

09/06/19

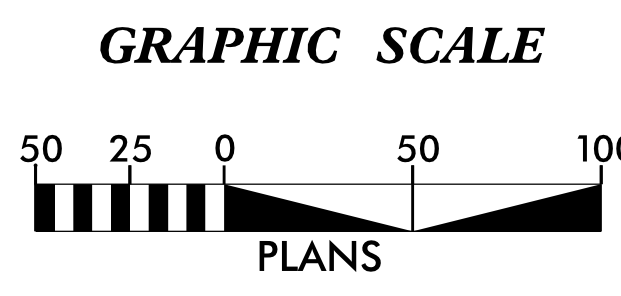
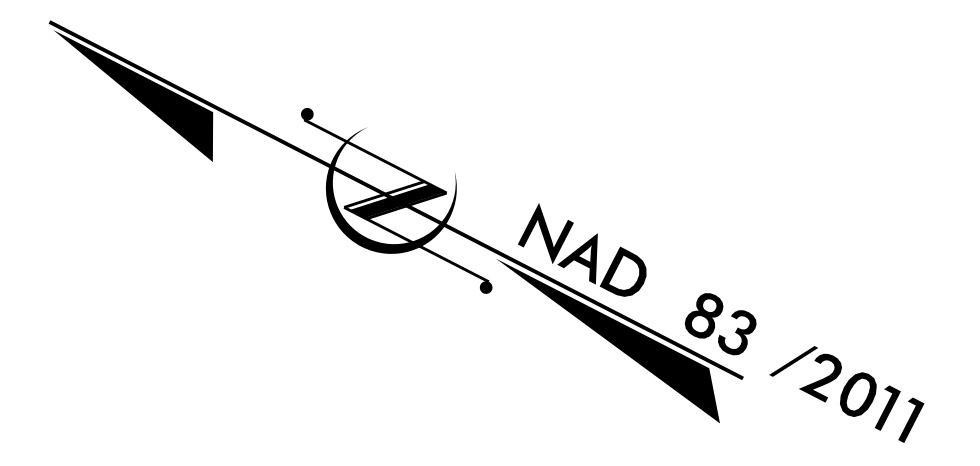
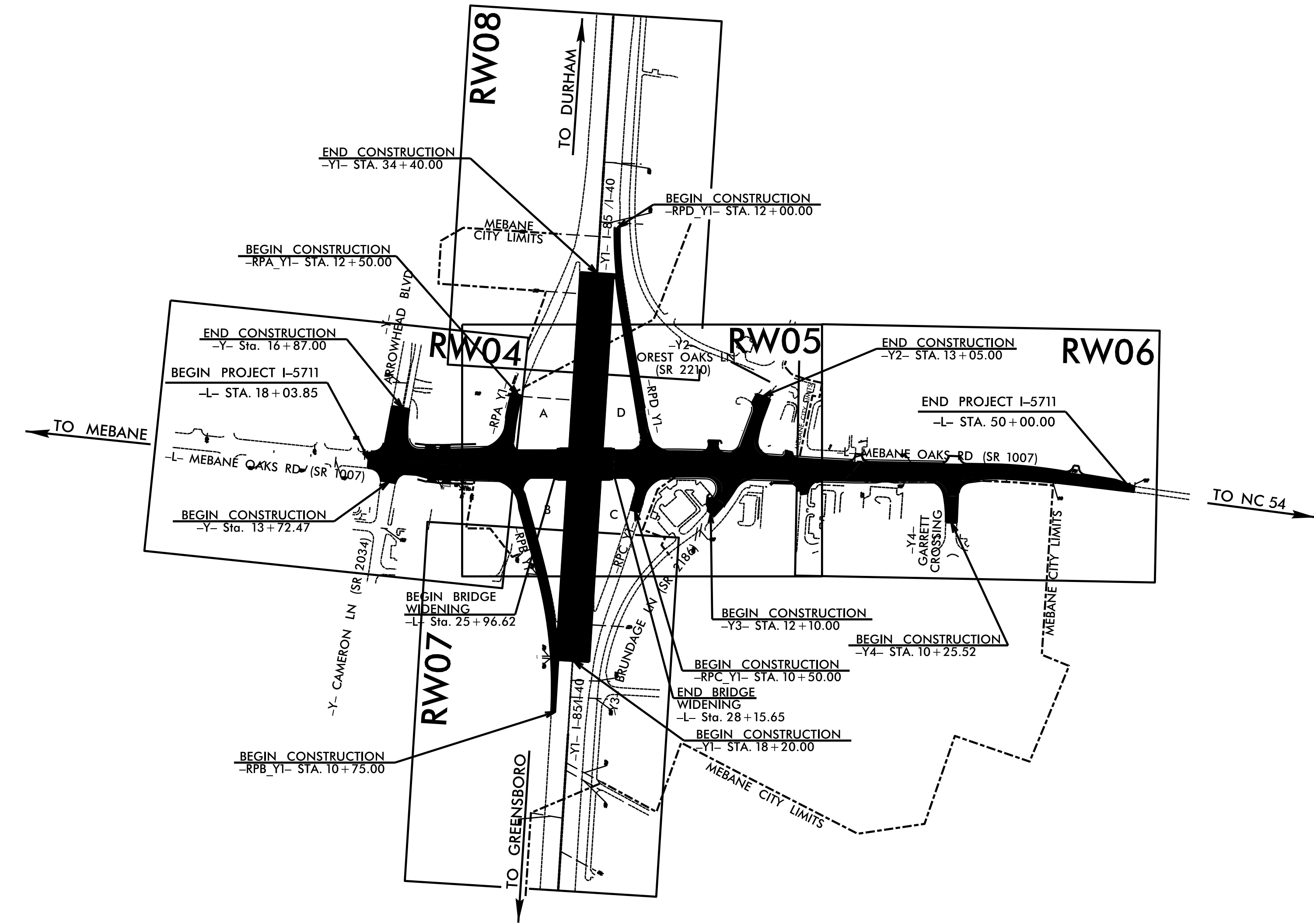
TIP PROJECT: I-5711

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



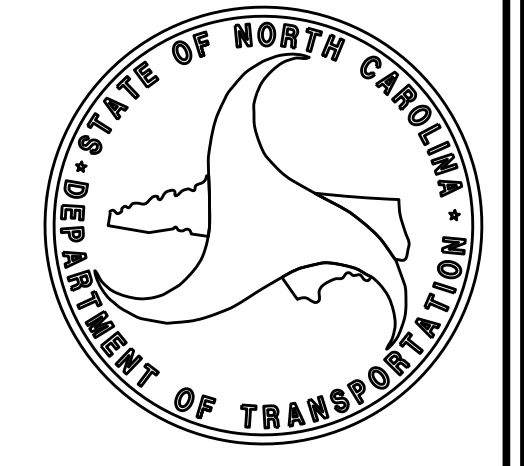
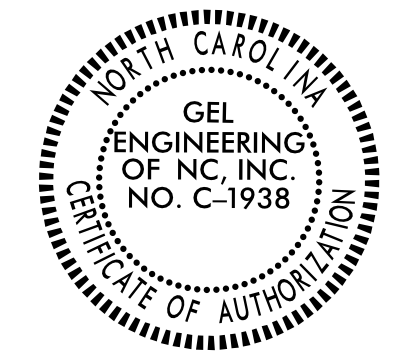
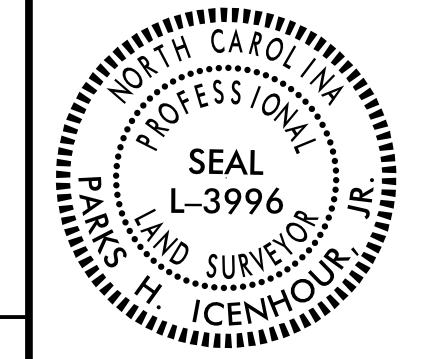
DATUM DESCRIPTION

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

PROFESSIONAL LAND SURVEYOR



2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: SEPT. 28, 2018	LETTING DATE: MARCH 17, 2020
---	--

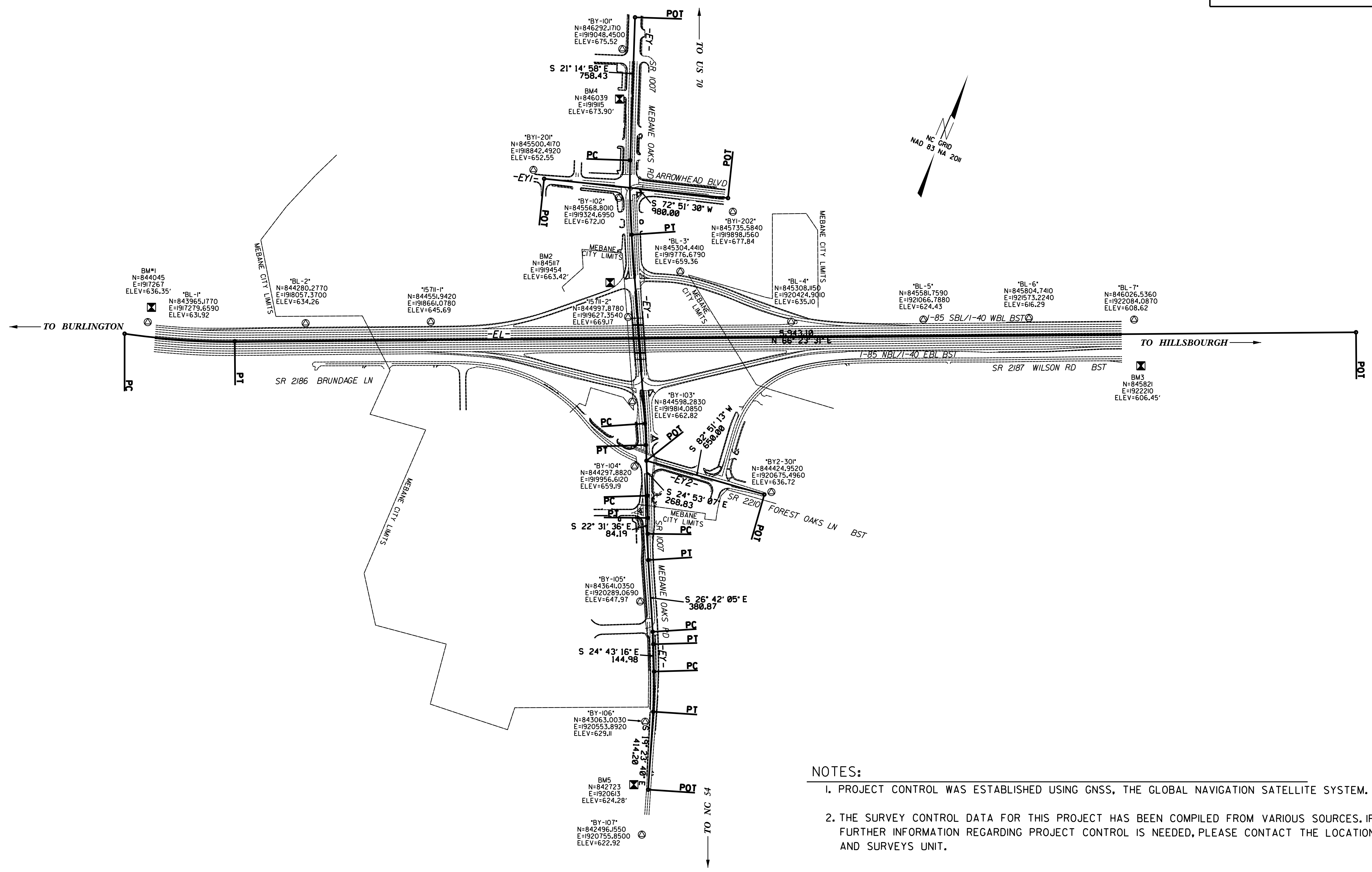
SIGNATURE: _____ Date: _____

\$\$\$\$\$ SYSTEM\$\$\$\$\$ DDN\$\$\$\$\$ USER NAME\$\$\$\$\$

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

07-NOV-2018 15:31
 S:\Units\Div\0580\interstate\5711\control\sheet\15711_1s_1c-1_190131.dgn
 cullewer

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

PROJECT REFERENCE NO.	SHEET NO.
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

```

.....
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
.....
    
```

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		

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.

07-NOV-2019 15:45
 S:\Units\Div\07\0580\interstate\15711\control_sheet\15711_1s_rw02c-3.dgn
 AT LS=312549
 c:\ewter

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.

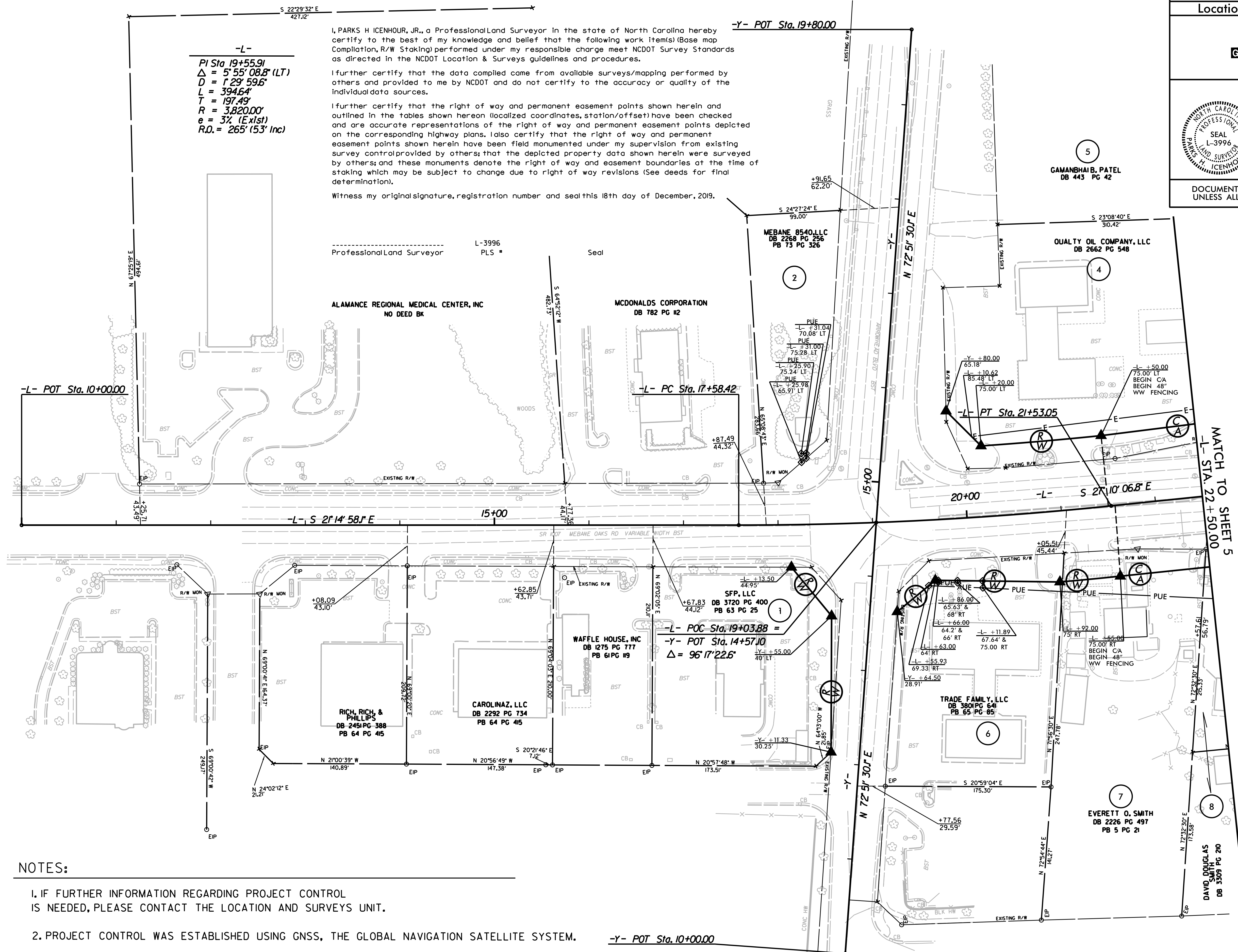
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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.

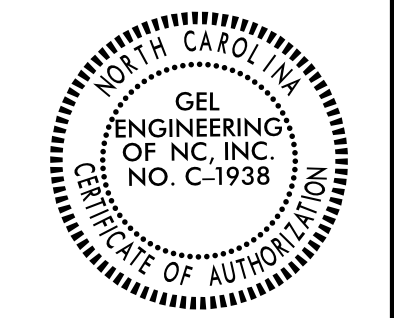
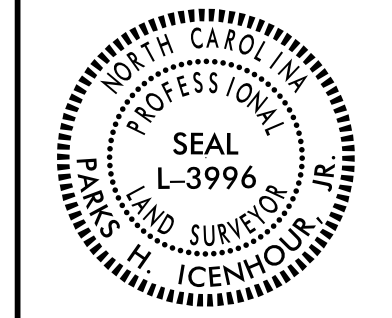
REVISIONS

6/2/19

L:\5711\REVISED\S1-5711-LS-RW04.dgn
David Douglas Smith

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.

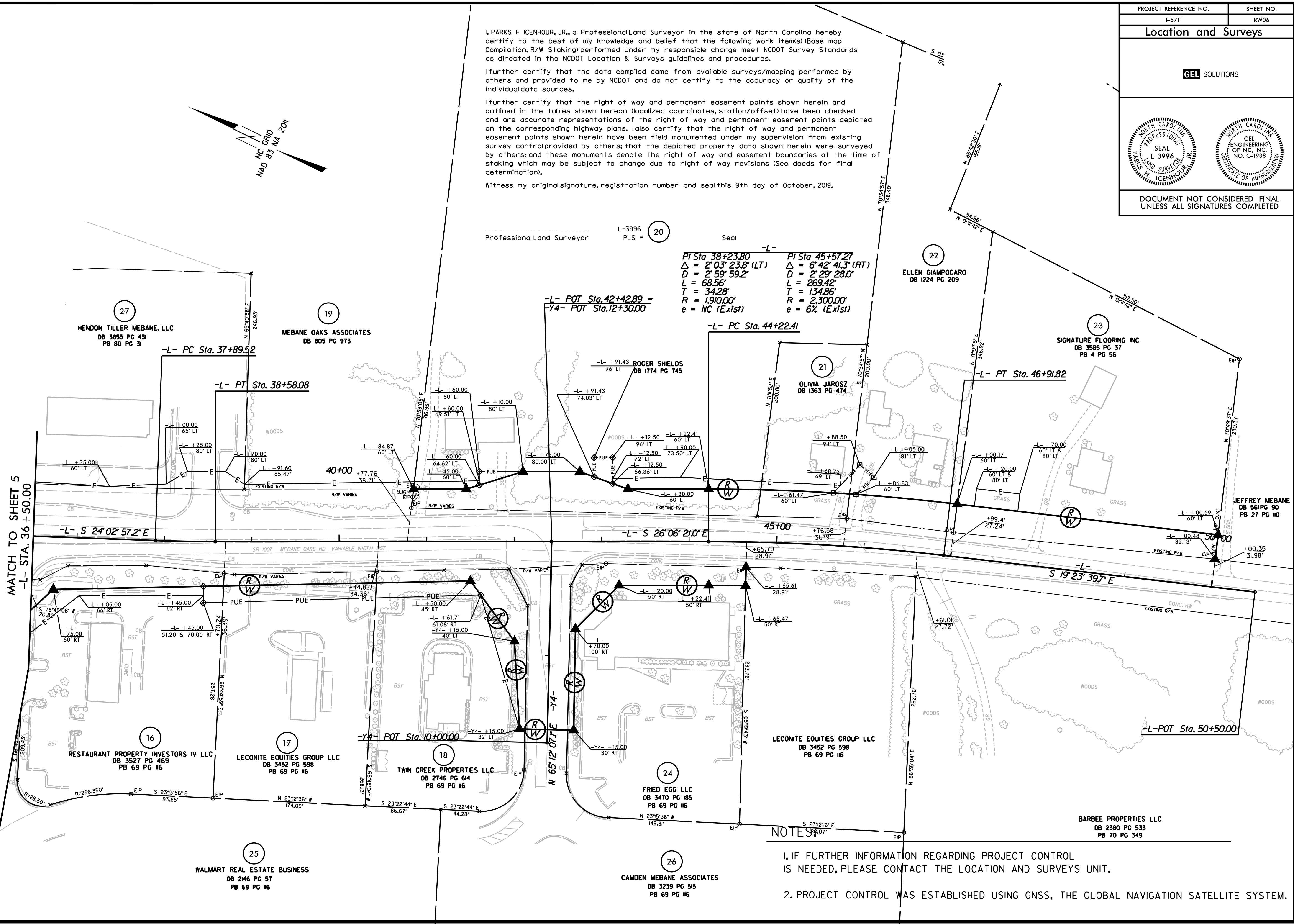
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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 (Exlst)
 -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% (Exlst)



REVISIONS

MATCH TO SHEET 5
-L- STA. 36+50.00

L:\051-2018-09-06-LS-5711-LS-RW06.dgn
L-5711-RW-SHEET AND SMITH-REV

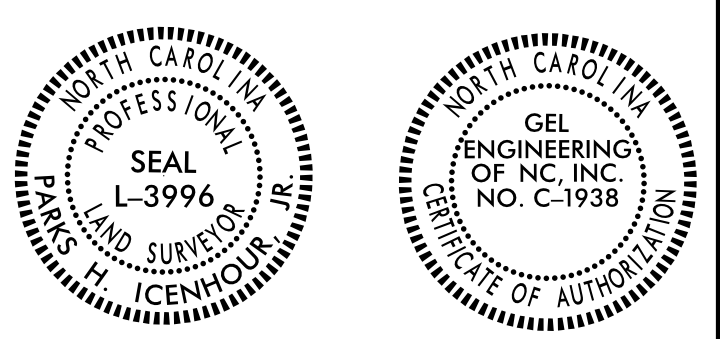
NOTES

- 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.

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	

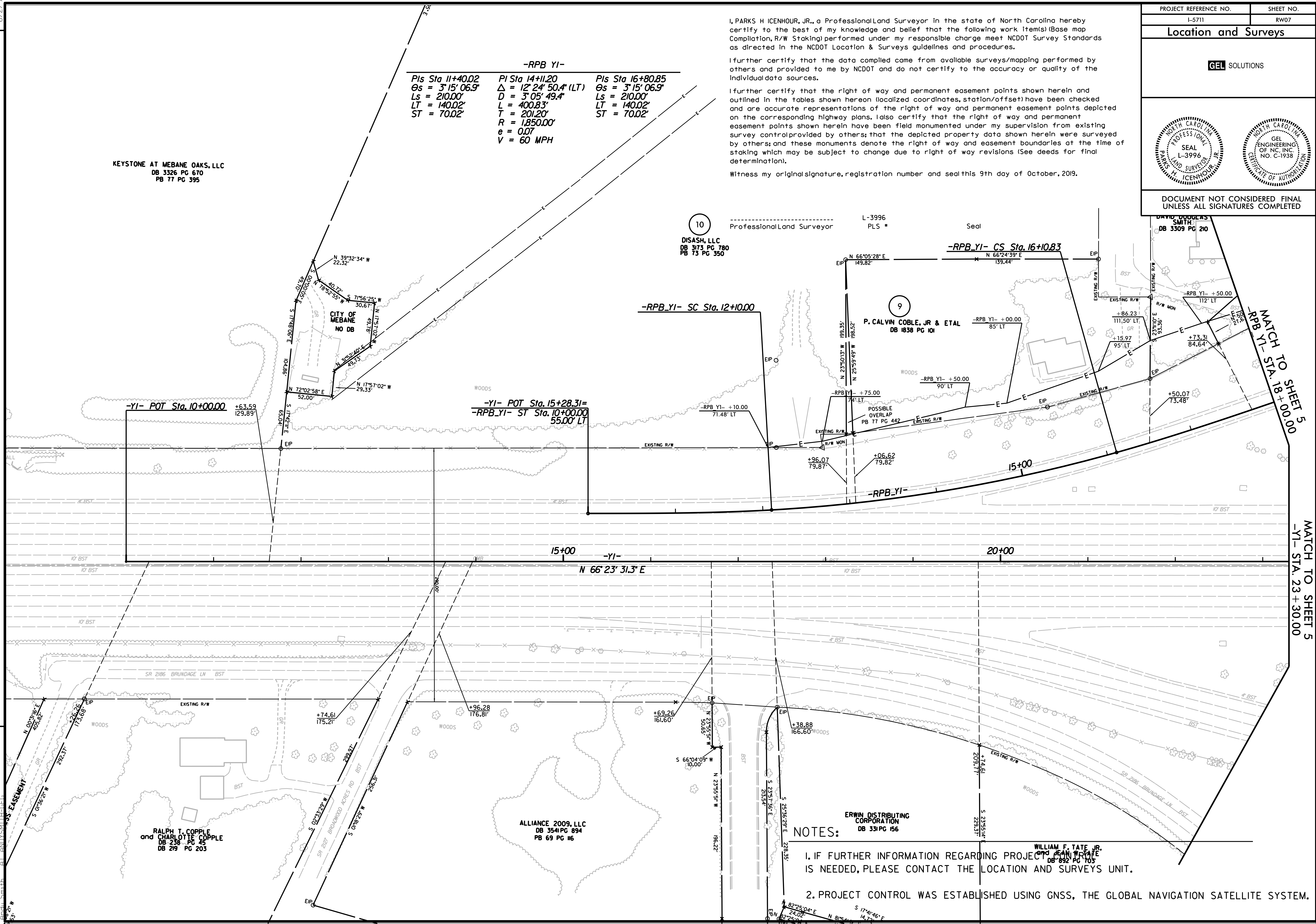
KEYSTONE AT MEBANE OAKS, LLC
DB 3326 PG 670
PB 77 PG 395

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

L-3996
PLS *
Seal

DAVID DOUGLAS SMITH
DB 3309 PG 210

REVISIONS



14-051-2016-08-04
C:\5711\RM\SHEETS\L-5711.LS.RW07.dgn
David Smith

RALPH T. COPPLE and CHARLOTTE COPPLE
DB 238 PG 45
DB 219 PG 203

ALLIANCE 2009, LLC
DB 354 PG 894
PB 69 PG 116

ERWIN DISTRIBUTING CORPORATION
DB 331 PG 156

WILLIAM F. TATE JR.
DB 892 PG 105

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.

MATCH TO SHEET 5
-RPB YI- STA. 16+00.00

MATCH TO SHEET 5
-YI- STA. 23+30.00

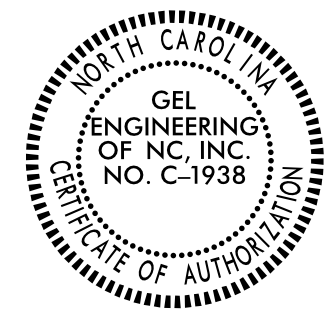
6/2/09

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.

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.

-RPD_YI-		
Pis Sta 11+40.02	PI Sta 13+08.46	Pis Sta 14+76.75
Os = 3' 18" 19.9"	Δ = 6' 11" 35.5" (LT)	Os = 3' 18" 19.9"
Ls = 210.00'	D = 3' 08" 53.2"	Ls = 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 # Seal

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:\051-2019-0719-1-5711-LS.RW08.dgn
L-5711-1-5711-LS.RW08.dgn
6/2/09