

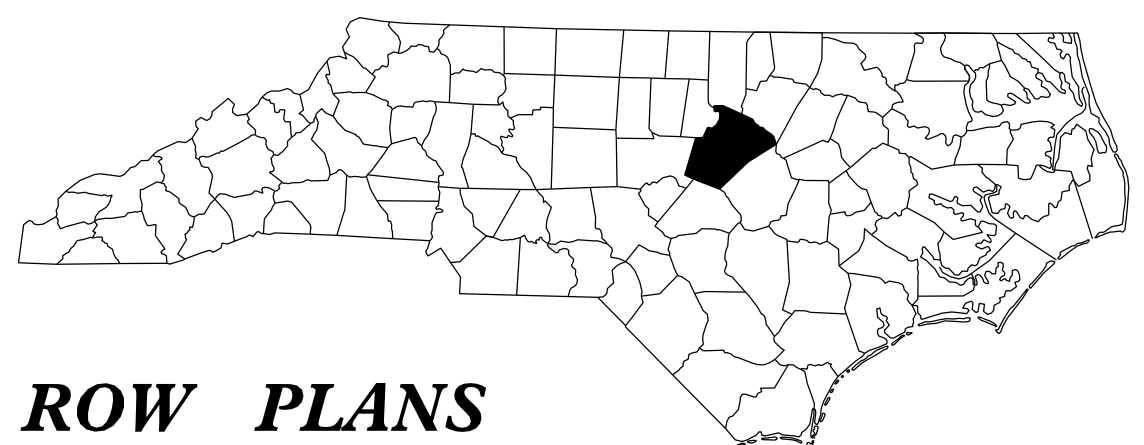
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	P5715	RW01	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

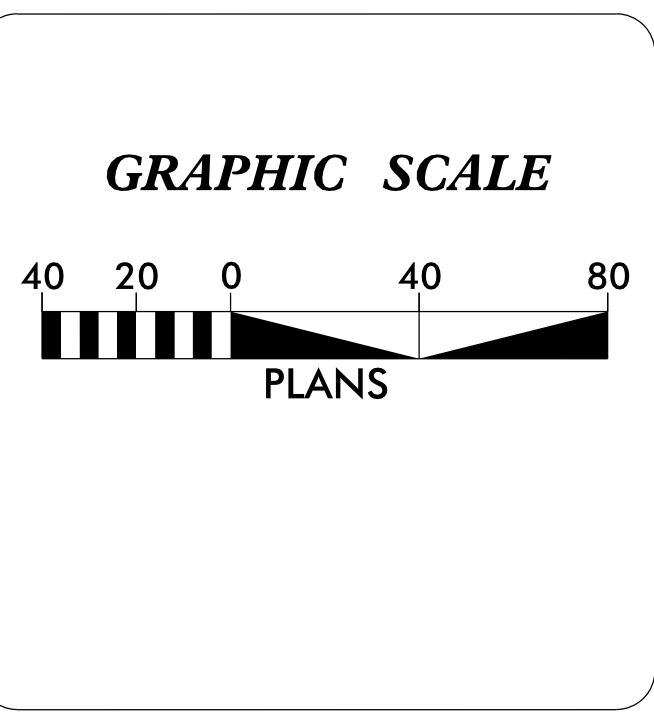
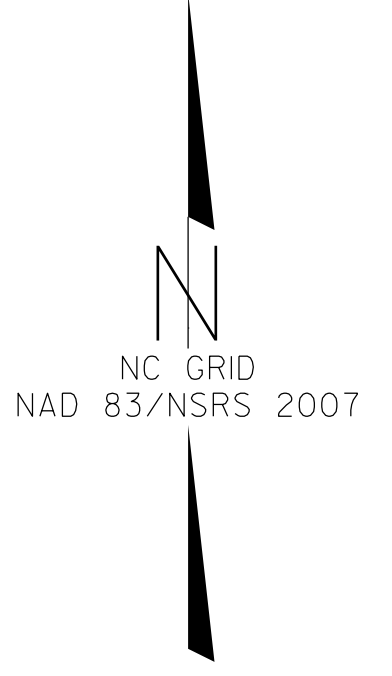
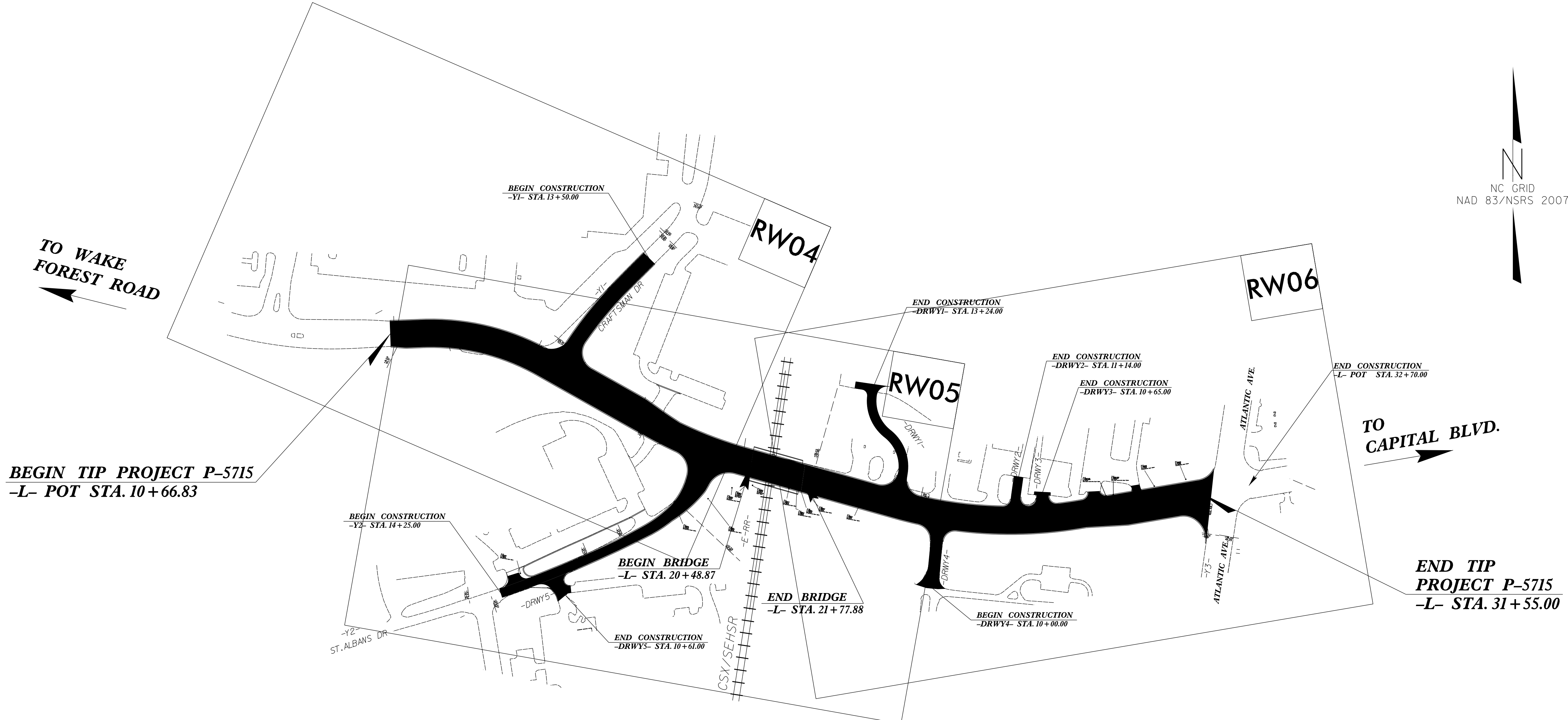
WAKE COUNTY

LOCATION: NEW HOPE CHURCH ROAD GRADE SEPARATION OVER
CSX RAIL LINE (CROSSING NO. 630607N AT MILEPOST S 152.32)



ROW PLANS

TIP PROJECT: P5715



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "SEHSR-4" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 777,964,330(ft) EASTING: 2,125,243,897(ft) ELEVATION: 312.92(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99992346
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "SEHSR-4" TO -L- STATION 11+87.34 IS S 26-28'22" W 20,827.22(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

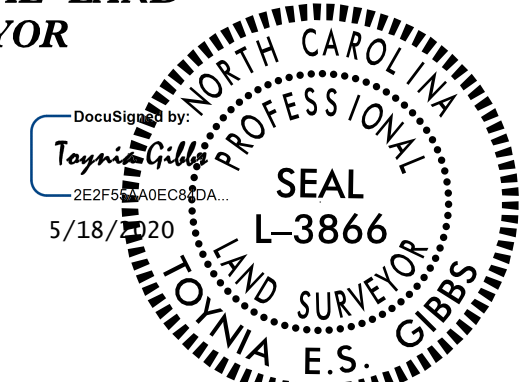
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
June 28, 2018

LETTING DATE:
December 21, 2021

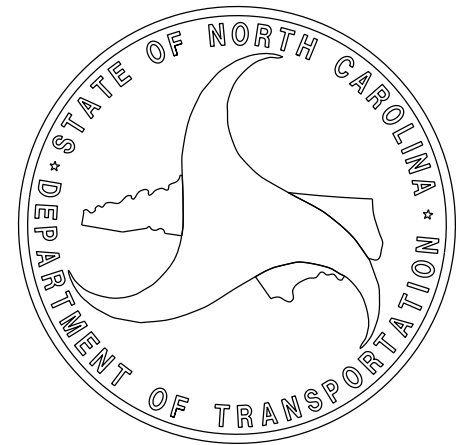
ESP ASSOCIATES, INC
2200 GATEWAY CENTRE BLVD.,
SUITE 216
MORRISVILLE, NC 27560

PROFESSIONAL LAND SURVEYOR



DocuSigned by:
Toinia Gibbs
SIGNATURE:

5/18/2020
Date:

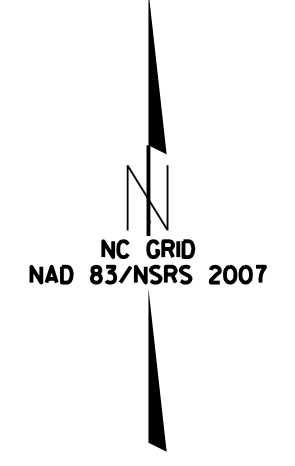


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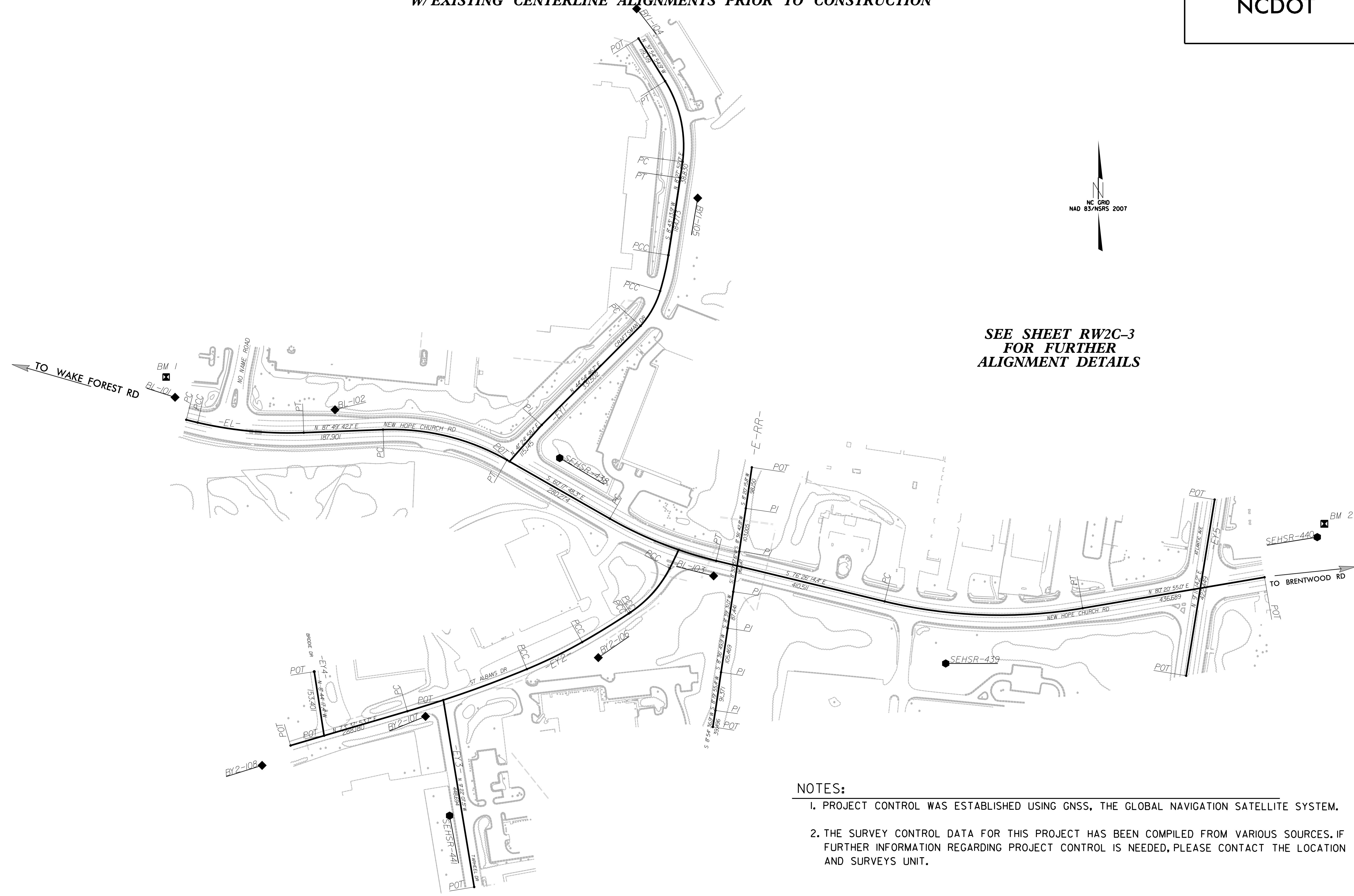
PROJECT REFERENCE NO.	SHEET NO.
P-5715	RW02C-1
Location and Surveys	
NCDOT	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



**SEE SHEET RW2C-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.

REVISIONS

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. P-5715	SHEET NO. RW02C-2
Location and Surveys	
NCDOT	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
101		BL - 101	759397.5338	2115467.9130	330.53
102		BL - 102	759368.0061	2115846.5280	335.19
438		SEHSR - 438	759253.7270	2116378.4990	312.92
103		BL - 103	758974.6201	2116742.7540	299.85
439		SEHSR - 439	758767.2040	2117292.1150	294.38
440		SEHSR - 440	759066.4170	2118171.6230	266.70

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
104		BY1 - 104	760321.9299	2116560.6330	291.02
105		BY1 - 105	759869.3130	2116705.0770	304.97
A438			759253.7270	2116378.4990	312.92

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
A103			758974.6201	2116742.7540	299.85
106		BY2 - 106	758781.0671	2116469.7450	303.09
107		BY2 - 107	758641.8637	2116060.7920	317.11
108		BY2 - 108	758525.8277	2115673.9510	321.76

BY2A	POINT	DESC.	NORTH	EAST	ELEVATION
441		SEHSR - 441	758406.8180	2116117.7490	314.35
A107			758641.8637	2116060.7920	317.11

```

*****
20108      ELEVATION = 329.29
N 759444      E 2115445
4021 BM1 - BENCH TIE NAIL IN 12IN ELM
*****
    
```

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*****
20111      ELEVATION = 266.26
N 759098      E 2118188
4021 BM2 - BENCH TIE NAIL IN 18INTRIPLE-OAK
*****
    
```

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

SYSTEMS DESIGN CONSULTANTS
 11111 RIVERSIDE DRIVE
 SUITE 200
 RICHMOND, VA 23261
 (804) 746-1111
 WWW.SDCON.COM

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
P-5715	RW02C-3
Location and Surveys	
NCDOT	

EL

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	759344.331	2115494.536							
CURVE			S 76°08'23.9" E	27.75	01°39'09.4"(L T)	05°57'21.2"	27.75	13.87	962.00
PCC	759337.684	2115521.475							
CURVE			S 84°34'08.2" E	252.17	15°12'19.2"(L T)	06°00'43.7"	252.91	127.20	953.00
PT	759313.817	2115772.511							
LINE			N 87°49'42.1" E	187.90					
PC	759320.937	2115960.277							
CURVE			S 76°14'03.1" E	302.05	31°52'29.6"(RT)	10°25'02.7"	305.98	157.06	550.00
PT	759249.064	2116253.647							
LINE			S 60°17'48.3" E	280.27					
PC	759110.186	2116497.095							
CURVE			S 68°22'01.3" E	270.67	16°08'26.1"(L T)	05°56'36.8"	271.57	136.69	964.00
PT	759010.401	2116748.698							
LINE			S 76°26'14.4" E	410.51					
PC	758914.133	2117147.761							
CURVE			S 88°02'39.7" E	468.79	23°12'50.6"(L T)	04°55'05.1"	472.01	239.29	1165.00
PT	758898.135	2117616.280							
LINE			N 80°20'55.0" E	436.69					
POT	758971.347	2118046.787							

EY3

POINT	N	E	BEARING	DIST
POT	758237.901	2116176.037		
LINE			N 09°22'07.5" W	448.69
POT	758680.610	2116102.996		

EY4

POINT	N	E	BEARING	DIST
POT	758596.241	2115820.733		
LINE			N 08°44'17.4" W	153.40
POT	758747.862	2115797.429		

EY1

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	759245.638	2116259.661							
LINE			N 41°24'58.1" E	115.15					
POT	759331.988	2116335.832							
LINE			N 44°54'46.7" E	331.50					
PC	759566.751	2116569.883							
CURVE			N 29°16'14.1" E	94.75	24°52'17.2"(L T)	26°02'36.7"	95.50	48.51	220.00
PCC	759649.405	2116616.210							
CURVE			N 12°56'22.5" E	86.95	07°47'26.1"(L T)	08°57'08.9"	87.02	43.58	640.00
PCC	759734.151	2116635.682							
CURVE			N 08°43'13.9" E	184.77	00°38'51.0"(L T)	00°21'01.6"	184.77	92.39	16350.00
PT	759916.788	2116663.696							
LINE			S 08°43'13.9" W	184.77					
PC	759734.151	2116635.682							
CURVE			N 08°43'13.9" E	184.77	00°38'51.0"(L T)	00°21'01.6"	184.77	92.39	16350.00
PT	759916.788	2116663.696							
LINE			N 08°27'52.0" E	38.83					
PC	759955.196	2116669.412							
CURVE			N 12°14'13.8" W	195.31	39°21'22.2"(L T)	19°45'25.8"	199.20	103.71	290.00
PT	760146.064	2116628.015							
LINE			N 31°54'54.9" W	119.32					
POT	760247.346	2116564.935							

EY5

POINT	N	E	BEARING	DIST
POT	758738.250	2117861.294		
LINE			N 09°11'14.2" E	422.45
POT	759155.280	2117928.743		

EY2

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	758572.925	2115741.352							
LINE			N 73°37'53.7" E	288.18					
PC	758654.138	2116017.852							
CURVE			N 70°35'40.4" E	299.87	06°04'26.5"(L T)	02°01'28.5"	300.01	150.15	2830.00
PCC	758753.771	2116300.689							
CURVE			N 63°55'14.7" E	145.89	07°16'25.0"(L T)	04°58'56.1"	145.99	73.09	1150.00
PCC	758817.907	2116431.727							
CURVE			N 58°25'17.8" E	129.34	03°43'28.9"(L T)	02°52'45.1"	129.37	64.71	1990.00
PCC	758885.640	2116541.918							
CURVE			N 56°20'46.8" E	4.91	00°25'33.1"(L T)	08°40'52.2"	4.91	2.45	660.00
PCC	758888.358	2116546.002							
CURVE			N 41°41'22.7" E	139.68	28°53'15.0"(L T)	20°27'46.0"	141.17	72.12	280.00
PCC	758992.666	2116638.902							
CURVE			N 25°42'05.7" E	48.51	03°05'19.1"(L T)	06°21'58.3"	48.52	24.26	900.00
PT	759036.377	2116659.941							

E-RR

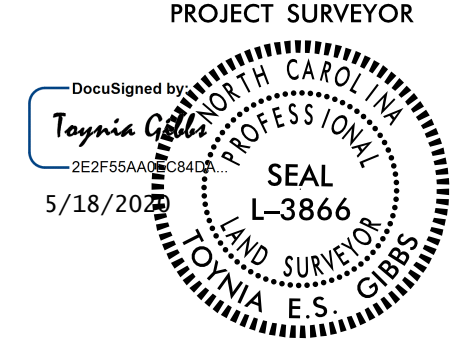
POINT	N	E	BEARING	DIST
POT	759231.654	2116833.247		
LINE			S 08°20'15.8" W	98.15
POT	759134.541	2116819.015		
LINE			S 08°36'42.8" W	103.00
POT	759032.698	2116803.590		
LINE			S 08°30'57.6" W	96.65
POT	758937.116	2116789.279		
LINE			S 08°39'31.0" W	87.44
POT	758850.672	2116776.115		
LINE			S 08°36'49.9" W	105.47
POT	758746.393	2116760.318		
LINE			S 08°19'55.4" W	91.37
POT	758655.987	2116747.078		
LINE			S 08°54'36.9" W	39.50
POT	758616.967	2116740.960		

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

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
P5715	RW03E-1
Location and Surveys	
ESP ASSOCIATES, INC. 2200 GATEWAY CENTRE BLVD. SUITE 216 MORRISVILLE, NC 27560	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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

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

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

5/18/2020

Witness my original signature, registration number and seal this

DocuSigned by:

 Toyia Gibbs
 Professional Land Surveyor

L-3866
 PLS

Seal

REVISIONS

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	10+66.83	-50.21	759366.5188	2115837.3880
L	11+10.00	41.86	759276.1551	2115884.0184
L	11+10.00	48.50	759269.5198	2115884.2700
L	11+87.34	-48.50	759369.3808	2115957.8792
L	11+87.34	48.50	759272.4505	2115961.5548
L	14+50.00	-48.50	759312.8909	2116235.2993
L	14+90.18	48.50	759208.3272	2116226.5637
L	14+90.18	56.50	759201.3559	2116222.6394
L	15+95.00	-70.00	759260.1702	2116376.0380
L	17+50.00	-70.00	759184.1366	2116511.1079
L	17+87.96	56.50	759055.2800	2116482.1357
L	18+50.00	-60.00	759129.8221	2116590.9302
L	18+70.00	56.50	759015.9186	2116559.3799
L	20+24.82	-60.00	759071.7755	2116744.3295
L	20+49.45	-60.00	759065.1236	2116768.0452
L	20+73.80	135.87	758869.9611	2116738.5908
L	22+21.54	48.50	758914.1829	2116904.4307
L	24+15.48	48.50	758861.8051	2117091.1728
L	26+45.00	48.50	758823.8584	2117328.2755
L	26+45.00	56.00	758816.3657	2117327.9461
L	26+75.00	56.00	758815.4490	2117359.6116
L	26+75.00	48.50	758822.9483	2117359.7162
L	27+51.73	-48.50	758921.7218	2117434.0406
L	28+57.39	-48.50	758933.3139	2117533.8530
L	28+57.39	48.50	758837.6869	2117550.1154
L	29+65.00	60.00	758844.3912	2117658.1323
L	29+93.95	-48.50	758956.2091	2117668.4827
L	30+95.00	60.00	758866.1861	2117786.2923

(PAINT MARK)

(SCRIBED "X" IN CONCRETE)

(MAG NAIL)

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
DRWY1	11+42.19	100.56	759095.0220	2117194.2849
DRWY1	12+90.86	51.23	759167.1791	2117092.6117

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+74.82	61.39	759260.1702	2116376.0380
Y1	10+80.00	-49.28	759326.1484	2116287.0417
Y1	11+10.00	34.00	759303.3042	2116372.6307
Y1	11+84.47	-34.00	759403.7950	2116364.7264
Y1	12+69.83	-34.00	759468.8797	2116424.2981
Y1	12+69.83	34.00	759420.8695	2116472.4543
Y1	13+50.00	-29.94	759522.7894	2116483.7792
Y1	13+50.00	30.49	759480.1252	2116526.5797
Y1	13+50.00	34.00	759477.6466	2116529.0593
Y1	13+50.00	-34.00	759525.6568	2116480.9030

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	19+25.00	-43.88	758946.0432	2116558.2924
Y2	19+65.00	53.20	758920.6701	2116660.2024
Y2	19+69.00	-50.00	758979.5337	2116575.3449

ROW MARKER IRON PIN AND CAP-E

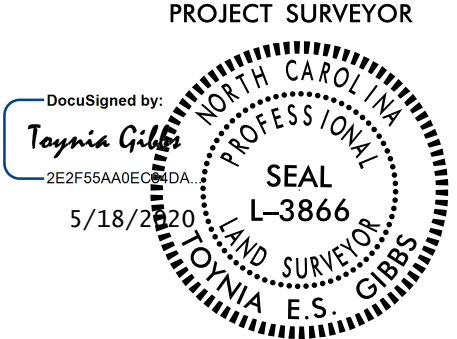
ALIGN	STATION	OFFSET	NORTH	EAST
Y3	10+85.00	-41.91	758828.8512	2117833.4917

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.

18-MAY-2020 08:48
 S:\Projects\2020\RS2\HM01124 P5715.con.esp4
 R-W Resteke\Submit\05-15-20 Project Submittal\PE715.Rdw_row.dgn
 Turner AT ESPRS202019

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
P5715	RW03E-2
Location and Surveys	
ESP ASSOCIATES, INC. 2200 GATEWAY CENTRE BLVD. SUITE 216 MORRISVILLE, NC 27560	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	


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

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

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

5/18/2020

Witness my original signature, registration number and seal this

DocuSigned by:

 Topynia Gibbs
 Professional Land Surveyor L-3866 PLS Seal

REVISIONS

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
L	11+00.00	-75.00	759392.5522	2115869.5974
L	13+50.00	-85.00	759385.3190	2116142.4801
L	14+90.18	81.50	759179.5704	2116210.3759
L	17+00.00	-102.00	759236.5489	2116483.2342
L	17+78.00	-97.00	759193.9298	2116548.7522
L	17+90.00	81.50	759032.4127	2116471.7941
L	18+55.00	95.00	758987.8846	2116528.4444
L	18+57.00	-103.00	759165.8323	2116615.2922
L	19+30.00	-160.00	759193.1593	2116695.9355
L	19+30.00	-135.00	759169.8442	2116686.9130
L	19+72.00	-134.00	759156.5275	2116720.6875
L	19+77.00	-109.00	759131.4330	2116716.8794
L	20+35.50	-171.36	759176.1108	2116784.6795
L	22+39.90	199.00	758764.3187	2116881.4693
L	24+85.00	48.50	758844.5752	2117161.9798
L	24+85.00	162.00	758733.4273	2117138.9929
L	25+77.00	158.00	758720.5940	2117244.9759
L	25+77.00	173.00	758705.6878	2117243.3003
L	25+90.00	-98.00	758973.7577	2117285.2333
L	26+13.00	175.00	758699.7328	2117285.1881
L	26+15.00	100.00	758774.3519	2117293.0719
L	26+22.00	-94.00	758967.3755	2117313.7293
L	26+22.00	-88.00	758961.3890	2117313.3280
L	28+35.00	82.00	758800.8675	2117531.8074
L	28+35.00	90.00	758792.9527	2117532.9717
L	28+57.39	-68.50	758953.0309	2117530.5000
L	29+98.78	-63.12	758971.4301	2117670.7926
L	30+00.56	-68.50	758977.0341	2117671.6457
L	31+22.02	90.00	758841.1401	2117817.9559

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
DRWY1	11+08.55	64.77	759025.8610	2117180.0487

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	11+18.00	-42.35	759354.6645	2116315.5719
Y1	11+45.00	95.00	759293.0358	2116441.0878
Y1	13+00.00	55.00	759427.4110	2116508.6294
Y1	13+50.00	50.00	759466.3501	2116540.3901

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	11+18.63	-55.00	758659.1279	2115839.6747
Y2	13+56.15	-55.00	758726.4577	2116066.0680
Y2	13+74.00	-39.36	758716.9797	2116087.5817
Y2	14+12.00	-39.36	758728.8637	2116123.1184
Y2	14+12.00	-68.00	758755.9629	2116113.8533
Y2	14+35.00	-54.00	758750.1012	2116139.7005
Y2	14+35.00	-65.00	758760.4804	2116136.0574
Y2	16+13.00	40.48	758726.0609	2116339.3574
Y2	16+54.00	-55.00	758829.9306	2116339.0413
Y2	17+48.00	110.00	758719.7781	2116494.2562
Y2	17+52.00	95.00	758735.0908	2116491.4812
Y2	17+66.00	116.00	758722.5436	2116513.7174
Y2	17+71.00	101.00	758738.2983	2116511.7826
Y2	18+45.00	-61.00	758914.7995	2116497.9245
Y2	19+06.00	184.00	758775.2849	2116710.8253
Y2	19+10.55	194.99	758773.0514	2116723.9000
Y2	19+11.00	178.00	758785.2260	2116712.0243

NOTES:

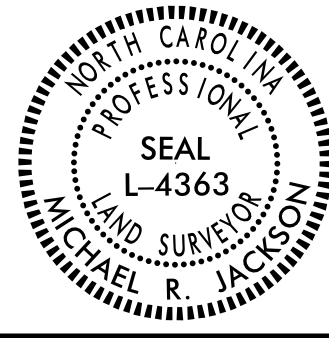
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

18 MAY 2020 08:58
 S:\Projects\2020\RS2\HM01124 P5715.con.esp4 R-W Resteke\Location\P5715.Rdy_row_permesease.dgn
 Turner

4/15/24

REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. P-5715	SHEET NO. RW03E-1A
Location and Surveys	
LOCATION & SURVEYS DIVISION 5 3301 JONES SAUSAGE RD. GARNER, NC 27529 984-920-8940	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Michael R. Jackson, 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 April 25th 2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8th day of May, 2024.

DocuSigned by:
Michael Jackson
1AB78710751467

Professional Land Surveyor L-4363

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	20+18.15	-60.00	759073.4888	2116738.2992
L	20+18.76	-55.28	759068.7919	2116737.5520
L	21+02.80	-218.76	759203.5774	2116862.2802
L	21+56.35	209.45	758776.8226	2116798.1987

PERMANENT EASEMENT MARKER - IRON PIN AND CAP UNLESS OTHERWISE NOTED. Y2

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	13+53.34	-39.36	758710.7179	2116068.1910

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 ON APRIL 25TH 2024.

I, TONYA E.S. GIBBS, 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) Base map Compilation, R/W Staking performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

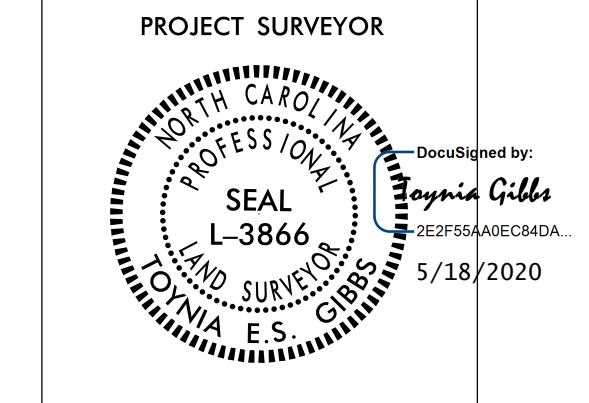
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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

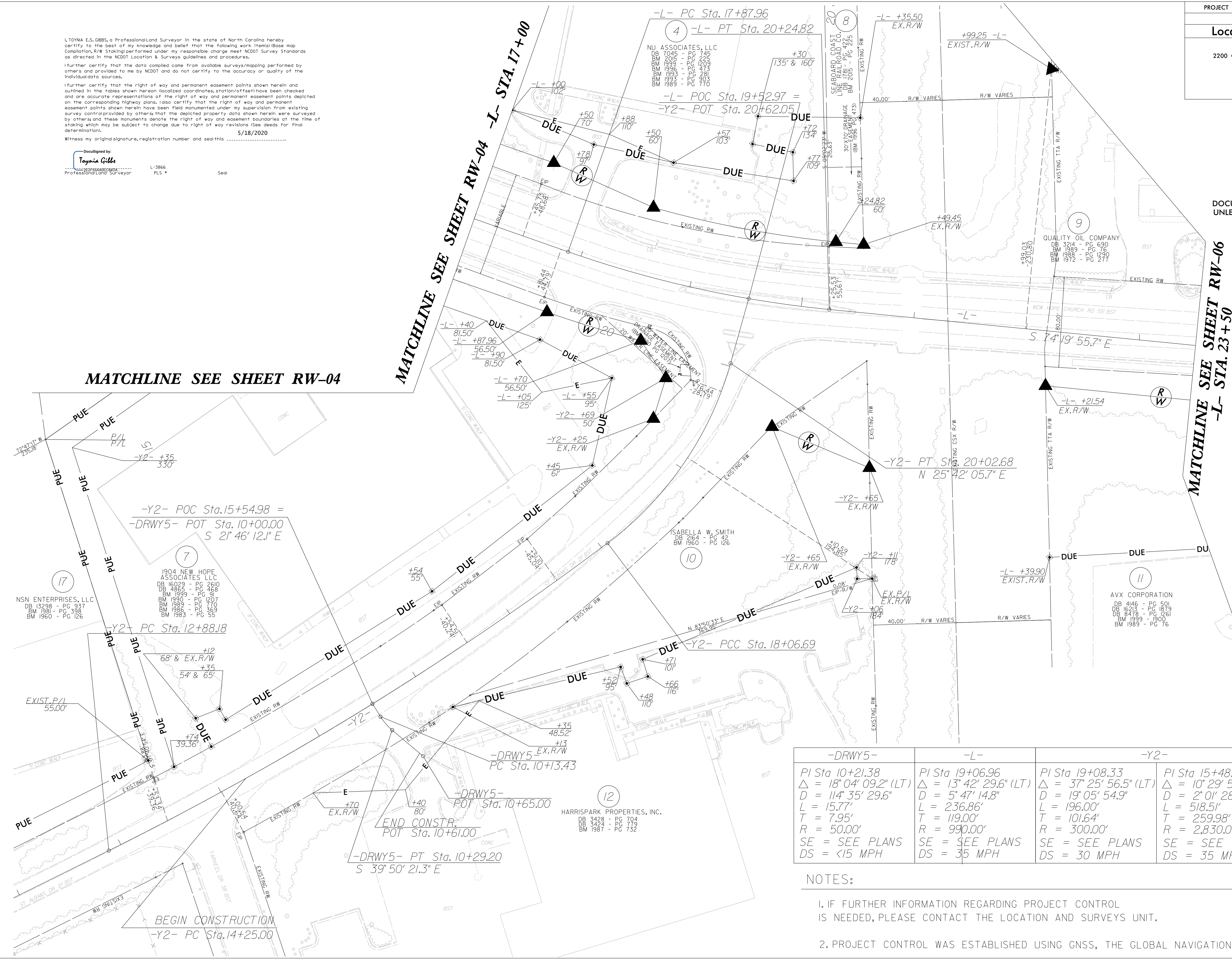
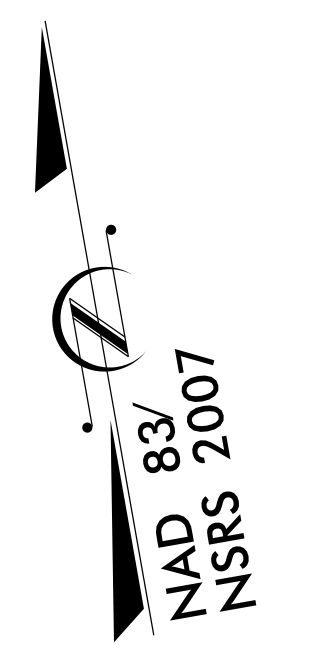
5/18/2020
Witness my original signature, registration number and seal this

DocuSigned by:
Tonya Gibbs
Professional Land Surveyor
L-3866
PLS *
Seal

PROJECT REFERENCE NO.	SHEET NO.
P5715	RW-05
Location and Surveys	
ESP ASSOCIATES, INC 2200 GATEWAY CENTRE BLVD, SUITE 216 MORRISVILLE, NC 27560	



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



-DRWY5-	-L-	-Y2-	-Y2-
PI Sta 10+21.38	PI Sta 19+06.96	PI Sta 19+08.33	PI Sta 15+48.16
Δ = 18° 04' 09.2" (LT)	Δ = 13° 42' 29.6" (LT)	Δ = 37° 25' 56.5" (LT)	Δ = 10° 29' 51.5" (LT)
D = 114' 35" 29.6"	D = 5' 47" 14.8"	D = 19' 05" 54.9"	D = 2' 01" 28.5"
L = 15.77'	L = 236.86'	L = 196.00'	L = 518.51'
T = 7.95'	T = 119.00'	T = 101.64'	T = 259.98'
R = 50.00'	R = 990.00'	R = 300.00'	R = 2,830.00'
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS
DS = <15 MPH	DS = 35 MPH	DS = 30 MPH	DS = 35 MPH

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

REVISIONS

18-MAY-2020 07:00
 Project: P5715-CON-ESP4
 R-W Restake\Submit\05-15-20 Project Submittal\P5715-1s-RW-05-200515.dgn
 Author: T. Gibbs
 Date: 5/18/2020

4/16/24

Location and Surveys

LOCATION & SURVEYS
DIVISION 5
3301 JONES SAUSAGE RD.
GARNER, NC 27529
984-920-8940

PROJECT SURVEYOR

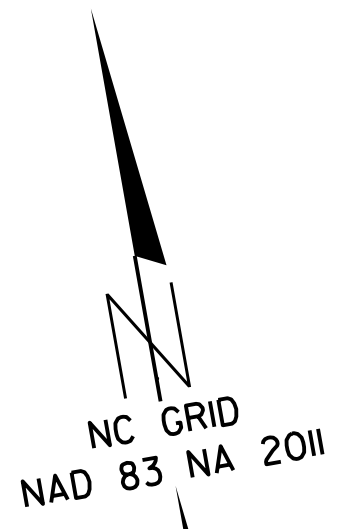
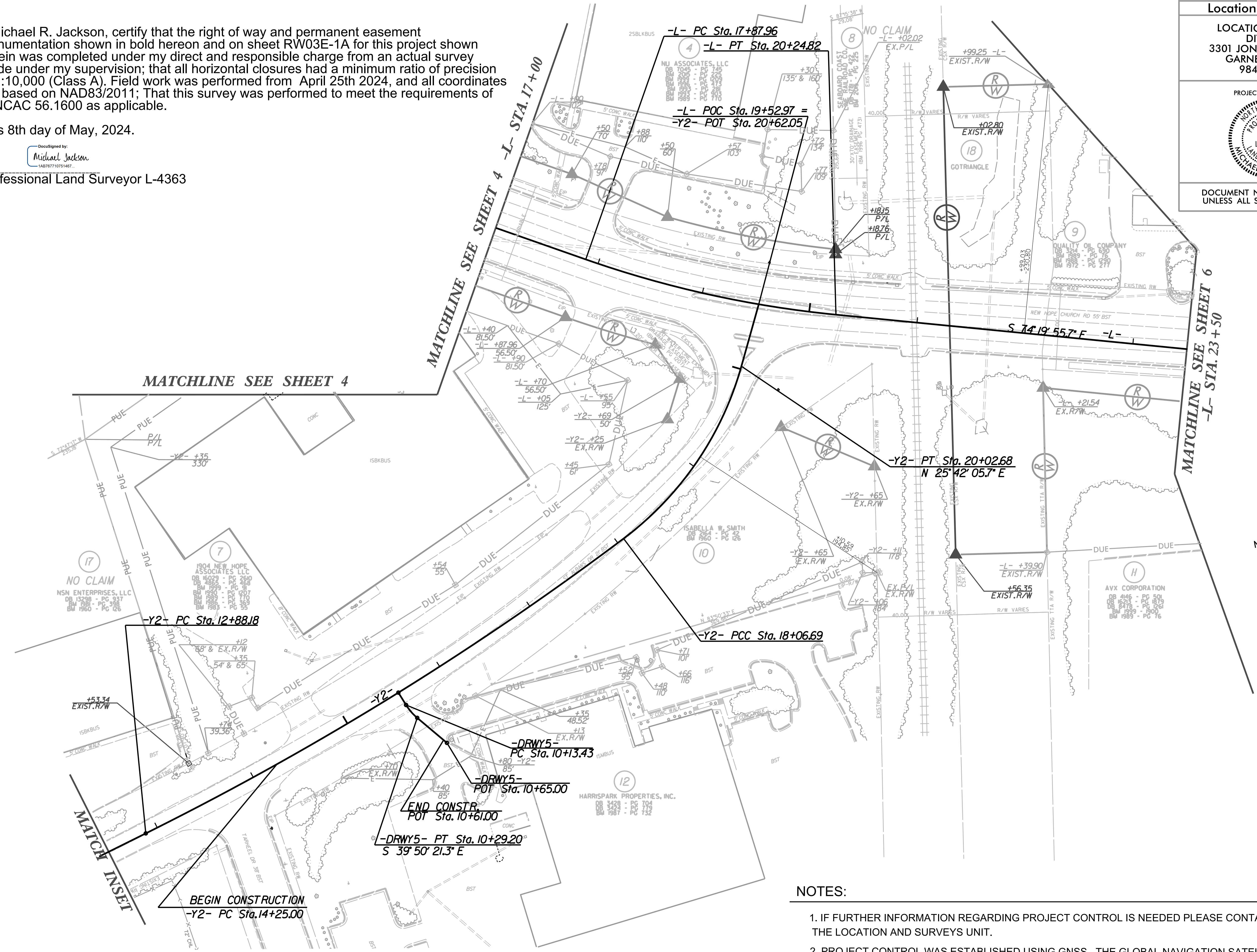
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Michael R. Jackson, certify that the right of way and permanent easement monumentation shown in bold hereon and on sheet RW03E-1A 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 April 25th 2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8th day of May, 2024.

DocuSigned by:
Michael Jackson
1AB76710751467

Professional Land Surveyor L-4363



REVISIONS

NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED ON APRIL 25TH 2024 .

Location and Surveys

ESP ASSOCIATES, INC
2200 GATEWAY CENTRE BLVD
SUITE 216
MORRISVILLE, NC 27560

I, TAYNIA E.S. GIBBS, 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.

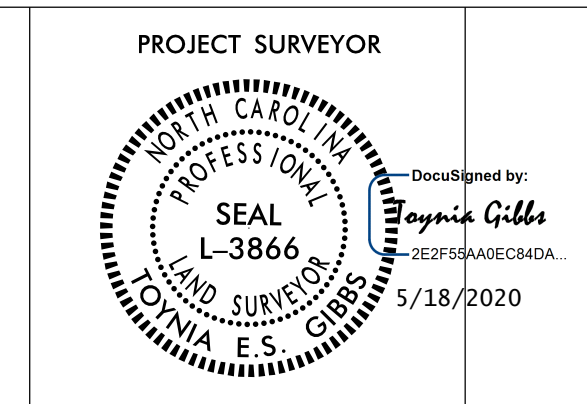
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway 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 of the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

5/18/2020

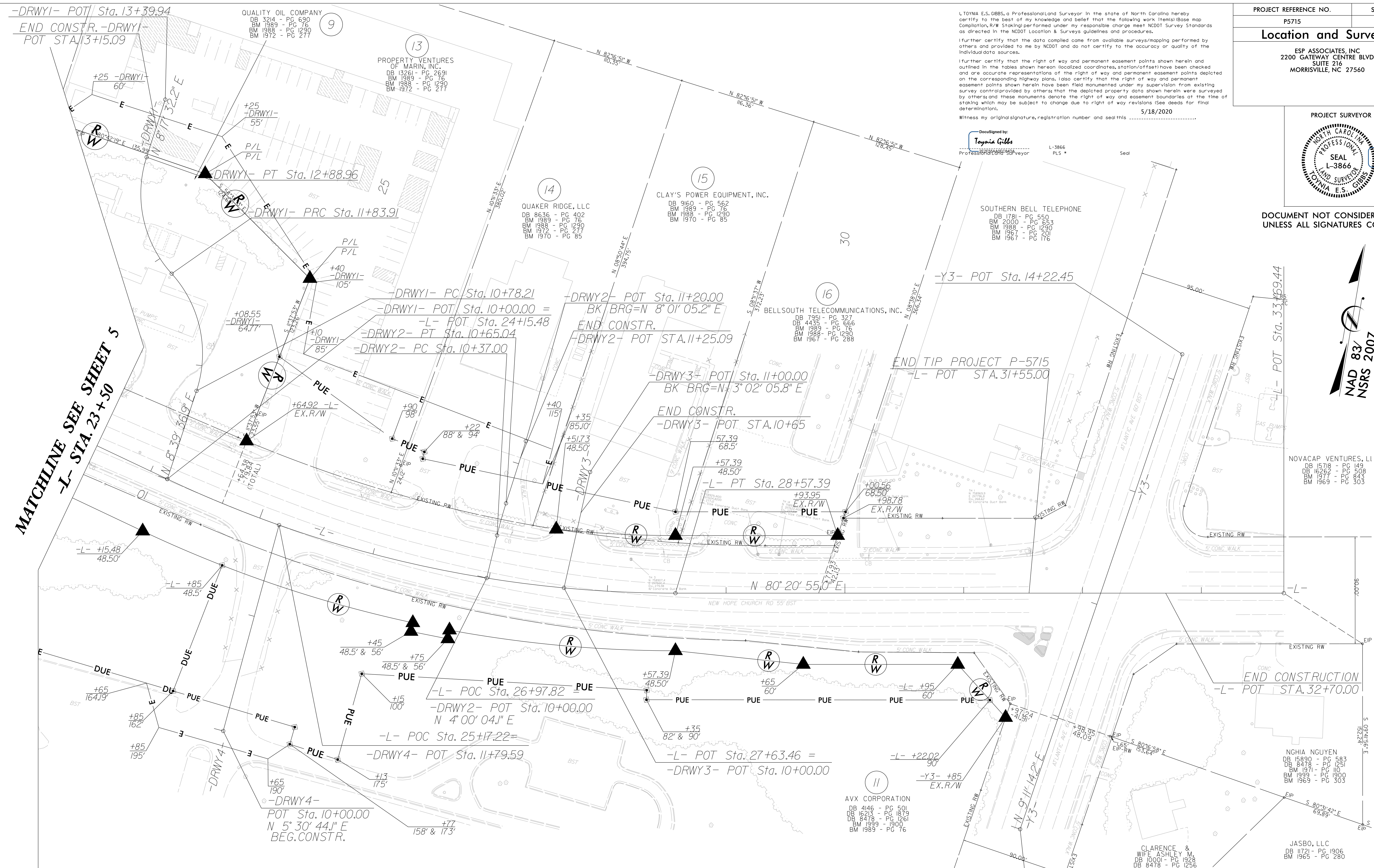
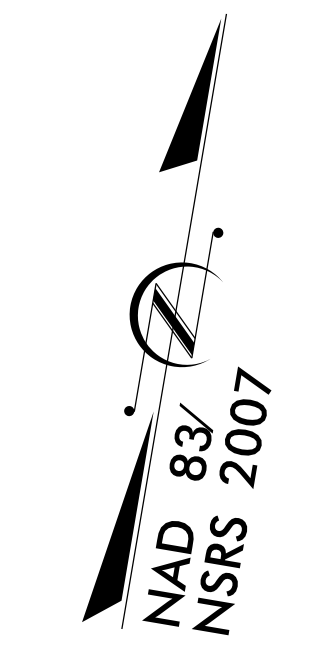
Witness my original signature, registration number and seal this

DocuSigned by:
Taynia Gibbs
Professional Land Surveyor

L-3866
PLS



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



MATCHLINE SEE SHEET 5
-L- STA. 23 + 50

-L-
PI Sta 26+40.10
$\Delta = 25^{\circ}19'09.3''$ (LT)
D = 5' 43' 46.5"
L = 441.90'
T = 224.62'
R = 1,000.00'
SE = SEE PLANS
DS = 35 MPH

-DRWY1-
PI Sta 12+41.86
$\Delta = 60^{\circ}11'24.8''$ (RT)
D = 57' 17' 44.8"
L = 105.05'
T = 57.96'
R = 100.00'
SE = SEE PLANS
DS = <15 MPH

-DRWY2-
PI Sta 11+36.60
$\Delta = 60^{\circ}33'29.5''$ (LT)
D = 57' 17' 44.8"
L = 105.69'
T = 58.39'
R = 100.00'
SE = SEE PLANS
DS = <15 MPH

-DRWY3-
PI Sta 10+51.03
$\Delta = 4^{\circ}01'01.1''$ (RT)
D = 14' 19' 26.2"
L = 28.04'
T = 14.03'
R = 400.00'
SE = SEE PLANS
DS = <15 MPH

REVISIONS

15 MAY 2020 14:08
S:\MAY-2020\2020\RS2\HM01124_P5715.con.esp4 R-W Restake\Location\P5715.ls.rw-06-200515.dgn
corner AT ESPRS202019