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09/28/19

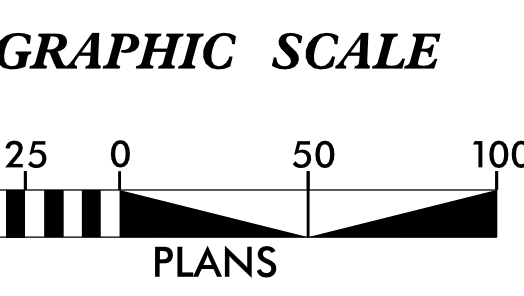
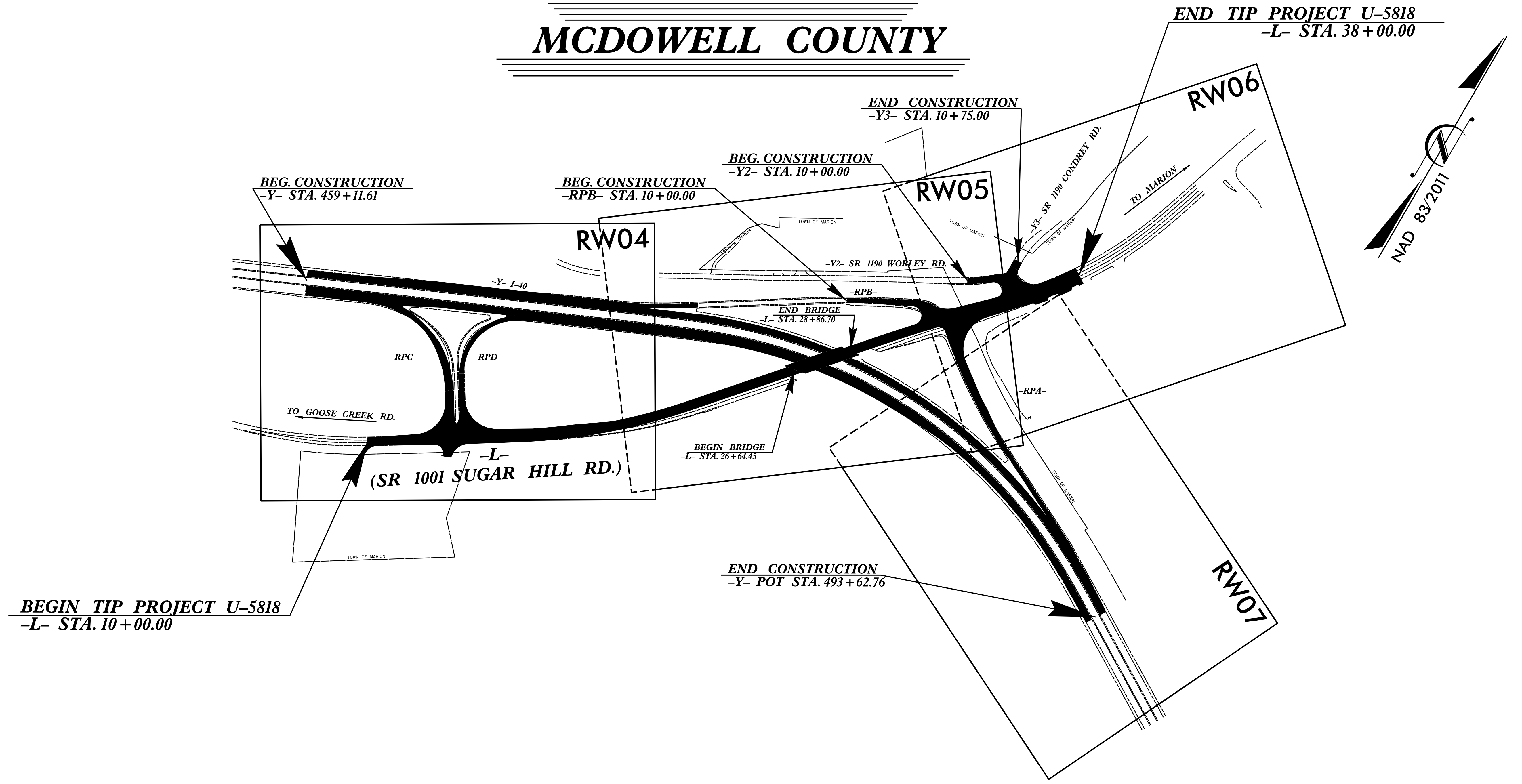
TIP PROJECT: U5818

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U5818	RW01	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

MCDOWELL COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U5818-GPS4" WITH NAD 83/NSRS XXXX STATE PLANE GRID COORDINATES OF NORTHING: 706,560.157(ft) EASTING: 1,100,026.049(ft) ELEVATION: 1,474.318(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99983170 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U5818-GPS4" TO -L- STATION 10+00.00 IS S 40-05'18.3" W 4,830.847(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared In the Office of:

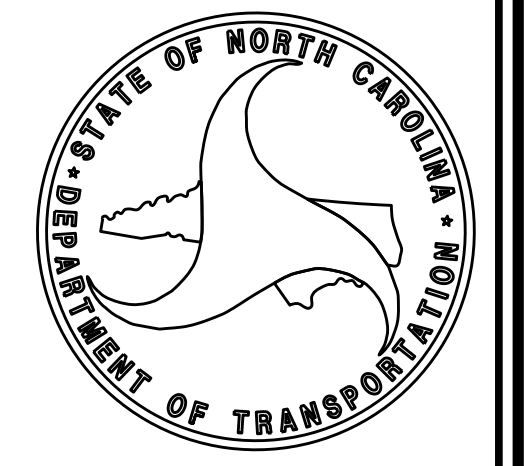
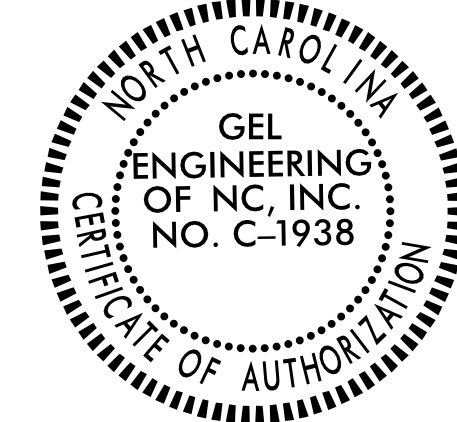
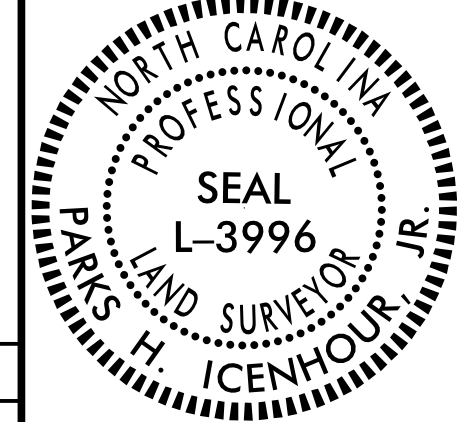
GEL SOLUTIONS

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
June 15, 2018

LETTING DATE:
June 18, 2019

PROFESSIONAL LAND SURVEYOR

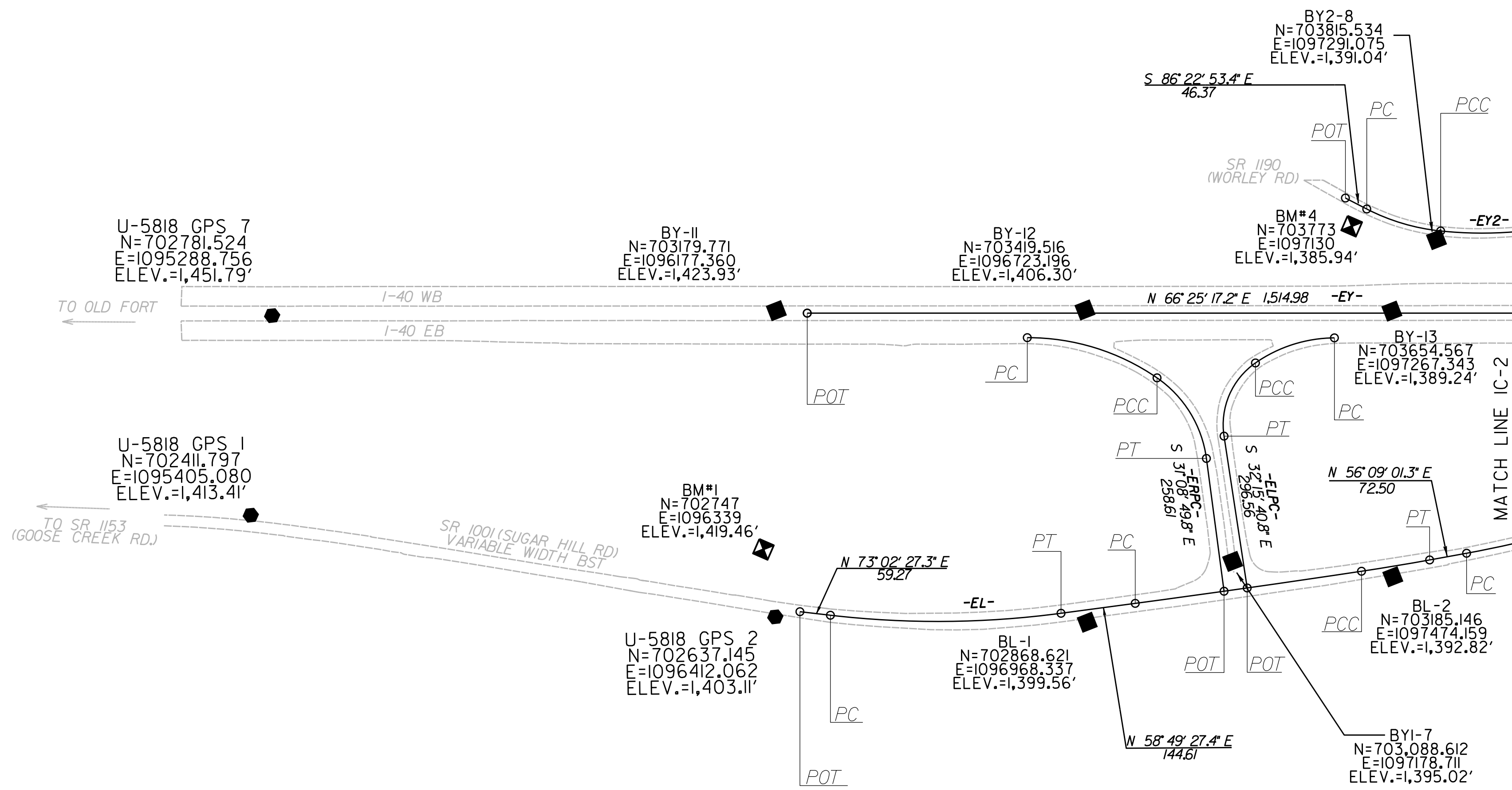
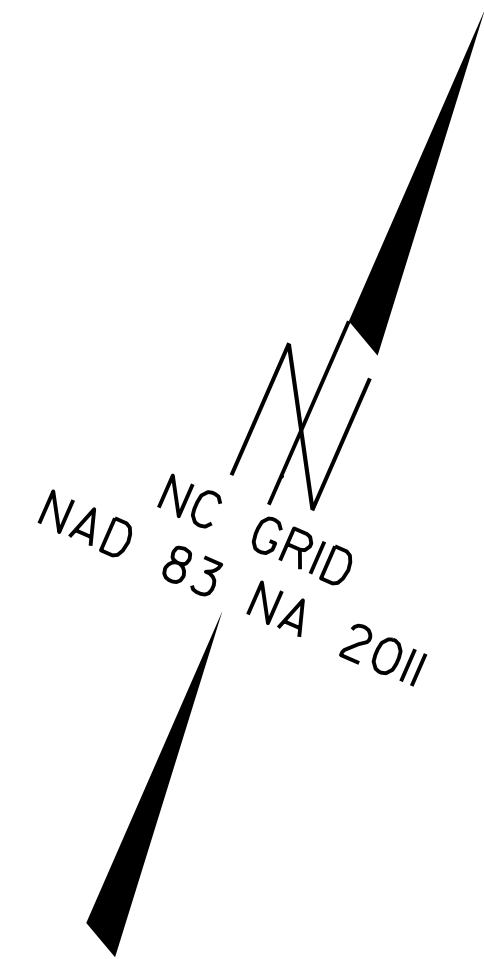


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\$\$\$\$\$USERNAME\$\$\$\$\$

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U5818-GPS4" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 706560.157(ft) EASTING: 1100026.049(ft) ELEVATION: 1474.318(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99983170 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U5818-GPS4" TO -L- STATION IS ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

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.

SEE SHEET 1C-5 & 1C-6 FOR FURTHER ALIGNMENT DETAILS

REVISIONS

6/2/09

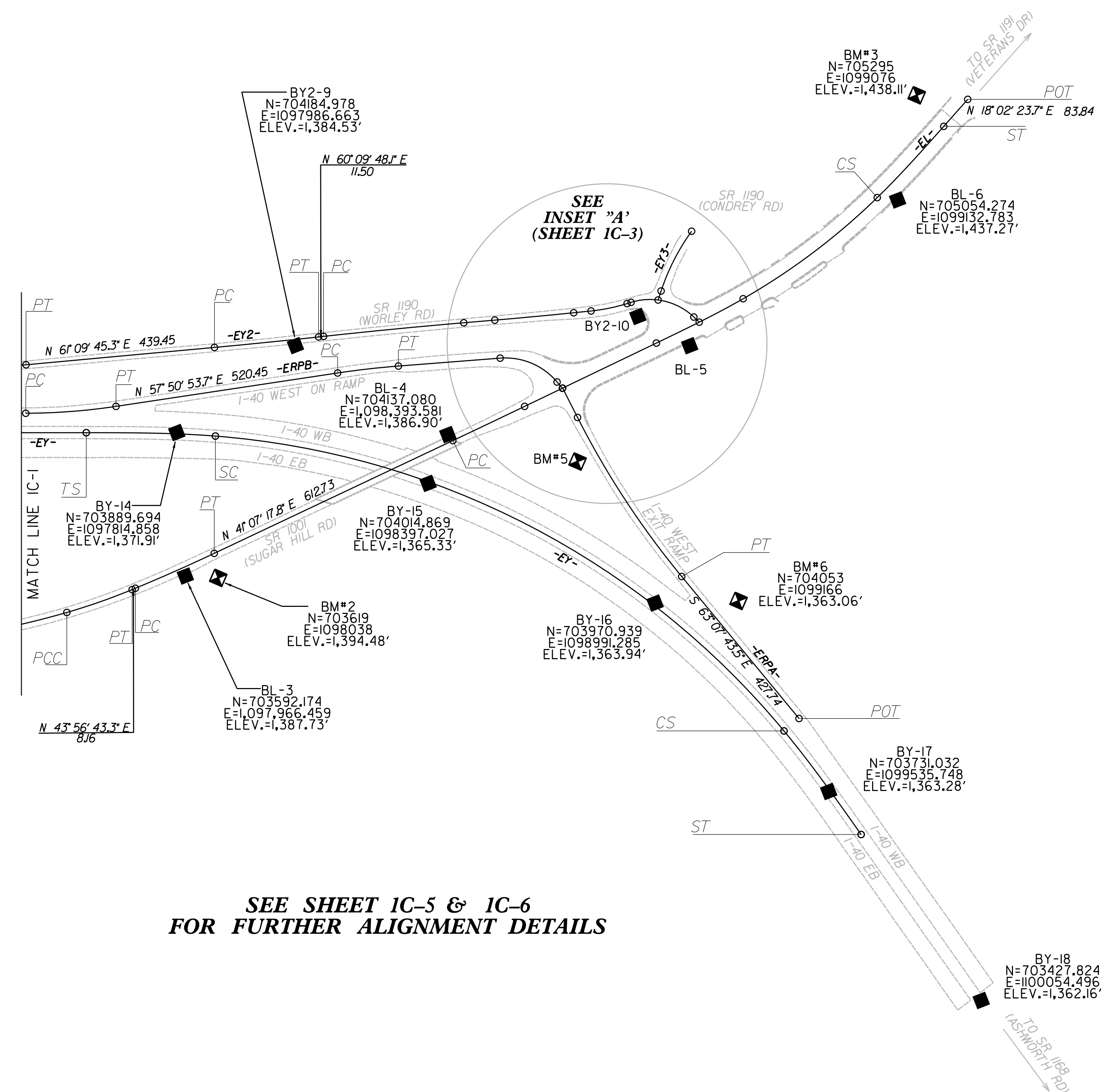
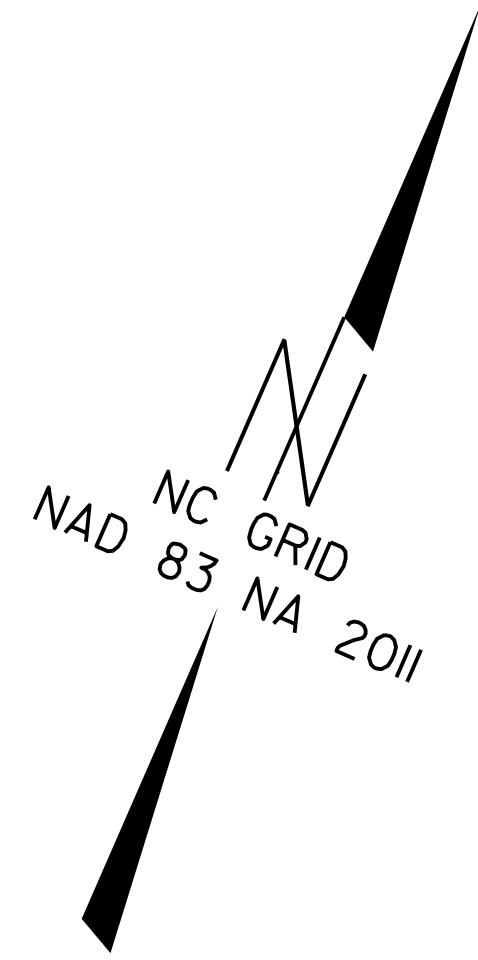
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PROJECT REFERENCE NO.	SHEET NO.
U-5818	RW02C-2
Location and Surveys	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

● U-5818 GPS 3
 N=705862.596
 E=1099362.553
 ELEV.=1,475.73'



NOTES:

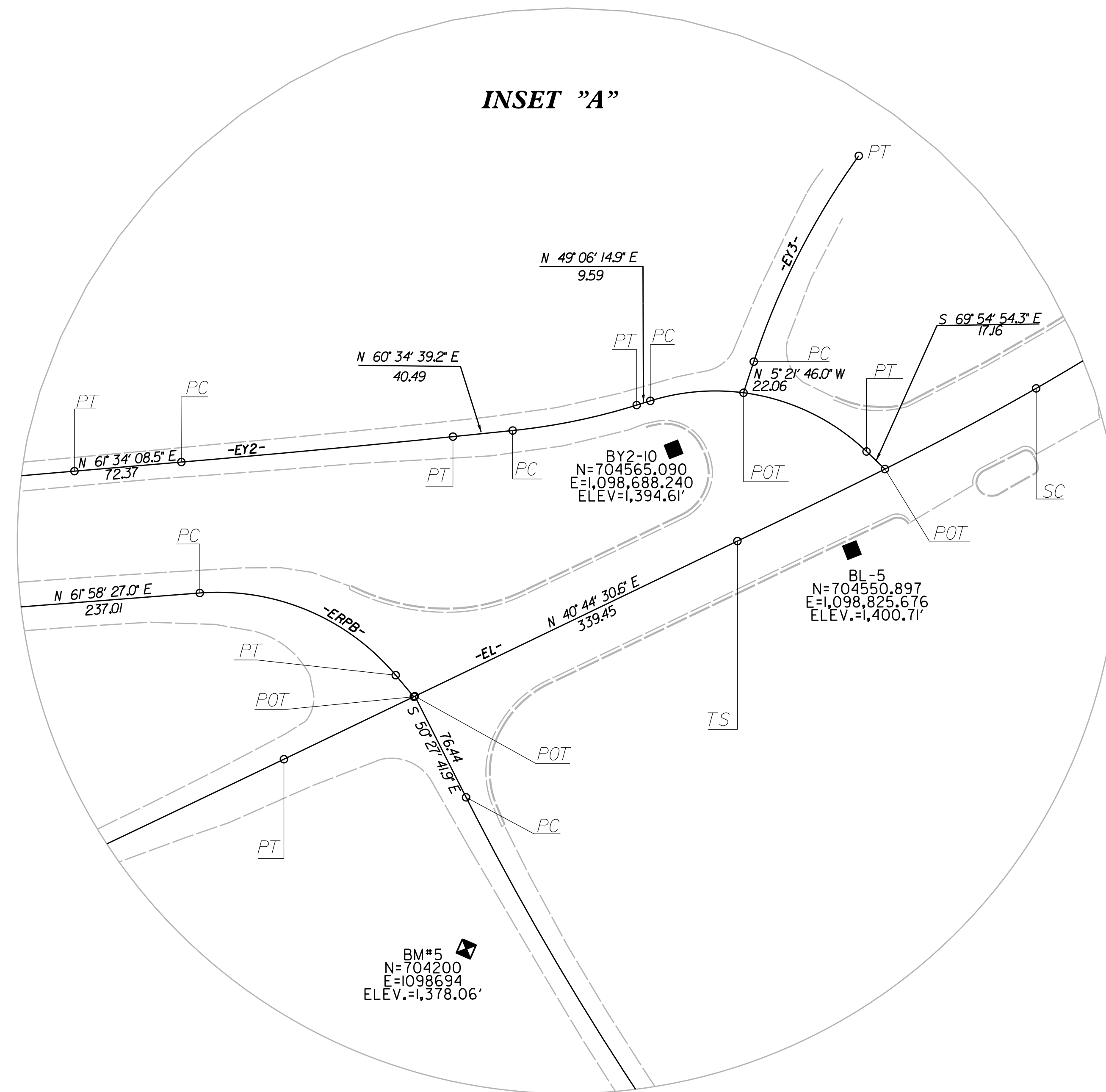
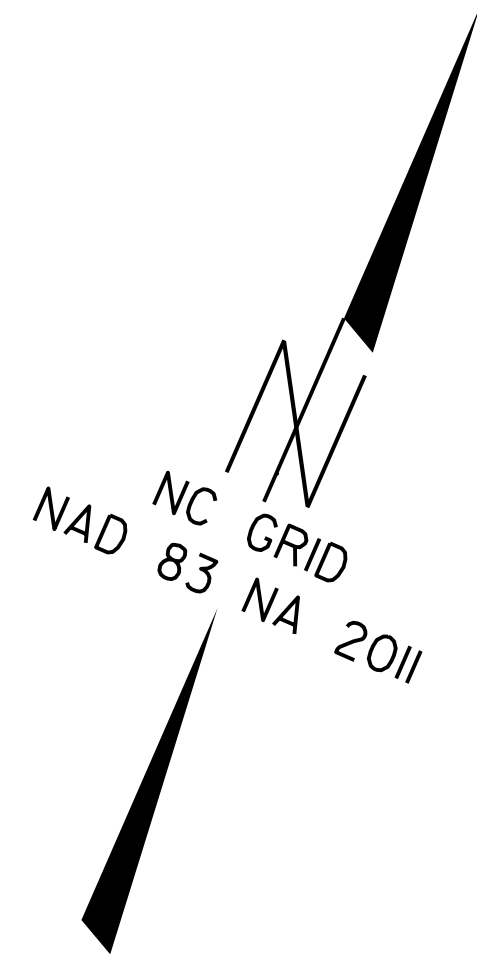
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REVISIONS

6/2/09
 01 MAY 2019 09:48
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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



DRAWING NOT TO SCALE

NOTES:

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BASELINE INFORMATION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
GPS2		U5818-GPS2	702637.1450	1096412.0620	1403.11
1		BL-1	702868.6210	1096968.3370	1399.56
2		BL-2	703185.1460	1097474.1590	1392.82
3		BL-3	703592.1740	1097966.4590	1387.73
4		BL-4	704137.0800	1098393.5810	1386.90
5		BL-5	704550.8970	1098825.6760	1400.71
6		BL-6	705054.2740	1099132.7830	1437.27
GPS3		U5818-GPS3	705862.5960	1099362.5530	1475.73

BY	POINT	DESC.	NORTH	EAST	ELEVATION
11		BY-11	703179.7710	1096177.3600	1423.93
12		BY-12	703419.5160	1096723.1960	1406.30
13		BY-13	703654.5670	1097267.3430	1389.24
14		BY-14	703889.6940	1097814.8580	1371.91
15		BY-15	704014.8690	1098397.0270	1365.33
16		BY-16	703970.9390	1098991.2850	1363.94
17		BY-17	703731.0320	1099535.7480	1363.28
18		BY-18	703427.8240	1100054.4960	1362.16
19		BY-19	703117.4730	1100567.6950	1357.43

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
7		BY1-7	703088.6120	1097178.7110	1395.02
1		BL-1	702868.6210	1096968.3370	1399.56

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
8		BY2-8	703815.5340	1097291.0750	1391.04
9		BY2-9	704184.9780	1097986.6630	1384.53
10		BY2-10	704565.0900	1098688.2400	1394.61
5		BL-5	704550.8970	1098825.6760	1400.71

PRIMARY CONTROL NOT INCLUDED IN BASELINE					
	POINT	DESC.	NORTH	EAST	ELEVATION
	GPS1	U5818-GPS1	702411.7970	1095405.0800	1413.41
	GPS4	U5818-GPS4	706560.1570	1100026.0490	1474.32
	GPS5	U5818-GPS5	702364.9360	1101932.3220	1341.13
	GPS6	U5818-GPS6	701876.1050	1102712.6610	1332.54
	GPS7	U5818-GPS7	702781.5240	1095288.7560	1451.79
	GPS8	U5818-GPS8	702404.9730	1094427.0270	1479.04

BENCHMARK INFORMATION

*****	*****
BM1 ELEVATION = 1419.46	BM4 ELEVATION = 1385.94
N 702748 E 1096339	N 703774 E 1097131
BENCH TIE NAIL SET IN 24" BEECH	BENCH TIE NAIL SET IN 16" MAPLE
*****	*****

*****	*****
BM2 ELEVATION = 1394.48	BM5 ELEVATION = 1378.06
N 703619 E 1098038	N 704200 E 1098695
BENCH TIE NAIL SET IN 18" SWEET GUM	BENCH TIE NAIL SET IN 20" POPLAR
*****	*****

*****	*****
BM3 ELEVATION = 1438.11	BM6 ELEVATION = 1363.06
N 705295 E 1099076	N 704053 E 1099167
BENCH TIE NAIL SET IN 24" SWEET GUM	BENCH TIE NAIL SET IN 30" OAK
*****	*****

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6/2/09

REVISIONS

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL													
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT	702665.361	1096451.714											
LINE			N 73°02'27.3" E	59.27									
PC	702682.651	1096508.410											
CURVE			N 65°55'57.4" E	445.45	14°12'59.9(LT)	03°11'00.1"	446.59	224.45	1799.85				
PT	702864.310	1096915.134											
LINE			N 58°49'27.4" E	144.61									
PC	702939.171	1097038.862											
CURVE			N 58°20'37.4" E	441.40	00°57'40.1(LT)	00°13'03.9"	441.40	220.71	26313.20				
PCC	703170.825	1097414.583											
CURVE			N 57°00'24.3" E	133.41	01°42'46.0(LT)	01°17'01.7"	133.41	66.71	4462.93				
PT	703243.471	1097526.477											
LINE			N 56°09'01.5" E	72.50									
PC	703283.857	1097586.692											
CURVE			N 53°13'15.2" E	201.65	05°51'32.2(LT)	02°54'15.4"	201.74	100.96	1972.81				
PCC	703404.590	1097748.202											
CURVE			N 47°07'06.2" E	160.74	06°20'45.8(LT)	03°56'45.3"	160.83	80.49	1452.02				
PT	703513.973	1097865.988											
LINE			N 43°56'42.8" E	8.16									
PC	703519.846	1097871.649											
CURVE			N 42°32'00.5" E	200.23	02°49'25.5(LT)	01°24'36.5"	200.25	100.14	4063.16				
PT	703667.390	1098007.007											
LINE			N 41°07'17.8" E	612.73									
PC	704128.966	1098409.972											
CURVE			N 40°55'54.2" E	184.64	00°22'47.2(LT)	00°12'20.4"	184.64	92.32	27857.21				
PT	704268.464	1098530.944											
LINE			N 40°44'30.6" E	339.45									
TS	704525.649	1098752.485											
SPIRAL			N 39°21'17.0" E	226.33						04°09'41.5(LT)	226.38	150.96	75.50
SC	704700.653	1098896.003											
CURVE			N 29°23'27.1" E	390.07	14°22'44.0(LT)	03°40'35.7"	391.09	196.58	1558.40				
CS	705040.517	1099087.435											
SPIRAL			N 19°25'37.3" E	226.33						04°09'41.5(LT)	226.38	150.96	75.50
ST	705253.958	1099162.713											
LINE			N 18°02'23.7" E	83.84									
POT	705333.672	1099188.675											

EY													
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT	703199.346	1096234.043											
LINE			N 66°25'17.2" E	1514.98									
TS	703805.348	1097622.541											
SPIRAL			N 67°55'16.9" E	299.92						04°30'00.0(RT)	300.00	200.06	100.06
SC	703918.080	1097900.466											
CURVE			S 86°09'42.8" E	1487.37	45°50'00.0(RT)	03°00'00.0"	1527.78	807.41	1909.86				
CS	703818.520	1099384.497											
SPIRAL			S 60°14'42.6" E	299.92						04°30'00.0(RT)	300.00	200.06	100.06
ST	703818.520	1099384.497											

EY2										
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
POT	703818.801	1097097.870								
LINE			S 86°22'53.4" E	46.37						
PC	703815.875	1097144.143								
CURVE			N 82°58'06.3" E	148.90	21°18'00.7(LT)	14°13'20.5"	149.77	75.76	402.86	
PCC	703834.103	1097291.928								
CURVE			N 66°44'25.6" E	151.65	11°09'20.6(LT)	07°20'40.7"	151.89	76.19	780.10	
PT	703893.989	1097431.252								
LINE			N 61°09'45.3" E	439.45						
PC	704105.949	1097816.210								
CURVE			N 60°39'46.7" E	242.94	00°59'57.2(LT)	00°24'40.7"	242.94	121.48	13930.60	
PT	704224.977	1098027.995								
LINE			N 60°09'48.1" E	11.50						
PC	704230.698	1098037.969								
CURVE			N 60°51'58.3" E	327.16	01°24'20.3(RT)	00°25'46.7"	327.17	163.59	13335.85	
PT	704389.978	1098323.742								
LINE			N 61°34'08.5" E	72.37						
PC	704424.434	1098387.384								
CURVE			N 61°04'23.9" E	183.99	00°59'29.3(LT)	00°32'19.9"	183.99	92.00	10632.74	
PT	704513.428	1098548.419								
LINE			N 60°34'39.2" E	40.49						
PC	704533.321	1098583.691								
CURVE			N 54°50'27.1" E	85.44	11°28'24.3(LT)	13°24'21.2"	85.58	42.94	427.39	
PT	704582.522	1098653.544								
LINE			N 49°06'14.9" E	9.59						
PC	704588.803	1098660.796								
CURVE			N 79°35'40.3" E	149.82	60°58'50.8(RT)	38°48'29.8"	157.13	86.93	147.64	
PT	704615.863	1098808.154								
LINE			S 69°54'54.3" E	17.16						
POT	704609.969	1098824.272								

NOTES:

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6/2/09

REVISIONS

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EY3

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	704618.978	1098716.259							
LINE			N 05°21'46.0" W	22.06					
PC	704640.938	1098714.198							
CURVE			N 03°27'59.2" E	155.83	17°39'30.4"(RT)	11°17'12.6"	156.45	78.85	507.63
PT	704640.938	1098714.198							

ELPC

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	703562.874	1097186.379							
CURVE			S 48°48'09.5" W	160.02	34°24'24.9"(LT)	21°10'45.8"	162.45	83.76	270.53
PCC	703457.473	1097065.969							
CURVE			S 00°19'51.9" E	153.75	63°51'37.9"(LT)	39°25'04.5"	162.01	90.58	145.35
PT	703303.723	1097066.857							
LINE			S 32°15'40.8" E	296.56					
POT	703052.945	1097225.156							

ERPA

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	704342.728	1098594.915							
LINE			S 50°27'41.9" E	76.44					
PC	704294.068	1098653.863							
CURVE			S 56°47'42.7" E	441.55	12°40'01.6"(LT)	02°51'46.5"	442.45	222.13	2001.31
PT	704052.258	1099023.320							
LINE			S 63°07'43.5" E	427.74					
POT	703858.925	1099404.875							

ERPB

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	703790.551	1097475.753							
CURVE			N 62°03'54.1" E	210.11	08°26'00.8"(LT)	04°00'36.9"	210.30	105.34	1428.73
PT	703888.981	1097661.381							
LINE			N 57°50'53.7" E	520.45					
PC	704165.944	1098102.014							
CURVE			N 59°54'40.4" E	142.01	04°07'33.3"(RT)	02°54'17.1"	142.04	71.05	1972.48
PT	704237.140	1098224.888							
LINE			N 61°58'27.0" E	237.01					
PC	704348.501	1098434.101							
CURVE			N 89°10'59.5" E	143.32	54°25'05.0"(RT)	36°33'32.1"	148.85	80.58	156.72
PT	704350.544	1098577.405							
LINE			S 63°36'27.7" E	18.96					
POT	704342.116	1098594.388							

ERPC

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	703325.951	1096642.525							
CURVE			N 83°37'30.4" E	262.35	34°42'41.8"(RT)	13°01'45.8"	266.41	137.43	439.74
PCC	703355.081	1096903.257							
CURVE			S 55°04'59.2" E	182.53	47°52'18.9"(RT)	25°28'16.2"	187.95	99.85	224.94
PT	703250.606	1097052.925							
LINE			S 31°08'49.8" E	258.61					
POT	703029.277	1097186.688							

NOTES:

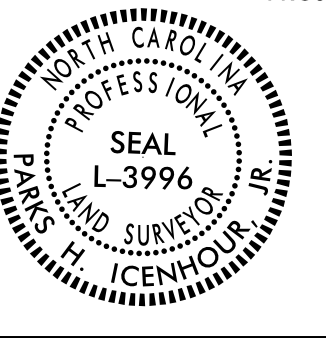
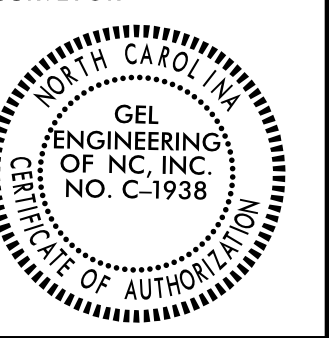
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REVISIONS

6/2/09

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PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO. U5818	SHEET NO. RW03E-1
Location and Surveys	
GEL SOLUTIONS	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMANENT EASEMENT REBAR AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L	11+50.00	-85.00	703014.6839	1096999.4697

PERMANENT EASEMENT REBAR AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
RPC	15+50.00	95.20	703160.5878	1097001.4139

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 4th day of April, 2019.

----- L-3996
Professional Land Surveyor PLS # Seal

NOTES:

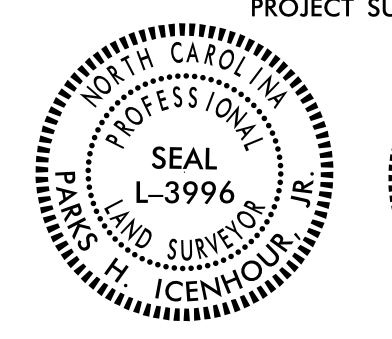
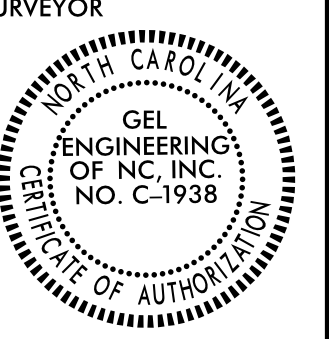
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

6/2/19

REVISIONS

08 APR 2019 14:48
C:\Users\p156181\Documents\AND SMITH REG

6/2/09

PROJECT REFERENCE NO.	SHEET NO.
US818	RW04
Location and Surveys	
GEL SOLUTIONS	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

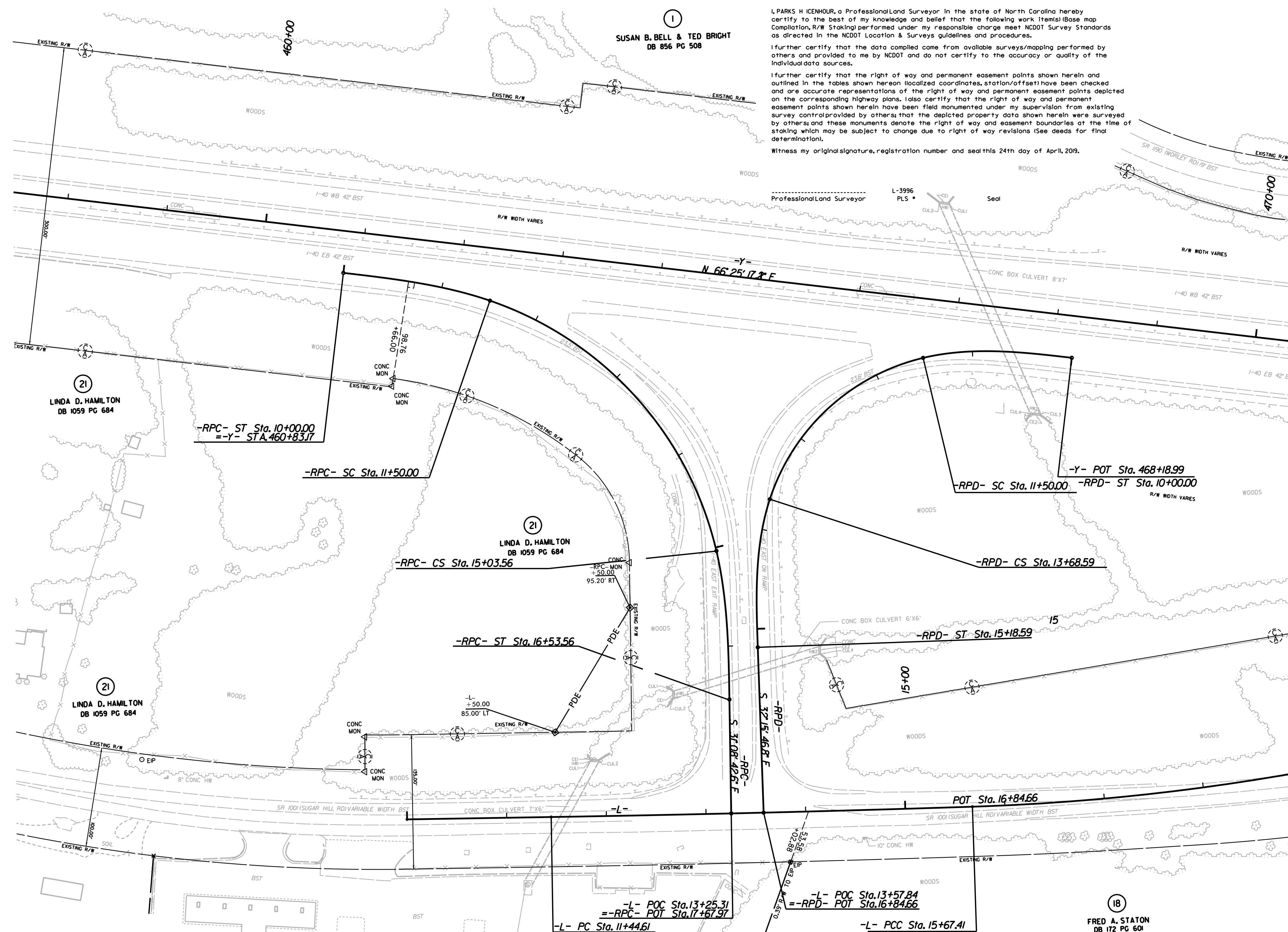
I, PARKS H ICENHOUR, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & 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 24th day of April, 2019.

Professional Land Surveyor L-3996 PLS * Seal



-RPC- Pls Sta 11+00.65 Os = 20'04' 49" Ls = 150.00' LT = 100.65' ST = 50.59' R = 214.00' SE = 08 DS = 35 MPH		-RPC- PI Sta 12+69.90 Δ = 58' 31" 25.9" (LT) D = 26' 46" 25.4" L = 218.59' T = 119.90' R = 214.00' SE = 08 DS = 35 MPH		-RPC- Pls Sta 14+19.18 Os = 20'04' 49" Ls = 150.00' LT = 100.65' ST = 50.59' R = 214.00' SE = 08 DS = 35 MPH		-RPC- Pls Sta 11+00.24 Os = 12' 16' 39.6" Ls = 150.00' LT = 100.24' ST = 50.22' R = 350.00' SE = 08 DS = 35 MPH		-RPC- PI Sta 13+43.52 Δ = 57' 52" 41.0" (RT) D = 16' 22" 12.8" L = 353.56' T = 193.52' R = 350.00' SE = 08 DS = 35 MPH		-RPC- Pls Sta 15+53.78 Os = 12' 16' 39.6" Ls = 150.00' LT = 100.24' ST = 50.22' R = 350.00' SE = 08 DS = 35 MPH		-L- PI Sta 13+56.02 Δ = 0' 55" 14.2" (LT) D = 0' 13" 03.9" L = 422.80' T = 211.40' R = 26,313.20' SE = NC DS = 50 MPH		-L- PI Sta 19+04.00 Δ = 16' 43' 23.9" (LT) D = 2' 30' 07.2" L = 668.40' T = 336.59' R = 2,290.00' SE = 03 DS = 50 MPH	
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REVISIONS

23-APR-2019 17:02
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 G:\Projects\2019\04\US818\Drawings\23-APR-2019 17:02.dwg
 G:\Projects\2019\04\US818\Drawings\23-APR-2019 17:02.dwg

6/2/19

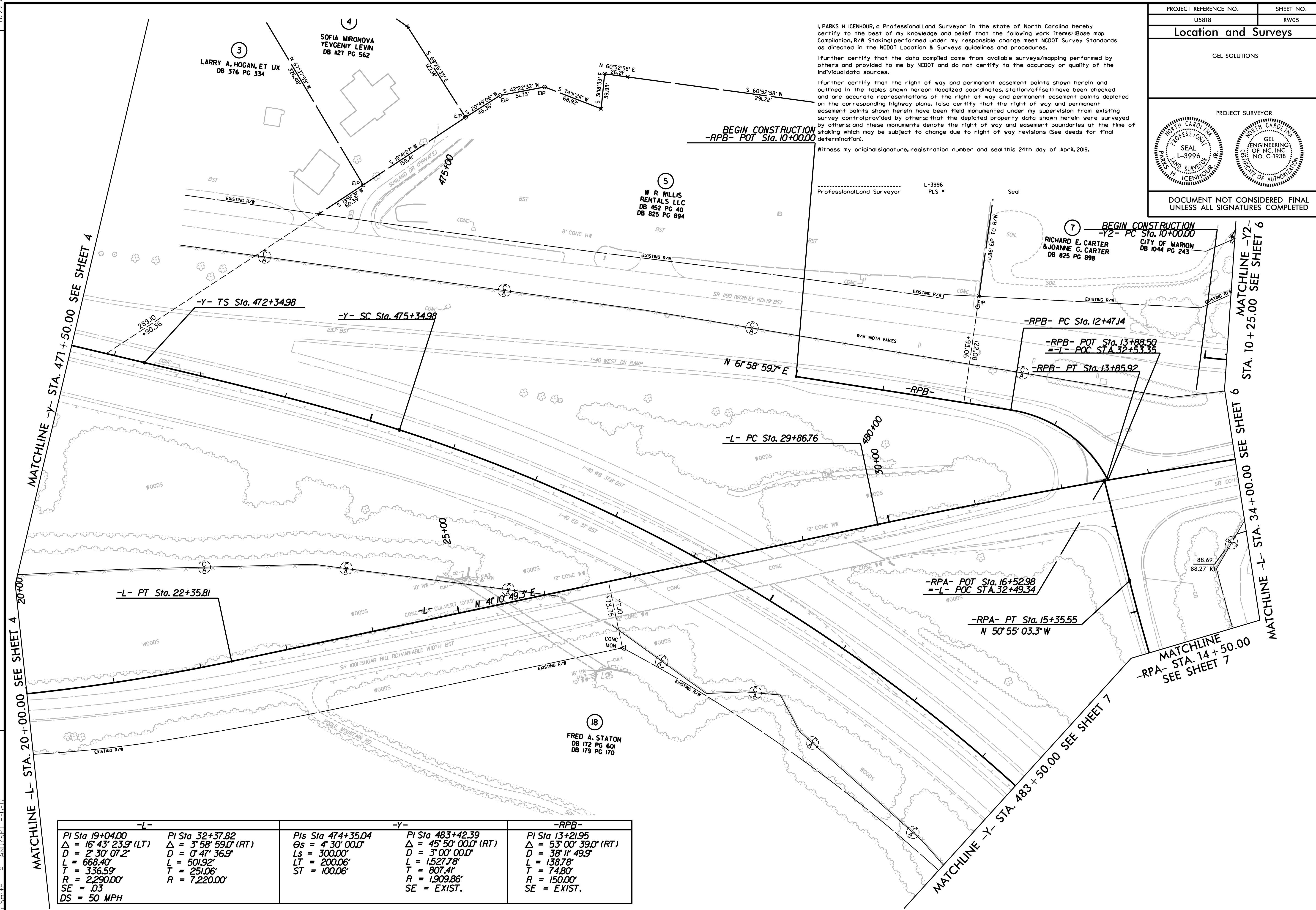
PROJECT REFERENCE NO.	SHEET NO.
US818	RW05
Location and Surveys	
GEL SOLUTIONS	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, PARKS H ICENHOUR, 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 24th day of April, 2019.



-L-		-Y-		-RPB-	
PI Sta 19+04.00	PI Sta 32+37.82	PIs Sta 474+35.04	PI Sta 483+42.39	PI Sta 13+21.95	
$\Delta = 16' 43'' 23.9''$ (LT)	$\Delta = 3' 58'' 59.0''$ (RT)	$\Theta_s = 4' 30'' 00.0''$	$\Delta = 45' 50'' 00.0''$ (RT)	$\Delta = 53' 00'' 39.0''$ (RT)	
$D = 2' 30'' 07.2''$	$D = 0' 47'' 36.9''$	$L_s = 300.00'$	$D = 3' 00'' 00.0''$	$D = 38' 11'' 49.9''$	
$L = 668.40'$	$L = 501.92'$	$LT = 200.06'$	$L = 1527.78'$	$L = 138.78'$	
$T = 336.59'$	$T = 251.06'$	$ST = 100.06'$	$L = 807.41'$	$T = 74.80'$	
$R = 2,290.00'$	$R = 7,220.00'$		$R = 1,909.86'$	$R = 150.00'$	
$SE = 03$			$SE = EXIST.$	$SE = EXIST.$	
$DS = 50$ MPH					

REVISIONS

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 6/2/19 10:51 AM
 ANDY SMITH

MATCHLINE -L- STA. 20+00.00 SEE SHEET 4

MATCHLINE -Y- STA. 471+50.00 SEE SHEET 4

MATCHLINE -Y- STA. 483+50.00 SEE SHEET 7

MATCHLINE -RPA- STA. 14+50.00 SEE SHEET 7

MATCHLINE -L- STA. 34+00.00 SEE SHEET 6

MATCHLINE -Y2- STA. 10+25.00 SEE SHEET 6

6/2/19

REVISIONS

24 APR 2019 2:37:21 PM
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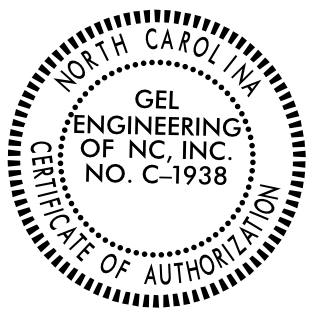
I, PARKS H ICENHOUR, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & 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.

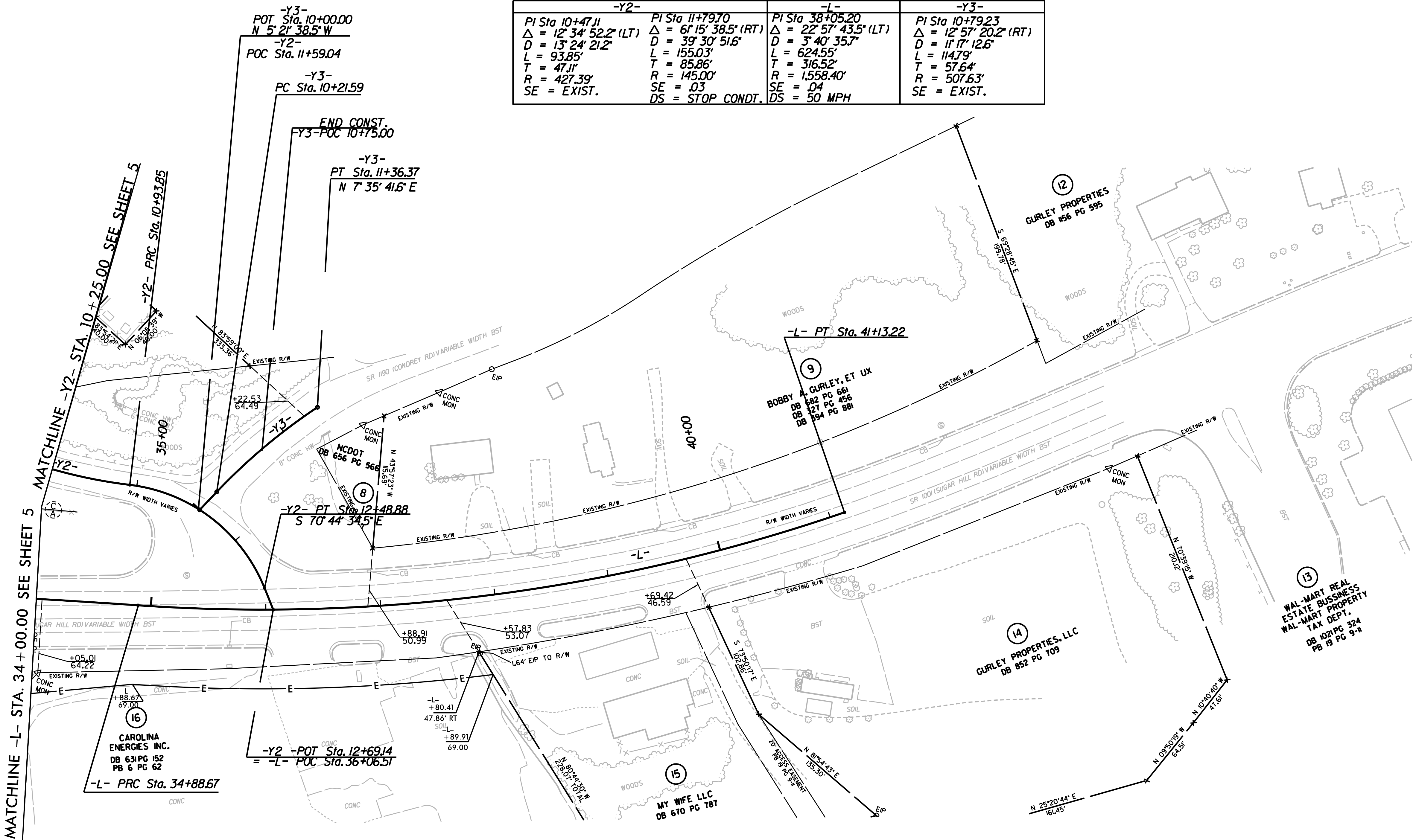
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway 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 24th day of April, 2019.

Professional Land Surveyor L-3996 Seal
 PLS #

PROJECT REFERENCE NO.	SHEET NO.
US818	RW06
Location and Surveys	
GEL SOLUTIONS	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-Y2-	-L-	-Y3-
PI Sta 10+47.11	PI Sta 38+05.20	PI Sta 10+79.23
$\Delta = 12^{\circ} 34' 52.2''$ (LT)	$\Delta = 22^{\circ} 57' 43.5''$ (LT)	$\Delta = 12^{\circ} 57' 20.2''$ (RT)
D = 13' 24' 21.2"	D = 3' 40' 35.7"	D = 11' 17' 12.6"
L = 93.85'	L = 624.55'	L = 114.79'
T = 47.11'	T = 316.52'	T = 57.64'
R = 427.39'	R = 1,558.40'	R = 507.63'
SE = EXIST.	SE = .04	SE = EXIST.
	DS = 50 MPH	



MATCHLINE -L- STA. 34+00.00 SEE SHEET 5

MATCHLINE -Y2- STA. 10+25.00 SEE SHEET 5

-L- PT Sta. 41+13.22

16
 CAROLINA ENERGIES INC.
 DB 631 PG 152
 PB 6 PG 62
 -L- PRC Sta. 34+88.67

-Y2- POT Sta. 12+69.14
 -L- POC Sta. 36+06.51

8
 -Y2- PT Sta. 12+48.88
 S 70° 44' 34.5" E

15
 MY WIFE LLC
 DB 670 PG 787

14
 CURLEY PROPERTIES, LLC
 DB 852 PG 109

13
 WAL-MART REAL ESTATE BUSINESS
 WAL-MART TAX DEPT.
 DB 1021 PG 324
 PB 19 PG 9-N

9
 BOBBY A. CURLEY, ET UX
 DB 682 PG 661
 DB 627 PG 456
 DB 634 PG 681

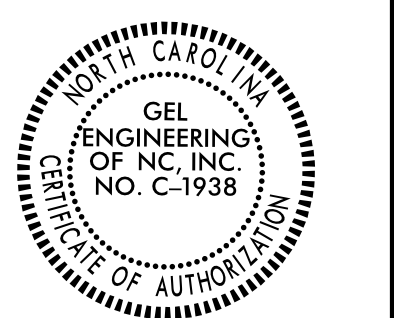
12
 CURLEY PROPERTIES
 DB 156 PG 595

6/2/19

Location and Surveys

GEL SOLUTIONS

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, PARKS H ICENHOUR, 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 24th day of April, 2019.

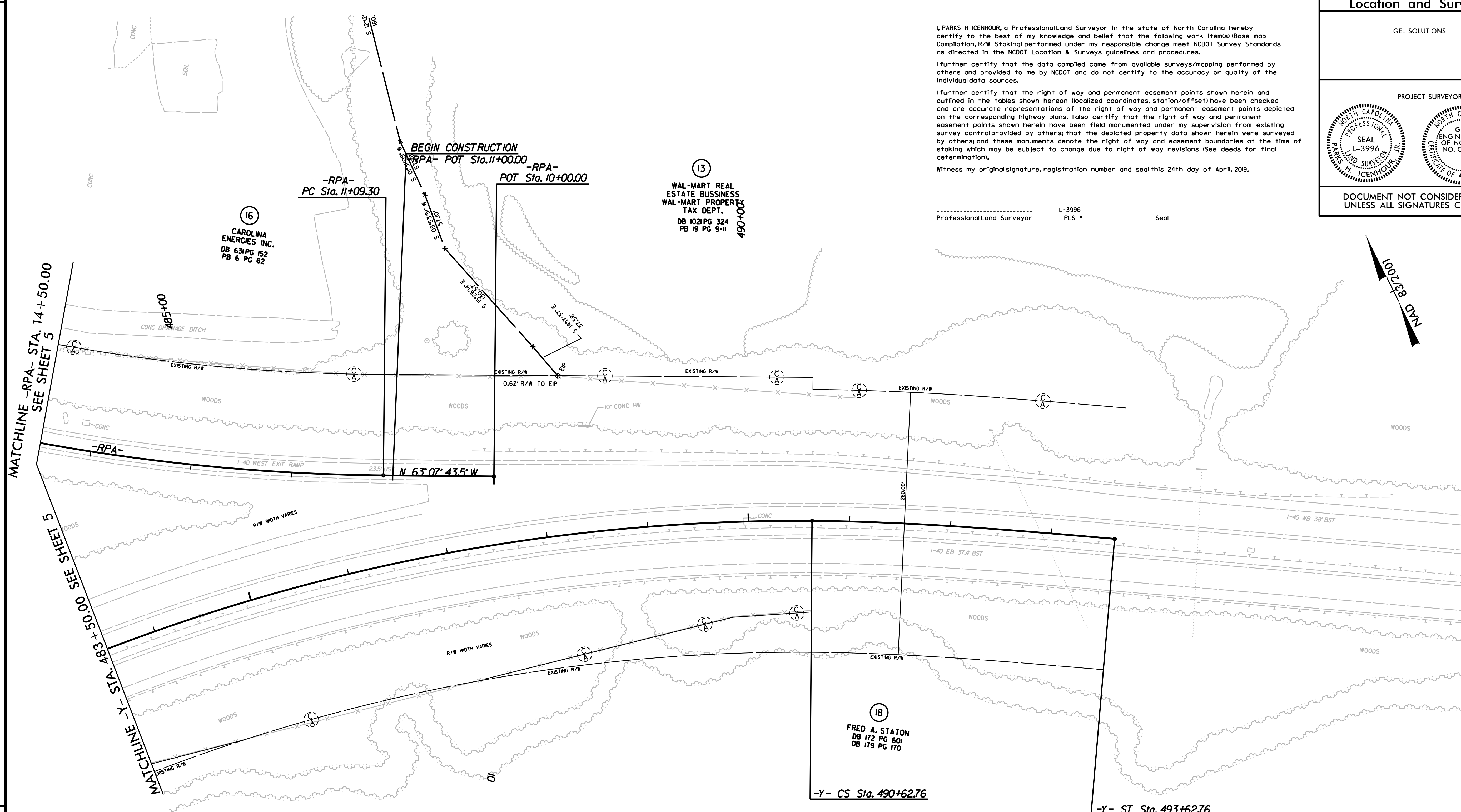
Professional Land Surveyor L-3996 PLS Seal

13 WAL-MART REAL ESTATE BUSINESS WAL-MART PROPERTY TAX DEPT. DB 1021 PG 324 PB 19 PG 9-11 490+06

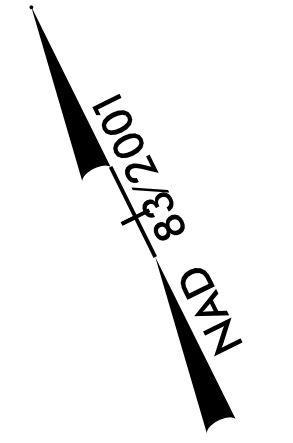
16 CAROLINA ENERGIES INC. DB 631 PG 152 PB 6 PG 62

18 FRED A. STATON DB 172 PG 601 DB 179 PG 170

18 FRED A. STATON DB 172 PG 601 DB 179 PG 170



-Y-		-RPA-
PI Sta 483+42.39	PIs Sta 491+62.82	PI Sta 13+23.24
$\Delta = 45^\circ 50' 00.0''$ (RT)	$\Theta_s = 4^\circ 30' 00.0''$	$\Delta = 12^\circ 12' 40.2''$ (RT)
$D = 3^\circ 00' 00.0''$	$L_s = 300.00'$	$D = 2^\circ 51' 53.2''$
$L = 1,527.78'$	$LT = 200.06'$	$L = 426.25'$
$T = 807.41'$	$ST = 100.06'$	$T = 213.94'$
$R = 1,909.86'$		$R = 2,000.00'$
$SE = EXIST.$		$SE = 04$
		$DS = STOP CONDT.$



REVISIONS

24 APR 2019 2:33:39 PM
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