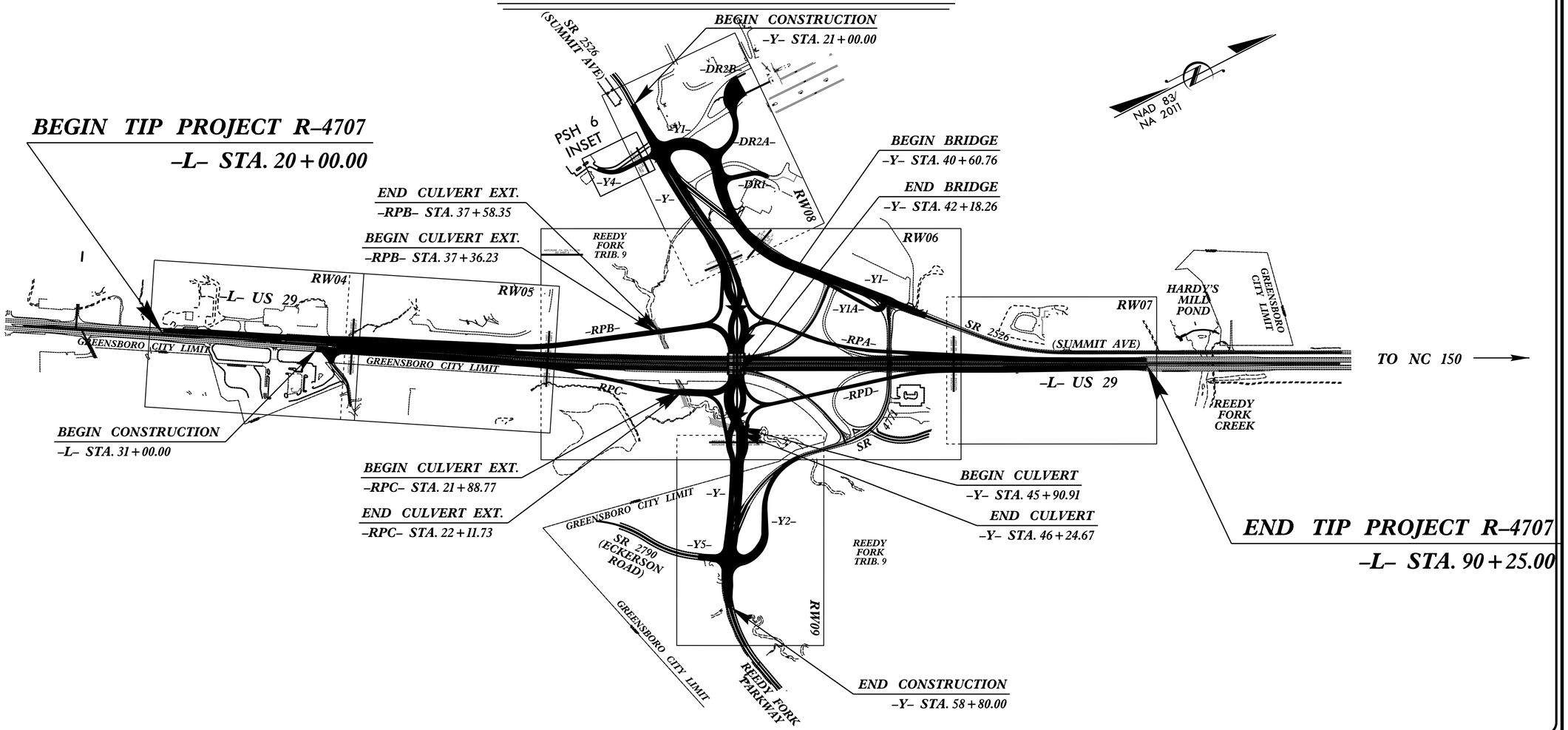
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-4707	RW01	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

GUILFORD COUNTY

TIP PROJECT: R-4707



GRAPHIC SCALE

0

PLANS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCGS FOR MONUMENT "B5354-2"
WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 883915.236(ft) EASTING: 1789464.592(ft)
ELEVATION: 750.68(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.9999718071
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"B5354-2" TO -L- STATION 90+25.00 IS
N 41-45'22.5" E 1904.61(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88/GEOID G12NC

Prepared in the Office of:

Dewberry®
Dewberry Engineers Inc.
551 PINEY FOREST ROAD
DANVILLE, VA 24540
PHONE: 434.797.4497
FAX: 434.797.4341
NCBELS #F-0929

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 28, 2019

LETTING DATE: JUNE 16, 2020

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON

DocuSigned by: Robert H. Bengtson
EA79E7CA33894F1...

8/16/2019

SIGNATURE: Date:

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

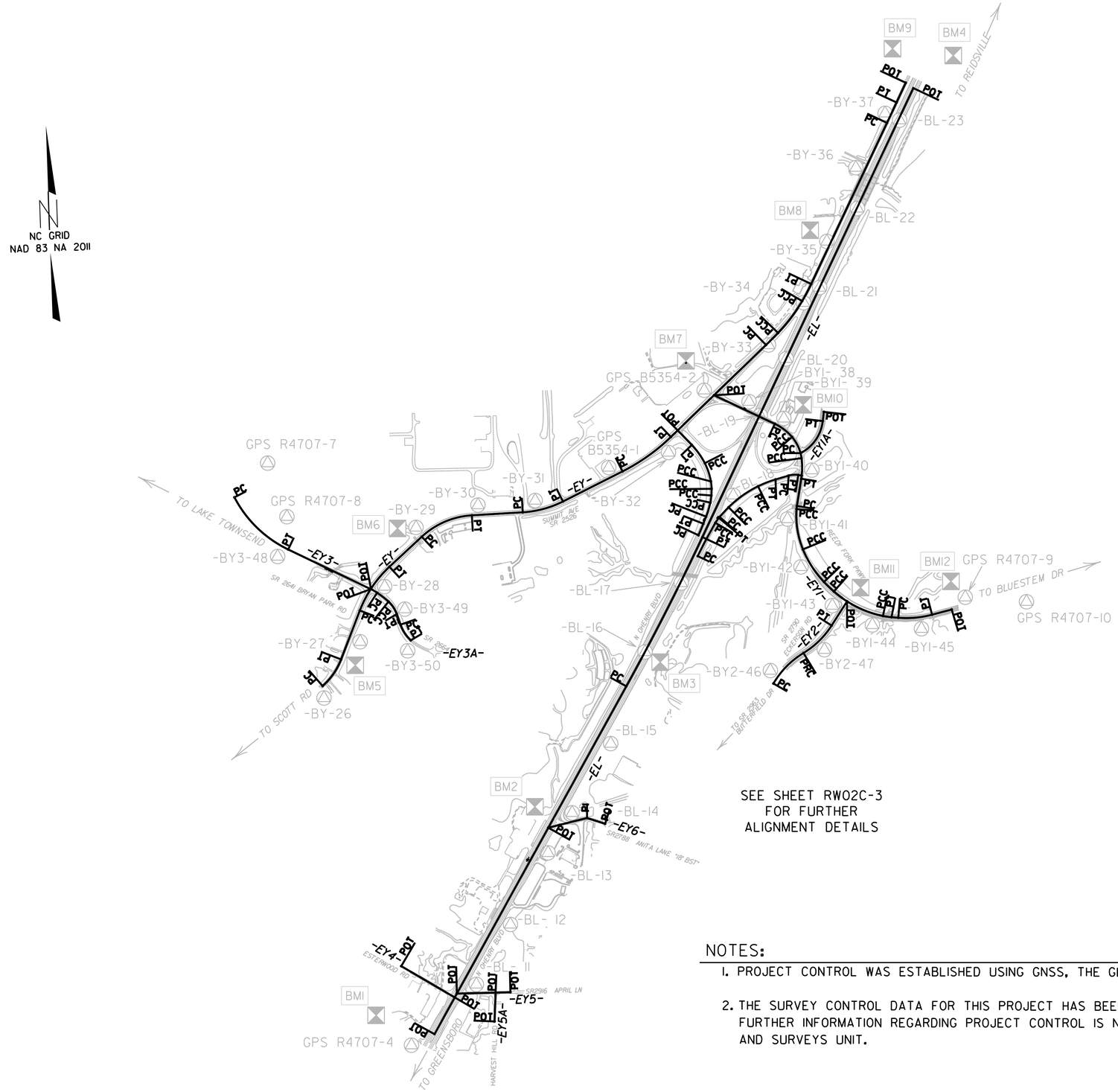
09/08/99

$$$$SYSTIME$$$$ $$$$DGN$$$$ $$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW02C-1
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-3
FOR FURTHER
ALIGNMENT DETAILS

NOTES:

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

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cwlewter AT LS-312549

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW02C-2
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BASELINE DATA

BL

POINT	DESC.	NORTH	EAST	ELEVATION
3	R4707-3	877049.3480	1785987.4890	779.70
4	R4707-4	878263.3850	1786680.9890	793.74
11	BL-11	878775.3379	1787152.1162	801.66
12	BL-12	879294.9568	1787469.9040	807.33
13	BL-13	879863.8206	1787830.9737	802.93
14	BL-14	880205.0704	1788066.5642	791.61
15	BL-15	880898.4786	1788457.5888	764.99
16	BL-16	881651.5297	1788810.7726	740.25
17	BL-17	882281.7148	1789162.4061	717.45
18	BL-18	882994.5425	1789590.2320	719.46
19	BL-19	883710.4496	1789905.0420	733.19
20	BL-20	884205.3595	1790152.9995	732.29
21	BL-21	884826.8225	1790471.3546	716.18
22	BL-22	885515.5102	1790831.1453	694.36
23	BL-23	886288.6810	1791219.7542	691.32
24	BL-24	886833.3569	1791501.9590	714.21
25	BL-25	887280.4935	1791732.7904	735.00
6	R4707-6	887818.1080	1791908.7760	750.85
5	R4707-5	886881.4520	1791456.3650	711.38

BY

POINT	DESC.	NORTH	EAST	ELEVATION
26	BY-26	881424.9508	1785941.5097	771.58
27	BY-27	881847.9782	1786211.6748	750.28
28	BY-28	882298.1111	1786440.8254	736.30
29	BY-29	882779.5944	1786863.8246	716.06
30	BY-30	882949.4443	1787378.5697	731.19
31	BY-31	882972.8400	1787851.4321	731.40
1	B5354-1	883240.9700	1788573.3200	724.35
32	BY-32	883455.2326	1789054.3218	739.89
2	B5354-2	883915.2360	1789464.5920	750.68
33	BY-33	884332.9144	1790000.5608	740.84
34	BY-34	884697.1098	1790323.5486	724.92
35	BY-35	885208.6805	1790592.9004	703.22
36	BY-36	885853.6161	1790884.7456	690.61
37	BY-37	886318.6966	1791163.9124	693.09
A5		886881.4520	1791456.3650	711.38
A6		887818.1080	1791908.7760	750.85

BY1

POINT	DESC.	NORTH	EAST	ELEVATION
A2		883915.2360	1789464.5920	750.68
38	BY1-38	883772.5572	1789802.5380	754.75
39	BY1-39	883628.9145	1790081.6954	750.35
40	BY1-40	883223.1211	1790286.8931	726.67
41	BY1-41	882786.2831	1790173.4315	696.22
42	BY1-42	882380.0742	1790272.0531	707.54
43	BY1-43	882021.9645	1790563.5698	727.65
44	BY1-44	881887.2618	1790858.6920	719.47
45	BY1-45	881844.3342	1791269.7708	713.11
9	R4707-9	881984.6301	1791635.1149	726.99
10	R4707-10	881978.0771	1792206.7464	746.99

BY2

POINT	DESC.	NORTH	EAST	ELEVATION
46	BY2-46	881414.7973	1789959.6594	751.68
47	BY2-47	881663.5938	1790367.1024	743.88
A43		882021.9645	1790563.5698	727.65

BY3

POINT	DESC.	NORTH	EAST	ELEVATION
7	R4707-7	883442.2656	1785524.7682	773.63
8	R4707-8	882961.2851	1785678.9161	752.17
48	BY3-48	882677.5243	1785619.8315	743.65
A28		882298.1111	1786440.8254	736.30
49	BY3-49	882085.2904	1786637.6753	736.14
50	BY3-50	881813.8763	1786723.1636	725.02

BENCHMARK DATA

BM1 ELEVATION - 791.83
N 878515 E 1786314
EL STATION 10-00.00
N 70°07'56.6" W DIST 544.02
RRSPIKEIN18"SWEETGUM

BM2 ELEVATION - 791.09
N 880314 E 1787786
EL STATION 31-95.00 194 LEFT
RRSPIKEIN30"REDOAK

BM3 ELEVATION - 747.31
N 881556 E 1788942
EL STATION 48-52.00 162 RIGHT
RRSPIKEIN32"SWEETGUM

BM4 ELEVATION - 723.98
N 886882 E 1791628
EL STATION 104-06.00
N 39°48'53.5" E DIST 413.39
RRSPIKEIN30"MAPLE

BM5 ELEVATION - 765.35
N 881643 E 1786204
EY STATION 12-90.00 96 RIGHT
RRSPIKEIN15"REDOAK

BM6 ELEVATION - 707.65
N 882841 E 1786747
EY STATION 25-91.00 154 LEFT
RRSPIKEIN15"PECAN

BM7 ELEVATION - 741.91
N 884200 E 1789263
EY STATION 56-06.00 379 LEFT
RRSPIKEIN15"SWEETGUM

BM8 ELEVATION - 704.35
N 885297 E 1790505
EY STATION 73-41.00 104 LEFT
RRSPIKEIN32"ASH

BM9 ELEVATION - 706.85
N 886881 E 1791356
EY STATION 88-75.00
N 12°16'36.4" E DIST 273.04
RRSPIKEIN12"POPLAR

BM10 ELEVATION - 749.21
N 883792 E 1790288
EY1 STATION 16-93.00 276 LEFT
RRSPIKEIN12"PINOAK

BM11 ELEVATION - 733.65
N 882155 E 1790741
EY1 STATION 34-73.00 167 LEFT
RRSPIKEIN24"HICKORY

BM12 ELEVATION - 719.29
N 881991 E 1791630
EY1 STATION 43-95.00
N 56°32'16.0" E DIST 106.19
RRSPIKEIN12"SYCAMORE

NOTES:

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REVISIONS

6/2/99

26-AUG-2019 12:11
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cwlewter AT LS-32549

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW02C-3
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	878330.499	1786826.072							
LINE			N 30°53'14.9" E	3522.23					
PC	881353.193	1788634.220							
CURVE			N 29°01'52.4" E	1484.74	03°42'45.0"(LT)	00°15'00.0"	1485.00	742.76	22918.31
PT	882651.383	1789354.744							
LINE			N 27°10'29.9" E	4398.36					
POT	886564.233	1791363.516							

EY

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	881450.340	1785942.949							
CURVE			N 36°49'42.1" E	286.81	27°40'52.2"(LT)	09°34'07.8"	289.28	147.69	599.47
PT	881679.915	1786114.871							
LINE			N 22°59'16.0" E	464.23					
PC	882107.281	1786296.169							
CURVE			N 36°03'51.1" E	468.23	26°09'10.1"(RT)	05°32'21.2"	472.14	240.35	1034.77
PT	882485.781	1786571.814							
LINE			N 49°08'26.2" E	391.70					
PC	882742.032	1786868.063							
CURVE			N 68°52'36.7" E	482.84	39°28'21.1"(RT)	08°01'15.2"	492.12	256.49	714.92
PT	882916.036	1787318.461							
LINE			N 88°36'47.3" E	452.19					
PC	882926.980	1787770.519							
CURVE			N 76°54'56.2" E	369.37	23°23'42.2"(LT)	06°17'35.1"	371.76	188.60	910.91
PT	883010.599	1788130.296							
LINE			N 65°13'05.2" E	591.36					
PC	883258.476	1788667.196							
CURVE			N 56°35'17.5" E	526.58	17°15'35.4"(LT)	03°15'56.7"	528.51	266.31	1754.68
PT	883548.441	1789106.753							
LINE			N 47°57'29.8" E	1173.24					
PC	884334.126	1789978.068							
CURVE			N 46°56'41.5" E	151.16	02°01'36.6"(LT)	01°20'26.9"	151.17	75.59	4273.32
PCC	884437.324	1790088.520							
CURVE			N 39°11'19.3" E	354.14	13°29'07.7"(LT)	03°47'59.6"	354.89	178.30	1508.10
PCC	884711.804	1790312.291							
CURVE			N 29°49'32.7" E	171.64	05°14'25.6"(LT)	03°03'09.0"	171.68	85.91	1877.23
PT	884860.707	1790397.657							
LINE			N 27°12'19.9" E	1578.24					
PC	886264.353	1791119.205							
CURVE			N 27°06'24.9" E	200.00	00°11'50.0"(LT)	00°05'55.0"	200.00	100.00	58102.72
PT	886442.384	1791210.335							
LINE			N 27°00'29.9" E	192.95					
POT	886614.288	1791297.956							

EY1

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	883904.478	1789501.593							
LINE			S 62°49'12.7" E	595.73					
PC	883632.357	1790031.543							
CURVE			S 50°41'22.8" E	192.53	24°15'39.8"(RT)	12°31'57.1"	193.58	98.46	458.09
PCC	883510.388	1790180.504							
CURVE			S 22°06'08.9" E	205.38	32°54'47.9"(RT)	15°51'23.6"	207.57	107.08	362.49
PCC	883320.099	1790257.782							
CURVE			S 02°44'01.2" W	182.43	16°45'32.3"(RT)	09°09'49.2"	182.88	92.20	625.92
PT	883137.879	1790249.082							
LINE			S 11°06'47.3" W	244.82					
PC	882897.649	1790201.893							
CURVE			S 08°40'39.8" W	27.79	04°52'15.2"(LT)	17°35'28.1"	27.69	13.91	326.99
PCC	882870.177	1790197.700							
CURVE			S 07°02'07.3" E	361.26	26°33'18.9"(LT)	07°17'23.8"	364.27	185.59	786.49
PCC	882511.632	1790241.949							
CURVE			S 30°52'19.8" E	343.76	21°07'06.1"(LT)	06°06'41.7"	345.55	174.84	937.94
PCC	882216.581	1790418.338							
CURVE			S 44°04'12.1" E	122.09	05°16'38.4"(LT)	04°19'18.8"	122.11	61.11	1326.03
PCC	882128.858	1790503.259							
CURVE			S 61°27'16.2" E	486.15	29°29'29.9"(LT)	06°00'08.3"	491.34	251.36	955.00
PCC	881896.546	1790930.315							
CURVE			S 79°47'37.4" E	76.49	07°11'12.5"(LT)	09°23'58.3"	76.46	38.32	610.25
PT	881882.992	1791005.600							
LINE			S 83°23'13.6" E	60.87					
PC	881875.982	1791066.062							
CURVE			N 86°51'57.5" E	300.53	19°29'37.8"(LT)	06°27'31.2"	301.82	152.47	887.58
PT	881892.413	1791366.142							
LINE			N 77°07'08.6" E	179.86					
POT	881932.508	1791541.473							

EY1A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	883364.887	1790250.500							
CURVE			N 36°43'59.5" E	346.22	56°35'22.6"(LT)	15°44'16.7"	359.57	196.60	365.21
PT	883642.360	1790457.573							
LINE			N 08°26'18.2" E	81.84					
POT	883723.310	1790469.582							

RPA

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	882669.195	1789320.049							
CURVE			N 25°13'35.7" E	111.31	03°53'48.4"(LT)	03°30'00.1"	111.34	55.69	1637.02
PT	882769.893	1789367.491							
LINE			N 23°16'41.5" E	67.45					
PC	882831.853	1789394.147							
CURVE			N 18°49'02.5" E	129.18	08°55'18.1"(LT)	06°53'58.7"	129.31	64.78	830.42
PCC	882954.126	1789435.813							
CURVE			N 10°17'27.2" E	64.42	08°07'52.3"(LT)	12°36'42.3"	64.47	32.29	454.31
PCC	883017.508	1789447.322							
CURVE			N 03°50'40.6" E	59.15	04°45'40.8"(LT)	08°02'50.8"	59.17	29.60	711.97
PCC	883076.524	1789451.288							
CURVE			N 03°12'14.1" W	65.64	09°20'08.6"(LT)	14°12'22.2"	65.72	32.93	403.32
PCC	883142.065	1789447.619							
CURVE			N 16°26'51.0" W	170.44	17°09'05.2"(LT)	10°01'32.6"	171.07	86.18	571.49
PCC	883305.527	1789399.362							
CURVE			N 33°31'56.9" W	198.88	17°01'06.6"(LT)	08°31'32.4"	199.61	100.55	672.04
PT	883471.309	1789289.498							
LINE			N 42°02'30.2" W	179.67					
POT	883604.739	1789169.181							

EY2

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	881332.075	1789939.143							
CURVE			N 46°31'35.8" E	379.58	28°42'51.8"(RT)	07°29'28.1"	383.31	195.91	765.39
PCC	881593.234	1790214.604							
CURVE			N 47°43'04.7" E	348.31	26°19'54.0"(LT)	07°29'55.8"	351.14	178.86	764.61
PT	881827.570	1790472.298							
LINE			N 34°33'07.8" E	254.62					
POT	882037.275	1790616.705							

EY3

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	883149.115	1785220.185							
CURVE			S 43°51'58.4" E	663.80	36°53'23.4"(LT)	05°27'50.1"	675.15	349.88	1049.02
PT	882670.539	1785680.186							
LINE			S 62°18'40.1" E	811.50					
POT	882293.461	1786398.754							

EY3A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	882296.577	1786401.051							
LINE			S 55°00'27.7" E	65.57					
PC	882258.976	1786454.767							
CURVE			S 50°17'39.6" E	127.72	09°25'36.0"(RT)	07°22'39.6"	127.77	64.08	777.15
PCC	882177.384	1786553.025							
CURVE			S 31°29'02.3" E	132.64	28°11'38.7"(RT)	21°09'42.6"	133.23	68.38	272.30
PT	882064.268	1786622.299							
LINE			S 17°23'12.9" E	99.45					
PC	881969.363	1786652.017							
CURVE			S 31°16'24.8" E	165.91	27°46'23.8"(LT)	16°38'04.5"	166.96	85.45	345.65
PT	881827.557	1786738.146							

EY4

POINT	N	E	BEARING	DIST
POT	878943.201	1786552.720		
LINE			S 57°41'12.0" E	549.29
POT	878649.577	1787016.950		

EY5

POINT	N	E	BEARING	DIST
POT	878682.886	1787036.867		
LINE			S 89°25'21.3" E	475.25
POT	878678.096	1787512.094		

EY5A

POINT	N	E	BEARING	DIST
POT	878679.420	1787380.771		
LINE			S 04°11'45.9" W	255.51
POT	878424.596	1787362.076		

EY6

POINT	N	E	BEARING	DIST
POT	880124.214	1787899.056		
LINE			N 77°58'31.2" E	353.90
POT	880197.942	1788245.189		
LINE			S 70°29'22.2" E	168.17
POT	880141.776	1788403.706		

RPB

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	882484.522	1789308.009							
CURVE			N 29°55'03.9" E	333.62	04°37'01.6"(RT)	01°23'00.8"	333.71	166.95	4141.19
PCC	882773.687	1789474.406							
CURVE			N 37°06'59.2" E	53.71	09°46'49.1"(RT)	18°11'14.2"	53.78	26.95	315.03
PT	882816.516	1789506.816							
LINE			N 42°00'23.7" E	9.74					
PC	882823.753	1789513.334							
CURVE			N 44°35'25.0" E	117.83	05°10'02.4"(RT)	04°23'02.5"	117.87	58.97	1306.92
PCC	882907.663	1789596.053							
CURVE			N 56°32'08.4" E	320.64	18°43'24.4"(RT)	05°48'48.3"	322.07	162.48	985.58
PCC	883084.470	1789863.541							
CURVE			N 70°46'13.9" E	166.60	09°44'46.8"(RT)	05°50'35.4"	166.80	83.60	980.56
PT	883139.340	1790020.844							
LINE			N 75°38'37.4" E	120.95					
PC	883169.330	1790138.018							
CURVE			N 88°22'42.4" E	85.93	25°28'010.0"(RT)	29°23'42.4"	86.65	44.05	194.92
PT	883171.761	1790223.917							
LINE			S 78°53'12.7" E	30.58					
POT	883165.868	1790253.921							

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

6/2/99

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cwlewter AT LS-31254

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW02D-1

Location and Surveys

Dewberry
Dewberry Engineers Inc.
551 PINEY FOREST ROAD
DANVILLE, VA 24540
PHONE: 434.797.4497
FAX: 434.797.4341
NCBELS #F-0929

NORTH CAROLINA PROFESSIONAL SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON

DocuSigned by: Robert H. Bengtson
EA79E7CA33894F1...
8/16/2019

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	878330.4988	1786826.0721
PC	45+22.23	881353.1927	1788634.2199
PT	60+07.22	882651.3832	1789354.7439
POT	104+05.58	886564.2328	1791363.5157

Y

TYPE	STATION	NORTH	EAST
POT	20+00.00	882916.0358	1787318.4613
PC	25+00.00	882928.1372	1787818.3149
PRC	31+61.96	882989.6664	1788476.8779
PT	37+98.36	882892.3936	1789094.9913
PC	47+47.44	882458.9384	1789939.3098
PRC	55+16.01	882054.8035	1790592.0782
PT	58+91.86	881896.5460	1790930.3154

Y1

TYPE	STATION	NORTH	EAST
POT	10+00.00	882927.6340	1787797.5280
PC	10+77.53	883005.1554	1787798.7380
PRC	15+52.09	883236.6860	1788132.8006
PT	24+13.56	883395.9435	1788937.6356
POT	38+14.51	884334.1257	1789978.0676

Y1A

TYPE	STATION	NORTH	EAST
POT	26+50.00	883538.8730	1789127.1279
PC	30+97.40	883789.3229	1789497.8534
PT	31+82.92	883864.2380	1789506.9965
POT	32+16.42	883889.1190	1789484.5609

Y2

TYPE	STATION	NORTH	EAST
PC	10+00.00	882870.1766	1790197.7002
PCC	10+67.29	882803.0572	1790193.2524
PT	15+20.42	882435.5195	1790415.0797
PC	16+85.76	882361.9171	1790563.1338
PT	20+28.26	882069.3955	1790638.8242
POT	20+67.26	882037.2747	1790616.7052

Y4

TYPE	STATION	NORTH	EAST
POT	10+00.00	882927.6340	1787797.5280
PC	12+75.92	882651.7480	1787793.2218
PT	14+59.80	882493.9481	1787712.0079
POT	14+72.41	882486.4622	1787701.8645

Y5

TYPE	STATION	NORTH	EAST
POT	10+00.00	882037.2747	1790616.7052
POT	12+54.62	881827.5704	1790472.2982

RPA

TYPE	STATION	NORTH	EAST
POT	10+00.00	884356.6914	1790177.3802
TS	17+04.63	883746.3225	1789825.3100
SC	18+84.63	883592.1371	1789732.4781
CS	22+19.04	883333.4167	1789521.5656
ST	23+99.04	883211.4194	1789389.2495
PC	25+49.04	883111.8261	1789277.0836
PT	28+28.93	882861.0813	1789265.7898

RPB

TYPE	STATION	NORTH	EAST
PC	10+00.00	879895.2384	1787716.6399
PRC	14+42.32	880280.8025	1787933.2976
PT	18+84.64	880666.3665	1788149.9553
TS	25+84.64	881267.0905	1788509.3029
SC	27+19.64	881383.6749	1788577.3573
CS	30+01.58	881638.5916	1788697.3100
ST	31+36.58	881765.3427	1788743.7588
PC	40+71.32	882646.3972	1789055.9606
PT	42+79.14	882744.4935	1789220.5370

RPC

TYPE	STATION	NORTH	EAST
TS	10+00.00	881329.0684	1788674.5562
SC	11+35.00	881444.2635	1788744.9396
CS	13+44.67	881615.9591	1788865.1697
ST	14+79.67	881721.4918	1788949.3515
PC	19+04.67	882051.2370	1789217.4804
PCC	24+18.56	882481.4883	1789496.6947
PT	26+68.98	882696.0861	1789427.0146

RPD

TYPE	STATION	NORTH	EAST
TS	10+00.00	884135.8375	1790169.6622
SC	11+80.00	883974.3400	1790090.2208
CS	13+79.64	883788.0101	1790018.8441
ST	15+59.64	883614.7693	1789970.0584
PC	23+62.76	882838.1045	1789765.6471
PT	26+12.52	882713.4315	1789574.8740

DR1

TYPE	STATION	NORTH	EAST
POT	10+00.00	883548.9288	1788318.1788
PC	10+41.64	883522.6444	1788285.8839
PT	11+37.09	883443.6062	1788235.2815
POT	13+65.95	883221.9316	1788178.3709

DR2A

TYPE	STATION	NORTH	EAST
POT	10+00.00	883866.3062	1787713.1150
PC	11+92.50	883673.8628	1787708.4445
PRC	14+02.98	883522.9761	1787829.7958
PT	16+45.70	883359.5583	1787988.9299
POT	17+58.96	883247.8454	1788007.5674

DR2B

TYPE	STATION	NORTH	EAST
POT	10+00.00	883738.9178	1787580.5962
PC	10+67.69	883671.2278	1787580.6213
PRC	13+29.55	883523.5818	1787756.7792
PT	14+02.98	883522.9761	1787829.7958

NOTES:

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

2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

IF AVAILABLE, USE
P:\Survey\Microstation\rw & e sheets\R4707_LS_RW02D-1_190816.dgn
POWER BY MicroGEOPAK

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW03E-1

Location and Surveys

Dewberry®
Dewberry Engineers Inc.
551 PINEY FOREST ROAD
DANVILLE, VA 24540
PHONE: 434.797.4497
FAX: 434.797.4341
NCBELS #F-0929

NORTH CAROLINA PROFESSIONAL SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON
2/6/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

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

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

Witness my original signature, registration number and seal this 5th day of February, 2020.

DocuSigned by:
Robert H. Bengtson
EA79E7CA33894F1...

---------- L-3453
Professional Land Surveyor PLS # Seal

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	33+00.00	125.00	880240.1369	1788114.0578
L	45+22.23	125.00	881289.0235	1788741.4920
L	20+00.00	-125.00	879252.8451	1787232.1537
L	83+87.25	125.00	884711.5989	1790552.9238
L	46+54.35	125.00	881403.2248	1788809.3600
L	45+22.23	-140.00	881425.0655	1788514.0771
L	31+90.57	-140.00	880282.2613	1787830.4621
L	31+90.61	-125.00	880274.5981	1787843.3569
L	14+04.93	-125.00	878742.1700	1786926.6700

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	45+75.19	294.34	882275.7598	1789651.6407
Y	34+25.00	-100.00	883097.1797	1788749.1180
Y	23+60.00	40.00	882884.7647	1787679.3239
Y	26+00.00	100.00	882831.7001	1787922.7555
Y	26+00.00	-100.00	883031.4972	1787913.7508
Y	31+61.96	-100.00	883088.3552	1788460.7376
Y	21+00.00	-40.00	882958.4485	1787417.4638
Y	21+00.00	-60.00	882978.4385	1787416.9799
Y	22+87.50	-77.50	883000.4714	1787604.0014
Y	54+00.00	125.00	882019.9880	1790426.1871
Y	56+26.25	45.28	881955.4117	1790661.9864
Y	57+14.59	39.38	881918.6627	1790746.7711
Y	58+26.88	-39.52	881951.8250	1790879.8000
Y	58+30.48	-51.45	881962.1634	1790886.6772
Y	56+95.00	-51.58	882009.3149	1790767.6055
Y	48+00.00	-125.00	882545.2502	1790044.2352
Y	48+00.00	125.00	882324.1098	1789927.6295
Y	31+61.96	100.00	882890.9775	1788493.0183
Y	36+50.00	175.00	882784.3439	1788902.4396
Y	34+00.00	100.00	882900.1846	1788706.5544
Y	25+43.00	100.00	882829.4255	1787864.6128
Y	23+84.50	-107.50	883032.8103	1787700.2469
Y	49+06.13	-125.00	882442.6200	1790229.1400
Y	48+81.69	-125.00	882505.5300	1790118.0400

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	12+13.50	-125.00	883200.2845	1787730.8841
Y1	13+60.00	-120.00	883338.2904	1787896.0436
Y1	15+30.00	-120.00	883359.3183	1788141.9265
Y1	18+00.00	-90.00	883280.4601	1788378.3456
Y1	20+50.00	-65.98	883284.5004	1788604.2692
Y1	23+63.00	-70.68	883418.6690	1788855.1240
Y1	25+80.28	-51.10	883545.5418	1789027.2388
Y1	25+80.96	-70.00	883560.0346	1789015.0817
Y1	32+95.00	-70.00	884038.2073	1789545.3692
Y1	32+95.00	50.00	883949.0885	1789625.7297
Y1	34+50.00	25.00	884071.4540	1789724.0998

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	18+24.60	95.79	882224.8653	1790569.4536
Y2	15+20.42	-90.00	882516.1102	1790455.1440
Y2	16+85.76	-90.00	882442.5078	1790603.1980
Y2	19+80.00	-90.00	882080.1954	1790745.3342
Y2	14+00.00	-90.00	882569.5162	1790379.0367
Y2	11+69.05	-27.01	882708.2990	1790230.0580
Y2	11+71.21	49.97	882688.3100	1790155.6900

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	11+35.00	-23.00	882792.2914	1787818.4183
Y4	13+55.00	-23.00	882565.7730	1787797.6742
Y4	12+75.92	-23.00	882651.3890	1787816.2190
Y4	13+55.00	23.00	882584.1517	1787755.5052
Y4	12+75.92	23.00	882652.1069	1787770.2246
Y4	11+94.18	23.00	882733.8367	1787771.5003
Y4	10+89.54	40.88	882838.7430	1787755.2540

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5	11+24.47	34.00	881954.0424	1790518.1037
Y5	11+04.05	-34.00	881932.2926	1790585.6897

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPA	24+06.68	105.00	883284.8575	1789313.8152

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPB	28+80.00	-80.00	881560.0913	1788577.0889
RPB	29+15.00	-72.50	881587.7841	1788597.7525
RPB	31+36.58	-125.00	881807.0928	1788625.9372
RPB	35+85.00	-125.00	882229.7581	1788775.7087
RPB	36+10.00	-175.00	882270.0224	1788736.9301
RPB	40+71.32	-150.00	882696.4973	1788914.5747

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPC	14+79.67	100.00	881658.4027	1789026.9386
RPC	18+00.00	100.00	881906.9353	1789229.0304
RPC	20+35.00	125.00	882081.0551	1789398.0388

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPD	14+80.27	-77.91	883670.8810	1790065.6610
RPD	14+50.00	-66.00	883702.6053	1790062.1324
RPD	13+00.00	-89.00	883832.4314	1790128.2373
RPD	12+57.11	-69.57	883877.6165	1790124.7755

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
SPA	27+70.00	120.00	883113.4177	1789077.9570
SPA	26+20.00	105.00	883143.2249	1789154.3030

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
SPD	23+95.63	-165.75	882764.1198	1789917.5735

NOTES:

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

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

REVISIONS

6/2/99

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hpowell
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RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW03E-2

Location and Surveys

Dewberry®
Dewberry Engineers Inc.
551 PINEY FOREST ROAD
DANVILLE, VA 24540
PHONE: 434.797.4497
FAX: 434.797.4341
NCBELS #F-0929

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON

2/6/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	77+91.00	145.00	884172.0351	1790298.4051
L	82+45.00	145.00	884575.9207	1790505.7512
L	82+55.00	145.00	884584.8169	1790510.3183
L	82+45.00	155.00	884571.3536	1790514.6474
L	82+55.00	155.00	884580.2498	1790519.2145
L	83+87.25	145.00	884702.4647	1790570.7162
L	77+46.92	148.67	884131.1465	1790281.5358
L	77+26.94	150.33	884112.6104	1790273.8884
L	77+30.26	446.45	883980.3282	1790538.8433
L	77+50.27	446.46	883998.1176	1790547.9861
L	46+40.00	152.00	881377.0601	1788825.2618
L	46+40.00	125.00	881390.8014	1788802.0201

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	48+30.00	125.00	882310.4008	1789953.4325
Y	48+14.00	141.00	882303.6012	1789932.1776
Y	48+30.00	151.00	882287.4784	1789941.1620
Y	48+18.00	-143.00	882552.4959	1790069.0110
Y	48+32.00	-152.00	882553.6380	1790085.9794
Y	48+32.00	-125.00	882529.8393	1790073.2271
Y	57+04.00	-74.00	882025.9817	1790784.8017
Y	47+58.00	-218.54	882648.3050	1790048.9313

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	17+34.00	-120.00	883314.6140	1788323.4120
Y1	21+30.00	-105.00	883344.4725	1788659.2498
Y1	23+63.00	-109.00	883448.6937	1788831.3089

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	19+74.00	-111.00	882081.5379	1790768.1457
Y2	16+85.76	-111.00	882461.3123	1790612.5463
Y2	15+20.42	-111.00	882534.9147	1790464.4923
Y2	13+99.82	-111.00	882584.7914	1790393.4480
Y2	11+64.45	-49.56	882717.3900	1790251.1100
Y2	11+94.18	-65.66	882696.8691	1790273.1364
Y2	12+33.76	-59.29	882663.2840	1790278.3801

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPB	37+75.38	-216.90	882439.9038	1788752.6716
RPB	37+84.95	-165.52	882431.7544	1788804.2982

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPC	22+50.00	260.00	882200.4786	1789638.5135
RPC	21+50.00	196.00	882141.6600	1789526.1609
RPC	21+50.00	164.33	882159.0307	1789499.6754
RPC	18+18.00	120.00	881908.2832	1789255.9038
RPC	13+82.00	121.50	881570.1524	1788983.4904

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
RPD	18+29.16	-236.29	883293.9900	1790129.9700
RPD	10+42.00	-109.00	884048.9462	1790247.6224
RPD	12+89.60	-106.70	883835.4401	1790148.2533
RPD	16+89.00	-118.00	883459.6400	1790051.2500
RPD	18+25.25	-268.00	883289.6959	1790161.6287
RPD	18+22.20	-280.00	883289.5912	1790174.0098
RPD	18+12.50	-277.50	883299.6080	1790174.0610
RPD	18+15.00	-266.50	883299.9901	1790162.7869
RPD	16+89.00	-98.09	883464.7100	1790031.9900
RPD	14+85.00	-132.00	883652.1714	1790116.6198
RPD	17+07.20	-187.50	883424.3472	1790113.8263
RPD	16+57.00	-131.00	883487.2700	1790071.9600
RPD	14+98.01	-135.26	883639.1300	1790116.4600
RPD	23+26.41	-219.41	882817.4035	1789987.0837

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
SPC	26+65.00	200.00	882265.1153	1789703.4979

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

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

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

Witness my original signature, registration number and seal this 5th day of February, 2020.

DocuSigned by:
Robert H. Bengtson
EA79E7CA33894F1...

---------- L-3453
Professional Land Surveyor 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.

REVISIONS

6/2/99

05-FEB-2020 14:46
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pbowen at MIGAPE

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

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Robert H. Bengtson
EA15E7CA338994F1...

Professional Land Surveyor L-3453 PLS # Seal

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW04

Location and Surveys

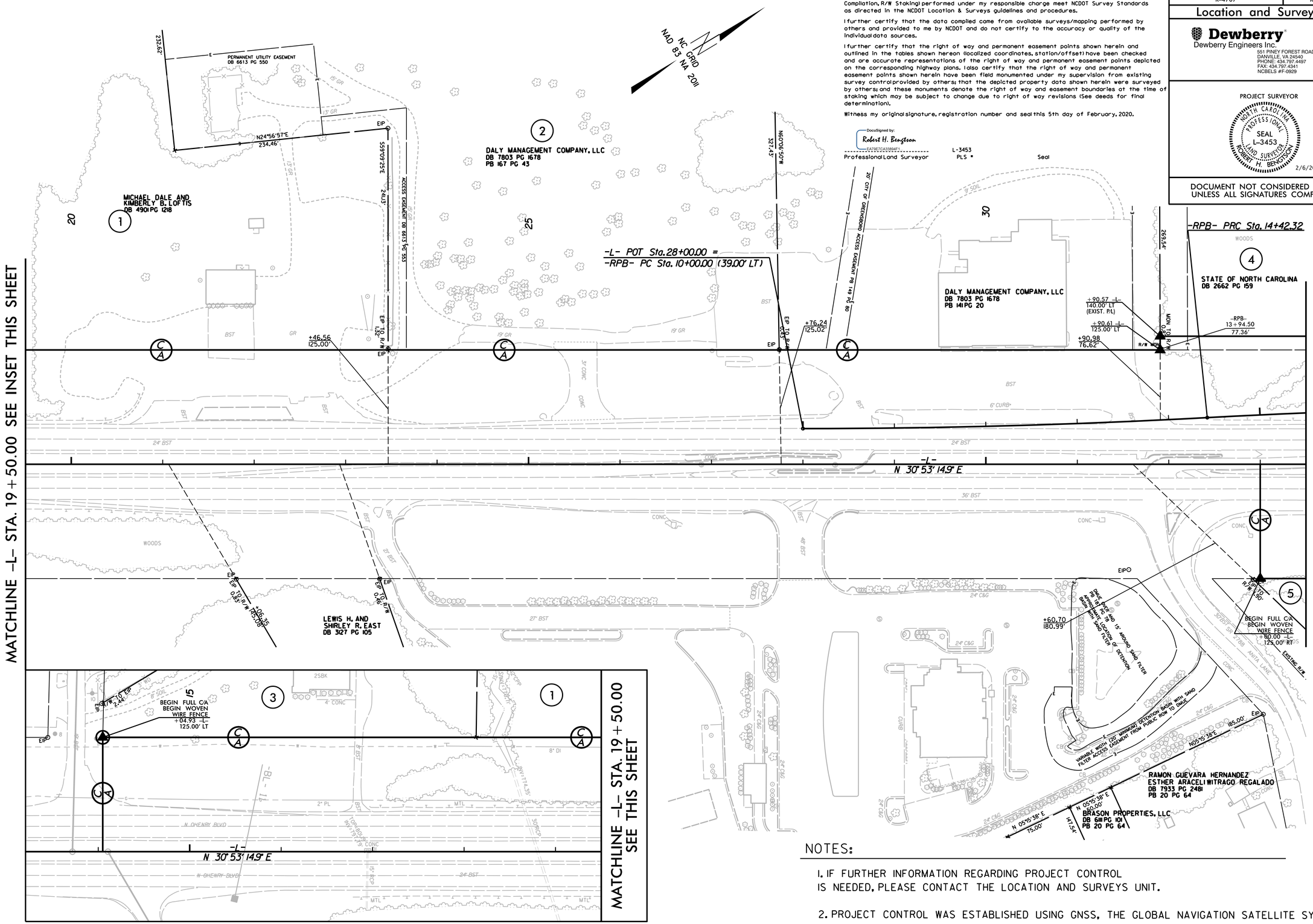
Dewberry
Dewberry Engineers Inc.
551 PINEY FOREST ROAD
DANVILLE, VA 24540
PHONE: 434.797.4497
FAX: 434.797.4341
NCBELS #F-0929

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON

2/6/2020

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.

REVISIONS

6/2/99

06-FEB-2020 08:39
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bbowell

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

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

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

Witness my original signature, registration number and seal this 16th day of August, 2019.

DocuSigned by:
Robert H. Bengtson
E8F0EC8D3B8AF3...

Professional Land Surveyor — L-3453 PLS # — Seal

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW05

Location and Surveys

Dewberry
Dewberry Engineers Inc.
551 PINEY FOREST ROAD
DANVILLE, VA 24540
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FAX: 434.797.4341
NCBELS #F-0929

NORTH CAROLINA PROFESSIONAL SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON

8/20/2019

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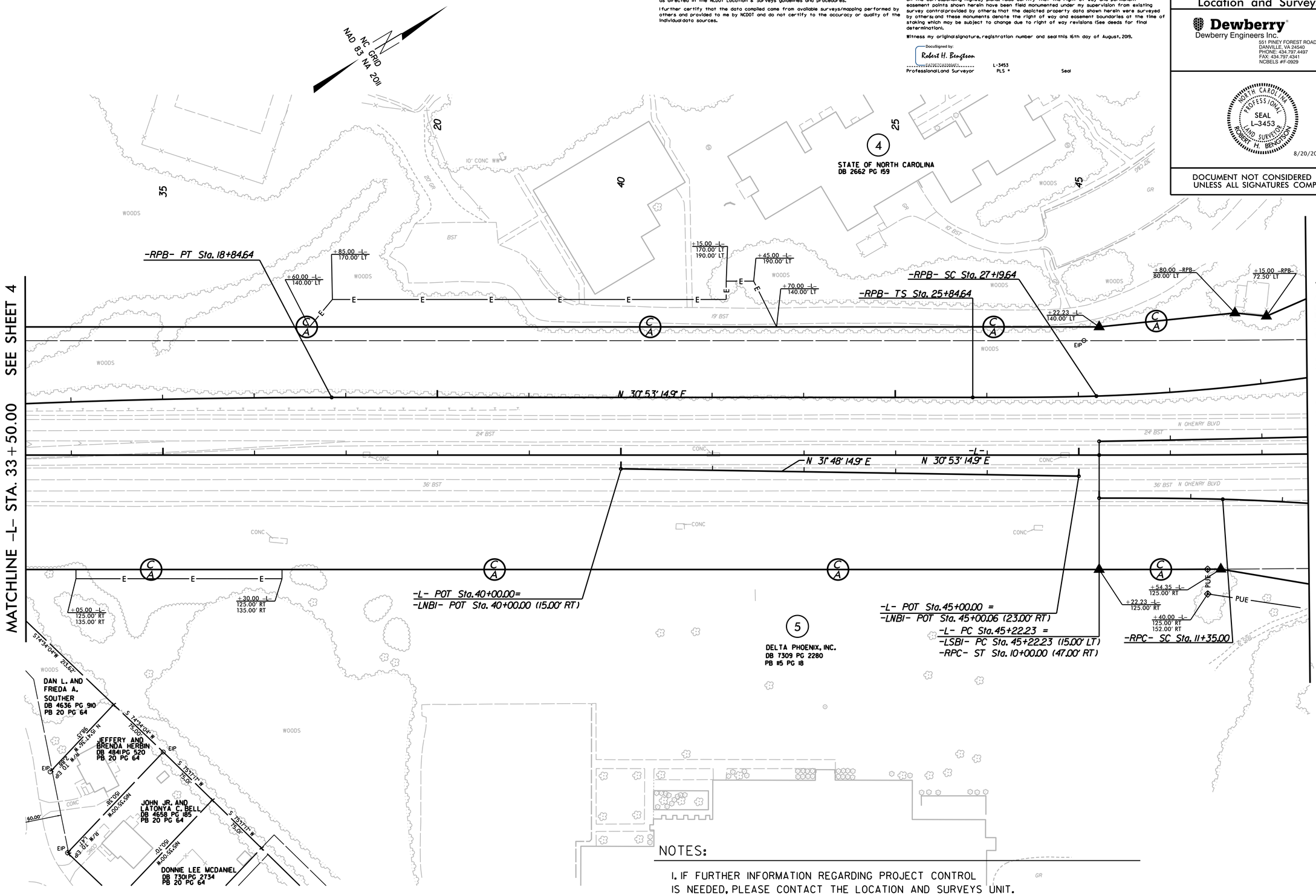

NOTES:

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

REVISIONS

6/2/99

20-AUG-2019 13:20
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bpowell

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW06

Location and Surveys

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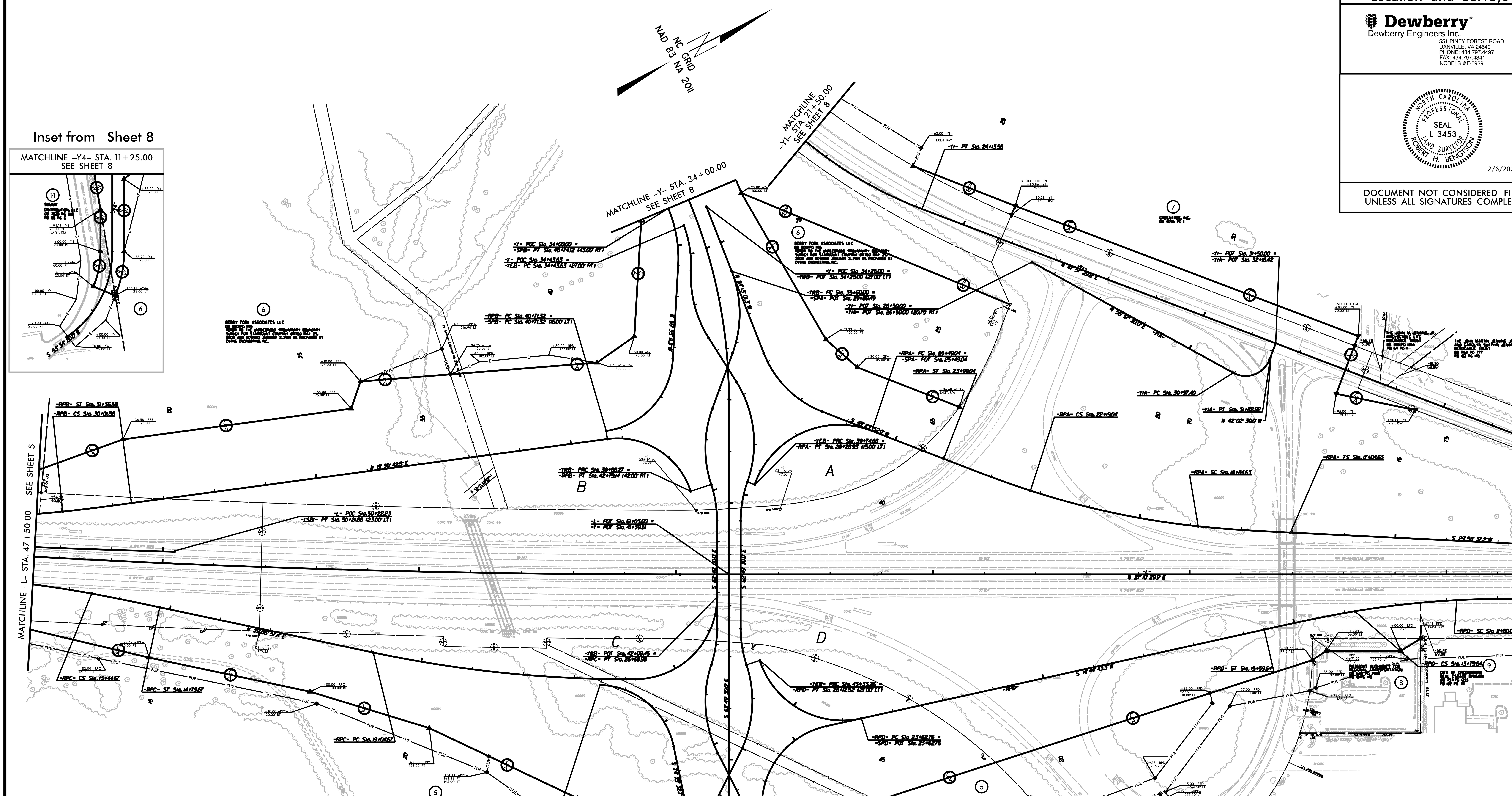
NCBELS #F-0929

NORTH CAROLINA PROFESSIONAL SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON

2/6/2020

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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

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Witness my original signature, registration number and seal this 5th day of February, 2020.

DocuSigned by: Robert H. Bengtson
EA79E7CA33894F1...

Professional Land Surveyor — L-3453 PLS # — Seal

NOTES:

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REVISIONS

6/2/99

06-FEB-2020 08:47
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bpowell AT MJ39BPF

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

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DocuSigned by:
Robert H. Bengtson
E4D8D7A3A9B4E...
Professional Land Surveyor L-3453 PLS * Seal

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW07

Location and Surveys

Dewberry
Dewberry Engineers Inc.
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NORTH CAROLINA PROFESSIONAL SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON
8/20/2019

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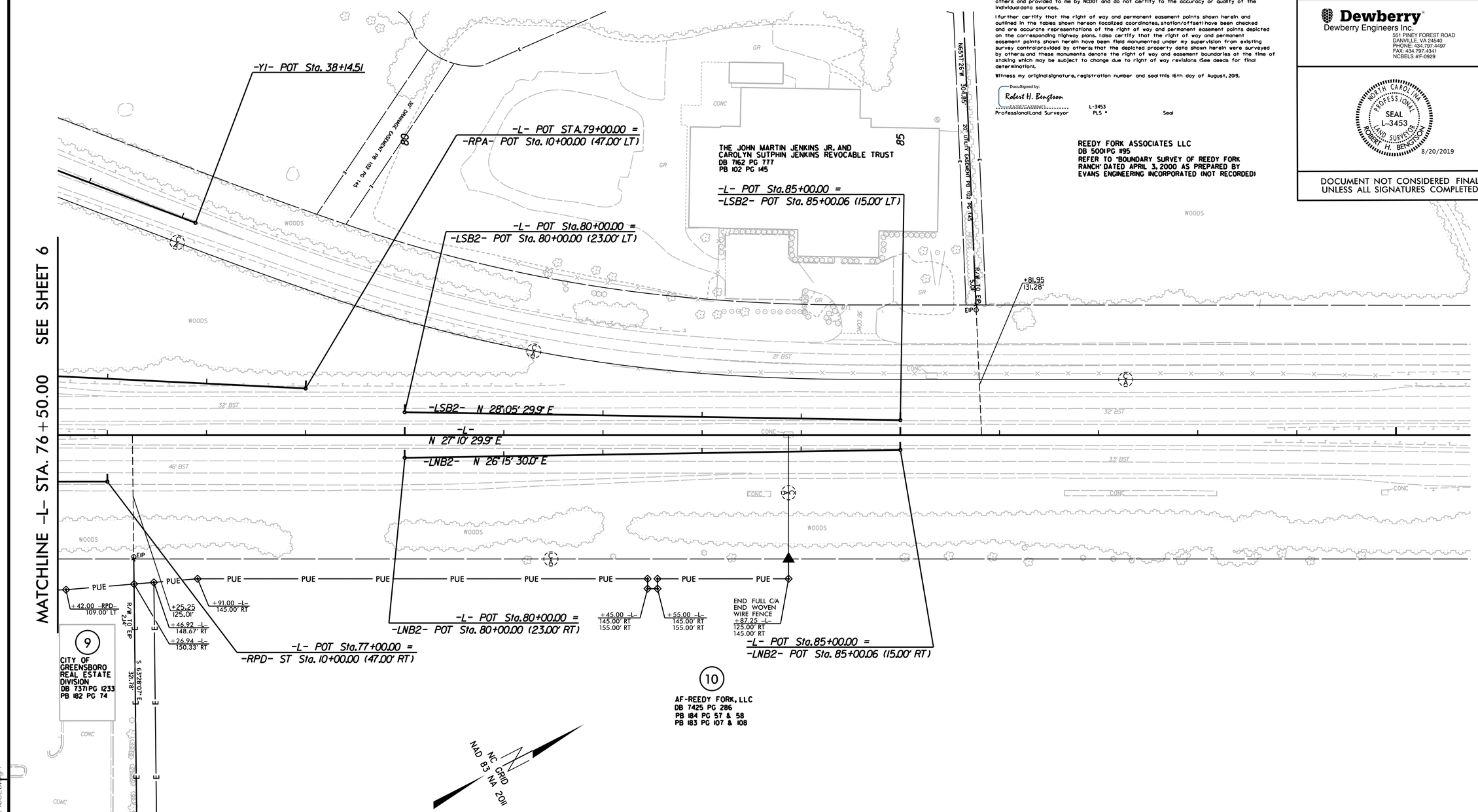

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REVISIONS

REVISIONS

6/2/99

20-AUG-2019 13:15
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I, ROBERT H. BENGTSON, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 16th day of August, 2019.

DocuSigned by:
Robert H. Bengtson
5A0B7C5A3B9B461...
Professional Land Surveyor L-3453 PLS * Seal

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW08

Location and Surveys

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NORTH CAROLINA PROFESSIONAL SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON
8/20/2019

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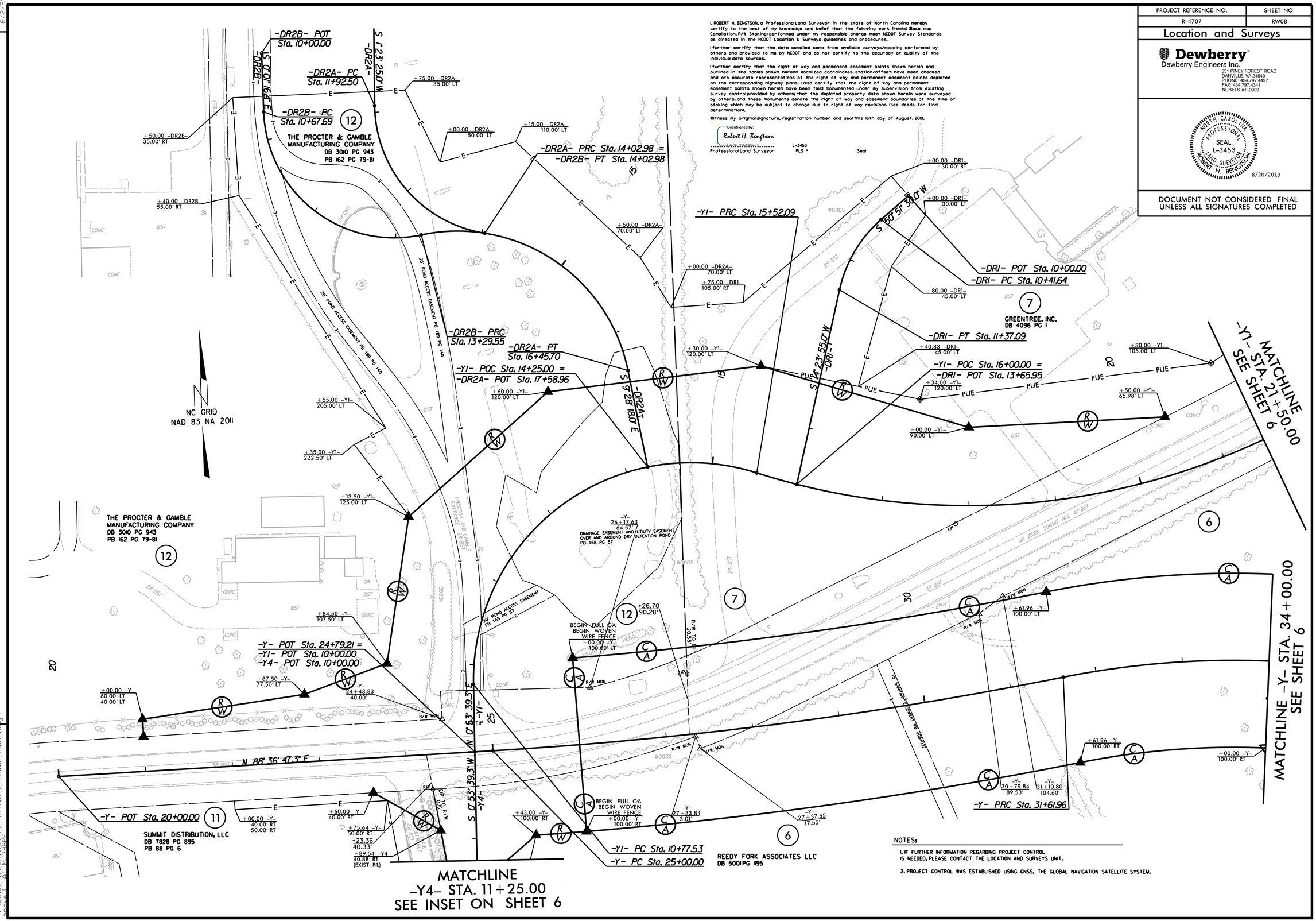

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

6/2/99

29-AUG-2019 14:43
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bpowell A: M13BPP

PROJECT REFERENCE NO.	SHEET NO.
R-4707	RW09

Location and Surveys

Dewberry
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NCBELS #F-0929

NORTH CAROLINA PROFESSIONAL SEAL L-3453 LAND SURVEYOR ROBERT H. BENGTSON
2/6/2020

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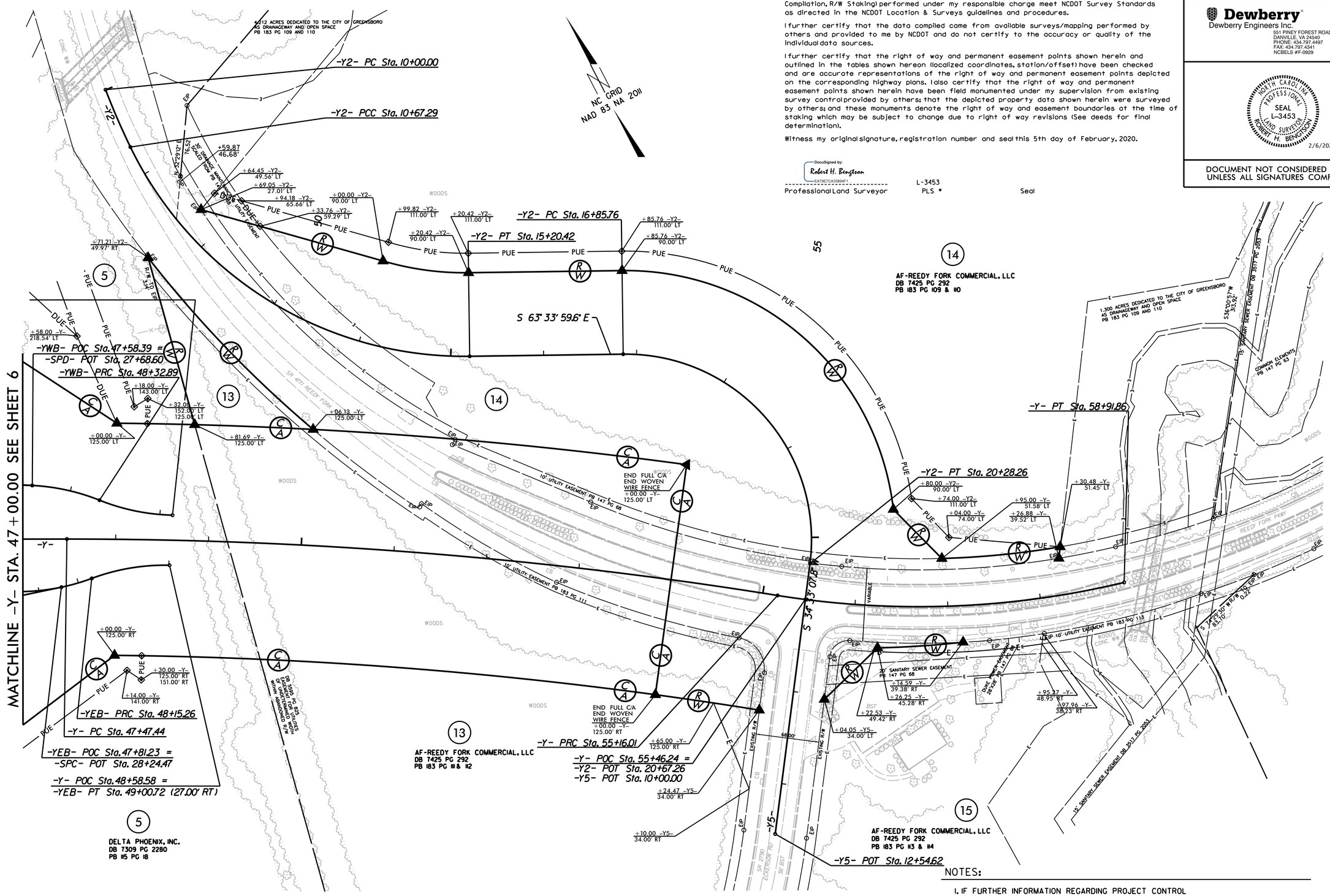
Professional Land Surveyor PLS # L-3453 Seal



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REVISIONS

6/2/99

05-FEB-2020 12:25
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PROWELL AT M13GRPF