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09/28/19

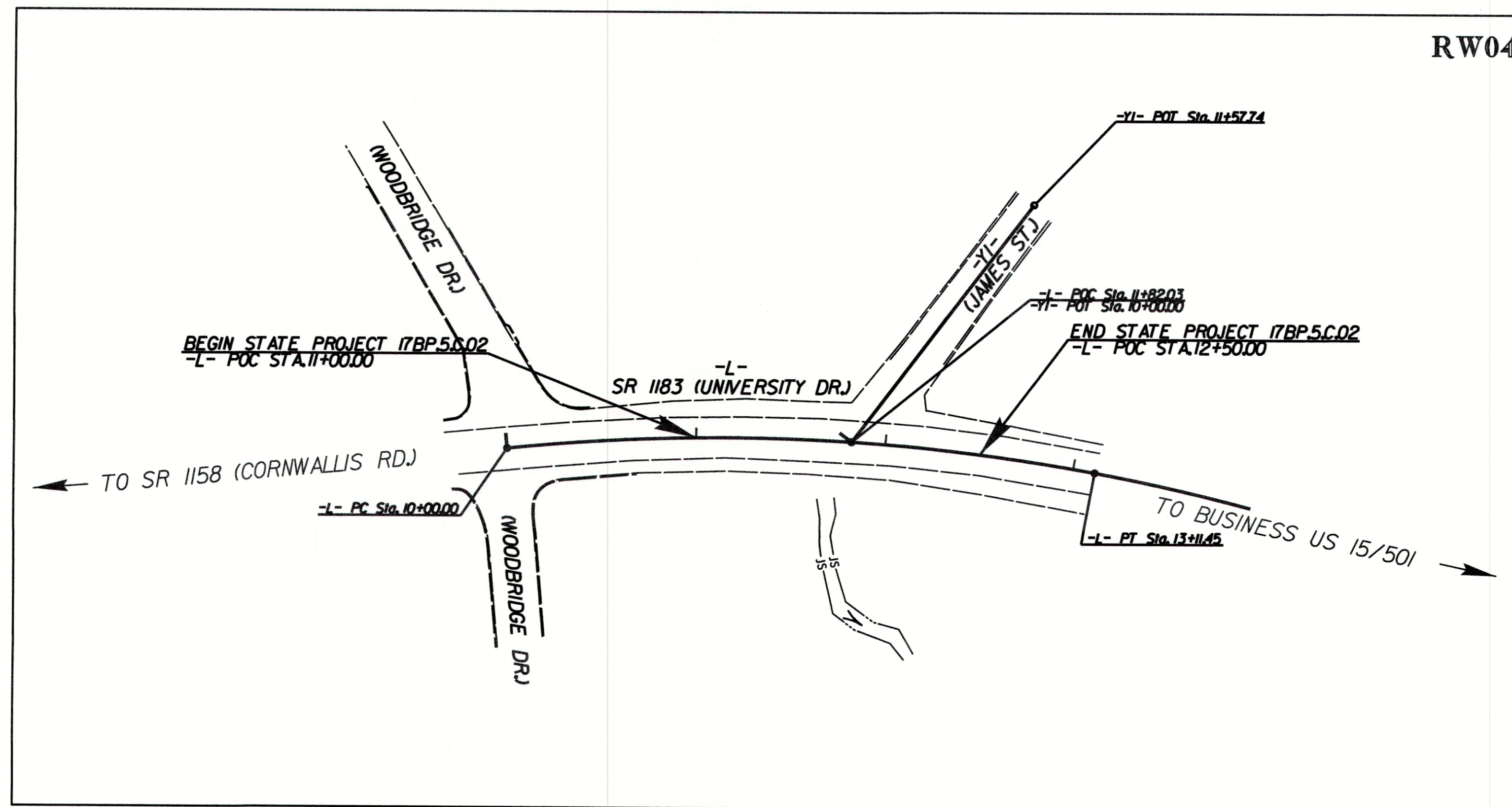
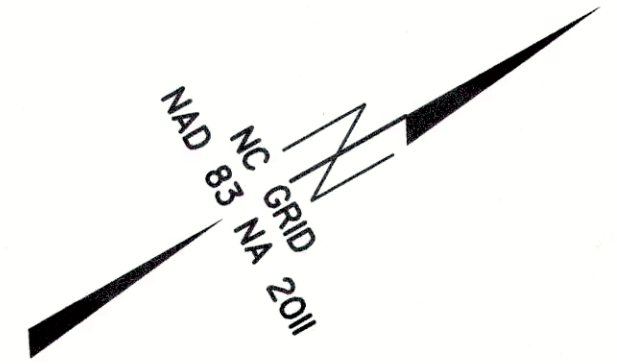
TIP PROJECT: 17BP.5.C.02

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

DURHAM COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.5.C.02	RW01	4



\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

GRAPHIC SCALE



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "GPS-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 809726.795(ft) EASTING: 2022107.793(ft) ELEVATION: 322.44(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99994193

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-1" TO -L- STATION 10+00.00 IS S16°00'54"E 445.13'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2017 STANDARD SPECIFICATIONS

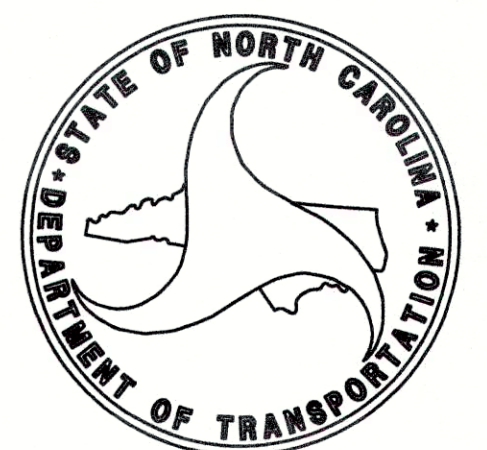
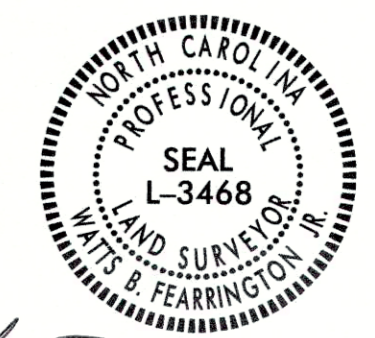
RIGHT OF WAY DATE:

MARCH 9, 2018

LETTING DATE:

JUNE 12, 2018

PROFESSIONAL LAND SURVEYOR



W. B. Fearington
SIGNATURE

6/2/99

PROJECT REFERENCE NO.	SHEET NO.
17BP.5.C.02	RW02C-1
Location and Surveys	

SURVEY CONTROL SHEET US-15-501 BUS

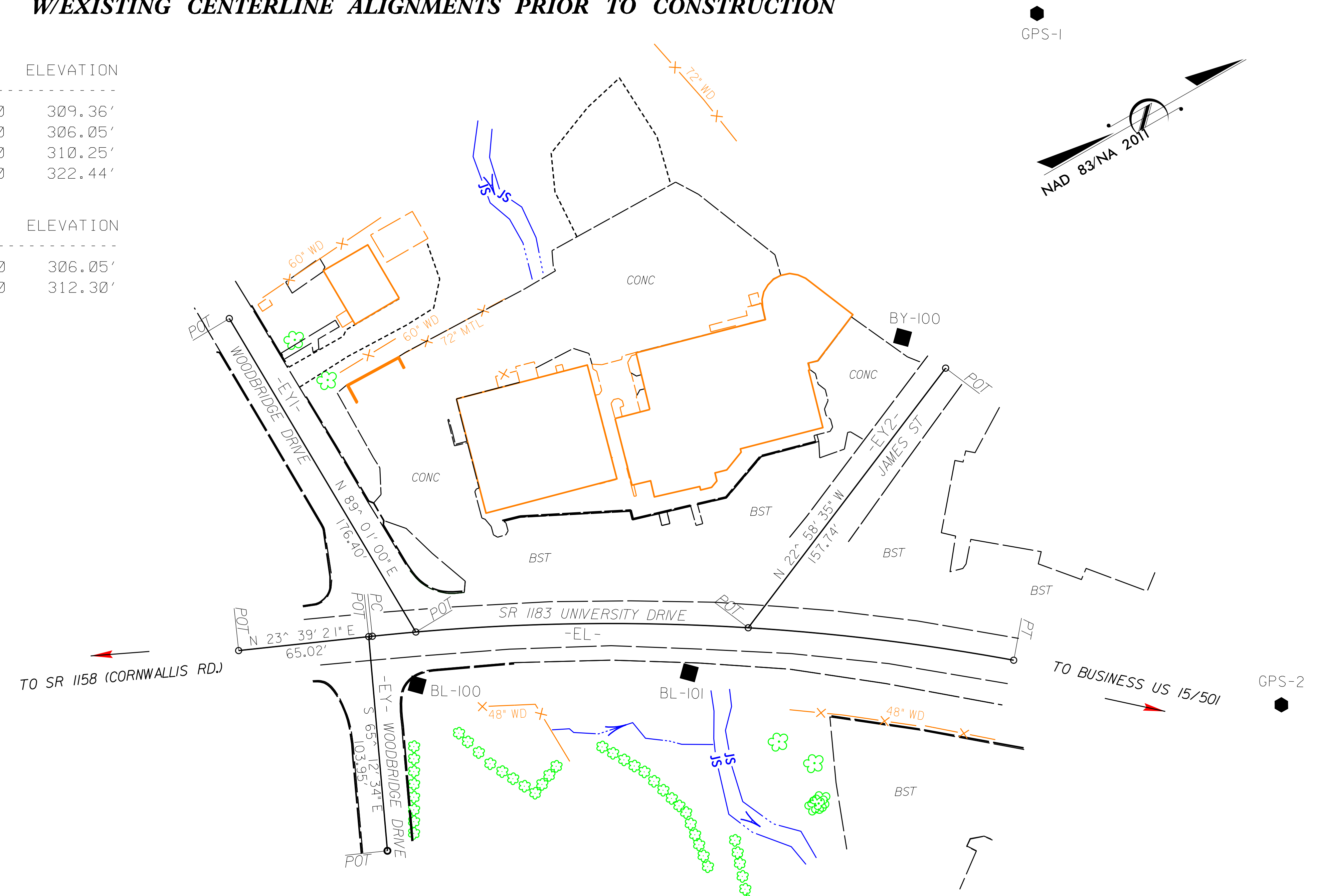
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL POINT	DESC.	NORTH	EAST	ELEVATION
BL-100	REBAR/CAP	809306.0460	2022261.7730	309.36'
BL-101	REBAR/CAP	809423.2030	2022322.0030	306.05'
GPS-2	REBAR/CAP	809870.3300	2022724.2100	310.25'
GPS-1	REBAR/CAP	809726.7950	2022107.7930	322.44'

BY POINT	DESC.	NORTH	EAST	ELEVATION
BL-101	REBAR/CAP	809423.2030	2022322.0030	306.05'
BY-100	REBAR/CAP	809593.2700	2022232.4700	312.30'

BENCHMARK

 BM1 ELEVATION = 302.82'
 N 809392 E 2022436
 NAIL SET IN 24" GUM TREE



EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	809239.386	2022204.509							
LINE			N 23°39'20.6" E	65.02					
PC	809298.946	2022230.599							
CURVE			N 31°54'51.0" E	310.37	16°31'00.9(RT)	05°18'11.8"	311.45	156.81	1080.38
PT	809562.400	2022394.675							

EY				
POINT	N	E	BEARING	DIST
POT	809297.347	2022229.899		
LINE			S 65°12'34.1" E	103.95
POT	809253.760	2022324.271		

EY1				
POINT	N	E	BEARING	DIST
POT	809315.191	2022062.891		
LINE			N 89°01'00.0" E	176.40
POT	809318.218	2022239.267		

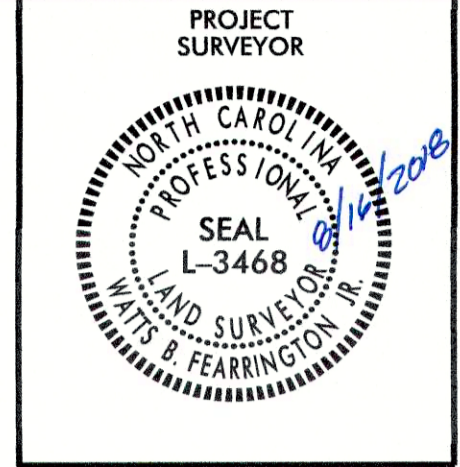
EY2				
POINT	N	E	BEARING	DIST
POT	809458.756	2022317.306		
LINE			N 22°58'35.2" W	157.74
POT	809603.977	2022255.733		

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS. THE GLOBAL NAVIGATION SATELLITES 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.

17BP.5.C.02-17
 17BP.5.C.02-18
 17BP.5.C.02-19
 17BP.5.C.02-20
 17BP.5.C.02-21
 17BP.5.C.02-22
 17BP.5.C.02-23
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 17BP.5.C.02-98
 17BP.5.C.02-99
 17BP.5.C.02-100

PERMANENT EASEMENT CONTROL SHEET



ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	11+50.00	41.24	809410.1146	2022335.2336
L	11+50.00	70.00	809395.0390	2022359.7284
L	12+05.00	42.09	809453.9586	2022364.7973
L	12+05.00	70.00	809438.1388	2022387.7916

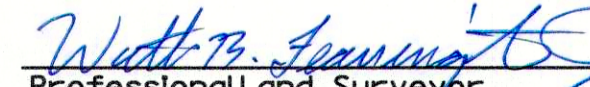
REVISIONS

I, Watts B. Fearrington, 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 (Right of Way 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 sources.

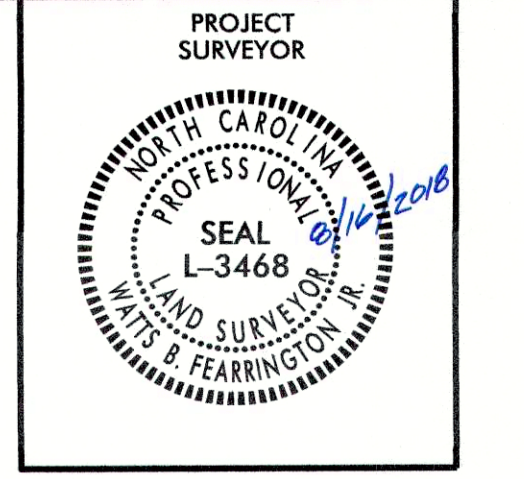
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station and offsets) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent 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 16th day of August, 2018.


 L-3468
 Professional Land Surveyor PLS#

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.



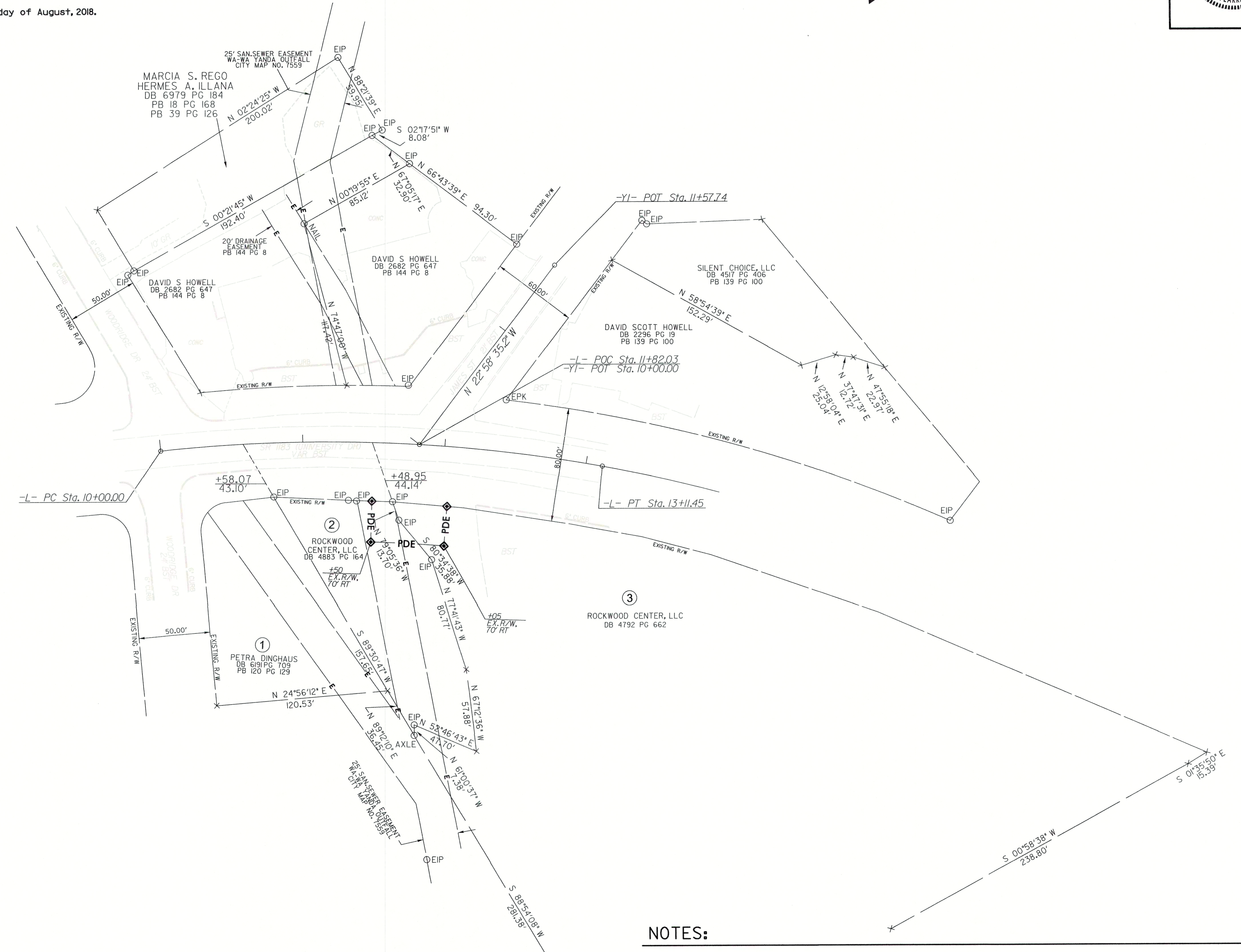
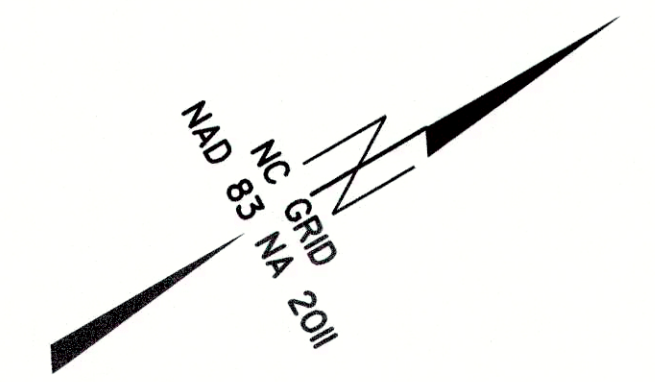
I, Watts B. Farrington, Jr., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Right of Way Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 16th day of August, 2018.

Watts B. Farrington, Jr.
 Professional Land Surveyor L-3468
 PLS*



$PI\ Sta. 11+56.81$
 $\Delta = 16' 31'' 00.9'' (RT)$
 $D = 5' 18'' 11.8''$
 $L = 311.45'$
 $T = 156.81'$
 $R = 1,080.38'$
 $SE = EXIST.$

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

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