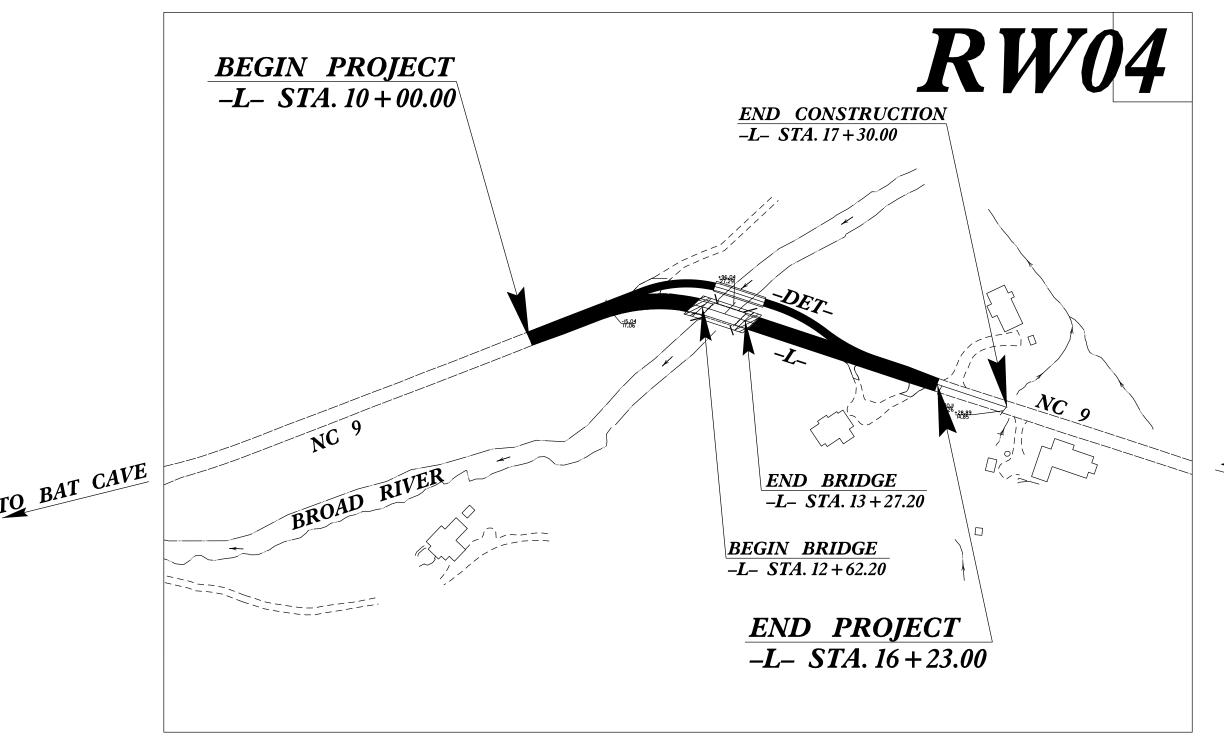
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE STATE PROJECT REFERENCE NO. SHEET NO. SHEETS NO. BR0009 \mathbb{R} W01

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

BUNCOMBE COUNTY





TO BLACK MOUNTAIN

GRAPHIC SCALE

50 25 0 50 100

PLANS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BR0009-2"
WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 663,178.379(ft) EASTING: 1,032,849.176(ft) ELEVATION: 2,208.82(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999783632
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BR0009-2" TO -L- STATION 10+00.00 IS

S 06-19'19.69" E 1,451.721(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:



2018 STANDARD SPECIFICATIONS

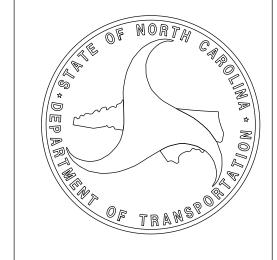
RIGHT OF WAY DATE: January 23rd, 2019

LETTING DATE: January 21st, 2020





Date:



\$\$\$\$\$\$YSTIME\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$USERNAME\$\$\$

SIGNATURE:

SURVEY CONTROL SHEET

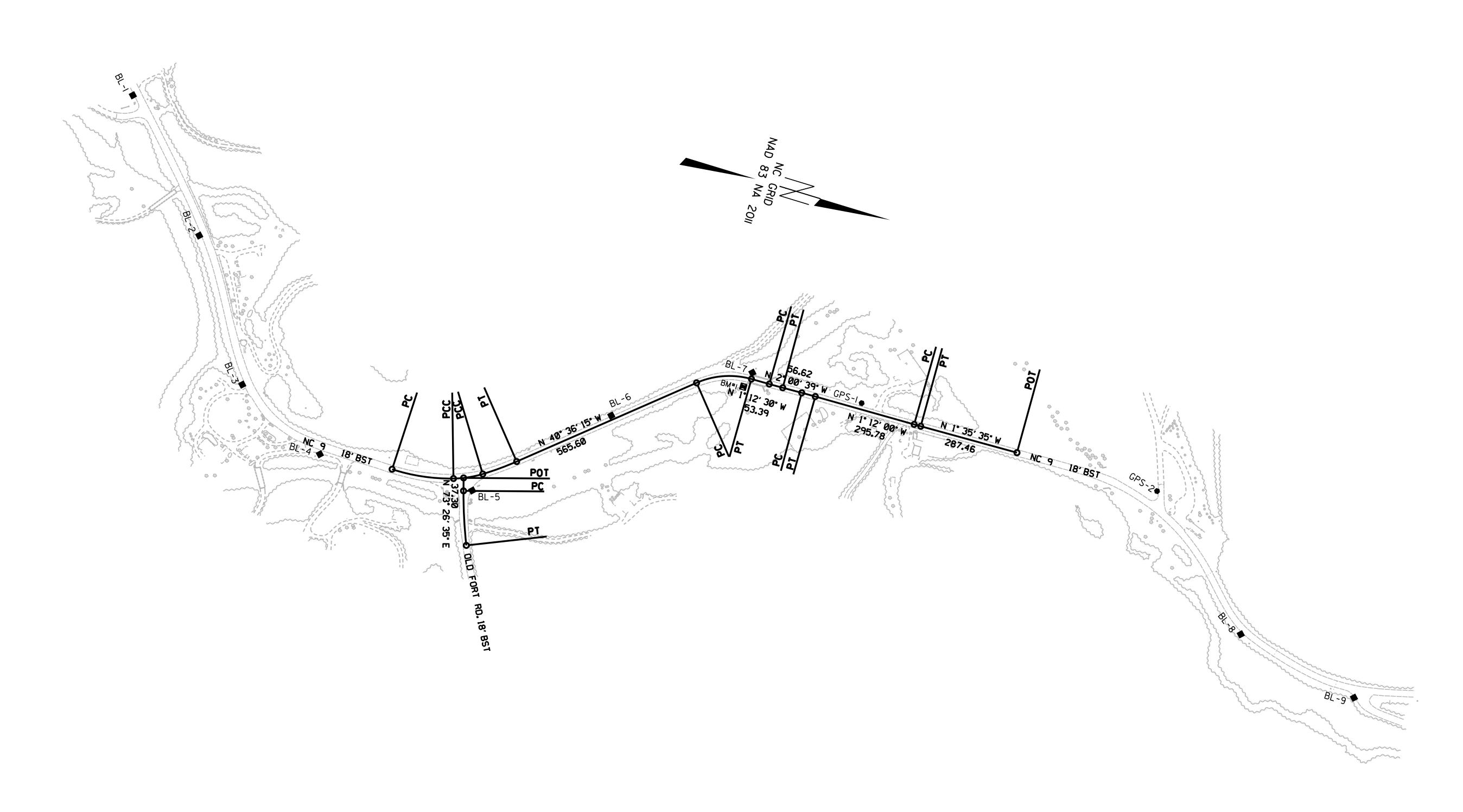
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO.

BR0009 RW02C-1

Location and Surveys

GEL SOLUTIONS



SEE SHEET RW02C-2 FOR FUTHER ALIGNMENT DETAILS

NOTES:

- I. 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.

9	
\sim	
\	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

***************************************	***************************************
BR0009	RW02C-2
Location and S	urveys

GEL SOLUTIONS

BR0009 CONTROL AND CENTERLINE ALIGNMENT

BL				
POINT	DESC.	NORTH	EAST	ELEVATION
1	BL - 1	660024.4730	1032618.5710	2157.90
2	BL - 2	660325.1370	1032949.3110	2161.63
3	BL - 3	660568.9450	1033324.0640	2174.69
4	BL - 4	660840.0590	1033450.8690	2180.55
5	BL - 5	661291.5730	1033422.7100	2182.63
6	BL - 6	661611.6210	1033099.4420	2192.78
7	BL - 7	661964.1670	1032862.7550	2185.46
GPS1	BRØØØ9-1	662298.1311	1032857.5823	2194.28
GPS2	BRØØØ9-2	663178.3790	1032849.1760	2208.82
8	BL - 8	663529.1890	1033173.4660	2226.38
9	BL - 9	663894.3770	1033253.1060	2237.61

BM1 ELEVATION = 2181.13 N 661951 E 1032909 BL STATION 29+88.00 31 RIGHT BENCH NAIL SET IN SPLIT OAK TREE

FΙ

POINT	N	E	BEARING	DIST	DELTA		L	T	R
PC	661052.930	1033431.495							
CURVE			N Ø8°21′46.7" W	178.69	18°50′52.2"(LT)	10°30′00 . 0"	179.50	90.57	545.67
PCC	661229.725	1033405.505							
CURVE			N 25°44′53.0" W	85.43	15°55′20.4"(LT)	18°34′41 . Ø"	85.71	43.13	308.41
PCC	661306.672	1033368.393							
CURVE			N 37°09′23.8" W	103.98	06°53′41.3"(LT)	Ø6°37′37 . 8"	104.04	52.08	864.56
PT	661389.540	1033305.592							
LINE	221212 252	4000007.405	N 40°36′14.5" W	565.60					
PC	661818.956	1032937.485	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	450.40		0.4000/50.00	104 50	0.4.40	205.66
CURVE	0010000010	400000000	N 20°54′22.1" W	158.42	39°23′44 . 9"(RT)	24°22′52 . 3"	<u> 161.58</u>	84.13	235.00
PT	661966.946	1032880.955	N. 61810/00 CH V	F2 20					
LINE	66200000000	1000070 000	N Ø1°12′29.6" W	53.39					
PC	662020.328	1032879.829	N @1°2C/24 28 V	40.10	00°40/00 4#/LT)	02.00/00 01	40.10	20.07	2064.70
CURVE	CC20C0 442	1022070 702	N Ø1°36′34.3" W	40.13	00°48′09.4"(LT)	02°00′00.0"	40.13	20.07	2864.79
PT	662060.442	1032878.702	N 02°00'20 0" W	56.62					
LINE PC	662117.028	1032876.715	N 02°00′39.0" W	36.62	+	+			
CURVE	002117.020	1032076.713	N Ø1°36′19.7" W	40.54	00°48′38.6"(RT)	02°00′00.0"	40.54	20.27	2864.79
PT	662157.548	1032875.580	N 61 30 1 3.7 W	TU.JT	00 40 30.0 ((())	02 00 00.0	TU.JT	20.27	2004.7)
LINE	002137:340	1032073.300	N 01°12′00.4" W	295.78	+	-			†
PC	662453,267	1032869.385	1, 21 12 22:1 W	2 /3:/ 0					
CURVE	302 133:237	100200 78000	N Ø1°23′47.8" W	19.65	00°23′34.8"(LT)	02°00′00 . 0"	19.65	9.83	2864.79
PT	662472.911	1032868.906	· · · · · · · · · · · · · · · · · · ·	1 1100	55 25 5 17	32 33 33.0	1 /100	7100	
LINE		1002001.00	N Ø1°35′35.2" W	287.46					
POT	662760.258	1032860.914							

ΕY

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	661257.117	1033395.261							
LINE			N 73°26′34.6" E	37.30					
PC	661267.748	1033431.018							
CURVE			N 70°05′53.2" E	157.32	06°41′22.9"(LT)	04°15′00 . 0"	157.40	78.79	1348.14
PT	661321.299	1033578.938							

NOTES:

||ME\$\$\$\$ \$\$\$\$\$\$\$\GN\$\$\$\$\$\$\$\$\$\$\$\$ \ME&&&

I. 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

Location	and	Surveys
BR-0009		RWD2–1
PROJECT REFERENC	E NO.	SHEET NO.

GEL SOLUTIONS

		L	
TYPE	STATION	NORTH	EAST
POT	10.00.00	661735.4868	1033009.0371
PC	11.06.75	661816.5316	1032939.5634
PT	12.78.68	661974.0025	1032879.4246
POT	17.30.00	662425.2247	1032869.9720

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.

Ifurther 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 17th day of January, 2019.

ProfessionalLand Surveyor

L-3996 PLS #





NOTES:

I. 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 INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

RIGHT OF WAY CONTROL SHEET

I, PARKS H ICENHOUR, a ProfessionalLand 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.

Ifurther 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 17th day of January, 2019.

L-3996
ProfessionalLand Surveyor PLS *

Location	and	Surveys	

PROJECT REFERENCE NO.

BR0009

GEL SOLUTIONS

PROJECT SURVEYOR



GEL
ENGINEERING
OF NC, INC.
NO. C-1938

SHEET NO.

RWE3-1

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER REBAR AND CAP

	ROW	MARKER REB	<u>AR AND CAP</u>		_
AL I GN	STATION	OFFSET	NORTH	EAST	
L	10.00.00	-25.00	661719.2161	1032990.0564	
L	10.00.00	-14.00	661726.3752	1032998.4079	
L	10.00.00	40.00	661761.5199	1033039.4061	
L	10.00.00	14.00	661744.5984	1033019.6662	
L	11.05.00	40.00	661841.2386	1032971.0692]
L	16.23.00	30.00	662318.8810	1032902.2063	
L	16.23.00	14.00	662318.5414	1032886.2100];
L	11.50.00	-30.00	661836.3239	1032888.5889] 1
L	12.15.00	-40.00	661900.3055	1032850.3185	
L	15.20.00	-30.00	662214.6424	1032844.3769	
L	13.55.00	-45.00	662049.3645	1032832.8360	
L	16.23.00	-30.00	662317.6243	1032842.2195	
L	16.23.00	-14.00	662317.9550	1032858.2161	
L	12.20.00	40.00	661926.1327	1032926.1955	
L	13.60.00	40.00	662056.1436	1032917.7126	
L	13.60.00	30.00	662055.9342	1032907.7148	

30" REBAR SET 6" FROM UTILITY LINE.
18" REBAR SET DUE TO ROCK

18' REBAR SET DUE TO ROCK 2' FROM UTILITY LINE.

PERMANENT EASEMENT REBAR AND CAP

AL I GN	STATION	OFFSET	NORTH	EAST
L	10.80.00	40.00	661822.2579	1032987.3399
L	15.00.00	30.00	662195.9035	1032904.7826
L	17.00.00	-14.00	662394.9381	1032856.6034
L	16.95.00	-60.00	662388.9757	1032810.7182
L	17.15.00	-60.00	662408.9713	1032810.2993
L	17.20.00	-14.00	662414.9337	1032856.1845
L	11.05.00	-25.56	661798.5733	1032921.2978
L	11.25.00	-26.41	661815.1326	1032906.9500
L	11.15.00	-55.00	661788.4875	1032891.3801
L	11.30.00	-50.00	661805,9891	1032884,4522

NOTES:

- I. 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.

