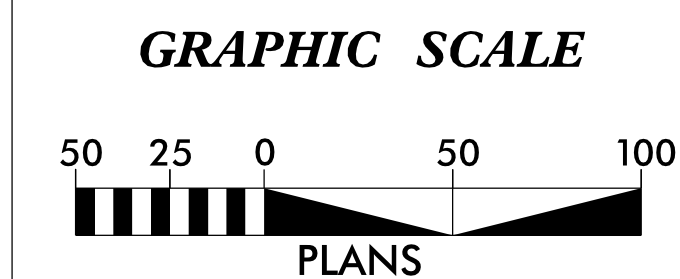
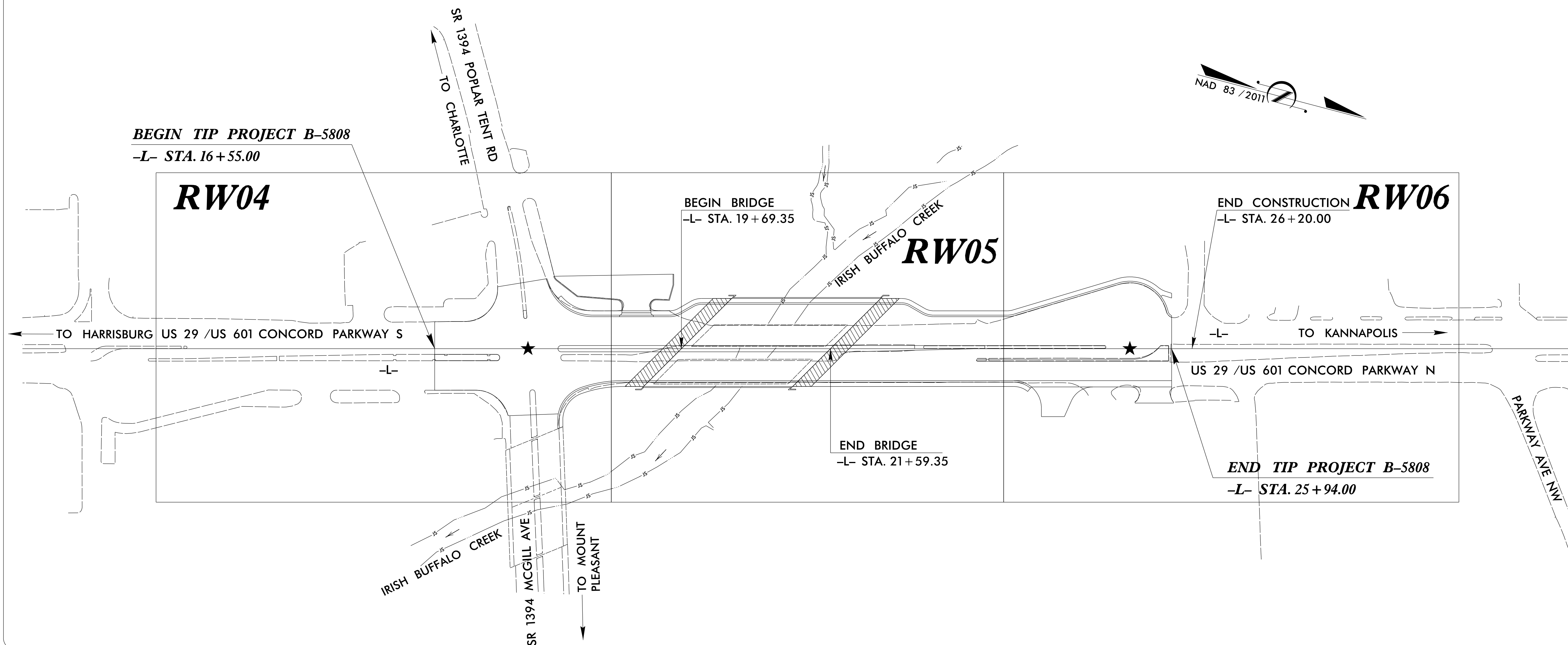


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B5808	RW01	4

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 SURVEY CONTROL, EXISTING CENTERLINES,  
 RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

**CABBARUS COUNTY**

**TIP PROJECT: B5808**



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "P5" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 609,444.661(ft) EASTING: 1,518,826.846(ft) ELEVATION: 607.022(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99985434 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "P5" TO -L- STATION 16+55 IS N 82-52'57.4" E 590.17(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

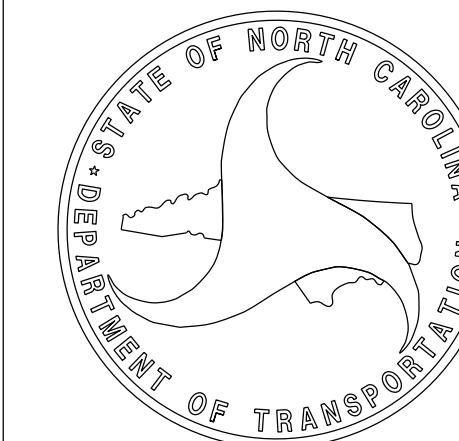
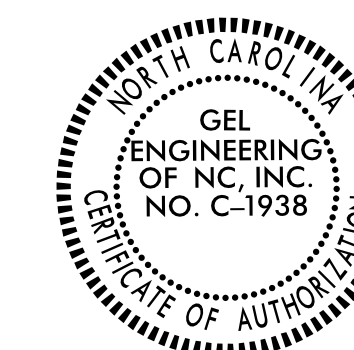
**GEL SOLUTIONS**

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
07/13/2021

**LETTING DATE:**  
05/17/2022

PROFESSIONAL LAND SURVEYOR



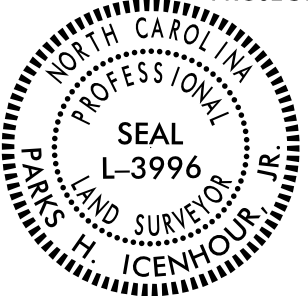
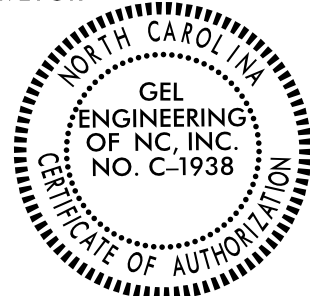
SIGNATURE:

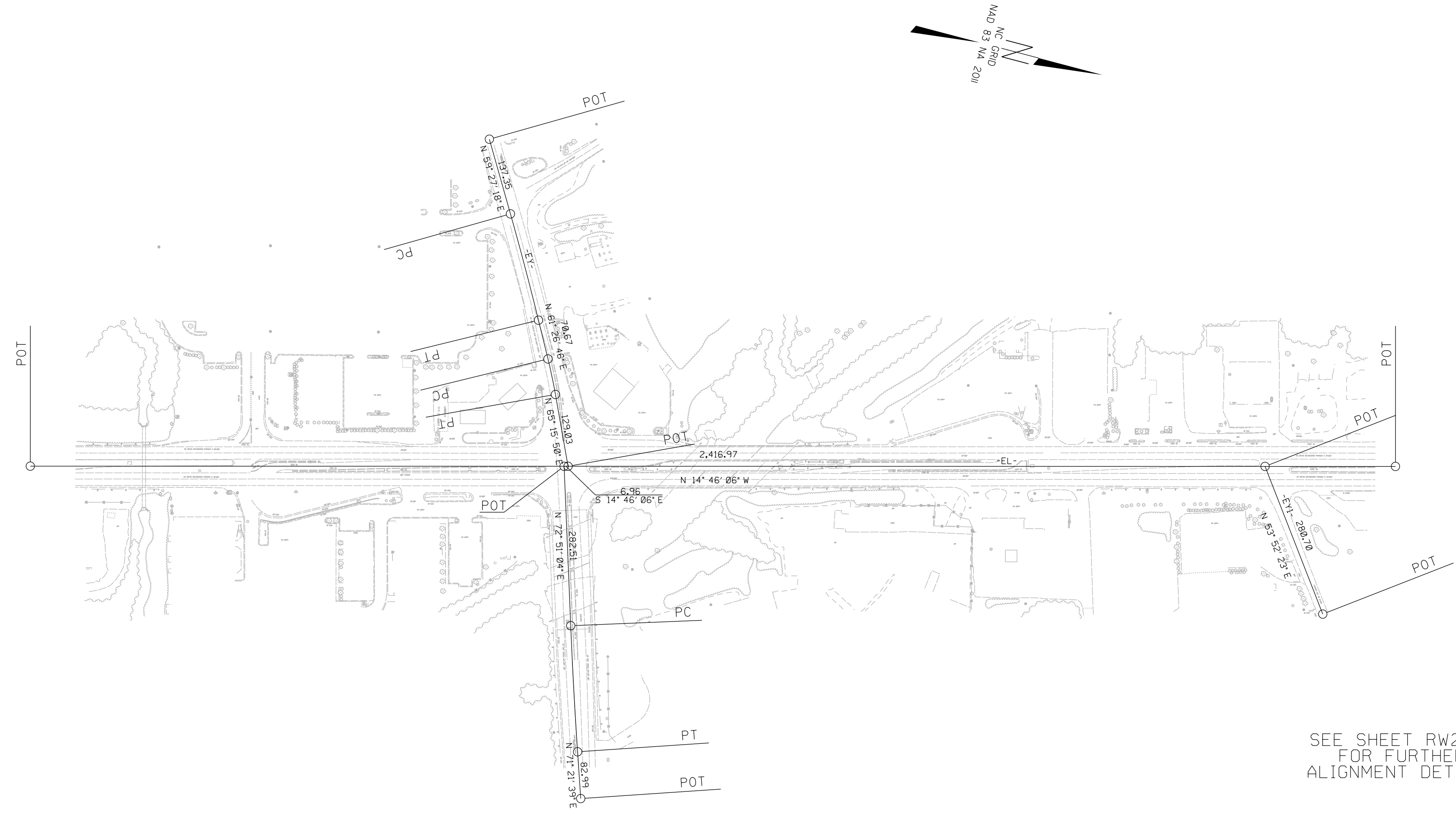
Date:

# SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

CONTROL SHEET PRODUCED BY GEL SOLUTIONS  
NO SURVEY CONTROL PERFORMED BY GEL SOLUTIONS

PROJECT REFERENCE NO. B5808	SHEET NO. RW02C-1
Location and Surveys	
<b>GEL SOLUTIONS</b>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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

CONTROL SHEET PRODUCED BY GEL SOLUTIONS  
NO SURVEY CONTROL PERFORMED BY GEL SOLUTIONS

PROJECT REFERENCE NO.	SHEET NO.
B5808	RW02C-2
Location and Surveys	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		B5808-1	608384.1020	1519764.4650	648.67
2		B5808-2	609207.4040	1519448.7910	615.04
5		BL5	609679.6830	1519381.4730	612.37
3		B5808-3	610473.2560	1519213.2240	611.36
4		B5808-4	611123.8650	1519050.2020	640.54

BY	POINT	DESC.	NORTH	EAST	ELEVATION
6		BY6	609418.0050	1519033.4830	624.16
5		BL5	609679.6830	1519381.4730	612.37
7		BY7	609709.4760	1519739.6820	607.48

.....  
 BM1 ELEVATION = 621.73  
 N 609026 E 1519351  
 SPIKE SET IN 15" OAK  
 .....

.....  
 BM2 ELEVATION = 611.14  
 N 609813 E 1519261  
 STUD IN CONCRETE GAS STATION SIGN BASE  
 .....

### NOTES:


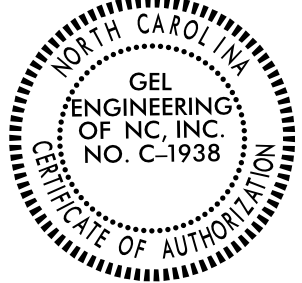
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

# SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

CONTROL SHEET PRODUCED BY GEL SOLUTIONS  
 NO SURVEY CONTROL PERFORMED BY GEL SOLUTIONS

PROJECT REFERENCE NO. B5808	SHEET NO. RW02C-3
Location and Surveys	
<b>GEL SOLUTIONS</b>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL

POINT	N	E	BEARING	DIST
POT	608717.757	1519629.798		
LINE			N 14°46'06.2" W	2416.97
POT	611054.885	1519013.682		

EY

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	609356.010	1518862.813							
LINE			N 59°27'18.3" E	137.35					
PC	609425.815	1518981.106	N 60°27'02.0" E	194.58	01°59'27.5"(RT)	01°01'23.3"	194.59	97.31	5600.00
CURVE									
PT	609521.779	1519150.381	N 61°26'45.8" E	70.67					
LINE									
PC	609555.557	1519212.452	N 63°21'17.9" E	64.29	03°49'04.2"(RT)	05°56'14.6"	64.30	32.16	965.00
CURVE									
PT	609584.388	1519269.914	N 65°15'50.0" E	129.03					
LINE									
POT	609638.378	1519387.103	N 65°15'50.0" E	129.03					
LINE									
POT	609631.652	1519388.876	S 14°46'06.2" E	6.96					
LINE									
PC	609714.952	1519658.826	N 72°51'04.0" E	282.51					
CURVE									
PT	609783.630	1519871.533	N 72°06'21.7" E	223.52	01°29'24.6"(LT)	00°40'00.0"	223.53	111.77	8594.37
LINE									
POT	609810.153	1519950.168	N 71°21'39.4" E	82.99					

EY1

POINT	N	E	BEARING	DIST
POT	610831.624	1519072.538		
LINE			N 53°52'23.0" E	280.70
POT	610997.116	1519299.261		

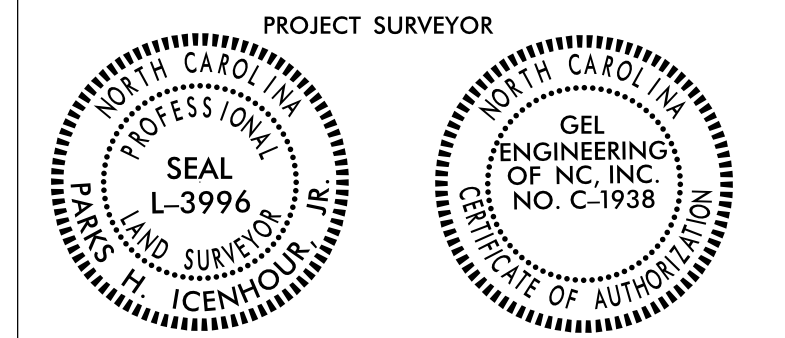
**NOTES:**

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.

# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
B5808	RW02D-1

## Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Parks H Icenhour Jr, PLS, 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.

This 16th day of September, 2021.

Professional Land Surveyor L-3996

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	608884.4545	1519579.5560
POT	32+00.00	611011.6706	1519018.3505

Y



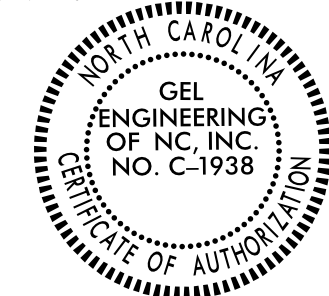
TYPE	STATION	NORTH	EAST
POT	14+00.00	609339.0779	1518833.5731
PC	14+51.33	609365.4420	1518877.6143
PCC	18+29.73	609552.1952	1519206.6863
PT	21+17.35	609663.4290	1519471.4455
POT	24+00.00	609747.6350	1519741.2650

REVISIONS

### NOTES:

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

# RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. B5808	SHEET NO. RW03E-1
Location and Surveys	
	
PROJECT SURVEYOR	
 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST	
L	17+91.12	-100.00	609623.8895	1519281.0555	MAG NAIL SET
L	18+35.00	-54.06	609678.0393	1519314.2815	
L	18+39.49	85.00	609717.8496	1519447.5967	
L	19+70.00	-105.00	609795.5786	1519230.5891	
L	19+70.00	-54.06	609808.5743	1519279.8485	
L	22+50.00	-105.00	610066.3152	1519159.1630	
L	23+50.00	-80.00	610169.3842	1519157.8266	
L	24+20.00	85.00	610279.1587	1519299.5112	
L	24+20.00	65.96	610274.3023	1519281.1033	
L	24+88.20	-79.70	610303.0906	1519122.8653	MAG NAIL SET

PERMANENT EASEMENT IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST	
L	18+56.27	-97.84	609687.4333	1519266.5201	MAG NAIL SET
L	18+61.70	-93.29	609693.8478	1519269.5391	MAG NAIL SET
L	18+65.27	-97.55	609696.2140	1519264.5116	MAG NAIL SET
L	19+70.00	-94.08	609798.3635	1519241.1453	
L	20+15.00	-105.00	609839.0898	1519219.1099	
L	20+15.00	-125.00	609833.9880	1519199.7716	
L	20+52.00	-125.00	609869.7639	1519190.3331	
L	20+52.00	-105.00	609874.8657	1519209.6715	
L	22+82.06	105.00	610150.8857	1519354.0367	MAG NAIL SET
L	22+88.23	-95.44	610105.7217	1519158.6520	
L	23+10.10	92.00	610174.6805	1519334.3143	
L	23+25.20	85.00	610187.4931	1519323.6946	
L	24+20.00	105.00	610284.2606	1519318.8495	MARK IN CONCRETE
L	24+77.54	-88.73	610290.4727	1519116.8503	MAG NAIL SET
L	25+14.05	-87.44	610326.1106	1519108.7868	MAG NAIL SET
L	25+69.15	-85.48	610379.8832	1519096.6202	
L	26+01.05	-84.35	610411.0186	1519089.5755	
L	26+01.32	-68.95	610415.2050	1519104.4033	

I, Parks H. Icenhour Jr., 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 09/07/2021 to 09/15/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 58.1600 as applicable.

This 16th day of September, 2021.

Professional Land Surveyor L-3996

REVISIONS

15-SEP-2021 16:54  
C:\B5808\B5808\_1s\_rw03e-1.dwg  
Andy Smith

**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.
- RIGHT OF WAY MONUMENTATION ESTABLISHED 09/07/21 TO 09/15/21 .



6/2/09

PROJECT REFERENCE NO.	SHEET NO.
B5808	RW04

Location and Surveys



PROJECT SURVEYOR

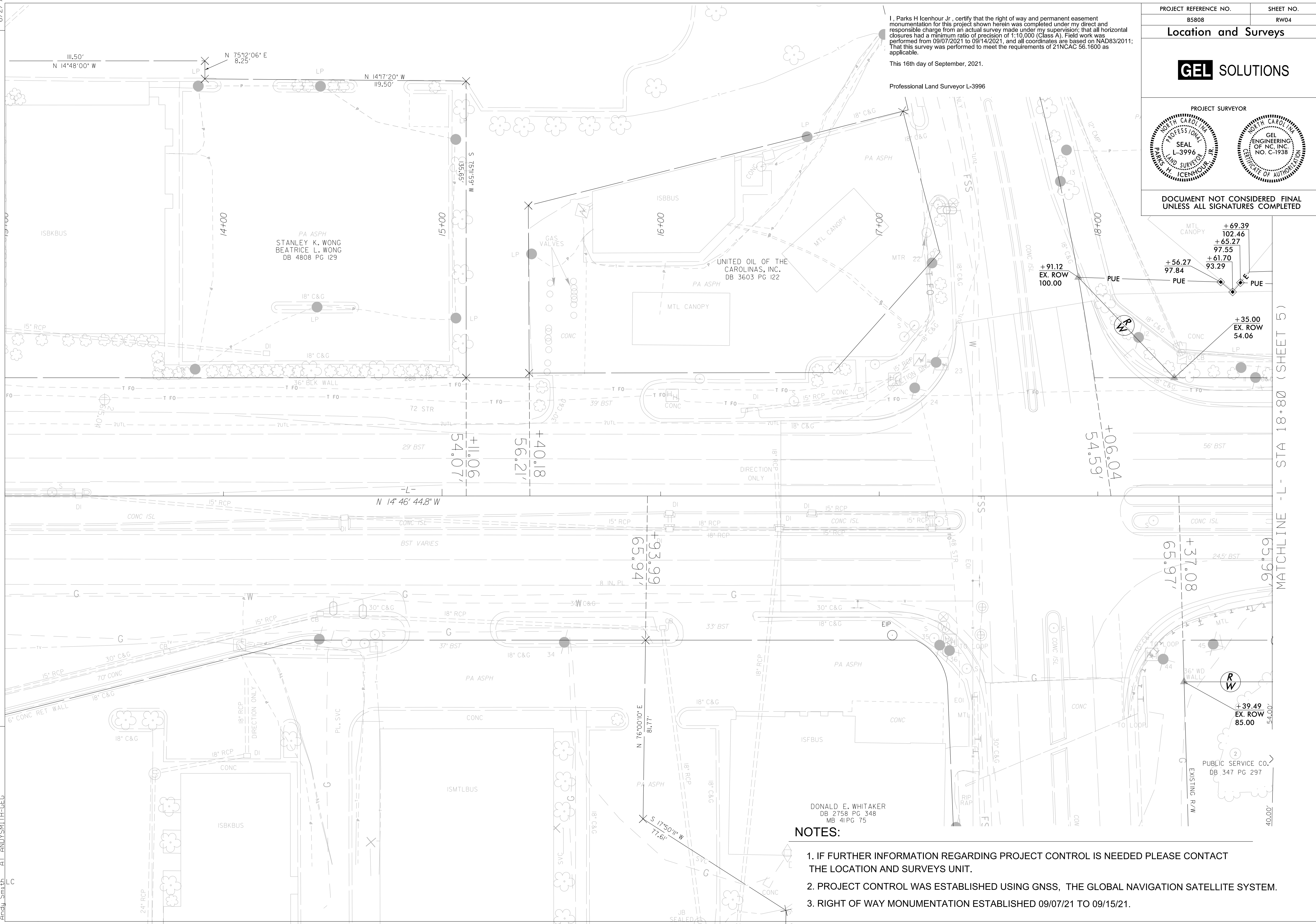
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Parks H Icenhour Jr., 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 09/07/2021 to 09/14/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 16th day of September, 2021.

Professional Land Surveyor L-3996

REVISIONS



15-SEP-2021 15:08  
 P:\5808\B5808\_1s\_rw04.dwg  
 Andy Smith  
 AT ANDY SMITH-GEG

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 09/07/21 TO 09/15/21.

MATCHLINE - L - STA 18+80 ( SHEET 5 )

40.00'

+39.49 EX. ROW 85.00

+37.08

65.97'

+06.04

+91.12 EX. ROW 100.00

+56.27 EX. ROW 97.84

+61.70 EX. ROW 93.29

+65.27 EX. ROW 97.55

+69.39 EX. ROW 102.46

+54.00'

+93.99

65.94'

+40.18

56.21'

+11.06

54.07'

N 14°46'44.8" W

N 14°48'00" W

N 75°12'06" E 8.25'

N 14°17'20" W 119.50'

S 75°11.55" W 135.65'

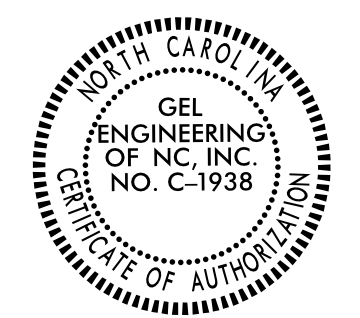
N 76°00'10" E 81.77'

S 17°50'11" W 77.61'

Location and Surveys



PROJECT SURVEYOR

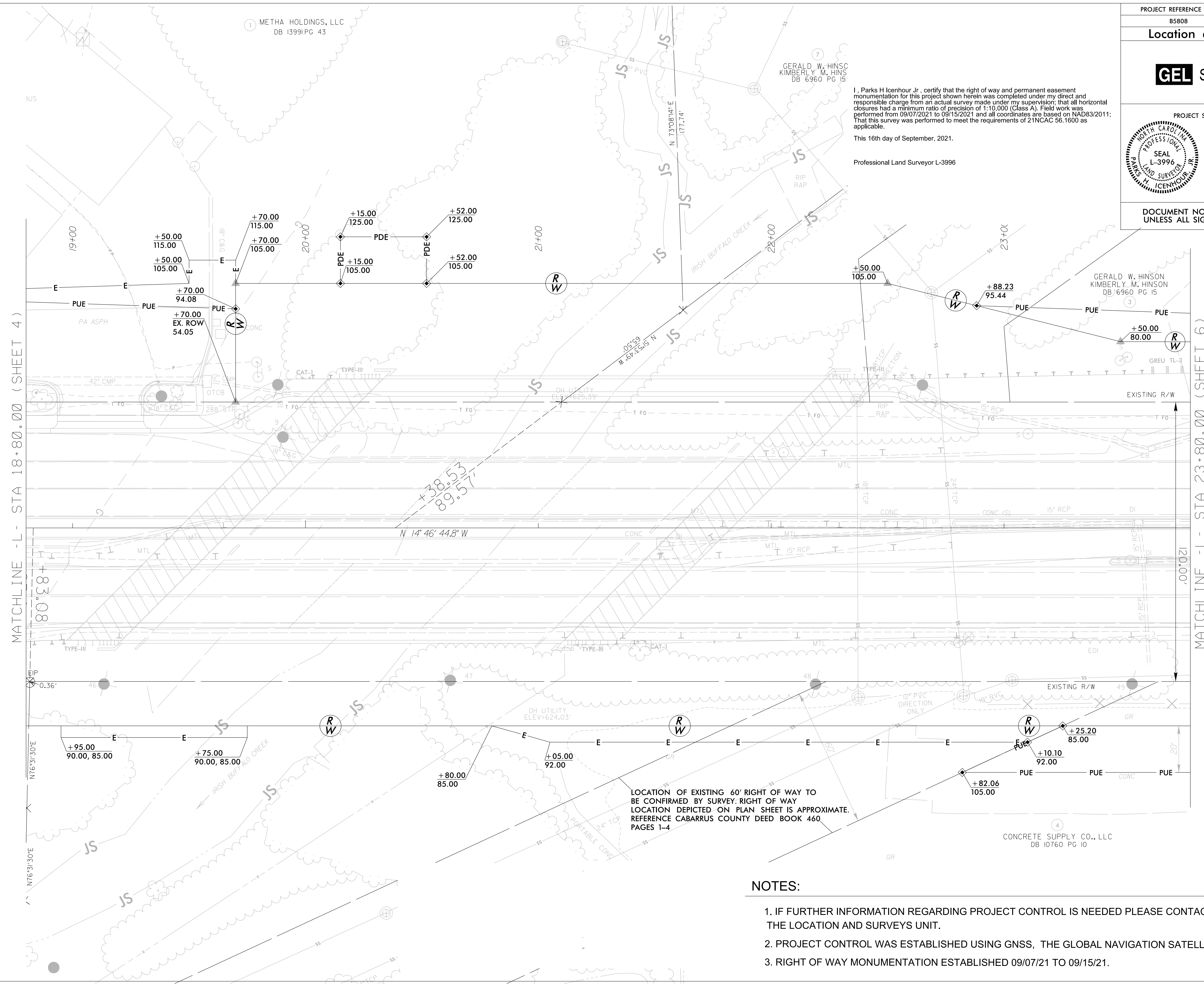


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Parks H Icenhour Jr., 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 09/07/2021 to 09/15/2021 and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 16th day of September, 2021.

Professional Land Surveyor L-3996



REVISIONS

15-SEP-2021 15:31  
 P:\5808\B5808\_1.dwg  
 Andy Smith  
 AT ANDY SMITH-GEG

NOTES:

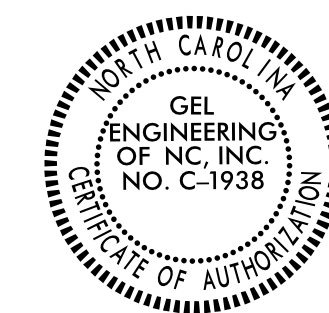
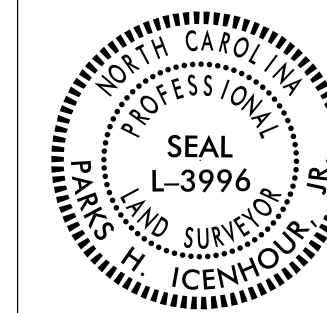
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 09/07/21 TO 09/15/21.



Location and Surveys



PROJECT SURVEYOR

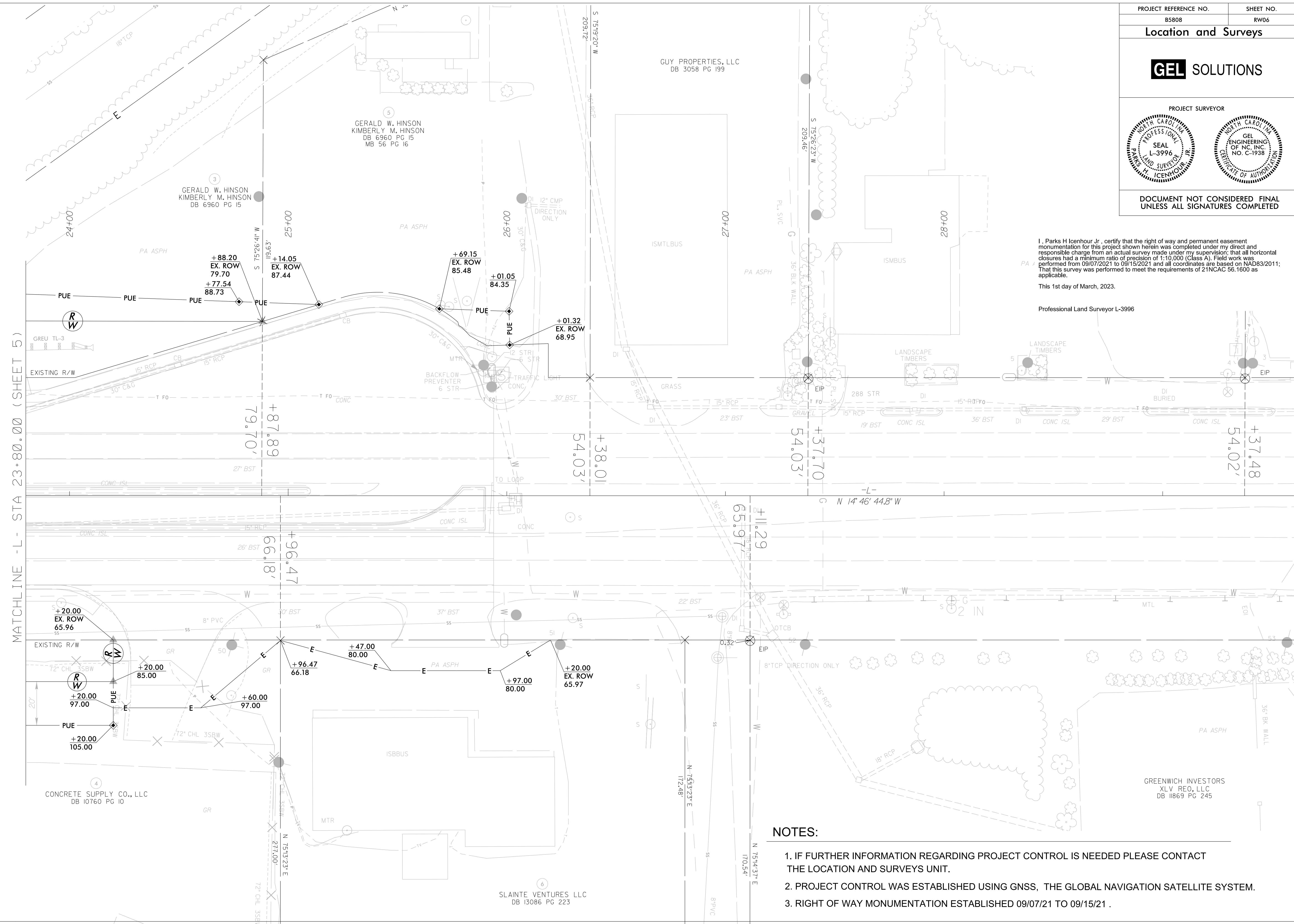


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Parks H Icenhour Jr., 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 09/07/2021 to 09/15/2021 and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of March, 2023.

Professional Land Surveyor L-3996



MATCHLINE L - L - STA 23+80.00 (SHEET 5)

REVISIONS

01.MAR.2023 16:53 C:\Users\andy\OneDrive\Documents\Projects\B5808\_1s\_rw06.dgn  
 ANDY SMITH  
 L.S.

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 09/07/21 TO 09/15/21 .