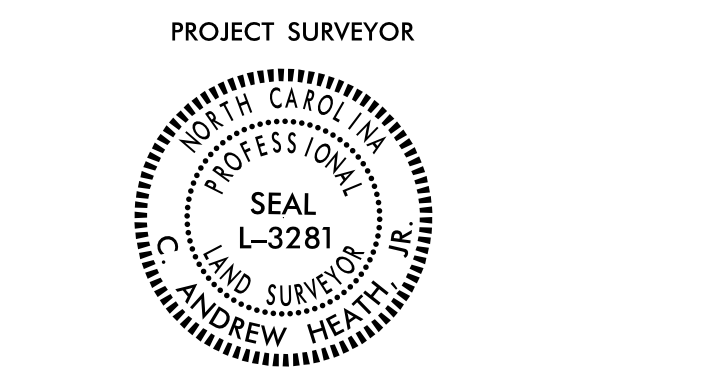
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -LWB- STA. 37 + 00.00
SEE SHEET RW06

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 FEBRUARY 2022 TO MARCH 2022 .

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

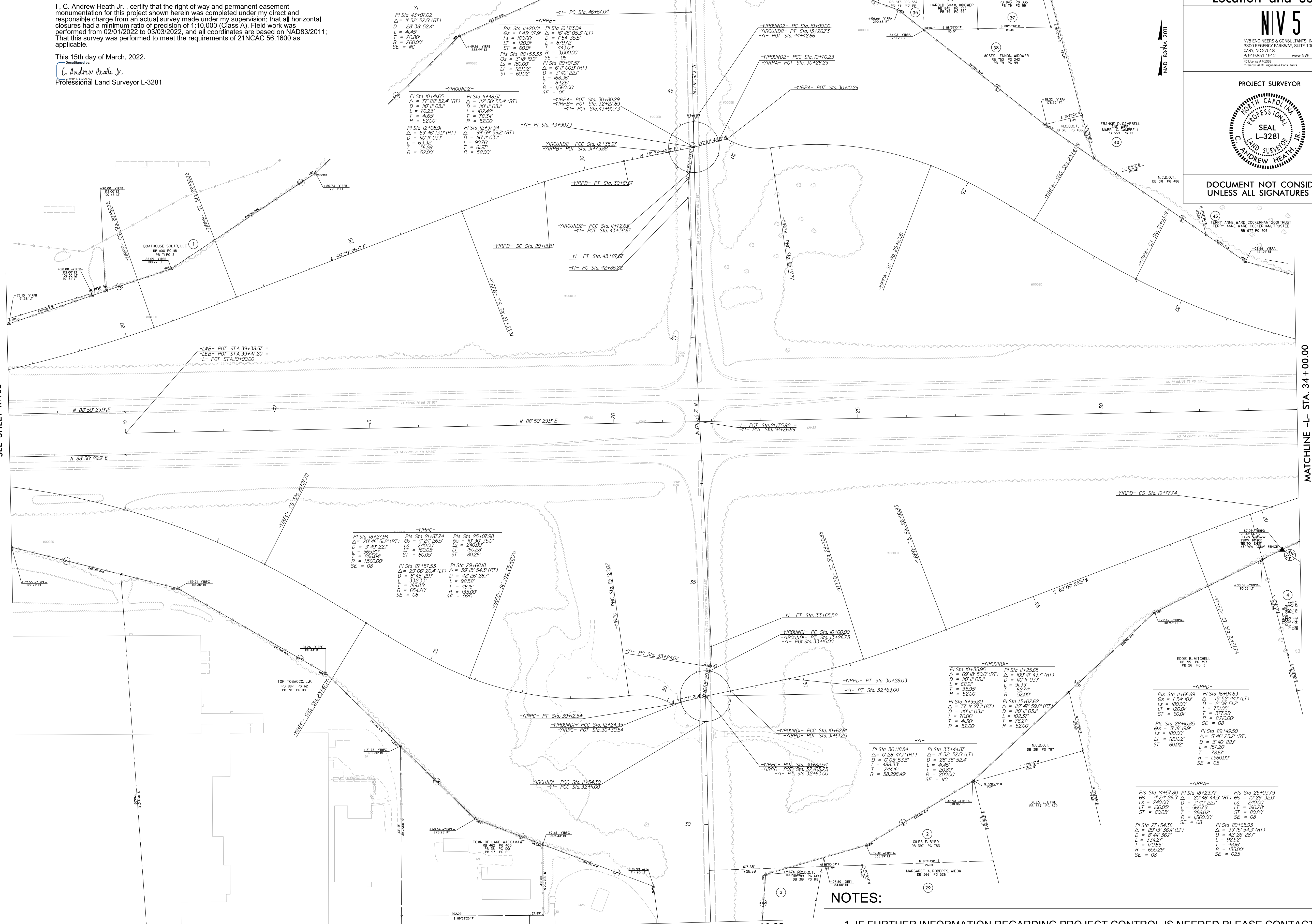
I, C. Andrew Heath Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022. C. Andrew Heath Jr. Professional Land Surveyor L-3281

MATCHLINE -Y1- STA. 47 + 00.00 SEE SHEET RW15

MATCHLINE -LWB- STA. 37 + 00.00 SEE SHEET RW05

MATCHLINE -L- STA. 34 + 00.00 SEE SHEET RW07



-Y1- PI Sta 43+07.02 Δ = 1°52' 32.5" (RT) D = 28° 58' 52.4" L = 41.45' T = 20.80' R = 200.00' SE = NC

-YIRPB- PI Sta 11+20.01 Δ = 1°43' 07.5" (LT) D = 16° 48' 35.5" (LT) L = 180.00' T = 89.75' R = 600.00' SE = 05

-YIRPA- PI Sta 10+00.00 Δ = 1°52' 32.5" (RT) D = 28° 58' 52.4" L = 41.45' T = 20.80' R = 200.00' SE = NC

BOATHOUSE SOLAR, LLC RB RD PG #8 PG #9 PG #3

-YIRPB- PI Sta 30+80.29 Δ = 1°43' 07.5" (LT) D = 16° 48' 35.5" (LT) L = 180.00' T = 89.75' R = 600.00' SE = 05

-YIRPB- PI Sta 30+80.29 Δ = 1°43' 07.5" (LT) D = 16° 48' 35.5" (LT) L = 180.00' T = 89.75' R = 600.00' SE = 05

-YIRPB- PI Sta 30+80.29 Δ = 1°43' 07.5" (LT) D = 16° 48' 35.5" (LT) L = 180.00' T = 89.75' R = 600.00' SE = 05

-YIRPC- PI Sta 18+27.94 Δ = 2°07' 46" (RT) D = 3°40' 22.5" L = 565.87' T = 286.00' R = 1260.00' SE = 08

-YIRPC- PI Sta 21+87.74 Δ = 4°24' 26.5" (RT) D = 7°11' 57.1" (RT) L = 160.00' T = 80.00' R = 60.00' SE = 08

-YIRPD- PI Sta 30+28.03 Δ = 1°52' 32.5" (RT) D = 28° 58' 52.4" L = 41.45' T = 20.80' R = 200.00' SE = NC

-YIRPD- PI Sta 10+35.99 Δ = 6°51' 50.2" (RT) D = 12° 41' 43.7" (RT) L = 62.98' T = 35.95' R = 52.00' SE = 08

-YIRPD- PI Sta 11+66.69 Δ = 1°54' 00" (RT) D = 2°06' 51.2" L = 180.00' T = 90.00' R = 270.00' SE = 08

-YIRPC- PI Sta 27+57.53 Δ = 2°07' 46" (RT) D = 3°40' 22.5" L = 565.87' T = 286.00' R = 1260.00' SE = 08

-YIRPC- PI Sta 29+69.8 Δ = 2°07' 46" (RT) D = 3°40' 22.5" L = 565.87' T = 286.00' R = 1260.00' SE = 08

-YIRPD- PI Sta 30+28.03 Δ = 1°52' 32.5" (RT) D = 28° 58' 52.4" L = 41.45' T = 20.80' R = 200.00' SE = NC

-YIRPD- PI Sta 11+49.80 Δ = 1°52' 32.5" (RT) D = 28° 58' 52.4" L = 41.45' T = 20.80' R = 200.00' SE = NC

-YIRPD- PI Sta 11+49.80 Δ = 1°52' 32.5" (RT) D = 28° 58' 52.4" L = 41.45' T = 20.80' R = 200.00' SE = NC

-YIRPC- PI Sta 30+12.54 Δ = 2°07' 46" (RT) D = 3°40' 22.5" L = 565.87' T = 286.00' R = 1260.00' SE = 08

-YIRPC- PI Sta 30+12.54 Δ = 2°07' 46" (RT) D = 3°40' 22.5" L = 565.87' T = 286.00' R = 1260.00' SE = 08

-YIRPD- PI Sta 30+28.03 Δ = 1°52' 32.5" (RT) D = 28° 58' 52.4" L = 41.45' T = 20.80' R = 200.00' SE = NC

-YIRPD- PI Sta 30+28.03 Δ = 1°52' 32.5" (RT) D = 28° 58' 52.4" L = 41.45' T = 20.80' R = 200.00' SE = NC

-YIRPD- PI Sta 11+49.80 Δ = 1°52' 32.5" (RT) D = 28° 58' 52.4" L = 41.45' T = 20.80' R = 200.00' SE = NC

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 FEBRUARY 2022 TO MARCH 2022.

REVISIONS

-YIRPA-

PIs Sta 14+57.80	PI Sta 18+23.77
$\Theta_s = 4^\circ 24' 26.5''$	$\Delta = 20^\circ 46' 44.5''$ (RT)
$L_s = 240.00'$	$D = 3^\circ 40' 22.1''$
$LT = 160.05'$	$L = 565.75'$
$ST = 80.05'$	$T = 286.02'$
	$R = 1,560.00'$
	$SE = 08$

TERRY W. COCKERHAM
DB 300 PG 105
RB 677 PG 705
WB 14-E PG 207
PB 60 PG 79

CEASAR LAVENDER, SR. HEIRS
DB PI PG 511
PB 60 PG 79

TERRY W. COCKERHAM
DB 301 PG 570
WB 14-E PG 207
PB 60 PG 79

MARY BETHEA
DB L2 PG 304
PB 60 PG 79

ALICE B. STEVENS
RB 415 PG 956
PB 60 PG 79


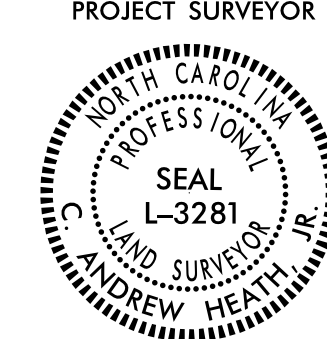
GILES BYRD AND SON, INC.
DB 335 PG 617
RB 440 PG 945

-YIRPD-

PIs Sta 11+66.69	PI Sta 16+04.63
$\Theta_s = 1^\circ 54' 10.1''$	$\Delta = 15^\circ 52' 44.1''$ (LT)
$L_s = 180.00'$	$D = 2^\circ 06' 51.2''$
$LT = 120.01'$	$L = 751.05'$
$ST = 60.01'$	$T = 377.95'$
	$R = 2,710.00'$
	$SE = 08$

I. C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
 Desigined by:
 I. C. Andrew Heath Jr.
 Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW07
Location and Surveys	
 NVIS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27513 P 919.851.1912 www.nvis.com <small>NC License # 13333 Formerly CALX Engineers & Consultants</small>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 34 + 00.00
SEE SHEET RW06

MATCHLINE -L- STA. 45 + 00.00
SEE SHEET RW08

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 FEBRUARY 2022 TO MARCH 2022 .

Location and Surveys

NV5
 NV5 ENGINEERS & CONSULTANTS, INC.
 3300 REGENCY PARKWAY, SUITE 100
 CARR, NC 27518
 P: 919.851.1912 www.nv5.com
 NC License #1333
 Services: CIVIL Engineers & Consultants

PROJECT SURVEYOR

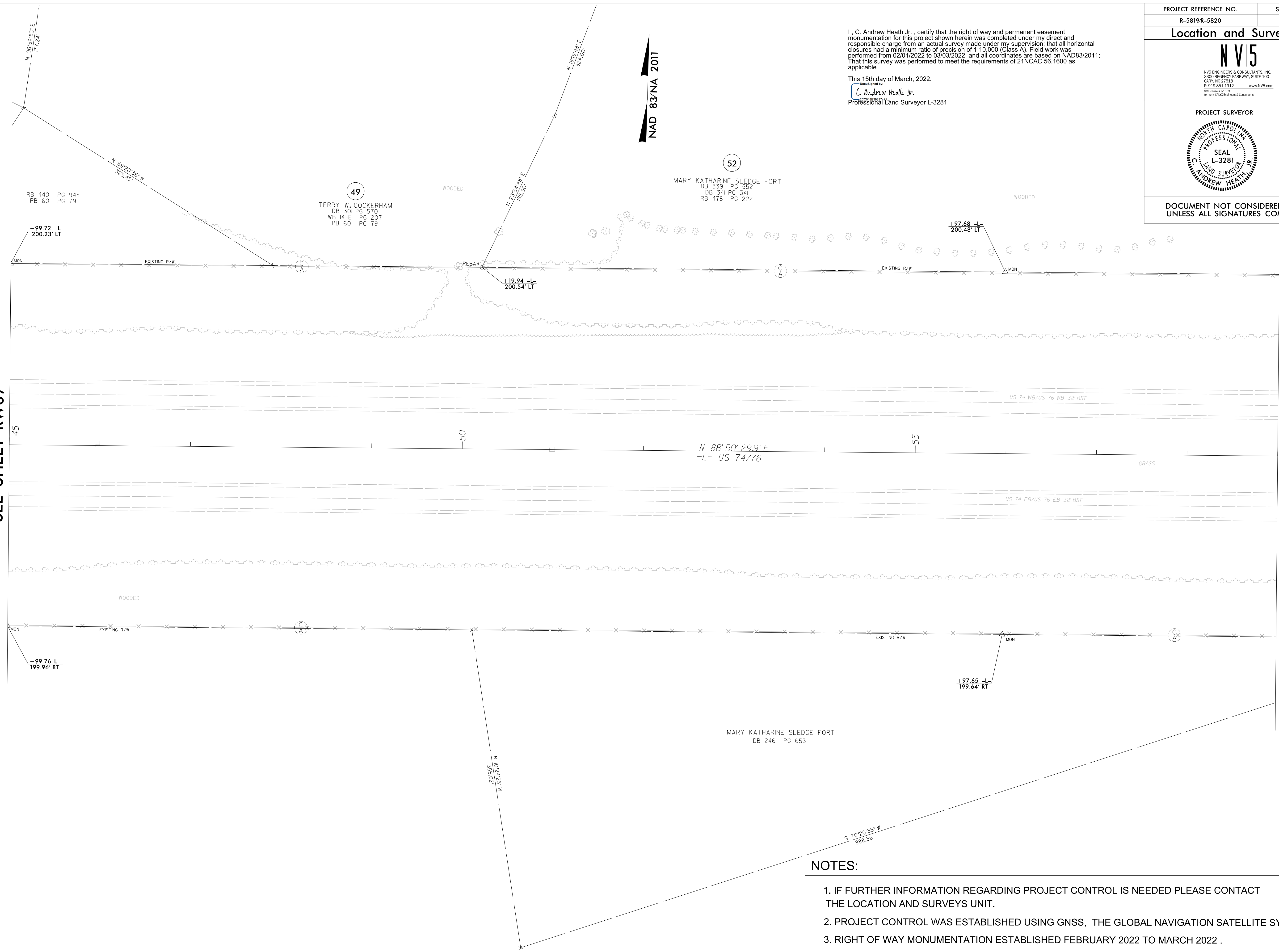
I, C. Andrew Heath Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
 C. Andrew Heath Jr.
 Professional Land Surveyor L-3281

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -L- STA. 45 + 00.00
SEE SHEET RW07

MATCHLINE -L- STA. 59 + 00.00
SEE SHEET RW09

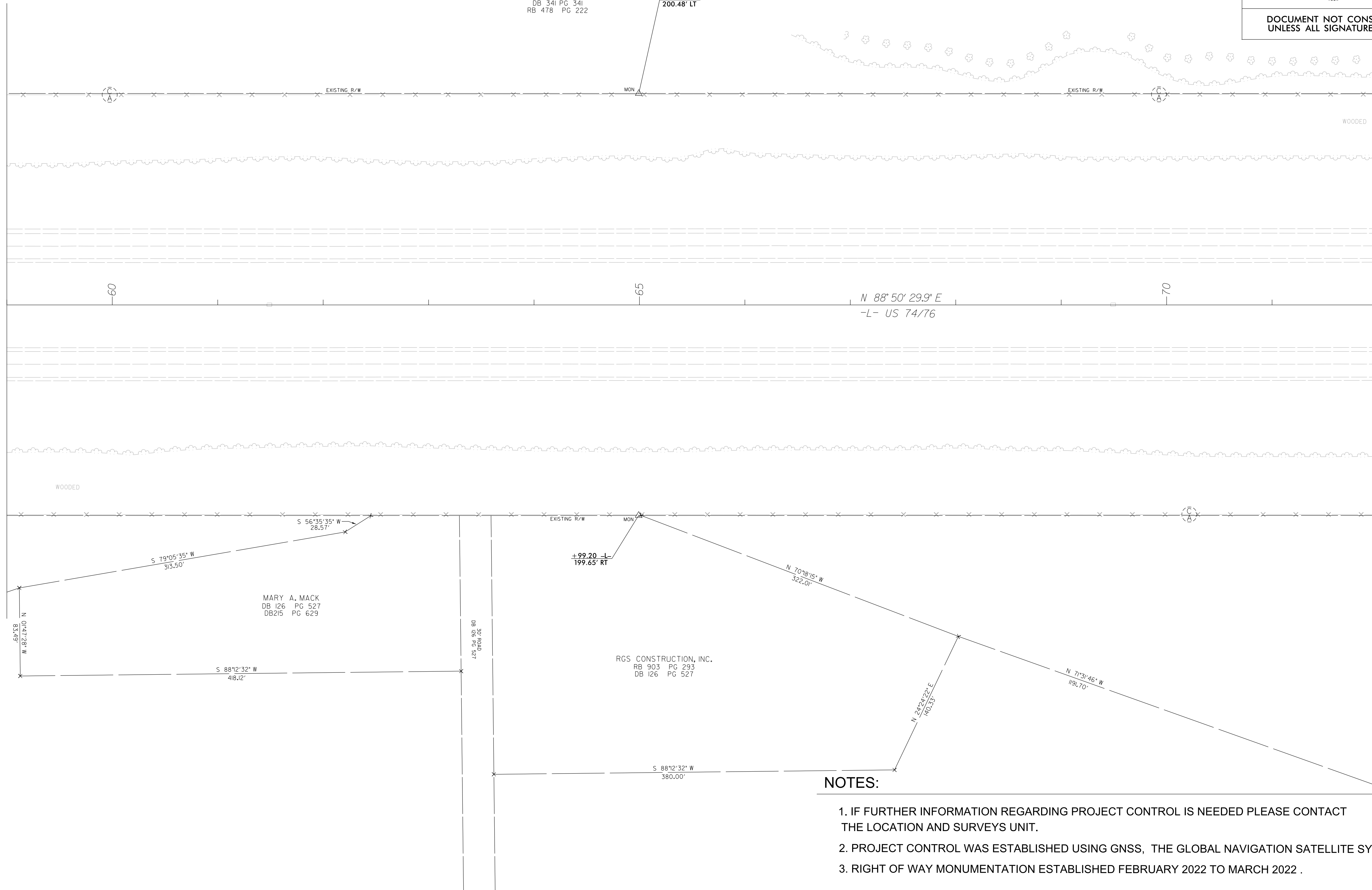


NOTES:

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 FEBRUARY 2022 TO MARCH 2022 .

REVISIONS



MATCHLINE -L- STA. 59 + 00.00
SEE SHEET RW08



NAD 83/NA 2011

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
C. Andrew Heath Jr.
Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW09
Location and Surveys	
 NVIS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27515 P: 919.851.1912 www.nvis.com <small>NC License #11333 Formerly C&H Engineers & Consultants</small>	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

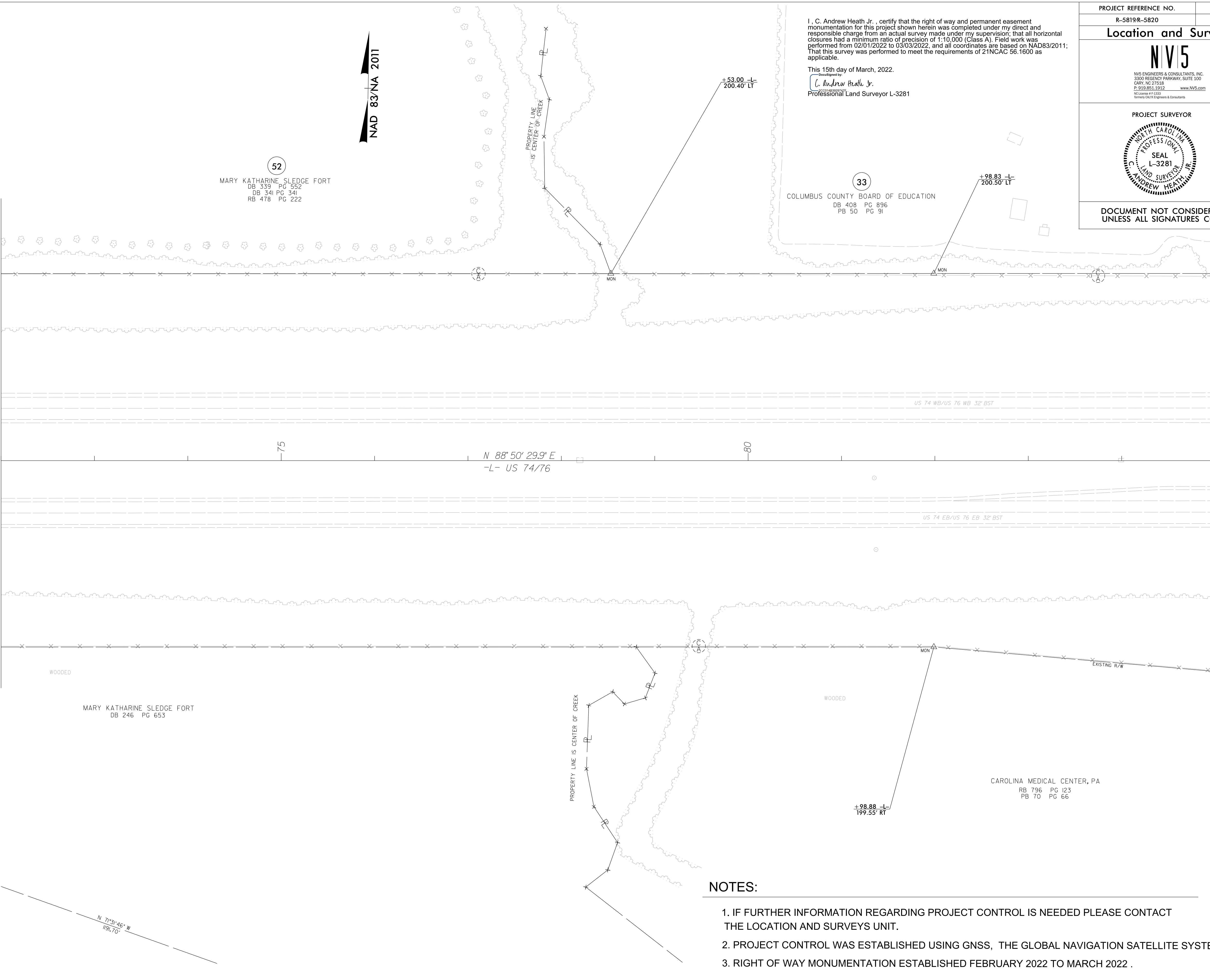
MATCHLINE -L- STA. 72 + 00.00
SEE SHEET RW10

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 FEBRUARY 2022 TO MARCH 2022 .

REVISIONS

MATCHLINE -L- STA. 72 + 00.00
SEE SHEET RW09



I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.

C. Andrew Heath Jr.
Professional Land Surveyor L-3281

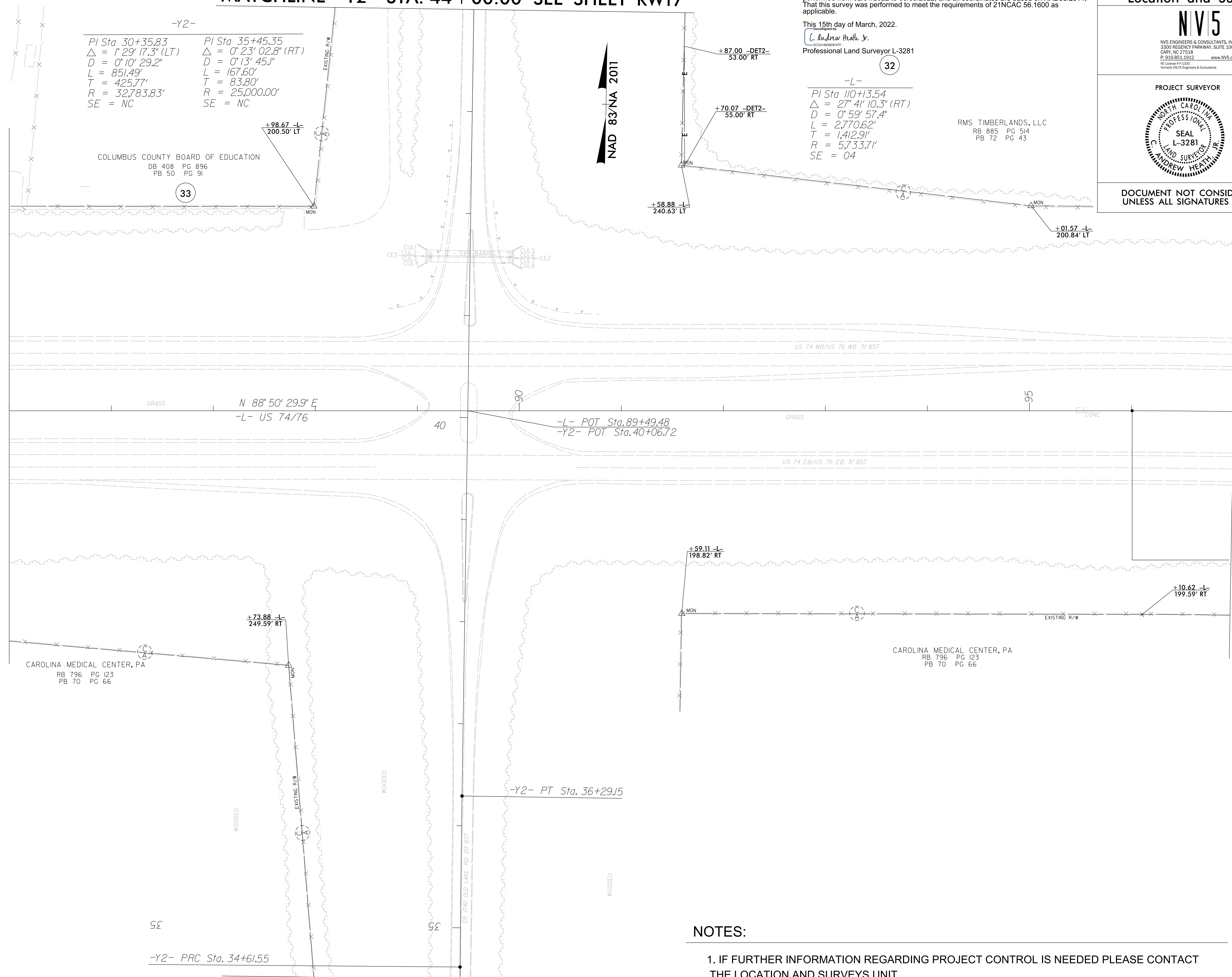
PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW10
Location and Surveys	
PROJECT SURVEYOR	
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED FEBRUARY 2022 TO MARCH 2022 .

MATCHLINE -L- STA. 85 + 00.00
SEE SHEET RW11

MATCHLINE -Y2- STA. 44 + 00.00 SEE SHEET RW17



MATCHLINE -L- STA. 85 + 00.00
SEE SHEET RW10

MATCHLINE -L- STA. 97 + 00.00
SEE SHEET RW12

MATCHLINE -Y2- STA. 34 + 50.00 SEE SHEET RW16

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
C. Andrew Heath Jr.
Professional Land Surveyor L-3281

32
-L-
PI Sta 110+13.54
 $\Delta = 27^{\circ} 41' 10.3" (RT)$
 $D = 0^{\circ} 59' 57.4"$
 $L = 2,770.62'$
 $T = 1,412.91'$
 $R = 5,733.71'$
SE = 04

PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW11
Location and Surveys	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED FEBRUARY 2022 TO MARCH 2022 .

Location and Surveys



PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

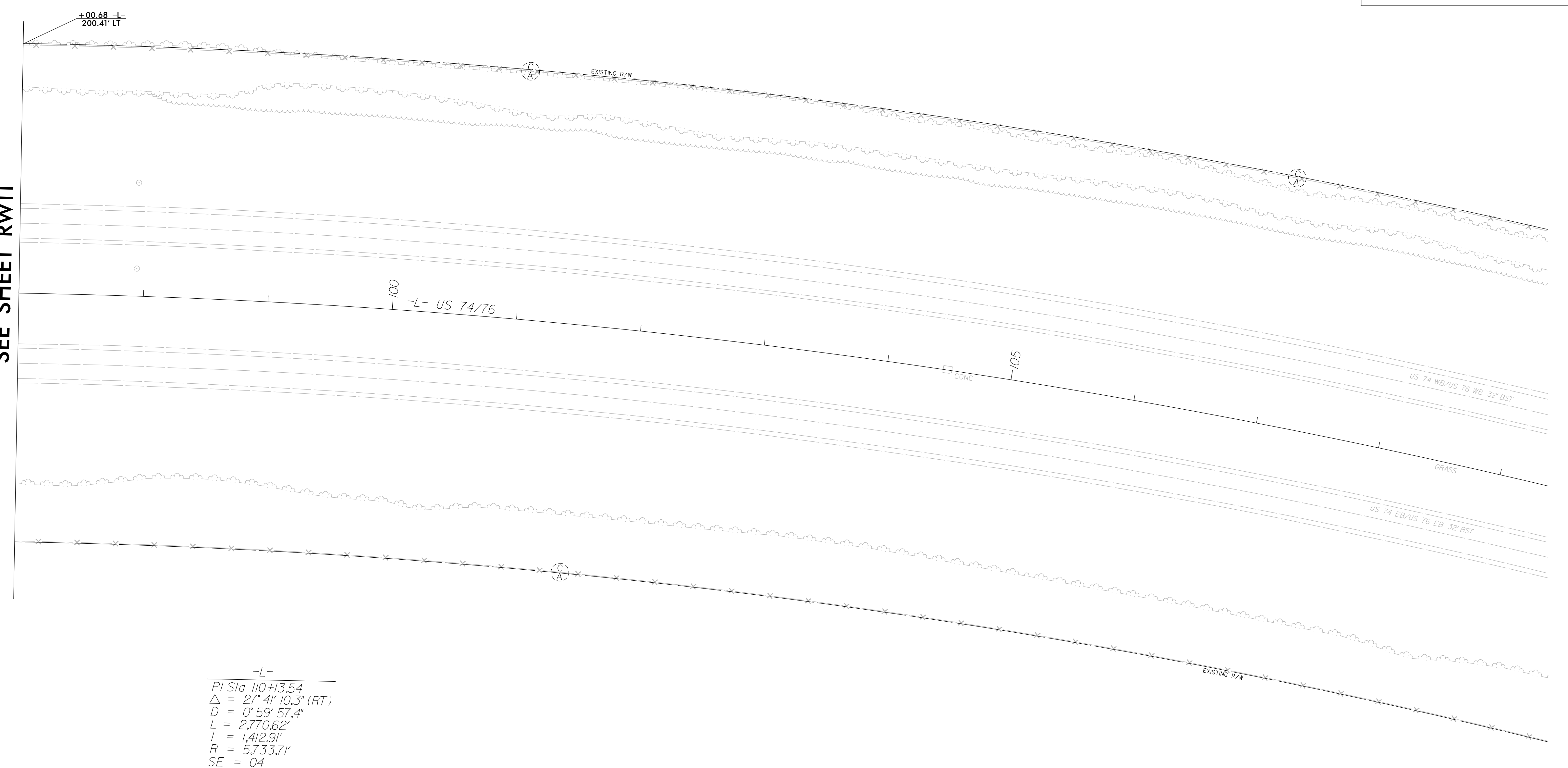
I, C. Andrew Heath Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision, that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
 C. Andrew Heath Jr.
 Professional Land Surveyor L-3281

32
 RMS TIMBERLANDS, LLC
 RB 885 PG 3/4
 PB 72 PG 43

NAD 83/NA 2011

MATCHLINE -L- STA. 97 + 00.00
 SEE SHEET RW11



-L-
 PI Sta 110+13.54
 $\Delta = 27^\circ 41' 10.3''$ (RT)
 $D = 0^\circ 59' 57.4''$
 $L = 2,770.62'$
 $T = 1,412.9'$
 $R = 5,733.7'$
 SE = 04

CAROLINA MEDICAL CENTER, PA
 RB 796 PG 123
 PB 70 PG 66

WOODED

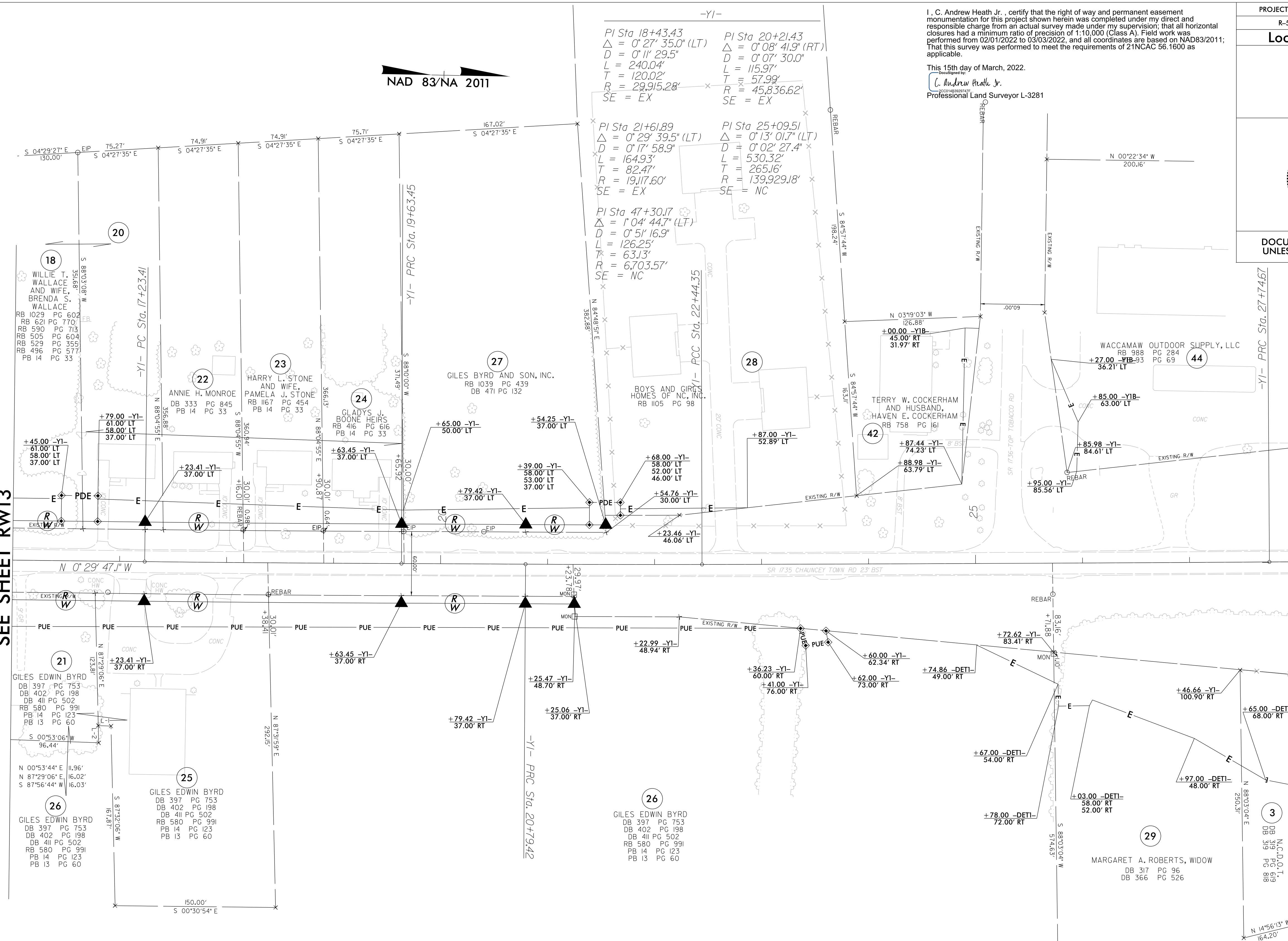
NOTES:

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 FEBRUARY 2022 TO MARCH 2022 .

REVISIONS

MATCHLINE -Y1- STA. 16 + 00.00
SEE SHEET RW13

MATCHLINE -Y1- STA. 28 + 00.00
SEE SHEET RW06





NAD 83/NA 2011

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.

C. Andrew Heath Jr.
Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW14
Location and Surveys	
 NVIS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.nvis.com <small>NC License # 1533 Formerly GEX Engineers & Consultants</small>	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	


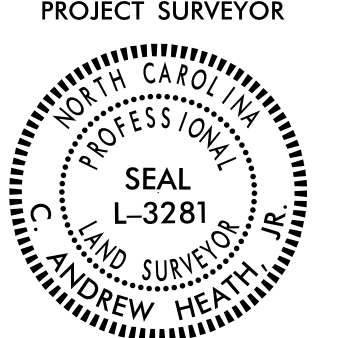
NOTES:

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 FEBRUARY 2022 TO MARCH 2022 .

NAD 83/NA 2011

I. C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

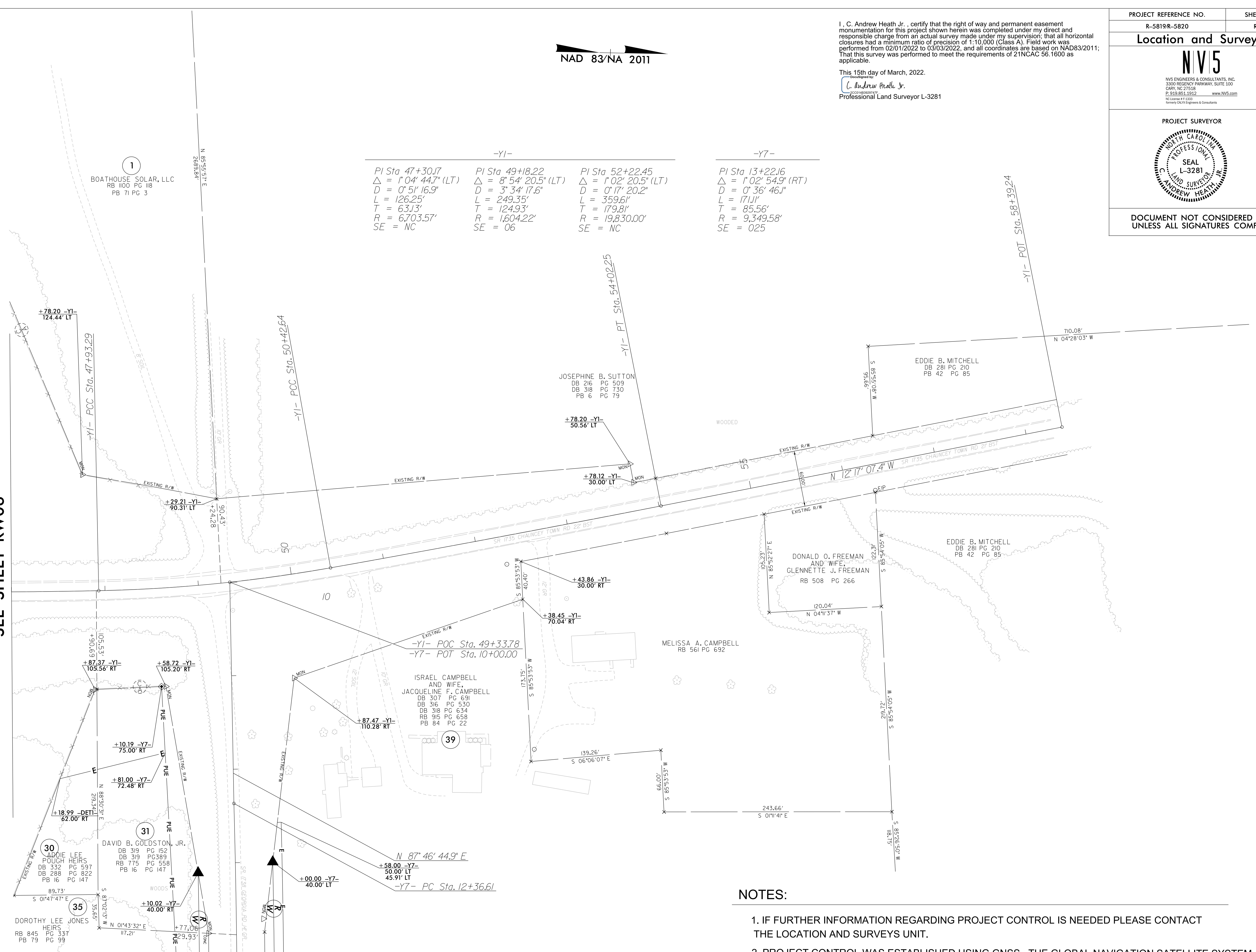
This 15th day of March, 2022.
Dated and signed by:
I. C. Andrew Heath Jr.
Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW15
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -Y1- STA. 47 + 00.00
SEE SHEET RW06

MATCH LINE -Y7- STA 14 + 00.00
SEE SHEET RW20

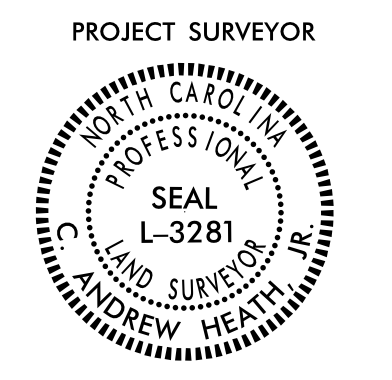
-Y1-			-Y7-		
PI Sta 47+30.17	PI Sta 49+18.22	PI Sta 52+22.45	PI Sta 13+22.16		
$\Delta = 1^{\circ}04'44.7"$ (LT)	$\Delta = 8^{\circ}54'20.5"$ (LT)	$\Delta = 1^{\circ}02'20.5"$ (LT)	$\Delta = 1^{\circ}02'54.9"$ (RT)		
D = 0'5"16.9"	D = 3'34"17.6"	D = 0'17"20.2"	D = 0'36"46.1"		
L = 126.25'	L = 249.35'	L = 359.61'	L = 171.11'		
T = 63.13'	T = 124.93'	T = 179.81'	T = 85.56'		
R = 6,703.57'	R = 1,604.22'	R = 19,830.00'	R = 9,349.58'		
SE = NC	SE = 06	SE = NC	SE = 025		



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 FEBRUARY 2022 TO MARCH 2022 .

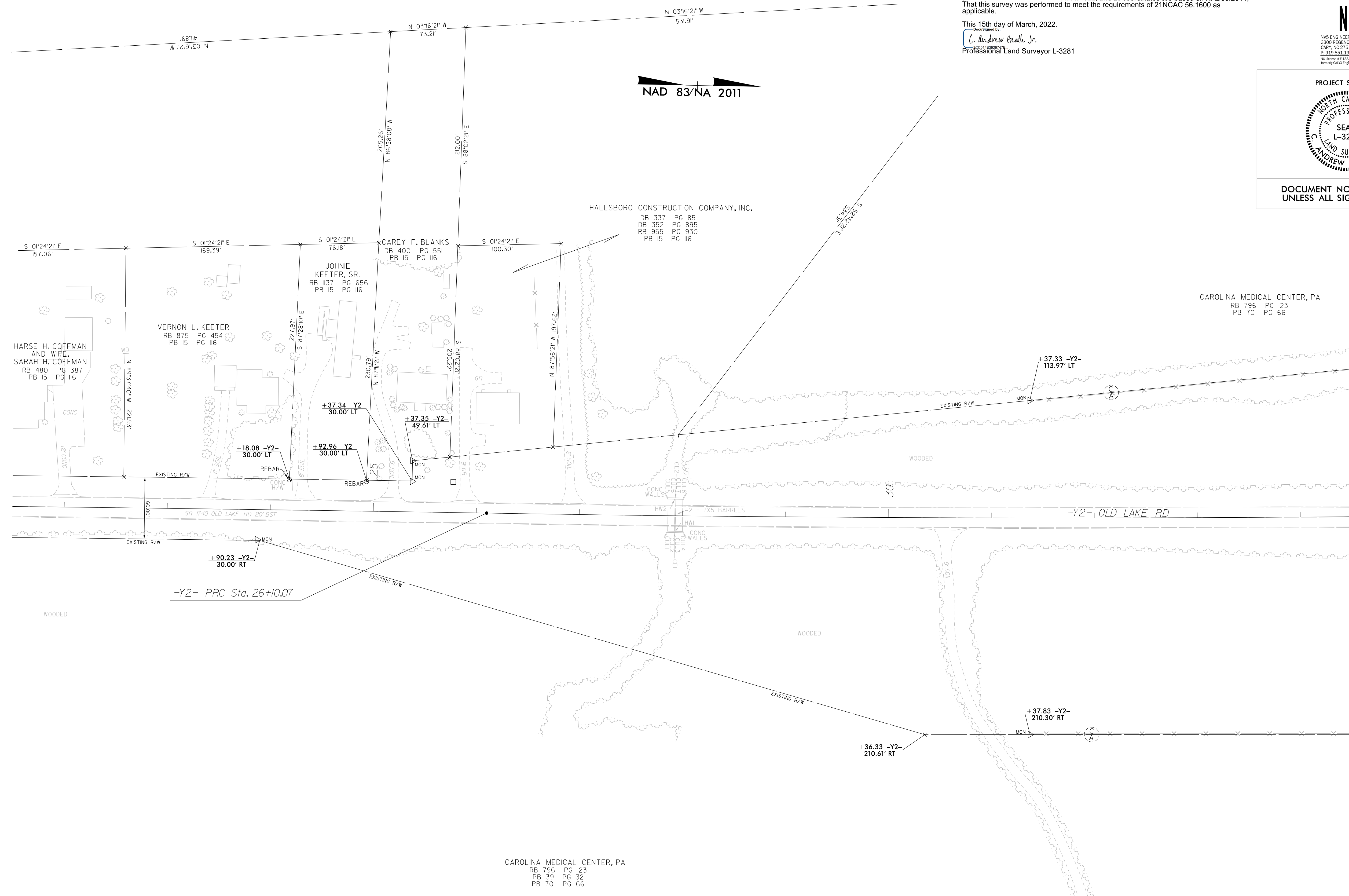
Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
 C. Andrew Heath Jr.
 Professional Land Surveyor L-3281



MATCHLINE -Y2- STA. 34 + 50.00
SEE SHEET RW11

-Y2-	
PI Sta 22+53.62	PI Sta 30+35.83
$\Delta = 0^{\circ} 32' 51.9''$ (RT)	$\Delta = 1^{\circ} 29' 17.3''$ (LT)
$D = 0^{\circ} 04' 36.6''$	$D = 0^{\circ} 10' 29.2''$
$L = 712.90'$	$L = 851.49'$
$T = 356.45'$	$T = 425.77'$
$R = 74,571.88'$	$R = 32,783.83'$
SE = NC	SE = NC

NOTES:

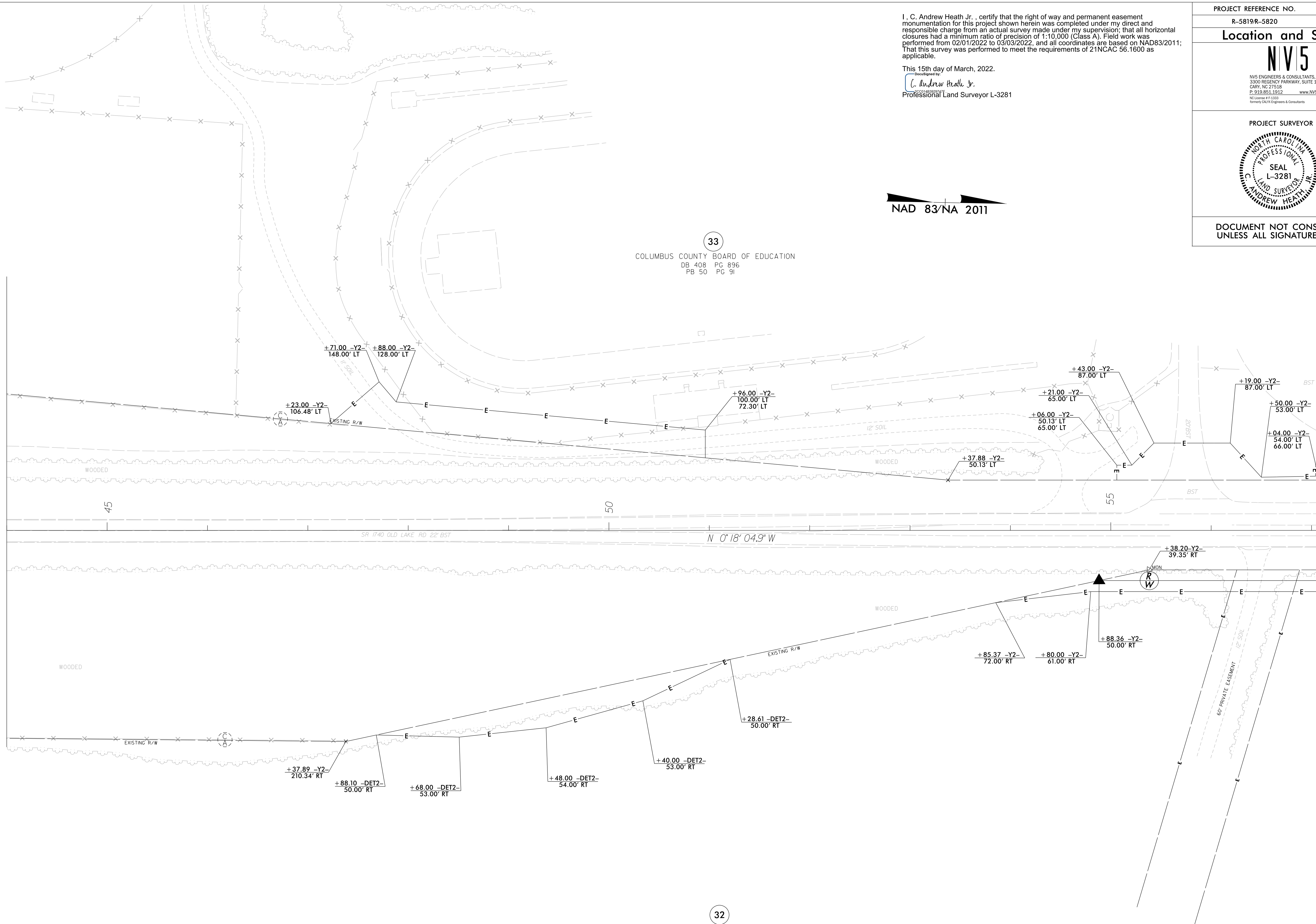
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED FEBRUARY 2022 TO MARCH 2022 .

6/2/09

15-MAR-2022 15:35 2021014.B7A SURV.RW. SHEETS\5819_5820.1.s_rw17.dgn
C:\Users\andrew.heath\AT\NCCAR-CRANSTOV

REVISIONS

MATCHLINE -Y2- STA. 44 + 00.00
SEE SHEET RW11



33
COLUMBUS COUNTY BOARD OF EDUCATION
DB 408 PG 896
PB 50 PG 91

32
RMS TIMBERLANDS, LLC
RB 885 PG 514
PB 72 PG 43

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
 Deceased by:
 C. Andrew Heath Jr.
 Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW17
Location and Surveys	
NV5	
<small>NV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NV5.com NC License #12332 Formerly CIVIL Engineers & Consultants</small>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	


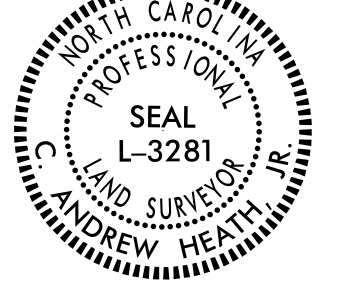
NAD 83/NA 2011

MATCHLINE -Y2- STA. 57 + 25.00
SEE SHEET RW18

- 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 FEBRUARY 2022 TO MARCH 2022 .

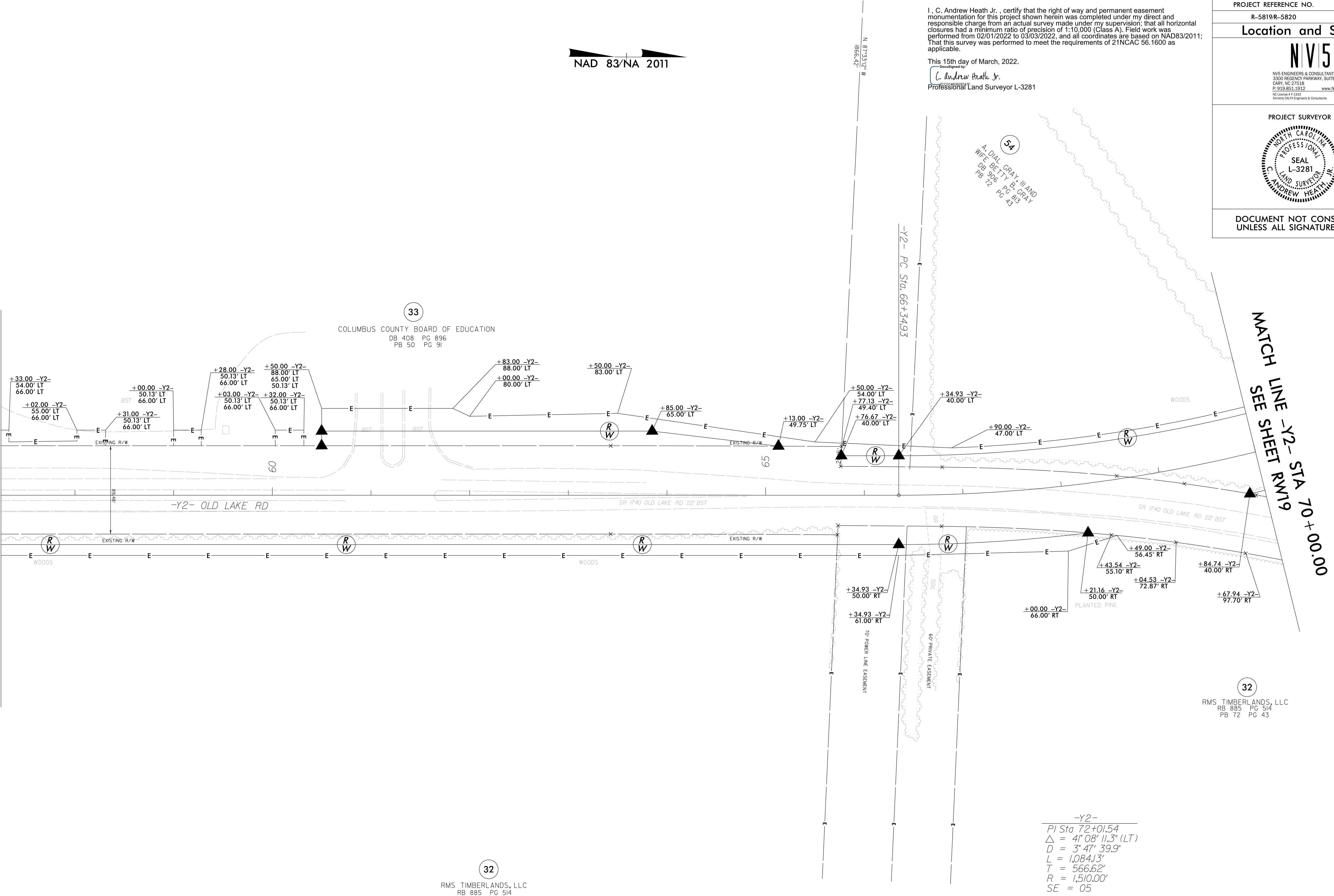
NAD 83/NA 2011

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011;
 That this survey was performed to meet the requirements of 21NCAC 56.1600 as
 applicable.
 This 15th day of March, 2022.
 C. Andrew Heath Jr.
 Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW18
Location and Surveys	
 NVIS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27515 P: 919.851.1912 www.nvis.com NC License #12333 Formerly G&H Engineers & Consultants	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCH LINE -Y2- STA 57 + 25.00
SEE SHEET RW17

MATCH LINE -Y2- STA 70 + 00.00
SEE SHEET RW19



33
 COLUMBUS COUNTY BOARD OF EDUCATION
 DB 408 PG 896
 PB 50 PG 91

32
 RMS TIMBERLANDS, LLC
 RB 885 PG 514
 PB 72 PG 43

32
 RMS TIMBERLANDS, LLC
 RB 885 PG 514
 PB 72 PG 43

-Y2-
 PI Sta 72+01.54
 $\Delta = 41^{\circ} 08' 11.3''$ (LT)
 $D = 3' 47' 39.9''$
 $L = 1,084.13'$
 $T = 566.62'$
 $R = 1,510.00'$
 $SE = 05$

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 FEBRUARY 2022 TO MARCH 2022 .

REVISIONS

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
C. Andrew Heath Jr.
Professional Land Surveyor L-3281

Location and Surveys

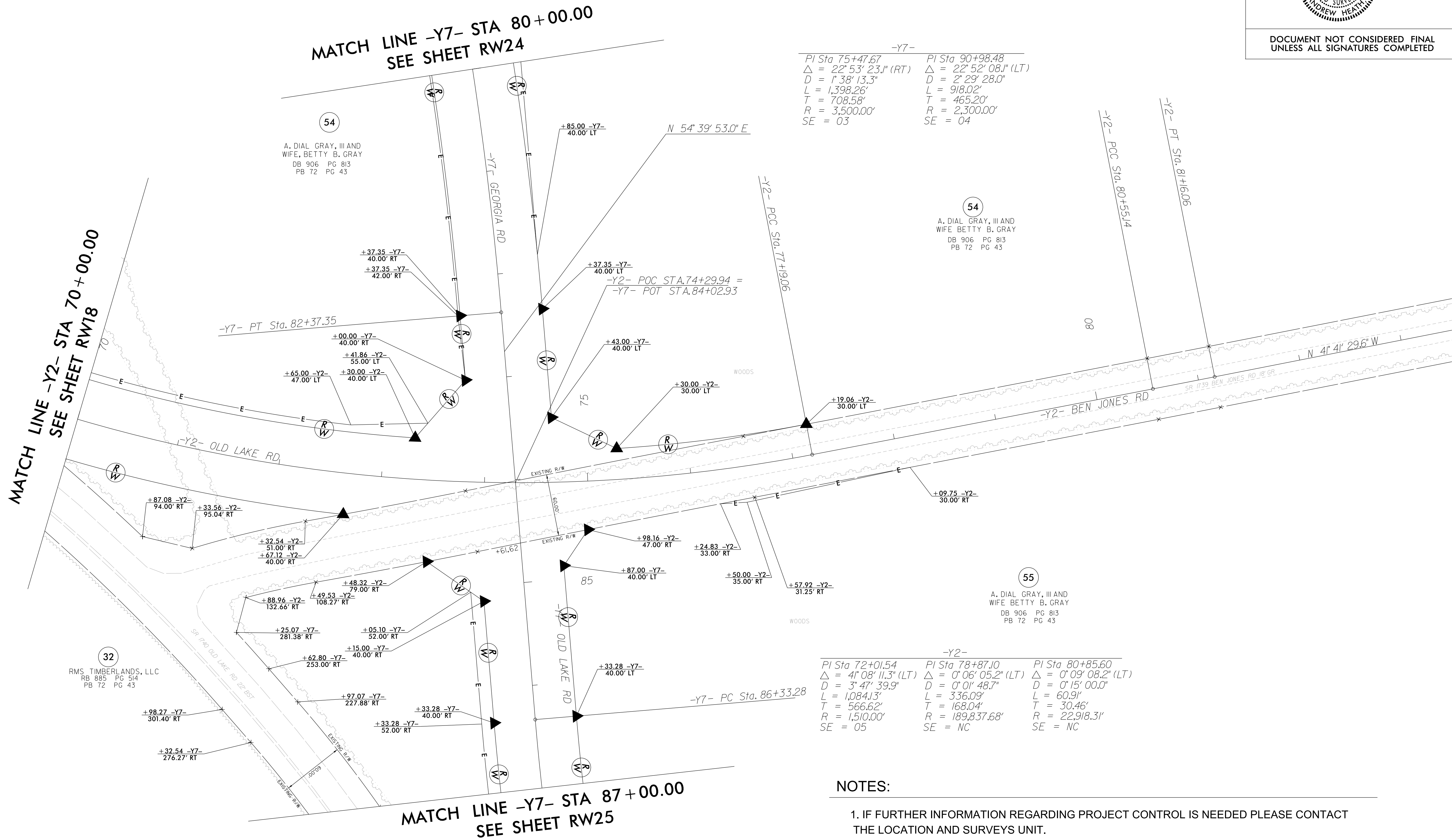
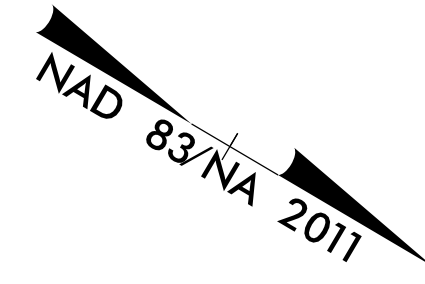
NVIS

NVIS ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.nvis.com
NC License # 12818 formerly CALVE Engineers & Consultants

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



-Y7-	
PI Sta 75+47.67	PI Sta 90+98.48
$\Delta = 22^\circ 53' 23.1''$ (RT)	$\Delta = 22^\circ 52' 08.1''$ (LT)
D = 1,398.26'	D = 2,299.28.0'
L = 1,398.26'	L = 918.02'
T = 708.58'	T = 465.20'
R = 3,500.00'	R = 2,300.00'
SE = 03	SE = 04

54
A. DIAL GRAY, III AND WIFE BETTY B. GRAY
DB 906 PG 813
PB 72 PG 43

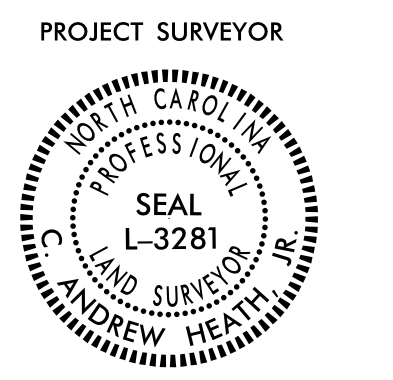
55
A. DIAL GRAY, III AND WIFE BETTY B. GRAY
DB 906 PG 813
PB 72 PG 43

-Y2-		
PI Sta 72+01.54	PI Sta 78+87.10	PI Sta 80+85.60
$\Delta = 4^\circ 08' 11.3''$ (LT)	$\Delta = 0^\circ 08' 05.2''$ (LT)	$\Delta = 0^\circ 09' 08.2''$ (LT)
D = 3,471.39.9'	D = 0,011.48.7'	D = 0,151.00.0'
L = 1,084.13'	L = 336.09'	L = 60.91'
T = 566.62'	T = 168.04'	T = 30.46'
R = 1,510.00'	R = 189,837.68'	R = 22,918.31'
SE = 05	SE = NC	SE = NC

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 FEBRUARY 2022 TO MARCH 2022 .

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.

C. Andrew Heath Jr.
Professional Land Surveyor L-3281

-Y7-

PI Sta 27+72.88	PI Sta 32+11.93
$\Delta = 0^\circ 52' 06.7''$ (LT)	$\Delta = 1^\circ 18' 44.8''$ (RT)
D = 0' 43' 40.9"	D = 0' 43' 40.9"
L = 119.30'	L = 180.27'
T = 59.65'	T = 90.14'
R = 7,870.00'	R = 7,870.00'
SE = NC	SE = NC

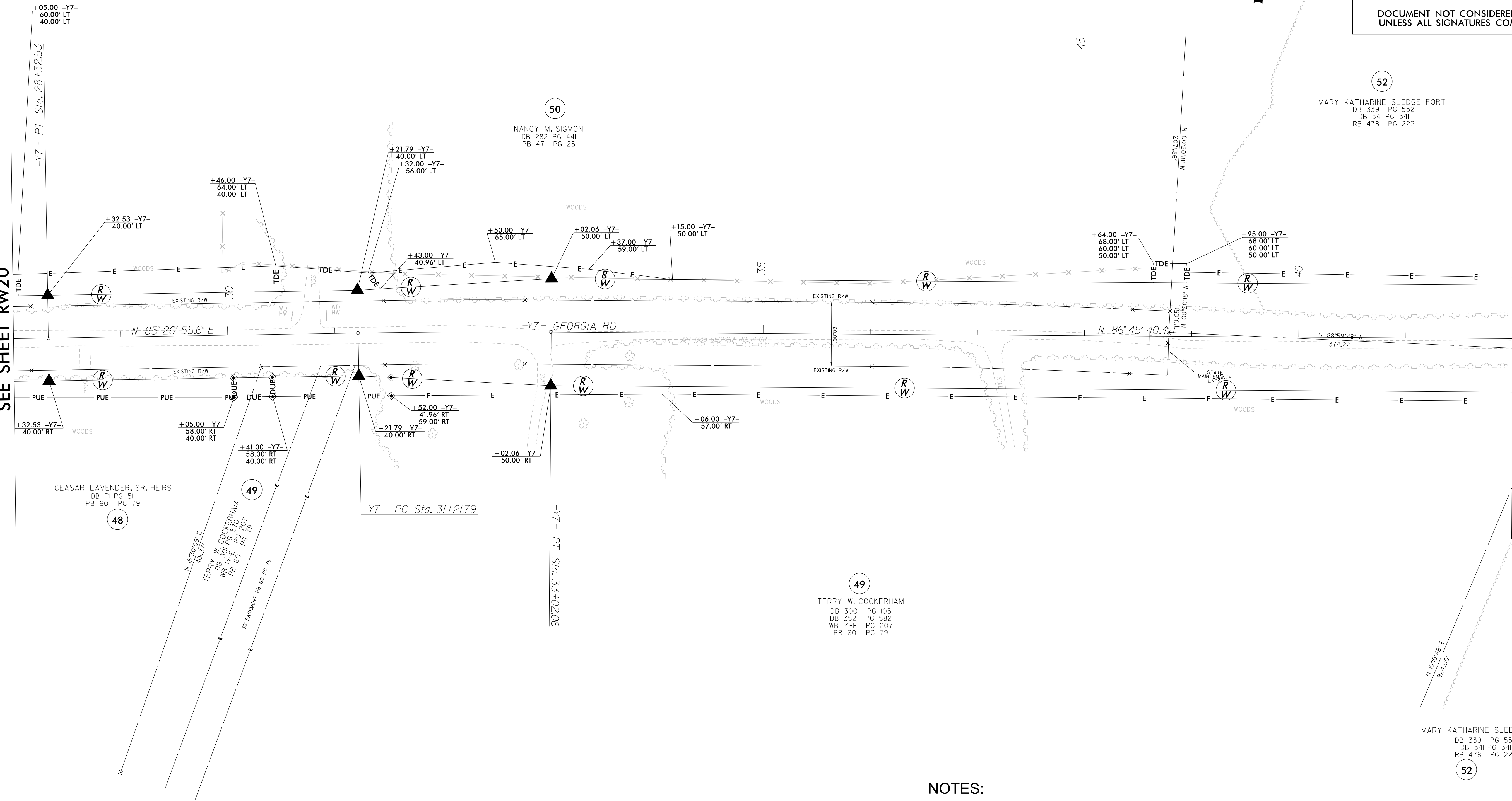
N 85°58'08" E
262.16'

NAD 83/NA 2011

REVISIONS

MATCH LINE -Y7- STA 28+00.00
SEE SHEET RW20

MATCH LINE -Y7- STA 42+00.00
SEE SHEET RW22



50
NANCY M. SIGMON
DB 282 PG 441
PB 47 PG 25

48
CEASAR LAVENDER, SR. HEIRS
DB PI PG 511
PB 60 PC 79

49
TERRY W. COCKERHAM
DB PI PG 511
PB 60 PC 79

49
TERRY W. COCKERHAM
DB 300 PG 105
DB 352 PG 582
WB 14-E PG 207
PB 60 PG 79

52
MARY KATHARINE SLEDGE FORT
DB 339 PG 552
DB 341 PG 341
RB 478 PG 222

52
MARY KATHARINE SLEDGE FORT
DB 339 PG 552
DB 341 PG 341
RB 478 PG 222

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED FEBRUARY 2022 TO MARCH 2022 .

REVISIONS



MATCH LINE -Y7- STA 56 + 00.00
SEE SHEET RW22

MATCH LINE -DRI- STA 14 + 00.00
SEE SHEET RW23

END CONSTRUCTION
-DRI- POC STA. 16 + 61.58

33

COLUMBUS COUNTY BOARD OF EDUCATION
DB 408 PG 896
PB 50 PG 91

52

MARY KATHARINE SLEDGE FORT
DB 339 PG 552
DB 341 PG 341
RB 478 PG 222

52

MARY KATHARINE SLEDGE FORT
DB 339 PG 552
DB 341 PG 341
RB 478 PG 222

53

JOHN FRANKLIN SMITH HEIRS
AND
DAVID B. GOLDSTON, JR. HEIRS
DB 354 PG 168
PB 50 PG 91

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.

C. Andrew Heath Jr.
Professional Land Surveyor L-3281

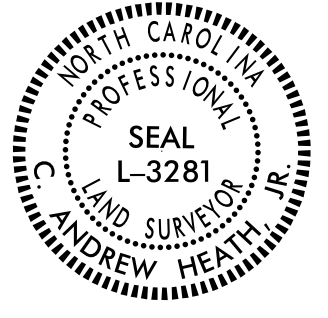
PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW23

Location and Surveys

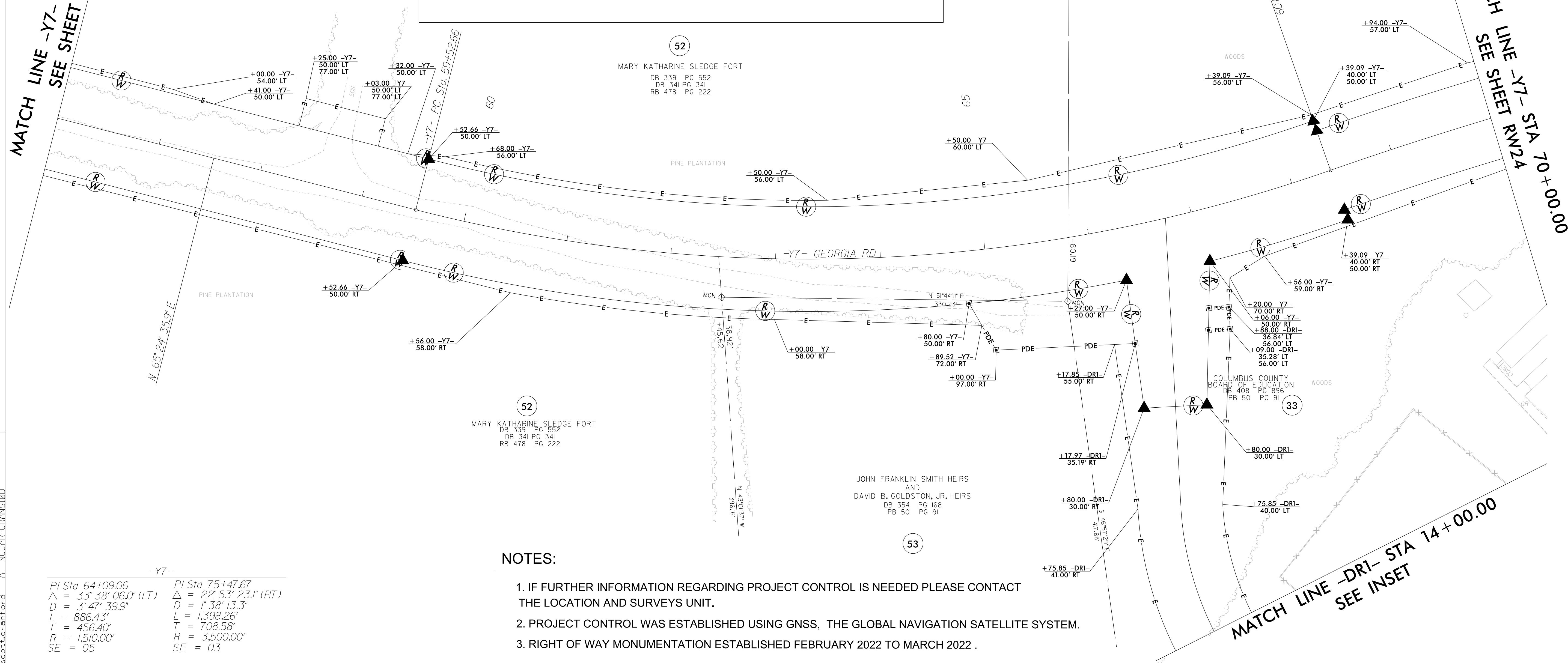
NV5

NVS ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # 4339 formerly CIVIL Engineers & Consultants

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



NOTES:

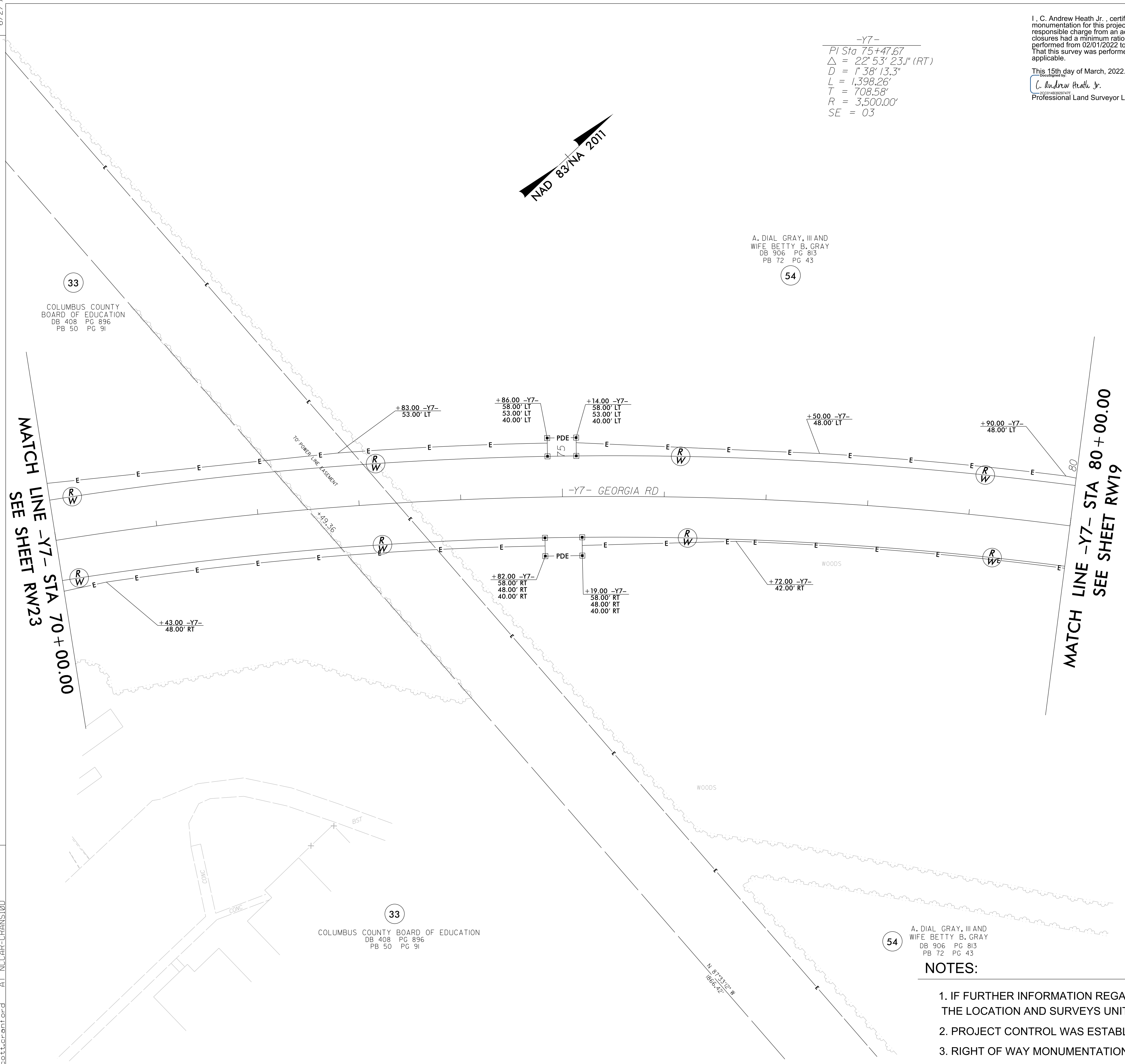
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED FEBRUARY 2022 TO MARCH 2022 .

-Y7-	
PI Sta 64+09.06	PI Sta 75+47.67
Δ = 33° 38' 06.0" (LT)	Δ = 22° 53' 23.1" (RT)
D = 3' 47' 39.9"	D = 1' 38' 13.3"
L = 886.43'	L = 1,398.26'
T = 456.40'	T = 708.58'
R = 1,510.00'	R = 3,500.00'
SE = 05	SE = 03

6/2/09

15-MAR-2022 14:47
D:\PLG\602\2021\2021014.B7.SURV.W.SHEETS\5819_5820_1.s_rw24.dgn
AT: NCCAP-GRANS100
scott@panford

REVISIONS


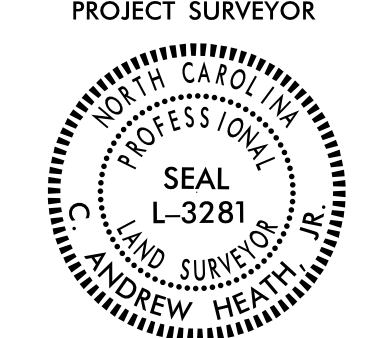


-Y7-
 $PI Sta 75+47.67$
 $\Delta = 22^\circ 53' 23.1'' (RT)$
 $D = 1' 38.13.3''$
 $L = 1,398.26'$
 $T = 708.58'$
 $R = 3,500.00'$
 $SE = 03$

A, DIAL GRAY, III AND
 WIFE BETTY B. GRAY
 DB 906 PG 813
 PB 72 PG 43

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
 C. Andrew Heath Jr.
 Professional Land Surveyor L-3281

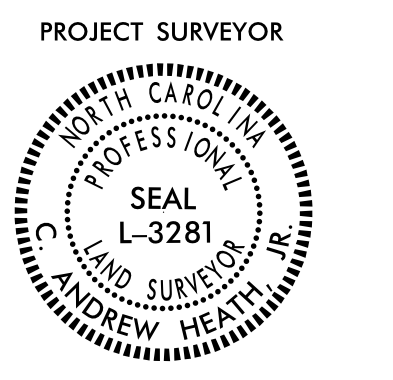
PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW24
Location and Surveys	
 <small>NIVS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27513 P: 919.851.1912 www.NIVS.com 42 License # 13333 formerly CIVIL Engineers & Consultants</small>	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

A, DIAL GRAY, III AND
 WIFE BETTY B. GRAY
 DB 906 PG 813
 PB 72 PG 43

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 FEBRUARY 2022 TO MARCH 2022 .

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. Andrew Heath Jr., 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 02/01/2022 to 03/03/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 15th day of March, 2022.
 C. Andrew Heath Jr.
 Professional Land Surveyor L-3281

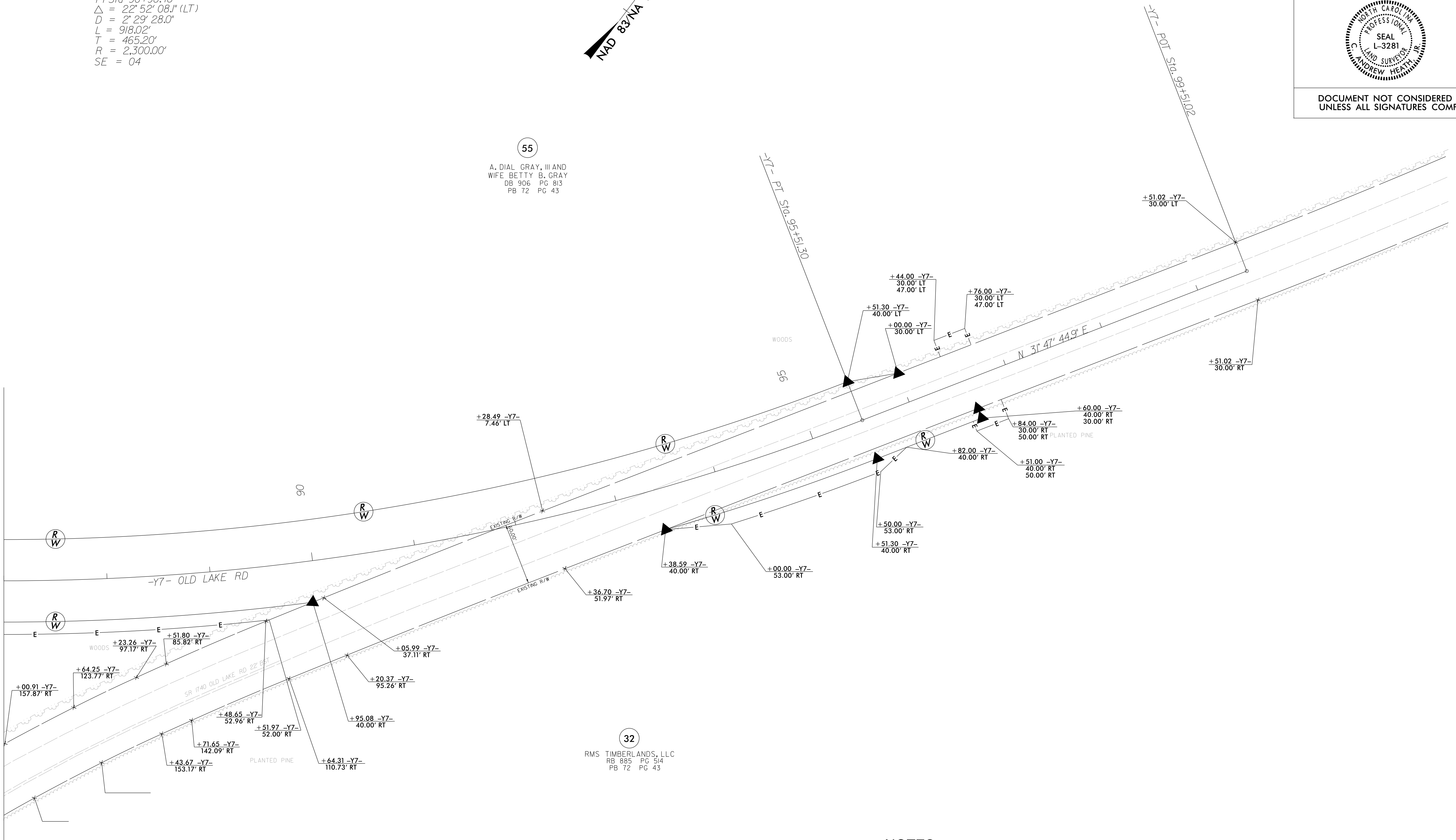
-Y7-
 PI Sta 90+98.48
 $\Delta = 22^\circ 52' 08.1''$ (LT)
 $D = 2' 29' 28.0''$
 $L = 918.02'$
 $T = 465.20'$
 $R = 2,300.00'$
 $SE = 04$



55
 A. DIAL GRAY, III AND
 WIFE BETTY B. GRAY
 DB 906 PG 813
 PB 72 PG 43

32
 RMS TIMBERLANDS, LLC
 RB 885 PG 514
 PB 72 PG 43

MATCH LINE -Y7- STA 87+00.00
 SEE SHEET RW19



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 FEBRUARY 2022 TO MARCH 2022 .

REVISIONS

I:\MAR-2022\1451\15-Plan-2022-03\2021014.87_SURV.RW_SHEETS\5819_r-5820-1.s_r-w25.dgn
 AT: NCCAP-CRANS100
 scott@cranford.com

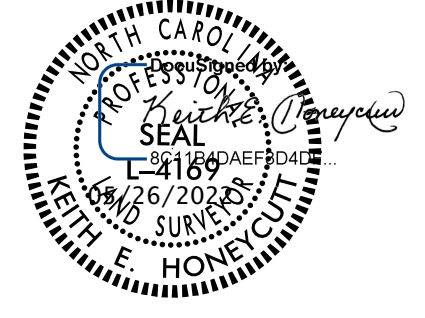
RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. R-5819R-5820 SHEET NO. RW03E-1A

Location and Surveys

NCDOT
LOCATION AND SURVEYS
DIVISION 6 FIELD OFFICE

PROJECT SURVEYOR



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

I, Keith E. Honeycutt, 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 on 05/10/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of May, 2022.
DocuSigned by:
Keith E. Honeycutt
Professional Land Surveyor L-4169

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+74.00	46.00	208644.2844	2144318.7286
Y1	11+25.00	-50.00	208694.4508	2144222.2904
Y1	11+39.08	30.03	208709.2230	2144302.1992
Y1	12+35.00	-50.00	208804.4467	2144221.3373
Y1	13+44.00	37.00	208914.1963	2144307.3897
Y1	13+44.00	30.00	208914.1357	2144300.3900
Y1	15+90.00	-37.00	209159.5460	2144231.2612
Y1	17+23.41	37.00	209293.5921	2144304.1026
Y1	17+23.41	-37.00	209292.9510	2144230.1053
Y1	19+63.45	-37.00	209532.6730	2144227.0665
Y1	19+63.45	37.00	209533.9079	2144301.0562
Y1	20+79.42	-37.00	209648.7245	2144225.2765
Y1	20+79.42	37.00	209649.7721	2144299.2691
Y1	21+25.06	37.00	209695.4972	2144298.5671
Y1	21+54.25	-37.00	209723.4041	2144224.0729

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	13+00.00	-40.00	212551.5800	2144487.5231
Y7	13+10.02	40.00	212472.0550	2144500.7850
Y7	14+07.72	40.00	212475.4429	2144598.0005
Y7	14+07.72	-40.00	212555.4078	2144595.6320
Y7	16+66.74	40.00	212487.7942	2144858.1434
Y7	16+66.74	-40.00	212567.6239	2144852.9251
Y7	21+18.87	40.00	212521.8348	2145309.7855
Y7	21+18.87	-40.00	212601.5448	2145302.9792
Y7	22+38.65	40.00	212530.7148	2145428.3946
Y7	22+38.65	-40.00	212610.5496	2145423.2561
Y7	27+13.23	40.00	212561.1977	2145901.9949
Y7	27+13.23	-40.00	212641.0325	2145896.8564
Y7	28+32.53	40.00	212569.8059	2146021.5883
Y7	28+32.53	-40.00	212649.5536	2146015.2403
Y7	31+21.79	-40.00	212672.5061	2146303.5825
Y7	31+21.79	40.00	212592.7583	2146309.9306
Y7	33+02.06	-50.00	212694.7978	2146483.7863
Y7	33+02.06	50.00	212594.9576	2146489.4360
Y7	44+59.82	-50.00	212760.2082	2147639.6984
Y7	44+59.82	50.00	212660.3679	2147645.3482
Y7	50+23.41	-50.00	212890.6544	2148165.5561
Y7	50+23.41	50.00	212799.7357	2148207.1950
Y7	59+52.66	50.00	213186.4048	2149052.1419
Y7	59+52.66	-50.00	213277.3357	2149010.5296
Y7	66+27.00	50.00	213605.8839	2149601.1203
Y7	67+06.00	50.00	213669.9059	2149651.7249
Y7	68+39.09	-40.00	213830.8471	2149652.6712
Y7	68+39.09	-50.00	213836.1130	2149644.1700
Y7	68+39.09	50.00	213783.4545	2149729.1823
Y7	68+39.09	40.00	213788.7204	2149720.6811
Y7	82+37.35	40.00	214789.3430	2150660.9806
Y7	82+37.35	-40.00	214854.6055	2150614.7118
Y7	83+00.00	40.00	214825.5801	2150712.0933
Y7	83+43.00	-40.00	214915.7122	2150700.9031
Y7	84+87.00	-40.00	214998.9960	2150818.3757
Y7	85+15.00	40.00	214949.9276	2150887.4864
Y7	86+33.28	40.00	215018.3383	2150983.9803
Y7	86+33.28	-40.00	215083.6008	2150937.7115
Y7	89+95.08	40.00	215253.9191	2151266.3152
Y7	93+38.59	40.00	215515.9333	2151497.0947
Y7	95+51.30	40.00	215694.3360	2151619.4567
Y7	95+51.30	-40.00	215736.4875	2151551.4623
Y7	96+00.00	-30.00	215772.6096	2151585.6209
Y7	96+60.00	40.00	215786.7229	2151676.7297
Y7	96+60.00	30.00	215791.9919	2151668.2304

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1A	14+95.00	-37.07	208302.0949	2144308.0543
Y1A	15+95.00	-42.00	208467.2075	2144272.0681

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1RPD	17+31.00	-97.97	211194.8107	2145655.2324
Y1RPD	19+55.00	-130.00	211104.6026	2145457.9903
Y1RPD	19+87.00	-90.43	211132.1698	2145416.1705

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	54+88.36	50.00	213013.7453	2151037.4439
Y2	60+50.00	-50.13	213574.8518	2150934.3579
Y2	60+50.00	-65.00	213574.7736	2150919.4915
Y2	63+85.00	-65.00	213909.7689	2150917.7295
Y2	65+13.00	-49.75	214037.8474	2150932.3107
Y2	65+76.67	-40.00	214101.5722	2150941.7211
Y2	66+34.93	50.00	214160.2966	2151031.4134
Y2	66+34.93	-40.00	214159.8232	2150941.4147
Y2	68+21.16	50.00	214352.1456	2151018.5544
Y2	69+84.74	40.00	214515.8993	2150978.1347
Y2	72+67.12	40.00	214789.6766	2150884.2285
Y2	73+30.00	-40.00	214812.0264	2150784.9746
Y2	73+48.32	79.00	214882.6190	2150882.5519
Y2	74+98.16	47.00	215001.3732	2150776.4139
Y2	75+30.00	-30.00	214985.3468	2150694.5809
Y2	77+19.06	-30.00	215131.5659	2150580.9531

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	16+27.00	30.00	208539.9519	2144168.9499
Y3	16+48.00	-65.60	208635.5795	2144189.8389
Y3	18+36.00	-30.00	208599.3147	2144378.1308
Y3	18+43.59	62.00	208507.2563	2144384.9696
Y3	19+25.00	37.00	208531.4284	2144466.4418
Y3	20+31.00	30.00	208536.8877	2144572.3666

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR1	11+80.00	-30.00	213561.5573	2149735.6029
DR1	11+80.00	30.00	213521.4103	2149691.0133

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	20+25.89	30.35	208536.6245	2144567.2591
Y3	20+25.89	30.00	208536.9740	2144567.2636

NOTES:

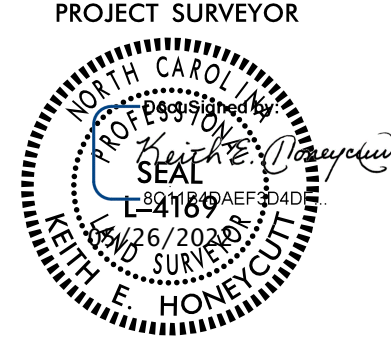
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 05/10/2022.

6/2/19

REVISIONS

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RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW03E-2A
Location and Surveys	
NCDOT LOCATION AND SURVEYS DIVISION 6 FIELD OFFICE	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+84.00	65.00	208654.4487	2144337.6413
Y1	10+98.46	40.00	208668.6879	2144312.5170
Y1	11+06.00	55.00	208676.3612	2144327.4510
Y1	11+47.00	30.03	208717.1437	2144302.1227
Y1	11+47.00	54.00	208717.3510	2144326.0959
Y1	11+59.00	-50.00	208728.4495	2144221.9958
Y1	11+67.00	-72.00	208736.2586	2144199.9273
Y1	11+71.00	-56.00	208740.3971	2144215.8921
Y1	11+74.00	30.01	208744.1422	2144301.8698
Y1	11+74.00	54.00	208744.3500	2144325.8619
Y1	11+87.00	-77.00	208756.2145	2144194.7542
Y1	11+91.00	-60.00	208760.3617	2144211.7189
Y1	13+32.00	-68.00	208901.2871	2144202.4976
Y1	13+38.00	-85.00	208907.1396	2144185.4463
Y1	13+53.00	-45.68	208922.4797	2144224.6360
Y1	13+53.00	-80.00	208922.1823	2144190.3161
Y1	13+77.00	-44.80	208946.4864	2144225.3069
Y1	13+77.00	-73.00	208946.2421	2144197.1079
Y1	14+12.00	37.00	208982.1938	2144306.8006
Y1	14+25.00	224.00	208996.8134	2144493.6809
Y1	14+26.00	203.00	208997.6315	2144472.6731
Y1	14+39.00	-76.00	209008.2137	2144193.5709
Y1	14+39.00	-42.53	209008.5037	2144227.0401
Y1	14+40.00	204.00	209011.6396	2144473.5517
Y1	14+51.00	55.00	209021.3483	2144324.4620
Y1	14+59.00	-79.00	209028.1870	2144190.3977
Y1	14+70.00	225.00	209041.8204	2144494.2910
Y1	14+70.00	-41.39	209039.5124	2144227.9066
Y1	14+82.00	63.00	209052.4164	2144332.1931
Y1	16+45.00	-61.00	209214.3360	2144206.7856
Y1	16+45.00	-37.00	209214.5439	2144230.7847
Y1	16+79.00	-61.00	209248.3347	2144206.4910
Y1	16+79.00	-37.00	209248.5426	2144230.4901
Y1	21+39.00	-58.00	209707.8185	2144203.3451
Y1	21+39.00	-37.00	209708.1813	2144224.3420
Y1	21+68.00	-58.00	209736.7258	2144202.8238
Y1	21+68.00	-46.00	209736.9513	2144214.8204
Y1	23+36.23	60.00	209907.4091	2144317.0866
Y1	23+41.00	76.00	209912.5573	2144332.9702
Y1	23+60.00	62.34	209931.2397	2144318.8620
Y1	23+62.00	73.00	209933.4920	2144329.4763

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	12+69.00	-68.00	208637.0058	2143810.7500
Y3	12+69.00	-49.30	208618.3058	2143810.7902
Y3	12+75.00	-97.00	208666.0187	2143816.6831
Y3	12+75.00	-68.00	208637.0188	2143816.7468
Y3	12+77.00	30.00	208539.0235	2143818.9625
Y3	12+77.00	38.00	208531.0235	2143818.9802
Y3	13+01.00	-98.00	208667.0784	2143842.6610
Y3	13+01.00	-49.30	208618.3786	2143842.7779
Y3	13+81.00	68.00	208501.2901	2143923.0812
Y3	13+81.00	53.00	208516.2901	2143923.0403
Y3	14+03.00	55.00	208514.3500	2143945.0457
Y3	14+03.00	70.00	208499.3501	2143945.0865
Y3	15+89.00	75.00	208494.8571	2144131.0995
Y3	15+89.00	62.00	208507.8570	2144131.0640
Y3	15+89.00	30.00	208539.8569	2144130.9768
Y3	16+12.00	62.00	208507.9193	2144154.0521
Y3	16+12.00	75.00	208494.9193	2144154.0850
Y3	16+12.00	30.00	208539.9192	2144153.9710
Y3	16+75.23	64.00	208505.9860	2144217.0980
Y3	18+54.00	65.00	208504.1679	2144395.3230
Y3	18+54.00	70.00	208499.1681	2144395.2791
Y3	18+84.00	49.64	208519.2477	2144425.3867
Y3	18+84.00	66.00	208502.8850	2144425.2204

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	11+10.19	75.00	212428.9522	2144302.4245
Y7	15+28.00	60.00	212460.0459	2144719.7816
Y7	21+41.00	-75.00	212638.2818	2145322.3396
Y7	21+41.00	-40.00	212603.3975	2145325.1827
Y7	22+00.00	-75.00	212642.8303	2145381.9384
Y7	22+00.00	-40.00	212607.9185	2145384.4220
Y7	22+30.65	55.00	212625.5187	2145422.2928
Y7	22+68.00	55.00	212627.4836	2145451.6707
Y7	22+68.00	40.00	212612.4346	2145452.5422
Y7	25+52.00	54.00	212536.8704	2145741.9935
Y7	30+05.00	58.00	212565.5481	2146194.9416
Y7	30+05.00	40.00	212583.4913	2146193.5132
Y7	30+41.00	40.00	212586.3480	2146229.3997
Y7	30+41.00	58.00	212568.4047	2146230.8280
Y7	31+52.00	41.96	212593.1273	2146340.0495
Y7	31+52.00	59.00	212576.1404	2146341.3361
Y7	49+19.00	50.00	212758.2176	2148107.6636
Y7	49+65.00	50.00	212775.6609	2148151.8678
Y7	49+95.00	133.00	212711.6696	2148213.5587
Y7	50+14.00	117.00	212734.6335	2148225.8828
Y7	64+80.00	50.00	213494.1593	2149498.3431
Y7	65+00.00	97.00	213475.7389	2149546.4001
Y7	74+82.00	58.00	214283.2279	2150116.2781
Y7	74+82.00	40.00	214295.3420	2150102.9646
Y7	74+86.00	-58.00	214364.3027	2150033.2186
Y7	74+86.00	-40.00	214352.1733	2150046.5182
Y7	75+14.00	-58.00	214385.2568	2150052.4830
Y7	75+14.00	-40.00	214373.0215	2150065.6852
Y7	75+19.00	40.00	214322.2651	2150127.7238
Y7	75+19.00	58.00	214310.0110	2150140.9085

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	23+90.00	-76.00	212656.1965	2145571.9779
Y7	23+90.00	-40.00	212620.2708	2145574.2903
Y7	24+12.00	-40.00	212621.6839	2145596.2448
Y7	24+12.00	-76.00	212657.6096	2145593.9325

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1A	15+80.00	75.31	208500.0597	2144385.6780

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1RPB	19+58.00	-112.00	211663.0367	2142975.7461
Y1RPB	19+58.00	-101.81	211653.3027	2142978.7558
Y1RPB	19+90.00	-112.00	211672.2933	2143005.1277
Y1RPB	19+90.00	-102.48	211663.2281	2143008.0368

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR1	10+88.00	-56.00	213647.3249	2149693.3664
DR1	10+88.00	-36.84	213634.5063	2149679.1294
DR1	11+09.00	-35.28	213617.8549	2149692.0201
DR1	11+09.00	-56.00	213631.7185	2149707.4178
DR1	11+17.97	35.19	213564.0374	2149645.6516

REVISIONS

6/2/19

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.
- RIGHT OF WAY MONUMENTATION ESTABLISHED 05/10/2022.

$\Delta = 0^{\circ} 09' 09.4" (LT)$ $D = 0^{\circ} 02' 40.1"$ $L = 343.13'$ $T = 171.56'$ $R = 128,825.59'$	$\Delta = 1^{\circ} 29' 31.3" (RT)$ $D = 0^{\circ} 16' 02.8"$ $L = 557.87'$ $T = 278.95'$ $R = 21,423.02'$ $SE = NC$	$\Delta = 0^{\circ} 15' 19.8" (RT)$ $D = 0^{\circ} 05' 02.2"$ $L = 226.53'$ $T = 113.26'$ $R = 50,800.59'$ $SE = EX$	$\Delta = 51^{\circ} 29' 08.4" (LT)$ $D = 16^{\circ} 51' 06.1"$ $L = 305.52'$ $T = 163.94'$ $R = 340.00'$ $SE = 04$
$\Delta = 89^{\circ} 23' 55.6" (RT)$ $D = 110^{\circ} 11' 03.1"$ $L = 81.4'$ $T = 51.46'$ $R = 52.00'$	$\Delta = 90^{\circ} 44' 25.1" (RT)$ $D = 110^{\circ} 11' 03.1"$ $L = 82.35'$ $T = 52.68'$ $R = 52.00'$	$\Delta = 0^{\circ} 18' 10.9" (RT)$ $D = 0^{\circ} 05' 02.2"$ $L = 360.97'$ $T = 180.49'$ $R = 68,254.05'$ $SE = EX$	
$\Delta = 66^{\circ} 20' 28.7" (RT)$ $D = 110^{\circ} 11' 03.1"$ $L = 60.21'$ $T = 33.99'$ $R = 52.00'$	$\Delta = 113^{\circ} 31' 10.6" (RT)$ $D = 110^{\circ} 11' 03.1"$ $L = 103.03'$ $T = 79.34'$ $R = 52.00'$		

NAD 83/NA 2011

ADDED PARCEL 5Z. CHANGED PUE TO DUE ON PARCEL 5Z.

REMOVED TCE AND RW ON PARCEL 11.
ELIMINATED PARCEL 11.

THE PURPOSE OF THIS ADDENDUM IS TO ADD PARCEL 5Z.
CHANGED PUE TO DUE ON PARCEL 5Z.
REMOVED TCE AND RW ON PARCEL 11. ELIMINATED PARCEL 11.

PROJECT REFERENCE NO. R-5819R-5820	SHEET NO. RW13A
Location and Surveys	
NCDOT LOCATION AND SURVEYS DIVISION 6 FIELD OFFICE	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

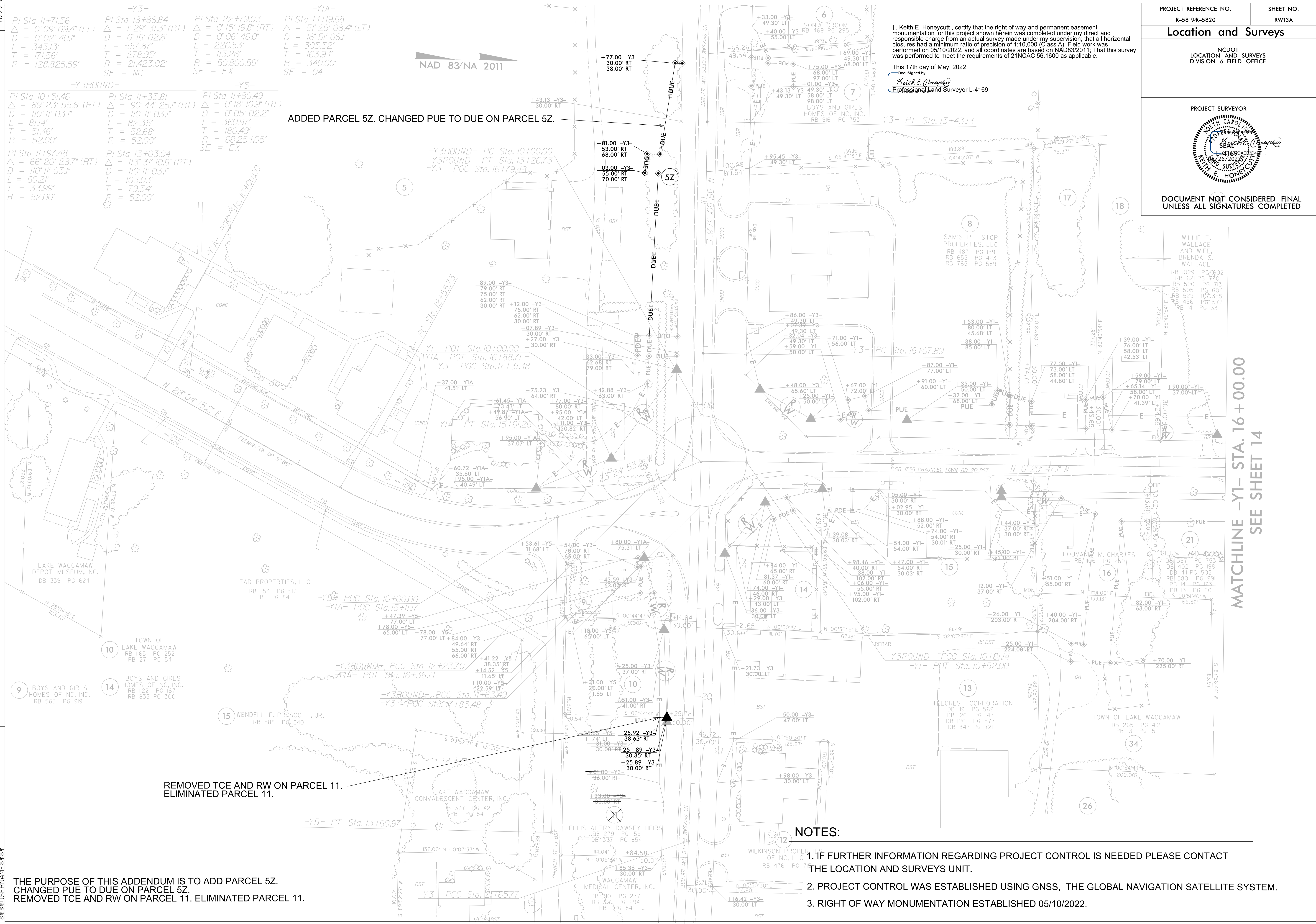
REVISIONS

MATCHLINE -Y1- STA. 16 + 00.00
SEE SHEET 14

I, Keith E. Honeycutt, 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 on 05/10/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NAC 56.1600 as applicable.

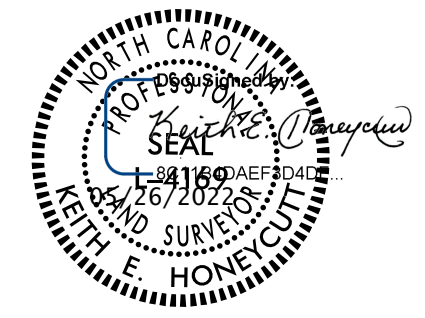
This 17th day of May, 2022.

Keith E. Honeycutt
Professional Land Surveyor L-4169



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 05/10/2022.

PROJECT REFERENCE NO.	SHEET NO.
R-5819R-5820	RW20A
Location and Surveys	
NCDOT LOCATION AND SURVEYS DIVISION 6 FIELD OFFICE	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

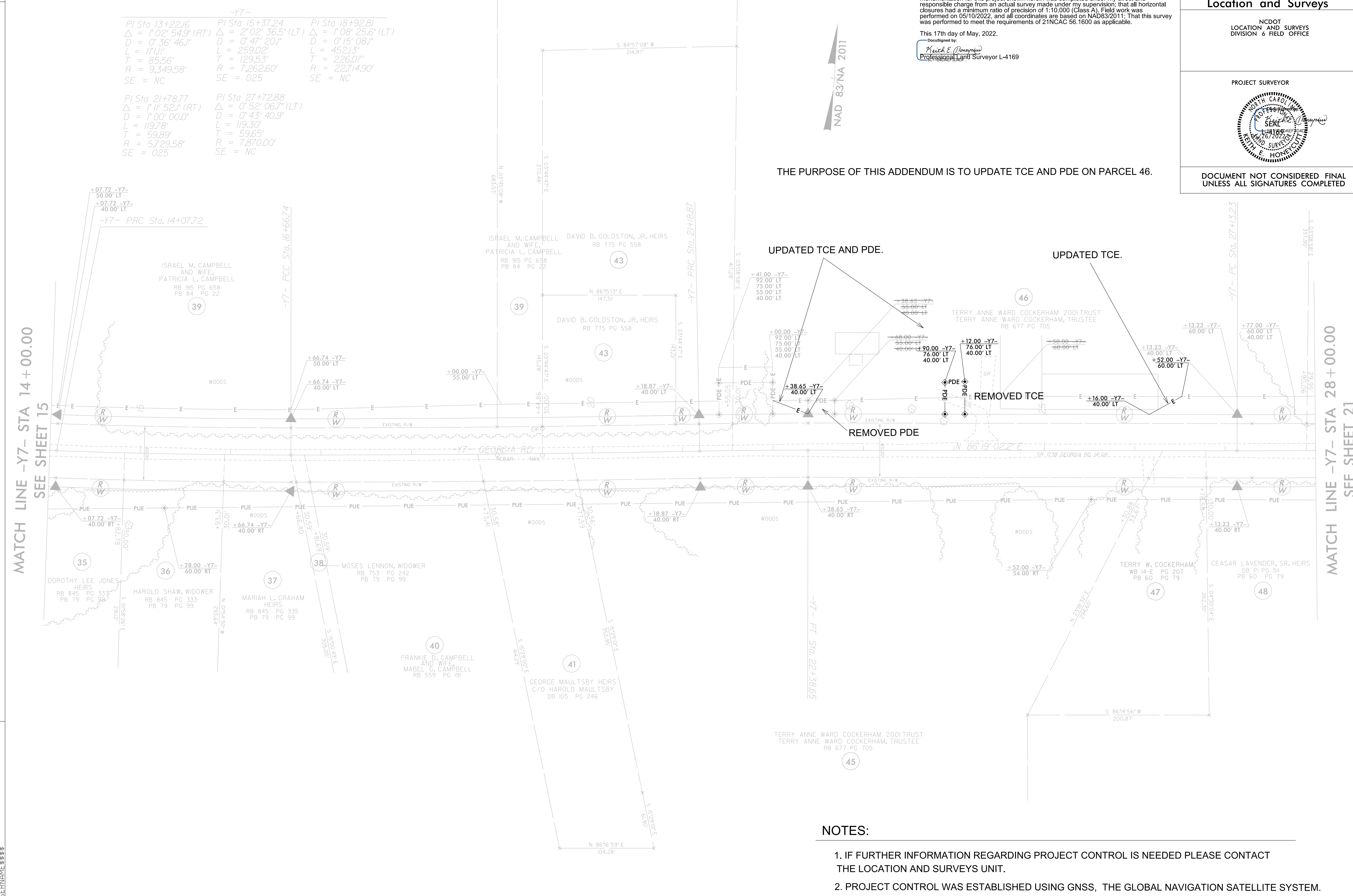
I, Keith E. Honeycutt, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed on 05/10/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 17th day of May, 2022.

DocuSigned by:
 Keith E. Honeycutt
 Professional Land Surveyor L-4169



THE PURPOSE OF THIS ADDENDUM IS TO UPDATE TCE AND PDE ON PARCEL 46.



-Y7-		
PI Sta 13+22.16 Δ = 1' 02' 54.9" (RT) D = 0' 36' 46.1" L = 17.11' T = 85.56' R = 9,349.58' SE = NC	PI Sta 15+37.24 Δ = 2' 02' 36.5" (LT) D = 0' 47' 20.1" L = 259.02' T = 129.53' R = 7,262.60' SE = 025	PI Sta 18+92.81 Δ = 1' 08' 25.6" (LT) D = 0' 15' 08.1" L = 452.13' T = 226.07' R = 22,714.90' SE = NC
-Y7-		
PI Sta 21+78.77 Δ = 1' 11' 52.1" (RT) D = 1' 00' 00.0" L = 119.78' T = 59.89' R = 5,729.58' SE = 025	PI Sta 27+72.88 Δ = 0' 52' 06.7" (LT) D = 0' 43' 40.9" L = 119.30' T = 59.65' R = 7,870.00' SE = NC	

REVISIONS

MATCH LINE -Y7- STA 14+00.00
SEE SHEET 15

MATCH LINE -Y7- STA 28+00.00
SEE SHEET 21

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 05/10/2022.

DATE PLOTTED: 05/10/2022 10:00 AM
 PLOT BY: JLS
 PLOT SCALE: 1"=40'