

09/06/19

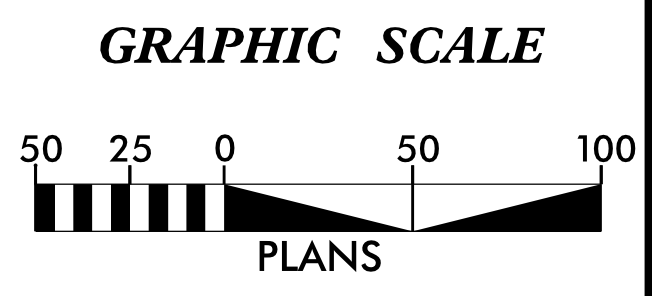
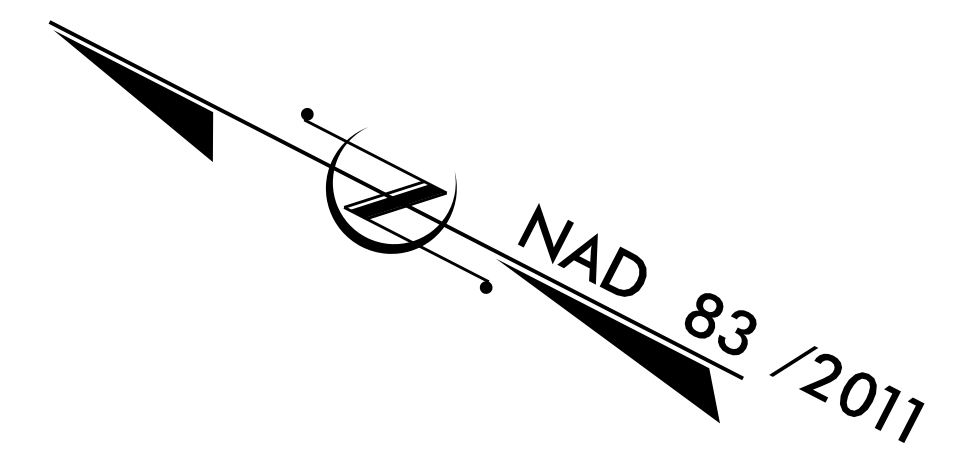
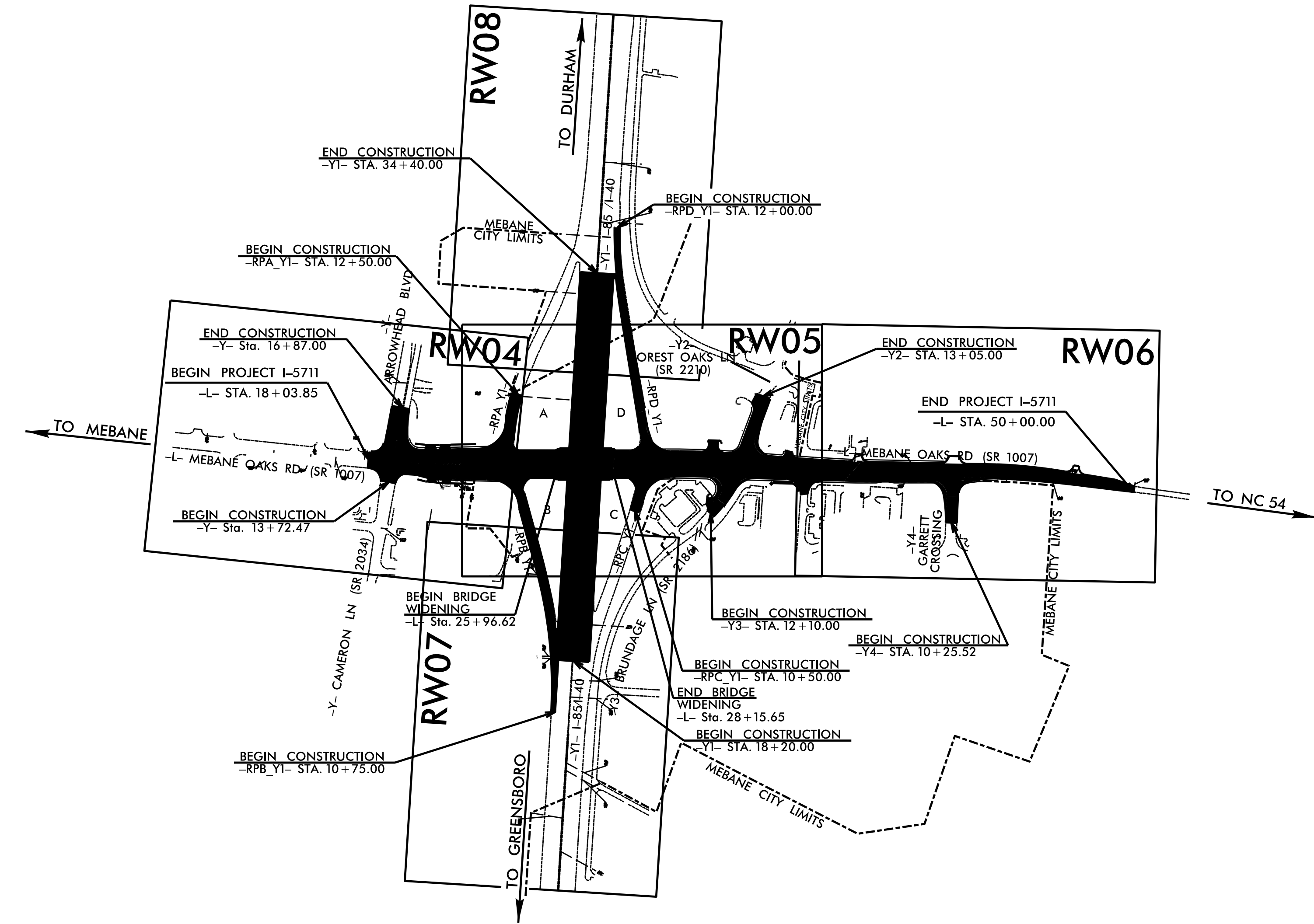
TIP PROJECT: I-5711

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-5711	RW01	

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

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

ALAMANCE COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "I5711-2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 844997.878(ft) EASTING: 1919627.354(ft) ELEVATION: 669.17(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99994760 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "I5711-2" TO -L- STATION 18+03.85 IS N 23°45'29.7" W 785.73(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

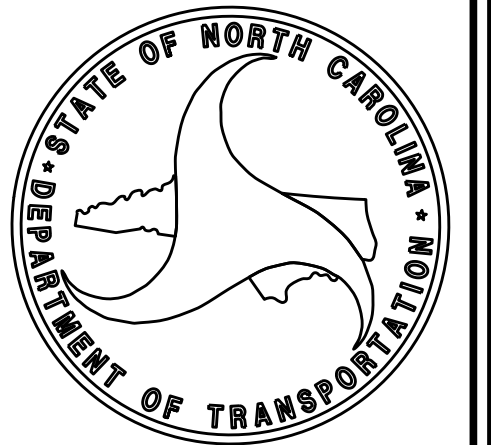
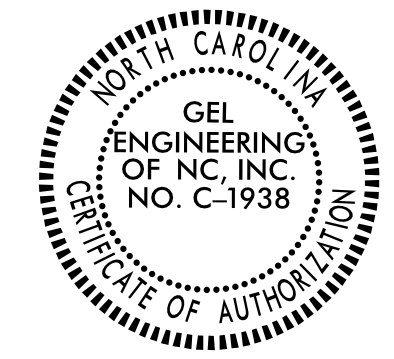
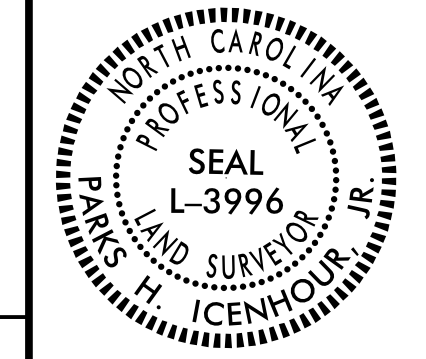
GEL SOLUTIONS

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 SEPT. 28, 2018

LETTING DATE:
 MARCH 17, 2020

PROFESSIONAL LAND SURVEYOR



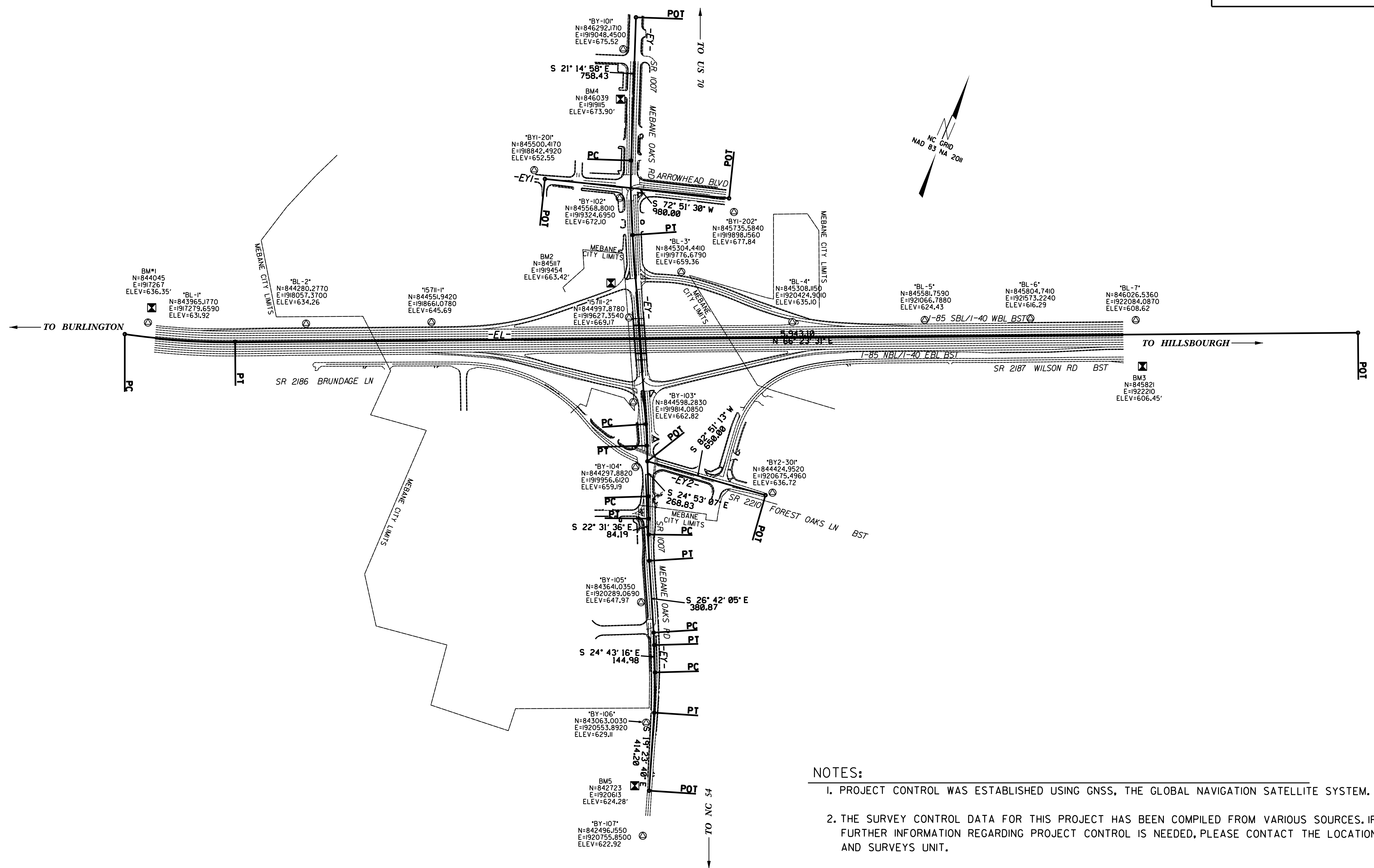
SIGNATURE: _____ Date: _____

\$\$\$\$\$ SYSTEM\$\$\$\$\$ DDN\$\$\$\$\$ SERNAME\$\$\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
I-5711	RW02C-1
Location and Surveys	

I-5711 SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



REVISIONS

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

PROJECT REFERENCE NO.	SHEET NO.
I-5711	RW02C-2
Location and Surveys	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
BL 1		15711 BL - 1	843965.1770	1917279.6590	631.92
BL 2		15711 BL - 2	844280.2770	1918057.3700	634.26
101			844120.4850	1920037.9600	UNKNOWN
102			844201.9815	1920225.2251	UNKNOWN
BL 3		15711 BL - 3	845304.4410	1919776.6790	659.36
BL 4		15711 BL - 4	845308.1150	1920424.9010	635.10
BL 5		15711 BL - 5	845581.7590	1921066.7880	624.43
BL 6		15711 BL - 6	845804.7410	1921573.2240	616.29
BL 7		15711 BL - 7	846026.5360	1922084.0870	608.62

BY	POINT	DESC.	NORTH	EAST	ELEVATION
BY101		15711 BY - 101	846292.1710	1919048.4500	675.52
BY102		15711 BY - 102	845568.8010	1919324.6950	672.10
1002			844997.8780	1919627.3540	669.17
BY103		15711 BY - 103	844598.2830	1919814.0850	662.82
BY104		15711 BY - 104	844297.8820	1919956.6120	659.19
BY105		15711 BY - 105	843641.0350	1920289.0690	647.97
BY106		15711 BY - 106	843063.0030	1920553.8920	629.11
BY107		15711 BY - 107	842496.1550	1920755.8500	622.92

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
BY202		15711 BY1 - 202	845735.5840	1919898.1560	677.84
10002			845568.8010	1919324.6950	672.10
BY201		15711 BY1 - 201	845500.4170	1918842.4920	652.55

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
BY301		15711 BY2 - 301	844424.9520	1920675.4960	636.72
1004		15711 BY - 104	844297.8820	1919956.6120	659.19

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.....
BM1      ELEVATION = 636.35
N 844045      E 1917267
BENCH TIE IN 24' SWEET GUM
.....
BM2      ELEVATION = 663.42
N 845117      E 1919455
BENCH TIE IN 18' OAK
.....
BM3      ELEVATION = 606.45
N 845821      E 1922211
BENCH TIE IN 12' POPULAR
.....
BM4      ELEVATION = 673.90
N 846039      E 1919115
BOLT ON AUTOZONE SIGN
.....
BM5      ELEVATION = 624.28
N 842723      E 1920613
BENCH TIE IN A 12' PINE TREE
.....
    
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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.

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. I-5711	SHEET NO. RW02C-3
Location and Surveys	

6/2/99

REVISIONS

EL

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	843902.425	1913507.455							
LINE			S 86°15'08.4" E	2462.19					
PC	843741.490	1915964.381							
CURVE			N 80°04'11.5" E	1806.44	27°21'20.3(LT)	01°30'00.0"	1823.71	929.58	3819.72
PT	844053.005	1917743.756							
LINE			N 66°23'31.3" E	5943.10					
POT	846433.077	1923189.461							

EY

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	846466.116	1919019.211							
LINE			S 21°14'58.1" E	758.43					
PC	845759.249	1919294.089							
CURVE			S 24°12'32.5" E	394.43	05°55'08.8(LT)	01°30'00.0"	394.61	197.48	3819.72
PT	845399.505	1919455.832							
LINE			S 27°10'06.8" E	1003.56					
PC	844506.674	1919914.066							
CURVE			S 26°01'37.2" E	114.15	02°16'59.4(RT)	02°00'00.0"	114.16	57.09	2864.79
PT	844404.100	1919964.155							
LINE			S 24°53'07.5" E	268.83					
PC	844160.235	1920077.278							
CURVE			S 23°42'21.6" E	117.93	02°21'31.8(RT)	02°00'00.0"	117.94	58.98	2864.79
PT	844052.253	1920124.692							
LINE			S 22°31'35.7" E	84.19					
PC	843974.483	1920156.948							
CURVE			S 24°36'50.2" E	139.13	04°10'29.0(LT)	03°00'00.0"	139.16	69.61	1909.86
PT	843847.998	1920214.894							
LINE			S 26°42'04.7" E	380.87					
PC	843507.747	1920386.033							
CURVE			S 25°42'40.3" E	66.00	01°58'48.7(RT)	03°00'00.0"	66.01	33.01	1909.86
PT	843448.278	1920414.667							
LINE			S 24°43'16.0" E	144.98					
PC	843316.583	1920475.299							
CURVE			S 22°03'27.8" E	212.99	05°19'36.3(RT)	02°30'00.0"	213.07	106.61	2291.83
PT	843119.179	1920555.287							
LINE			S 19°23'39.7" E	414.20					
POT	842728.482	1920692.830							

EY1

POINT	N	E	BEARING	DIST
POT	845778.842	1919849.043		
LINE			S 72°51'30.1" W	980.00
POT	845490.002	1918912.576		

EY2


POINT	N	E	BEARING	DIST
POT	844409.499	1920644.112		
LINE			S 82°51'12.7" W	650.00
POT	844328.635	1919999.161		

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PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. 15711	SHEET NO. RWD2-1
Location and Surveys	
	

L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	846466.1159	1919019.2112
PC	17+58.42	845759.2622	1919294.0840
PT	21+53.05	845399.4926	1919455.8390
PC	31+56.45	844506.8004	1919914.0016
PT	33+12.70	844365.9161	1919981.5289
PC	37+89.52	843930.4912	1920175.8410
PT	38+58.08	843868.3984	1920204.8976
PC	44+22.41	843361.6394	1920453.2203
PT	46+91.82	843113.3257	1920557.3474
POT	50+00.00	842822.6374	1920659.6827

RPA_Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	845309.1913	1920087.4119
PC	10+69.90	845307.7418	1920017.5271
PT	14+78.52	845217.1879	1919621.9723
POT	15+43.15	845190.2846	1919563.2123

RPB_Y1			
TYPE	STATION	NORTH	EAST
TS	10+00.00	844515.2141	1918663.9735
SC	12+10.00	844602.9267	1918854.7453
CS	16+10.83	844821.1995	1919189.9983
ST	18+20.83	844960.1701	1919347.3976
POT	21+28.91	845168.4057	1919574.4413

Y			
TYPE	STATION	NORTH	EAST
POT	10+00.00	845490.0021	1918912.5758
POT	19+80.00	845778.8424	1919849.0432

RPC_Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	844628.8969	1919579.2698
POT	12+51.70	844678.0180	1919826.1264

Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	844253.2432	1918201.9096
POT	40+00.00	845454.6727	1920950.8306

RPD_Y1			
TYPE	STATION	NORTH	EAST
TS	10+00.00	845330.1713	1920825.7758
SC	12+10.00	845242.3997	1920635.0323
CS	14+06.73	845144.0541	1920464.7621
ST	16+16.73	845022.6908	1920293.4206
POT	21+97.38	844678.0180	1919826.1264

Y2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	844328.5165	1919998.2188
POT	14+00.00	844378.2791	1920395.1113

Y3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	844422.9009	1919570.4274
PC	10+53.82	844399.3149	1919618.8059
PT	13+52.81	844321.6485	1919905.6870
POT	14+52.01	844314.2000	1920004.6076

Y4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	843426.3758	1920165.4352
POT	12+30.00	843522.8426	1920374.2273

REVISIONS

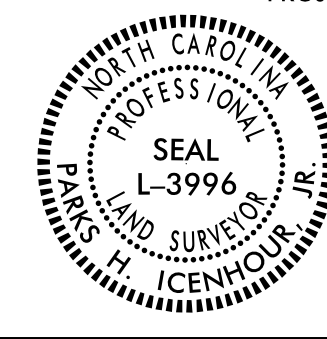
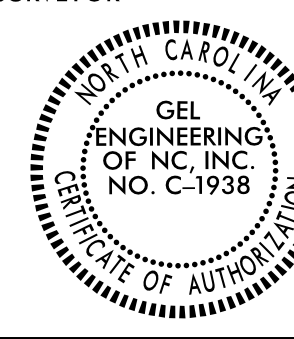
NOTES:

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6/2/09

07-OCT-2019 15:24
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 Andy Smith

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. L-5711	SHEET NO. RW03-1
Location and Surveys	
ENTER CONSULTANT'S NAME IN THIS BOX	
GEL SOLUTIONS	
PROJECT SURVEYOR	
 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, PARKS H ICENHOUR, JR., 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 9th day of October, 2019.

Professional Land Surveyor L-3996
PLS # Seal

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
L	50+00.48	-32.13	842832.8550	1920690.1440
L	50+00.59	-60.00	842842.1058	1920716.4384
L	18+13.50	44.95	845691.1775	1919272.7638
L	19+63.00	64.00	845544.3100	1919314.9783
L	20+20.00	-75.00	845550.8008	1919465.0358
L	20+92.00	75.00	845420.8551	1919361.1329
L	21+50.00	-75.00	845436.4019	1919521.1983
L	21+55.00	75.00	845363.5151	1919390.0033
L	22+67.00	-77.50	845333.5052	1919576.8174
L	22+86.01	75.00	845246.9598	1919449.8232
L	30+75.00	-80.00	844615.7958	1919947.9824
L	30+75.00	80.00	844542.7382	1919805.6357
L	30+90.00	-70.00	844597.8847	1919945.9349
L	30+90.00	65.00	844536.2423	1919825.8298
L	31+56.45	-70.00	844538.7631	1919976.2782
L	31+90.00	65.00	844447.8647	1919870.9731
L	32+10.00	-70.00	844489.7319	1920000.8677
L	33+04.32	-70.00	844402.2799	1920041.9414
L	33+90.59	65.00	844268.3022	1919953.9113
L	34+75.00	-60.00	844242.1599	1920102.4595
L	34+76.48	80.00	844183.7515	1919975.2169
L	34+76.73	62.60	844190.6185	1919991.2072
L	34+82.00	80.00	844178.7145	1919977.4648
L	34+96.00	67.00	844171.2275	1919995.0416
L	35+75.00	65.00	844099.9001	1920029.0622
L	36+00.00	95.00	844064.8446	1920011.8543
L	36+00.00	115.00	844056.6942	1919993.5904
L	36+00.51	-60.00	844127.5411	1920153.6091
L	36+44.21	115.00	844016.3191	1920011.6081
L	36+44.57	90.00	844026.1806	1920034.5837
L	36+75.00	60.00	844010.6182	1920074.3803
L	40+84.87	-60.00	843691.1433	1920358.5728
L	41+45.00	-60.00	843637.1491	1920385.0312
L	41+50.00	45.00	843586.4559	1920292.9431
L	42+10.00	-80.00	843587.5808	1920431.5928
L	42+70.00	100.00	843454.4963	1920296.3578
L	42+75.00	-80.00	843529.2119	1920460.1948
L	43+20.00	50.00	843431.5987	1920363.2584
L	43+30.00	-60.00	843471.0222	1920466.4368
L	44+22.41	50.00	843339.6363	1920408.3220
L	44+22.41	-60.00	843388.0412	1920507.0993
L	44+65.47	50.00	843301.6376	1920426.5030
L	44+65.61	28.91	843310.4400	1920445.6660
L	47+00.17	-60.00	843125.3790	1920616.7136

NAIL SET

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y	13+64.50	28.91	845569.8109	1919269.4040
Y	15+80.00	65.18	845598.6662	1919486.0217
Y	13+55.00	-40.00	845632.8561	1919240.0169
Y	12+11.33	-30.25	845581.1940	1919105.6058

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	11+85.00	29.93	844321.8373	1920185.5047
Y2	11+05.00	50.00	844291.9676	1920108.6234

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	12+00.00	-28.20	844374.9332	1919762.8456
Y3	13+05.00	-81.00	844406.9341	1919869.1044
Y3	12+77.00	-56.15	844386.2892	1919840.0405
Y3	12+59.00	-59.49	844392.6020	1919824.2417

MAG NAIL SET

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	11+15.00	-40.00	843510.9209	1920253.0544
Y4	10+15.00	-32.00	843461.7164	1920165.6306
Y4	10+15.00	30.00	843405.4333	1920191.6347

MARK ON ROCK

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
RPA_Y1	14+19.03	66.11	845301.9708	1919652.8756

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
RPC_Y1	11+63.11	72.99	844589.1410	1919753.4840

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
RPD_Y1	21+20.48	-87.74	844653.0584	1919940.0980

PERMANENT EASEMENT REBAR AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
L	18+25.90	-75.24	845725.0858	1919388.7265
L	18+25.98	-65.91	845721.4791	1919380.1203
L	18+31.00	-75.28	845720.4744	1919390.6590
L	18+31.04	-70.08	845718.4681	1919385.8716
L	19+55.93	69.33	845548.6824	1919307.1642
L	19+66.00	64.20	845541.4464	1919316.0489
L	19+66.00	66.00	845540.7059	1919314.4136
L	19+86.00	68.00	845521.3596	1919321.0374
L	19+86.00	65.63	845522.3476	1919323.1892
L	20+11.89	67.64	845497.6022	1919332.4404
L	20+11.89	75.00	845494.4854	1919325.7721
L	23+25.70	129.69	845186.6782	1919419.2851
L	23+26.48	120.29	845190.2798	1919428.0104
L	23+30.68	130.11	845182.0565	1919421.1928
L	23+32.23	111.37	845189.2312	1919438.5748
L	34+87.48	74.91	844175.7820	1919984.3493
L	34+91.15	71.50	844173.8210	1919988.9531
L	34+93.81	82.30	844166.9950	1919980.1759
L	34+97.61	79.05	844164.8499	1919984.6924
L	38+45.00	70.00	843849.7906	1920136.1151
L	38+45.00	51.20	843857.9456	1920153.0496
L	41+60.00	-64.62	843625.7102	1920395.7762
L	41+60.00	-80.00	843632.4799	1920409.5913
L	41+61.71	61.08	843568.8682	1920283.6554
L	42+91.43	-96.00	843521.4981	1920481.7924
L	42+91.43	-74.03	843511.8286	1920462.0595
L	43+12.50	-66.36	843489.5371	1920464.4507
L	43+12.50	-96.00	843502.5780	1920491.0637
L	45+61.47	-60.00	843258.0886	1920565.9766
L	45+86.83	-60.00	843234.0149	1920575.8626
L	45+88.50	-94.00	843245.1485	1920608.0341
L	46+05.00	-81.00	843224.4216	1920602.3111

MARK IN CONCRETE
MARK IN CONCRETE

PERMANENT EASEMENT IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
RPA_Y1	12+40.00	50.51	845339.3942	1919839.0010
RPA_Y1	12+40.00	62.00	845350.6767	1919836.8214
RPA_Y1	12+68.00	66.00	845348.5329	1919806.8396
RPA_Y1	13+12.34	52.73	845324.4387	1919764.3989

PERMANENT EASEMENT IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	12+23.00	-29.85	844385.8768	1920215.7729
Y2	12+23.00	-47.00	844402.8940	1920213.6393
Y2	12+65.00	-60.00	844421.0181	1920253.6957
Y2	12+80.00	-29.87	844392.9876	1920272.3276

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

15-OCT-2019 08:40 L-5711-RW03-1-5711-LS-RW03E.dgn
 C:\5711\REV SHEET AND CONTROL POINT
 G:\D\Smith

Location and Surveys

GEL SOLUTIONS

PROJECT SURVEYOR

SEAL
L-3996
PARKS H. ICENHOUR, JR.
LAND SURVEYOR
STATE OF NORTH CAROLINA

SEAL
L-3996
PARKS H. ICENHOUR, JR.
ENGINEERING
OF NC, INC.
NO. C-1938
STATE OF NORTH CAROLINA

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, PARKS H ICENHOUR, JR., 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.

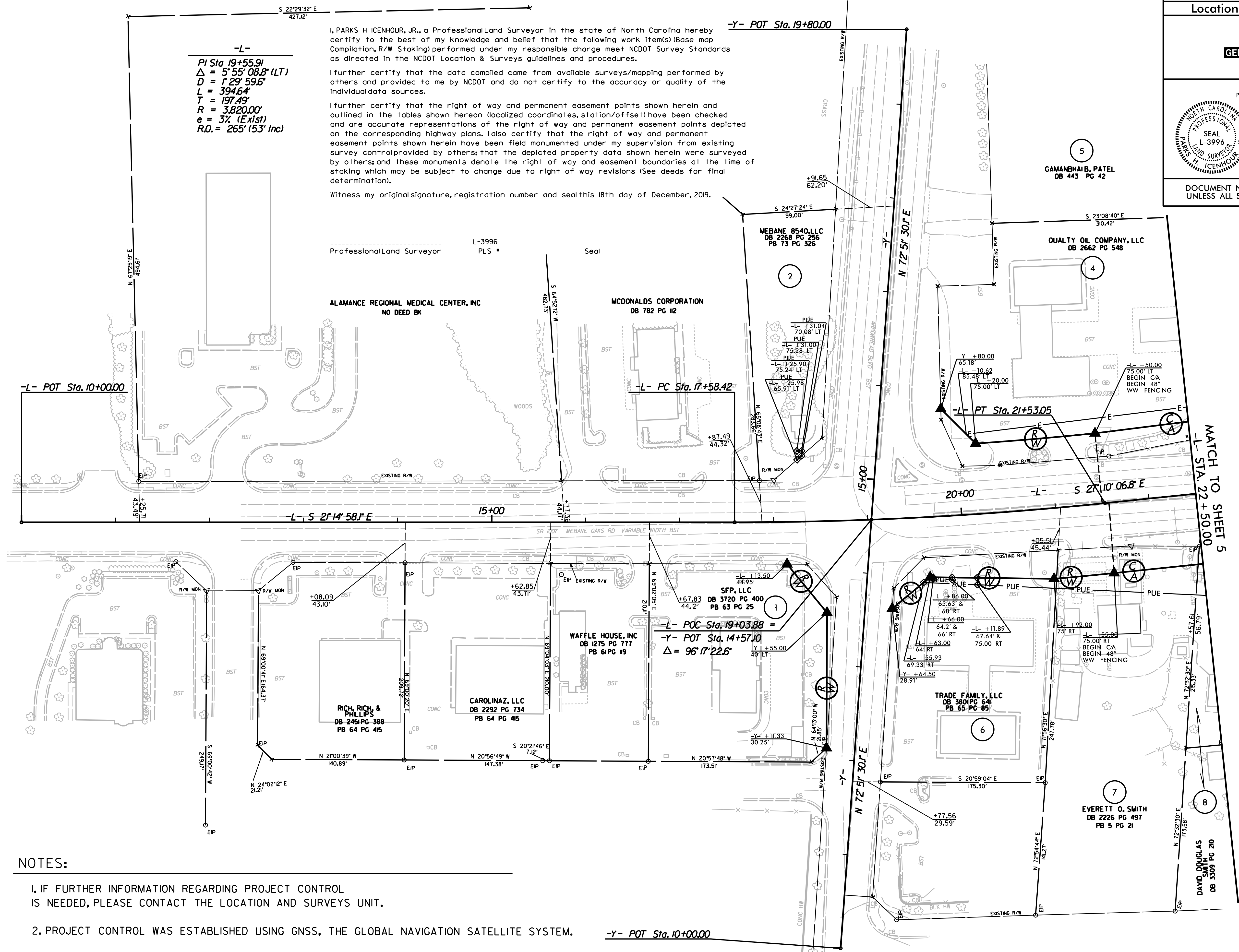
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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. 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 18th day of December, 2019.

-L-
PI Sta 19+55.91
 $\Delta = 5' 55'' 08.8''$ (LT)
 $D = 1' 29'' 59.6''$
 $L = 394.64'$
 $T = 197.49'$
 $R = 3,820.00'$
 $e = 3\frac{1}{2}''$ (Exist)
 $R.O. = 265' (53' Inc)$

L-3996
Professional Land Surveyor
Seal



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

MATCH TO SHEET 5
-L- STA. 22 + 50.00

6/2/19

L:\P\2019\07\25\1-5711-LS-RW04.dgn
L:\P\2019\07\25\1-5711-LS-RW04.dgn
David Douglas Smith

6/2/19

Location and Surveys

GEL SOLUTIONS

PROJECT SURVEYOR

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, PARKS H ICENHOUR, JR., 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 Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

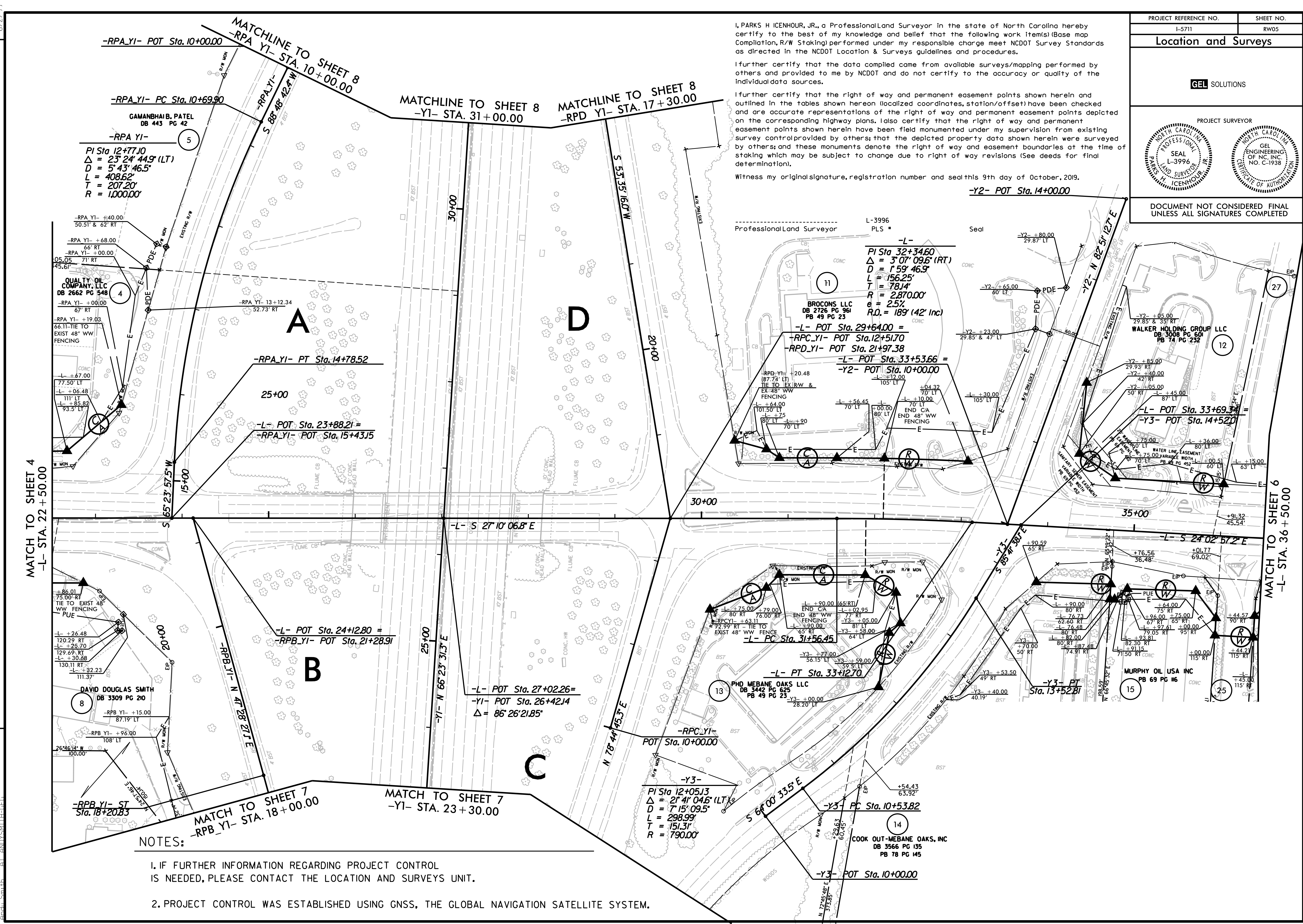
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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 9th day of October, 2019.

Professional Land Surveyor
L-3996
PLS #

-Y2- POT Sta. 14+00.00



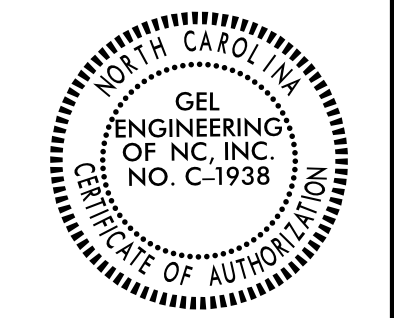
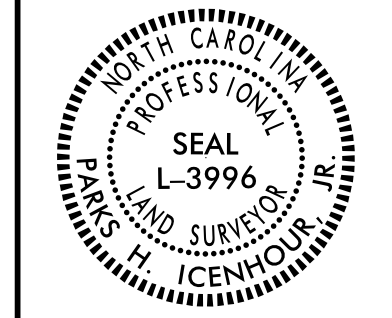
- NOTES:
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 - PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

DB: OCT 2019 16:29 S:\1-5711.LS.RW05.dgn
 CS: 10/11/2019 10:11 AM AND SMITH-HEP

Location and Surveys

GEL SOLUTIONS



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, PARKS H ICENHOUR, JR., 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.

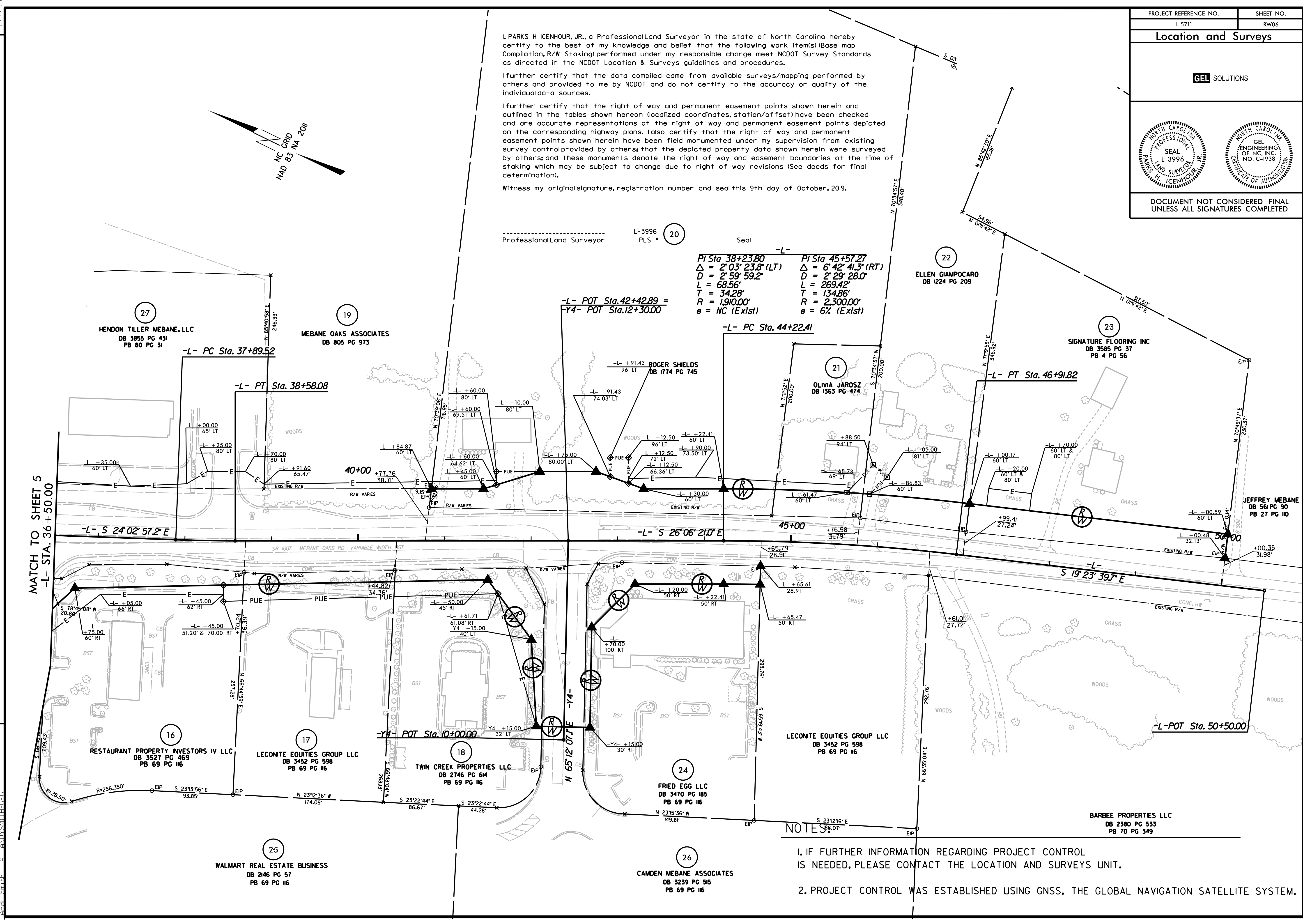
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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).

Witness my original signature, registration number and seal this 9th day of October, 2019.

Professional Land Surveyor L-3996 PLS # 20 Seal

-L- PI Sta 38+23.80 Δ = 2° 03' 23.8" (LT) D = 2° 59' 59.2" L = 68.56' T = 34.28' R = 1910.00' e = NC (Extst)	-L- PI Sta 45+57.27 Δ = 6° 42' 41.3" (RT) D = 2° 29' 28.0" L = 269.42' T = 134.86' R = 2300.00' e = 6% (Extst)
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MATCH TO SHEET 5
-L- STA. 36+50.00

NOTES

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

REVISIONS

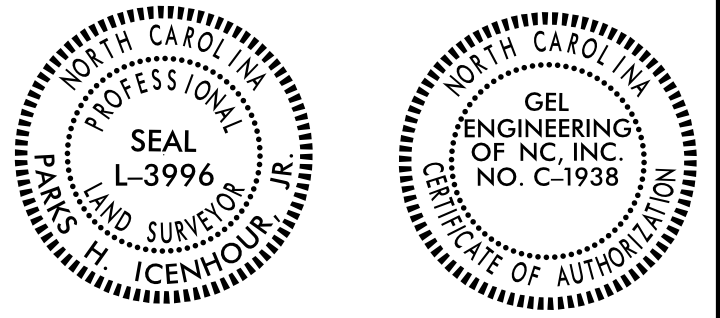
6/2/19

L:\051-2018-09-06-5711-RW-SHEETS\1-5711-LS-RW06.dgn
C:\051-2018-09-06-5711-RW-SHEETS\ANDSMITH-1910.dwg
Gordon Smith

6/2/19

Location and Surveys

GEL SOLUTIONS



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, PARKS H ICENHOUR, JR., 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 9th day of October, 2019.

-RPB YI-		
PIs Sta 11+40.02	PI Sta 14+11.20	PIs Sta 16+80.85
Os = 3'15'06.9"	Δ = 12'24'50.4" (LT)	Os = 3'15'06.9"
Ls = 210.00'	D = 3'05'49.4"	Ls = 210.00'
LT = 140.02'	L = 400.83'	LT = 140.02'
ST = 70.02'	T = 201.20'	ST = 70.02'
	R = 1,850.00'	
	e = 0.07	
	V = 60 MPH	

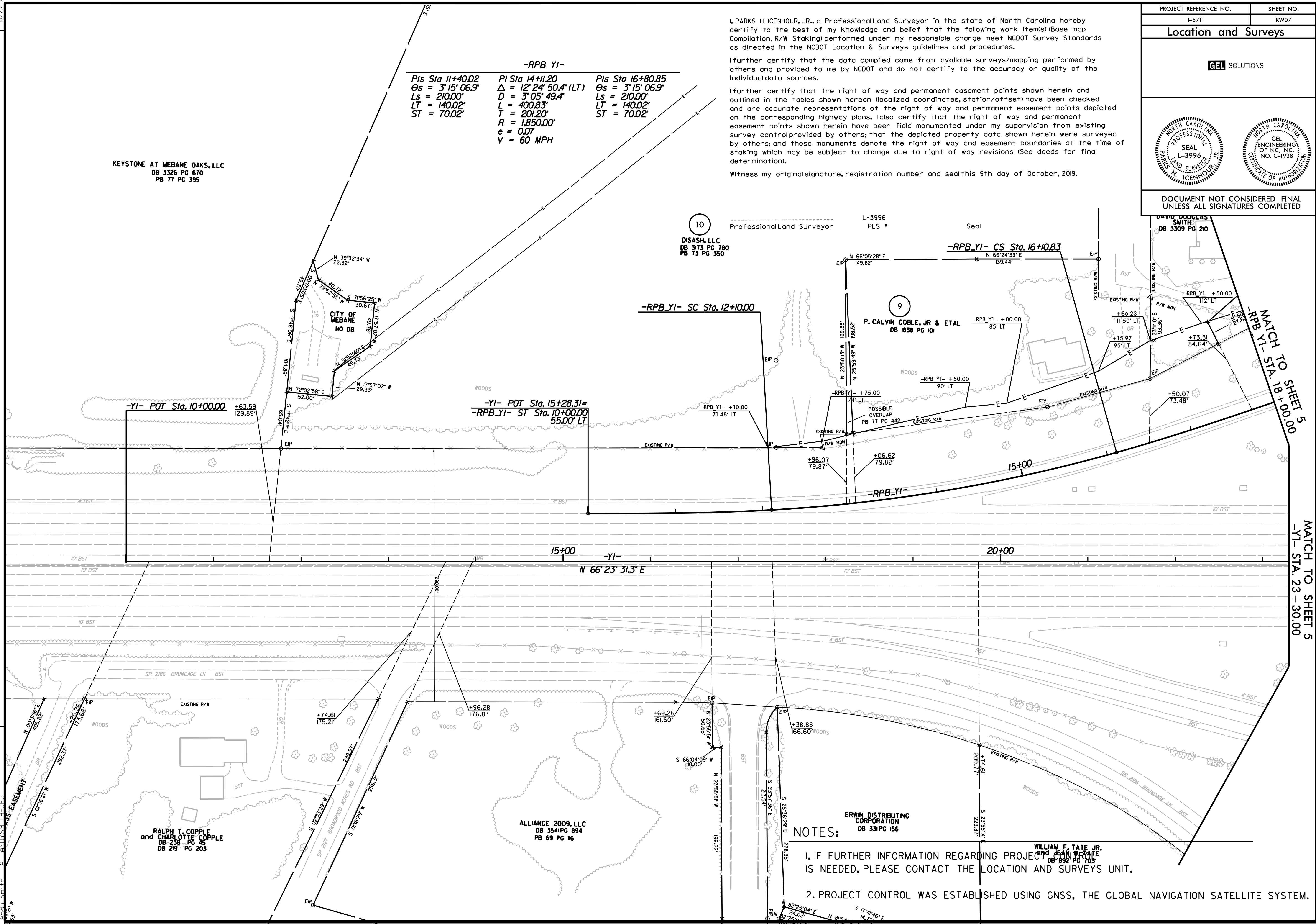
KEYSTONE AT MEBANE OAKS, LLC
DB 3326 PG 670
PB 77 PG 395

10
DISASH, LLC
DB 3173 PG 780
PB 73 PG 350

L-3996
PLS *
Seal

DAVID DOUGLAS SMITH
DB 3309 PG 210

REVISIONS


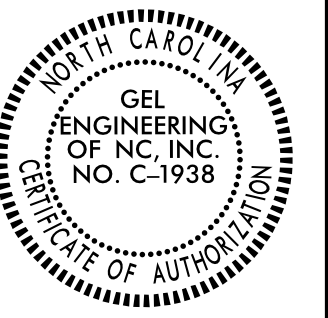


NOTES:

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

L:\0511\2019\08\04
 L-5711\RM\SHEETS\L-5711.LS.RW07.dgn
 David Douglas Smith

6/2/09

PROJECT REFERENCE NO.	SHEET NO.
L-5711	RW08
Location and Surveys	
GEL SOLUTIONS	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, PARKS H ICENHOUR, JR., 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 9th day of October, 2019.

-RPD_YI-

Pis Sta 11+40.02	PI Sta 13+08.46	Pis Sta 14+76.75
$\theta_s = 3' 18' 19.9"$	$\Delta = 6' 11' 35.5" (LT)$	$\theta_s = 3' 18' 19.9"$
$L_s = 210.00'$	$D = 3' 08' 53.2"$	$L_s = 210.00'$
$LT = 140.02'$	$L = 196.73'$	$LT = 140.02'$
$ST = 70.02'$	$T = 98.46'$	$ST = 70.02'$
	$R = 1,820.00'$	
	$e = EXIST$	
	$V = 60 MPH$	

TICON THOMAS PARTNERSHIP
DB 3529 PG 629
PB 73 PG 375

Professional Land Surveyor
L-3996
PLS #

TANGER PROPERTIES LMTD PARTNERSHIP
DB 3529 PG 629
PB 73 PG 375

HARRY D. RICHMOND
DB 2216 PG 460
DB 687 PG 286
PB 14 PG 60

HARRY D. RICHMOND
DB 370 PG 573

FLOYD B. REPASS
DB 493 PG 903

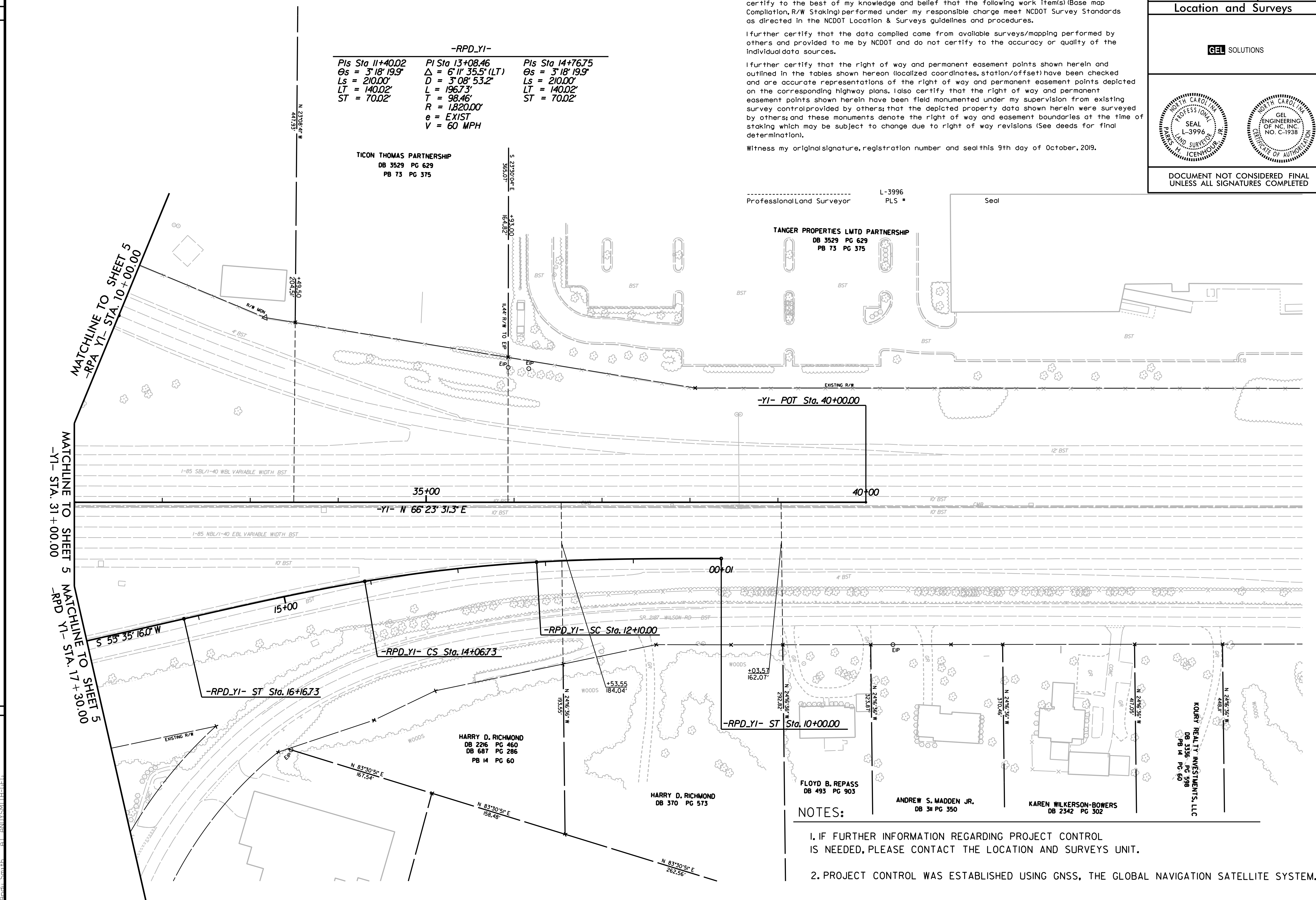
ANDREW S. MADDEN JR.
DB 311 PG 350

KAREN WILKERSON-BOWERS
DB 2342 PG 302

KOURY REALTY INVESTMENTS, LLC
DB 3336 - PG 598
PB 14 PG 60

NOTES:

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



REVISIONS

MATCHLINE TO SHEET 5
-RPA Y1- STA. 10+00.00

MATCHLINE TO SHEET 5
-Y1- STA. 31+00.00

MATCHLINE TO SHEET 5
-RPD Y1- STA. 17+30.00

IC:\051-2018-0711P
IC-5711-RW-SHEETS\1-5711-LS-RW08.dgn
6/2/09
Parks H. Icenhour, Jr.
Professional Land Surveyor