

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5312	RW01	16

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

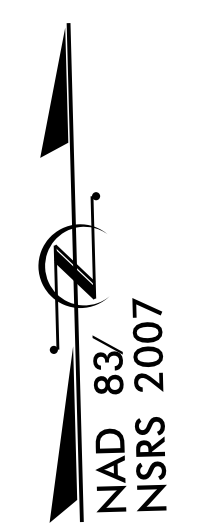
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SURVEY CONTROL, EXISTING CENTERLINES,  
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

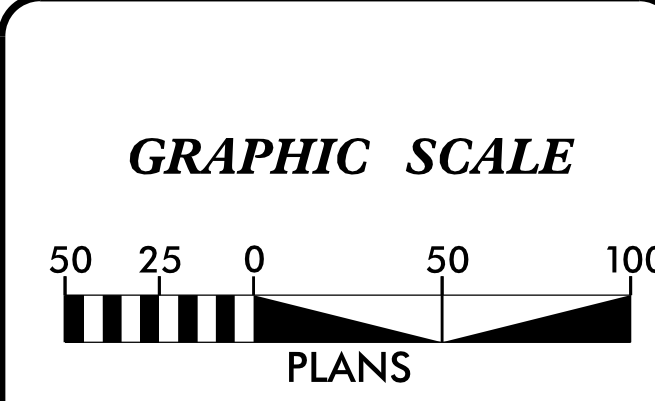
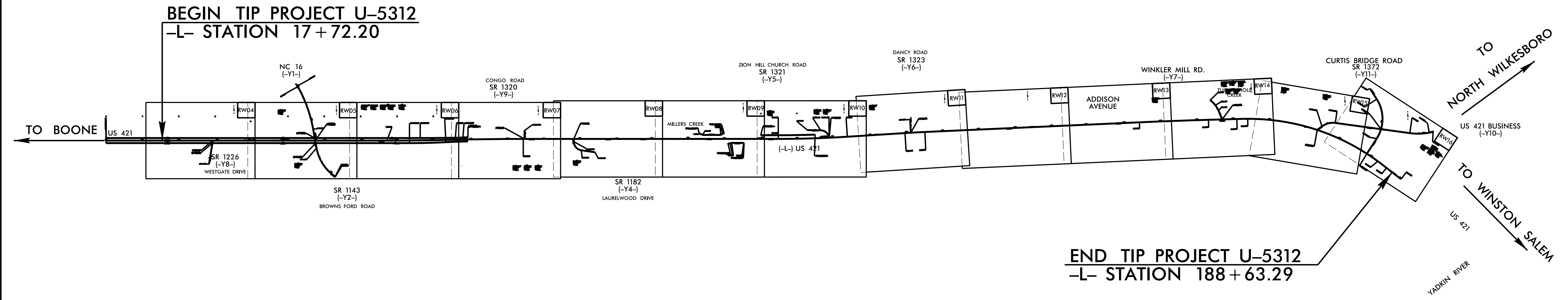
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**WILKES COUNTY**

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**TIP PROJECT: U-5312**



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "U5312-3" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 880632.6248(ft) EASTING: 1349407.7322(ft) ELEVATION: 1152.99(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999461029 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U5312-3" TO -L- STATION 17+72.20 IS N 88-43'49.80" W 10339.179(ft) 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

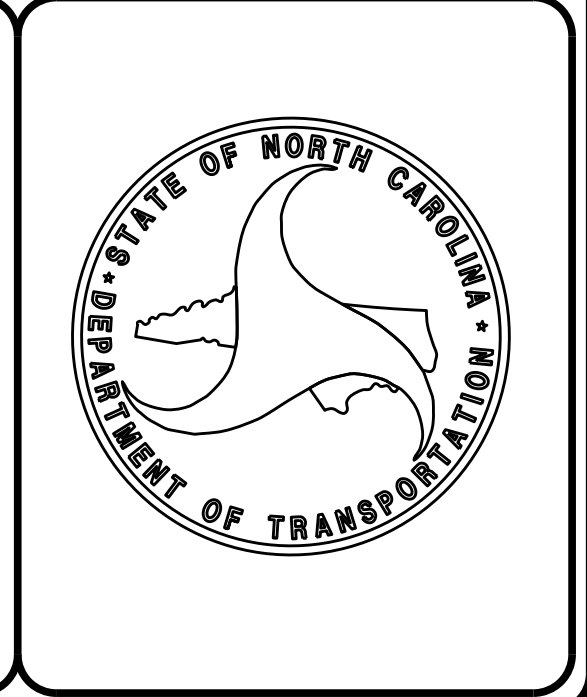
2017 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
OCTOBER 2018

**LETTING DATE:**

**PROFESSIONAL LAND SURVEYOR**

SIGNATURE: \_\_\_\_\_



\$\$\$\$\$ C:\\$TIME\$\$\$\$\$ DGN\$\$\$\$\$ USER NAME\$\$\$\$\$

# PROPOSED ALIGNMENT CONTROL SHEET

6/2/99

REVISIONS

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POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT	880882.286	1338299.166											
LINE			S 88°28'18.0" E	3861.76									
PC	880779.287	1342159.552											
CURVE			S 89°09'39.0" E	938.19	01°22'42.0(LT)	00°08'48.9"	938.21	469.13	39000.00				
PCC	880765.546	1343097.639											
CURVE			S 89°09'47.0" E	935.15	01°22'26.0(RT)	00°08'48.9"	935.17	467.61	39000.00				
PT	880751.887	1344032.688											
LINE			S 88°28'34.0" E	3505.42									
PC	880658.665	1347536.867											
CURVE			N 89°42'36.8" E	949.47	03°37'38.3(LT)	00°22'55.1"	949.63	474.97	15000.00				
PT	880663.467	1348486.322											
LINE			N 87°53'47.7" E	794.41									
PC	880692.625	1349280.196											
CURVE			N 88°25'15.6" E	274.59	01°02'55.9(RT)	00°22'55.1"	274.59	137.30	15000.00				
PT	880700.191	1349554.678											
LINE			N 88°56'43.5" E	2951.11									
PC	880754.505	1352505.285											
CURVE			N 89°26'25.7" E	950.43	00°59'24.4(RT)	00°06'15.0"	950.44	475.23	55000.00				
PT	880763.786	1353455.670											
LINE			N 89°56'08.0" E	390.24									
TS	880764.226	1353845.907											
SPIRAL			S 89°35'13.2" E	150.00						01°25'56.6(RT)	150.00	100.00	50.00
SC	880763.144	1353995.899											
CURVE			S 70°22'14.7" E	1880.11	36°31'21.4(RT)	01°54'35.5"	1912.32	989.91	30000.00				
CS	880131.555	1355766.746											
SPIRAL			S 51°09'16.3" E	150.00						01°25'56.6(RT)	150.00	100.00	50.00
ST	880037.475	1355883.568											
LINE			S 50°40'37.4" E	254.69									
POT	879876.079	1356080.594											

Y7

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	881033.233	1353485.950							
CURVE			S 44°19'40.8" E	99.80	15°17'45.4(RT)	15°16'51.1"	100.10	50.35	374.95
PT	880961.840	1353555.688							
LINE			S 36°40'48.1" E	0.00					
PC	880961.837	1353555.690							
CURVE			S 28°32'14.2" E	87.88	16°17'07.8(RT)	18°28'05.8"	88.18	44.39	310.24
PT	880884.630	1353597.675							
LINE			S 20°23'40.3" E	128.70					
POT	880763.997	1353642.525							

Y11

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	880239.135	1355619.481							
LINE			N 34°29'10.5" E	248.17					
PC	880443.694	1355759.999							
CURVE			N 01°38'26.1" E	542.38	65°41'29.0(LT)	11°27'33.0"	573.27	322.79	500.00
PT	880985.850	1355775.527							
LINE			N 31°12'18.4" W	174.73					
POT	881135.303	1355684.997							

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

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6/2/19

# RIGHT OF WAY CONTROL SHEET

## ROW MARKER PERMANENT EASEMENT-E

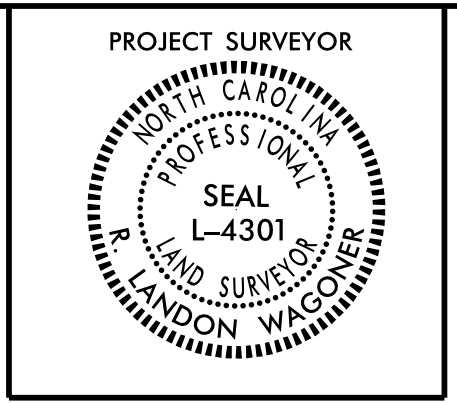
ALIGN	STATION	OFFSET	NORTH	EAST
L	25+82.00	-124.56	880964.6116	1339883.9250
L	25+82.00	-157.00	880997.0355	1339884.7901
L	26+13.00	-157.00	880996.2087	1339915.7791
L	26+64.00	-124.53	880962.3877	1339965.8949
L	45+73.00	-124.22	880911.1641	1341874.2076
L	46+85.00	-150.00	880933.9479	1341986.8553
L	50+40.00	-150.00	880924.9034	1342341.0539
L	50+85.00	-123.90	880897.8452	1342385.3237
L	61+65.00	-106.11	880868.9831	1343463.9283
L	61+83.00	-128.00	880890.6528	1343482.2482
L	61+97.00	156.40	880606.0991	1343492.6534
L	61+97.00	185.00	880577.5012	1343492.2873
L	62+40.00	-128.00	880889.8997	1343539.4303
L	62+40.00	-105.14	880867.0442	1343539.1126
L	63+00.00	164.06	880596.9888	1343595.1118
L	63+00.00	186.00	880575.0540	1343594.7731
L	100+37.00	-103.34	880767.3862	1347336.1268
L	100+37.00	-120.00	880784.0362	1347336.5697
L	101+80.00	-120.00	880780.2333	1347479.5192
L	103+00.00	-152.00	880809.1634	1347599.7286
L	104+25.00	-130.00	880784.8807	1347723.1258
L	105+00.18	-130.00	880784.0017	1347797.6486
L	110+00.00	245.00	880412.7625	1348302.1122
L	110+40.00	247.00	880411.7943	1348342.8058
L	143+95.00	114.08	880625.4373	1351692.2303
L	143+95.00	130.00	880609.5221	1351692.5233
L	144+10.00	130.00	880609.7982	1351707.5207
L	144+10.00	114.07	880625.7239	1351707.2276
L	145+70.00	127.00	880615.7425	1351867.4384
L	145+70.00	113.86	880628.8779	1351867.1966
L	145+90.00	127.00	880616.1105	1351887.4350
L	145+90.00	113.83	880629.2745	1351887.1927
L	148+15.00	135.00	880612.2530	1352112.5442
L	148+15.00	113.74	880633.5047	1352112.1530
L	148+35.00	113.73	880633.8896	1352132.1493
L	148+35.00	135.00	880612.6211	1352132.5408
L	149+28.00	127.00	880622.3313	1352225.3778
L	149+28.00	113.59	880635.7403	1352225.1309
L	149+48.00	113.55	880636.1434	1352245.1269
L	149+48.00	127.00	880622.6994	1352245.3744
L	167+34.00	-104.66	880866.7747	1354032.5631
L	168+08.00	-147.00	880905.4208	1354111.5772
L	168+50.00	-112.44	880868.0253	1354152.9977
L	171+46.00	-150.30	880867.7001	1354464.1409
L	171+56.00	-200.00	880914.8166	1354483.1632
L	171+67.00	-153.09	880866.5844	1354486.3496
L	171+77.00	-200.00	880910.8273	1354505.2050
L	177+32.00	128.49	880443.7231	1354956.1043
L	177+32.00	140.00	880432.9801	1354951.9677
L	178+00.00	136.00	880412.7016	1355013.7170
L	180+40.00	156.00	880299.3388	1355212.8413
L	182+37.00	126.02	880235.0961	1355391.7390
L	182+45.00	153.00	880208.0140	1355384.4861

I, R. Landon Wagoner, 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 12th day of October, 2018.



Professional Land Surveyor L-4301 PLS # Seal

## ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	30+70.00	75.60	880751.5065	1340366.4129
L	30+70.00	95.00	880732.1095	1340365.8953
L	31+50.00	125.00	880699.9864	1340445.0667
L	33+20.00	77.72	880742.7181	1340616.2673
L	60+60.00	91.20	880672.8001	1343356.8165
L	62+30.00	172.00	880590.0658	1343525.3053
L	65+72.00	132.00	880623.9174	1343866.6370
L	66+50.00	140.00	880614.0998	1343944.1564
L	67+00.00	122.03	880630.8181	1343994.4231
L	93+87.00	-146.00	880827.3128	1346687.4911
L	93+87.00	-102.79	880784.1176	1346686.3419
L	94+50.00	-146.00	880825.6374	1346750.4688
L	95+80.00	-102.85	880779.0498	1346879.2754
L	109+00.00	130.17	880525.4687	1348198.5069
L	110+00.00	220.00	880437.7553	1348301.5115
L	110+15.00	-155.00	880813.0111	1348307.3406
L	110+50.00	-155.00	880813.9185	1348341.9671
L	110+50.00	220.00	880439.0589	1348352.2280
L	111+50.00	-99.86	880761.8471	1348442.7631
L	111+73.25	97.51	880565.4030	1348472.8626
L	128+30.00	-85.03	880795.7156	1350123.8307
L	129+50.00	-103.00	880815.8879	1350243.4797
L	130+30.00	-85.36	880799.7277	1350323.7908
L	130+30.00	-103.00	880817.3602	1350323.4662

## ROW MARKER PERMANENT EASEMENT-E

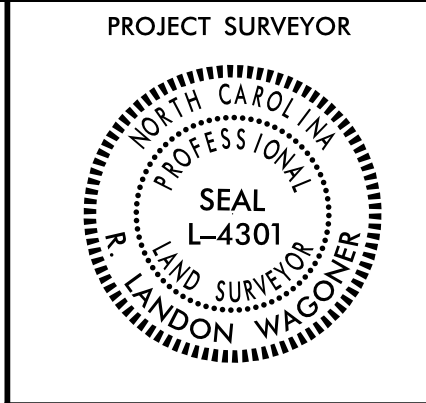
ALIGN	STATION	OFFSET	NORTH	EAST
Y7	10+18.00	35.54	880994.8927	1353476.6453
Y7	11+44.00	51.37	880900.3302	1353534.2288

### 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



I, R. Landon Wagoner, 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.

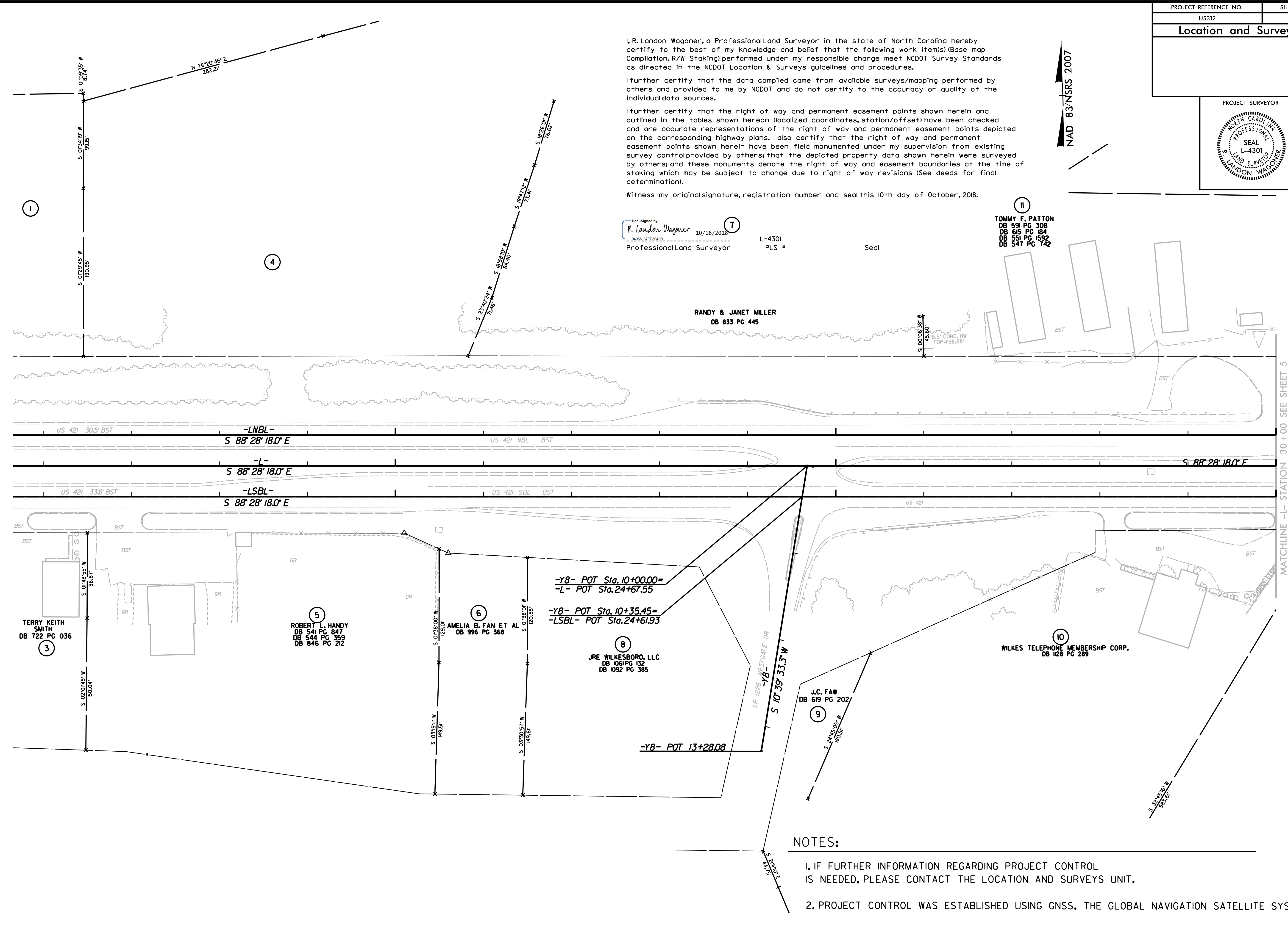
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway 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 10th day of October, 2018.

DocuSigned by:  
**R. Landon Wagoner** 10/16/2018  
94981327292450  
 Professional Land Surveyor L-4301 PLS Seal

PROJECT SURVEYOR  
**TOMMY F. PATTON**  
 DB 591 PG 308  
 DB 615 PG 184  
 DB 551 PG 1592  
 DB 547 PG 742

NAD 83/NSRS 2007



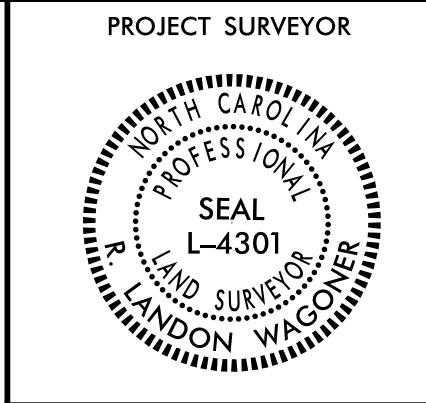
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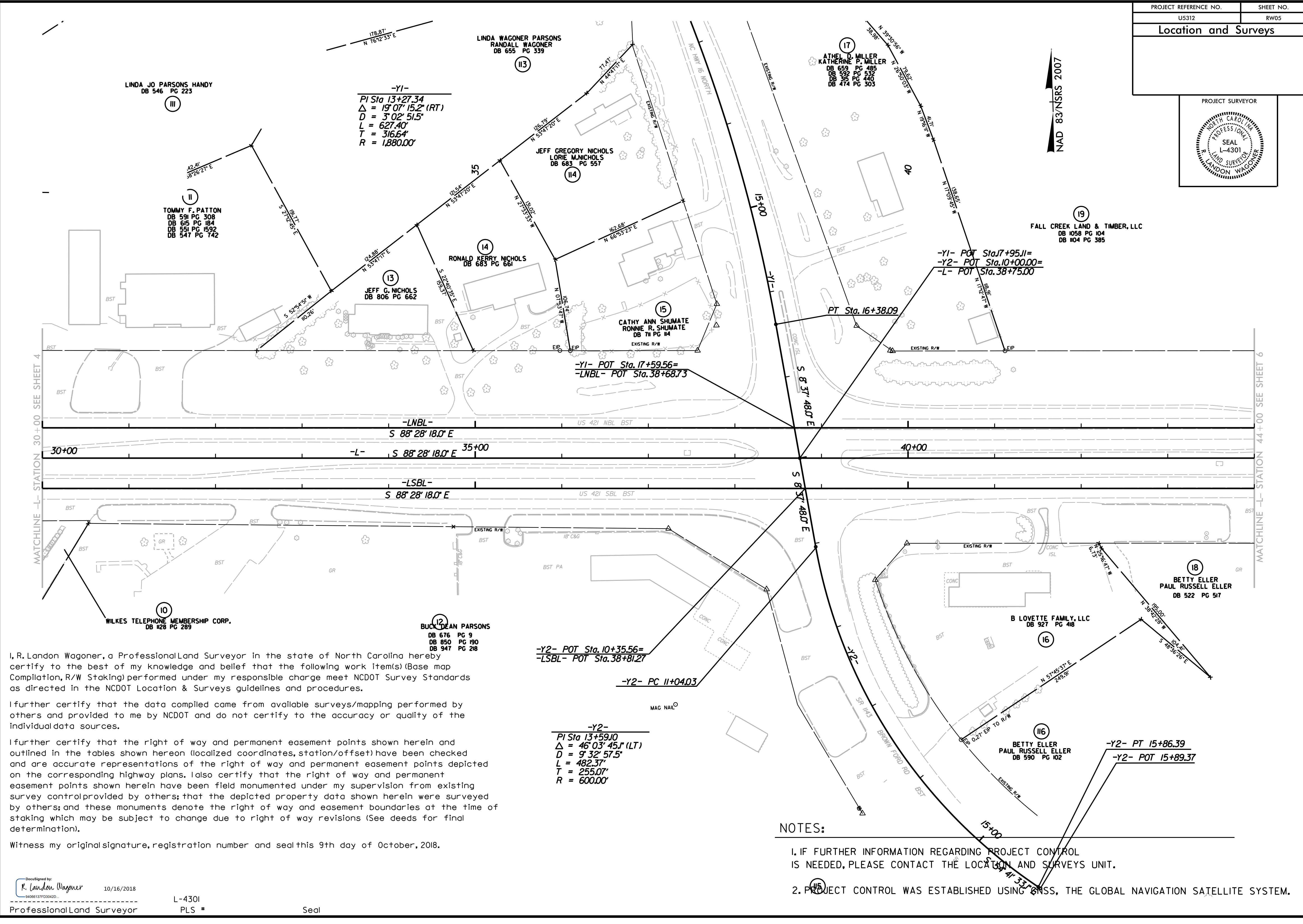
MATCHLINE -L- STATION 30+00 SEE SHEET 5

6/2/19

15-001-2018-08146  
 Z:\D\W\U5312\CONTROL SHEETS\U5312\_1s\_rw04.dgn  
 2/14/2019 10:28:11



NAD 83/NSRS 2007



**-Y1-**  
 PI Sta 13+27.34  
 $\Delta = 19^{\circ} 07' 15.2''$  (RT)  
 $D = 3^{\circ} 02' 51.5''$   
 $L = 627.40'$   
 $T = 316.64'$   
 $R = 1,880.00'$

**-Y1- POT Sta. 17+59.56=**  
**-LNBL- POT Sta. 38+68.73**

**-Y1- POT Sta. 17+95.11=**  
**-Y2- POT Sta. 10+00.00=**  
**-L- POT Sta. 38+75.00**

**-Y2- POT Sta. 10+35.56=**  
**-LSBL- POT Sta. 38+81.27**

**-Y2- PC 11+04.03**

**-Y2-**  
 PI Sta 13+59.10  
 $\Delta = 46^{\circ} 03' 45.1''$  (LT)  
 $D = 9^{\circ} 32' 57.5''$   
 $L = 482.37'$   
 $T = 255.07'$   
 $R = 600.00'$

**-Y2- PT 15+86.39**  
**-Y2- POT 15+89.37**

I, R. Landon Wagoner, 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, 2018.

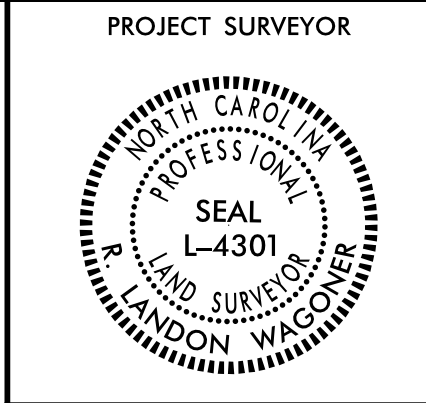
DocuSigned by:  
 R. Landon Wagoner  
 10/16/2018  
 Professional Land Surveyor

L-4301  
 PLS #  
 Seal

**NOTES:**

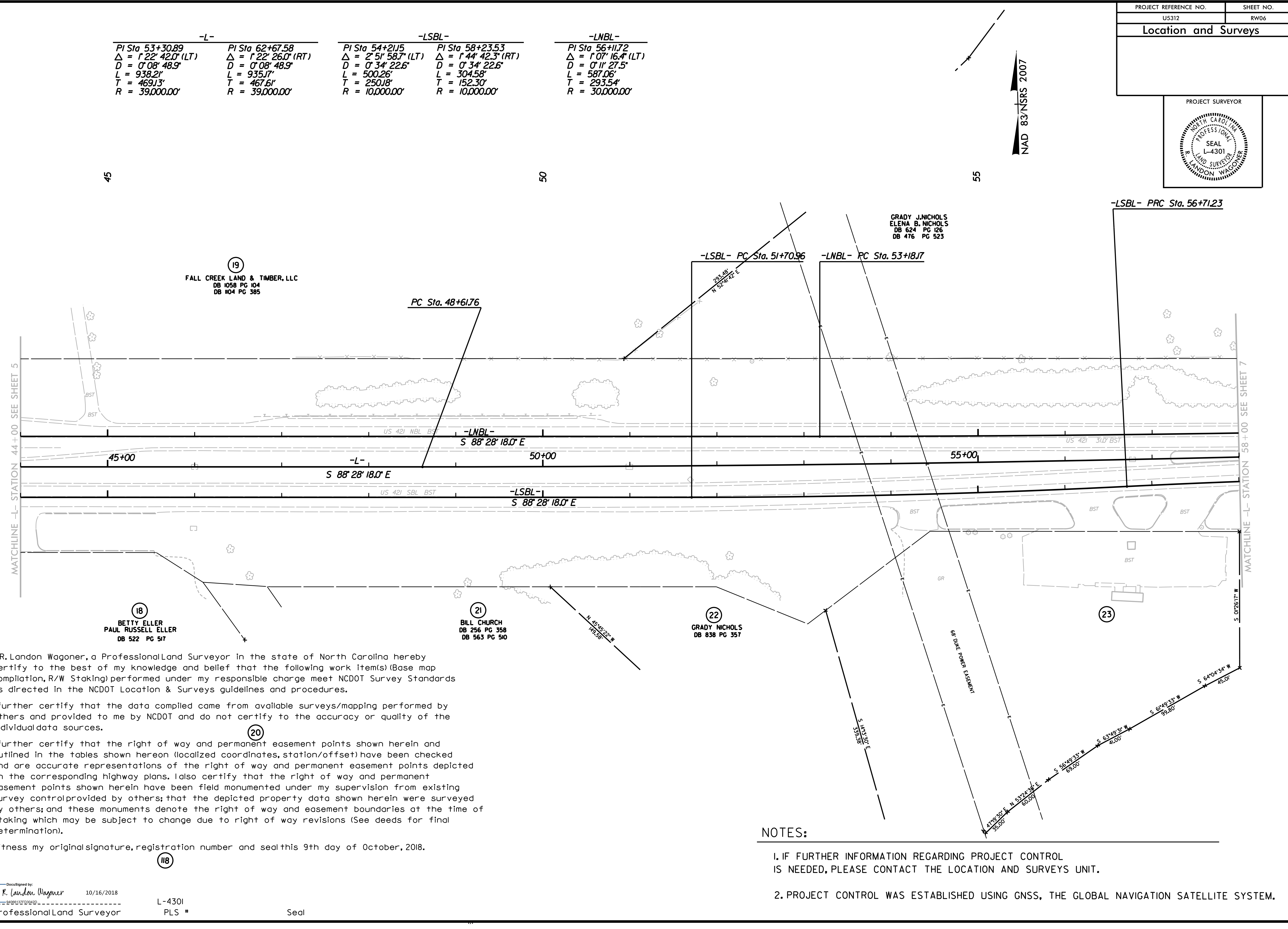
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

6/2/19  
 15-001-2018-08148  
 2-11-15-5312-CONTROL SHEETS-U5312-1s-rw05.dgn



-L-		-LSBL-		-LNBL-	
PI Sta 53+30.89	PI Sta 62+67.58	PI Sta 54+21.15	PI Sta 58+23.53	PI Sta 56+11.72	
$\Delta = 1^{\circ}22'42.0''$ (LT)	$\Delta = 1^{\circ}22'26.0''$ (RT)	$\Delta = 2^{\circ}51'58.7''$ (LT)	$\Delta = 1^{\circ}44'42.3''$ (RT)	$\Delta = 1^{\circ}07'16.4''$ (LT)	
D = 0'08'48.9"	D = 0'08'48.9"	D = 0'34'22.6"	D = 0'34'22.6"	D = 0'11'27.5"	
L = 938.21'	L = 935.17'	L = 500.26'	L = 304.58'	L = 587.06'	
T = 469.13'	T = 467.61'	T = 250.18'	T = 152.30'	T = 293.54'	
R = 39,000.00'	R = 39,000.00'	R = 10,000.00'	R = 10,000.00'	R = 30,000.00'	

NAD 83/NSRS 2007



I, R. Landon Wagoner, 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.

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Witness my original signature, registration number and seal this 9th day of October, 2018.

(118)

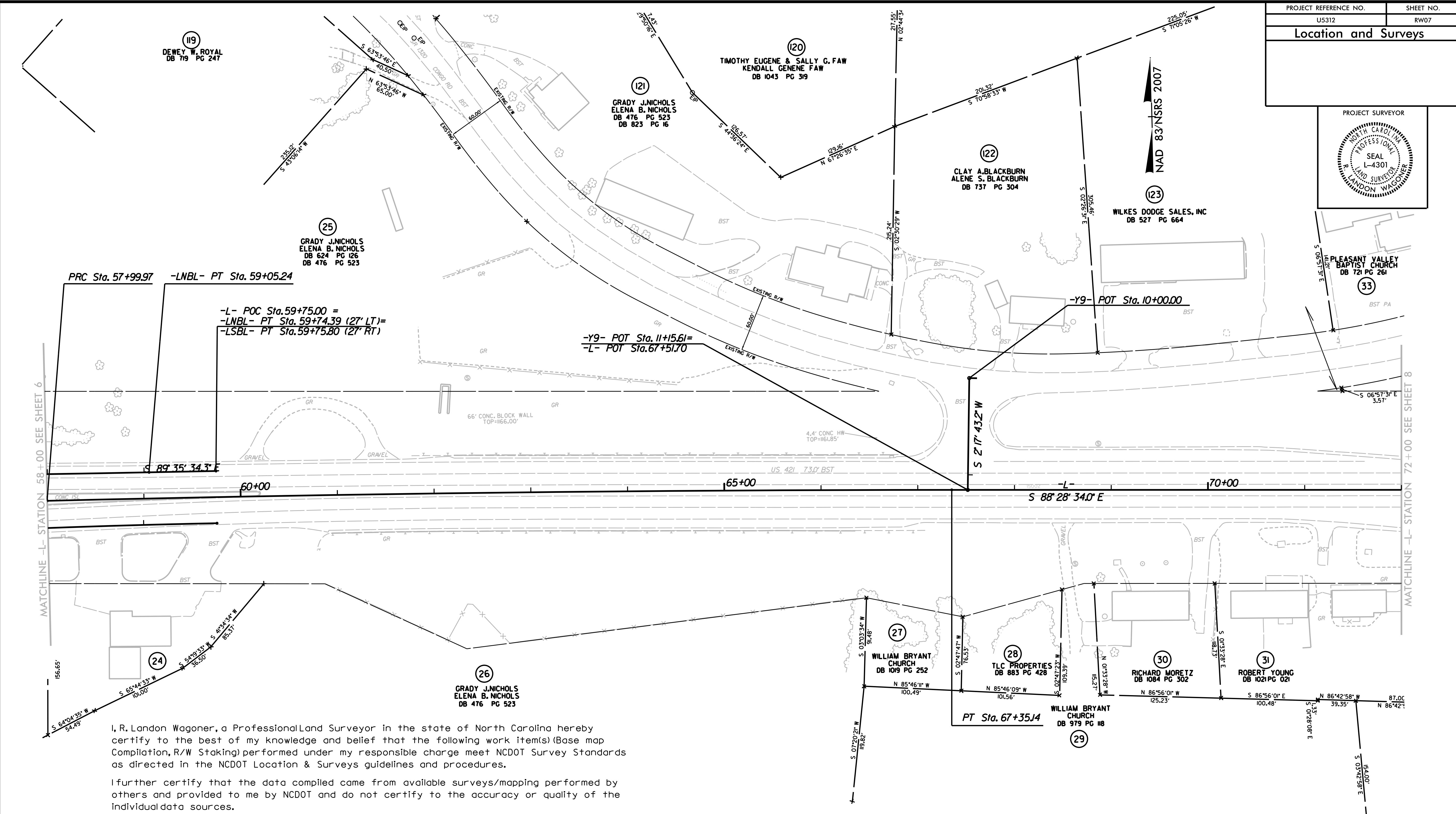
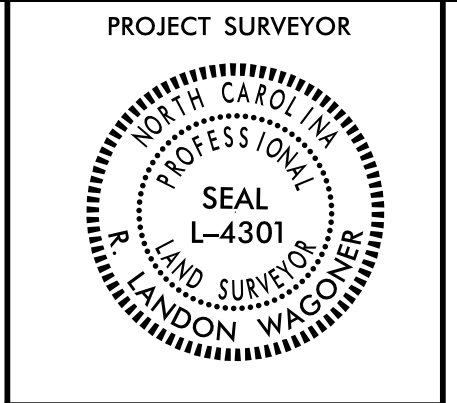
DocuSigned by:  
*R. Landon Wagoner*  
 10/16/2018  
 Professional Land Surveyor

L-4301  
 PLS # 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.

6/2/19 15:00 2018 08:45 5312 CONTROL SHEETS U5312.LS.rw06.dgn



I, R. Landon Wagoner, 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, 2018.

DocuSigned by:  
**R. Landon Wagoner** 10/16/2018  
 34088137FD30420  
 Professional Land Surveyor

L-4301  
 PLS \* Seal

-L-	-LSBL-	-LNBL-
PI Sta 62+67.58	PI Sta 58+23.53	PI Sta 56+11.72
$\Delta = 1^{\circ}22'26.0"$ (RT)	$\Delta = 1^{\circ}44'42.3"$ (RT)	$\Delta = 1^{\circ}07'16.4"$ (LT)
D = 0'08'48.9"	D = 0'34'22.6"	D = 0'11'27.5"
L = 935.17'	L = 304.58'	L = 587.06'
T = 467.61'	T = 152.30'	T = 293.54'
R = 39,000.00'	R = 10,000.00'	R = 30,000.00'

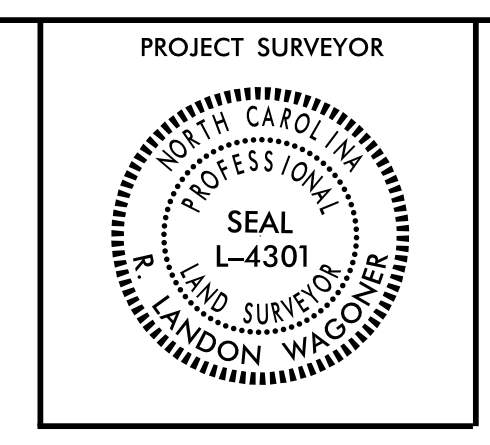
**NOTES:**

- 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

15-001-2018-08453-PLAN-5312-CONTROL SHEETS-U5312-1s-rw07.dgn



I, R. Landon Wagoner, 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.

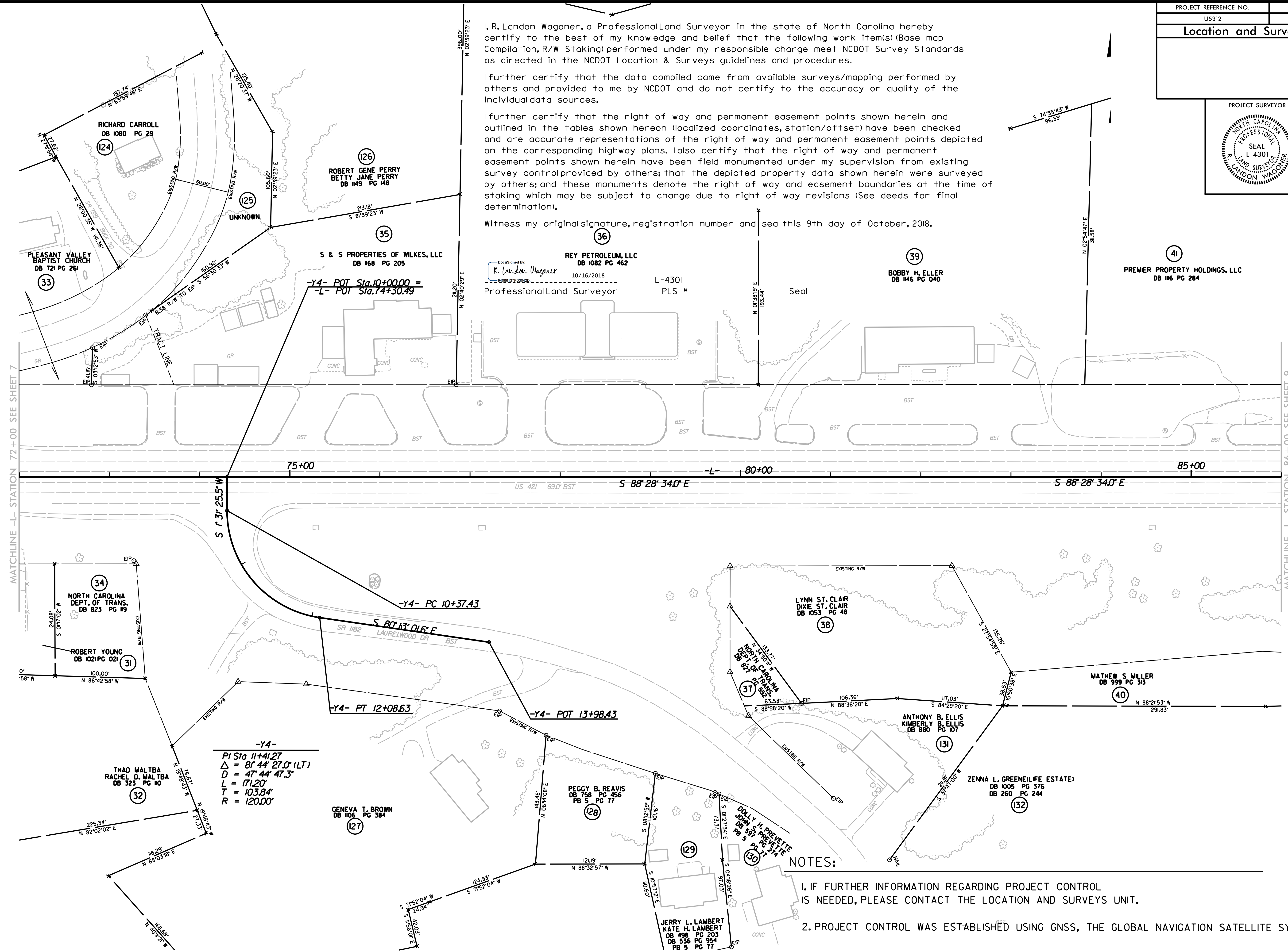
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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, 2018.

DocuSigned by:  
*R. Landon Wagoner*  
 10/16/2018  
 Professional Land Surveyor L-4301 PLS #

Seal



-Y4-  
 PI Sta 11+41.27  
 $\Delta = 81^{\circ}44'27.0''$  (LT)  
 $D = 47^{\circ}44'47.3''$   
 $L = 171.20'$   
 $T = 103.84'$   
 $R = 120.00'$

- 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.

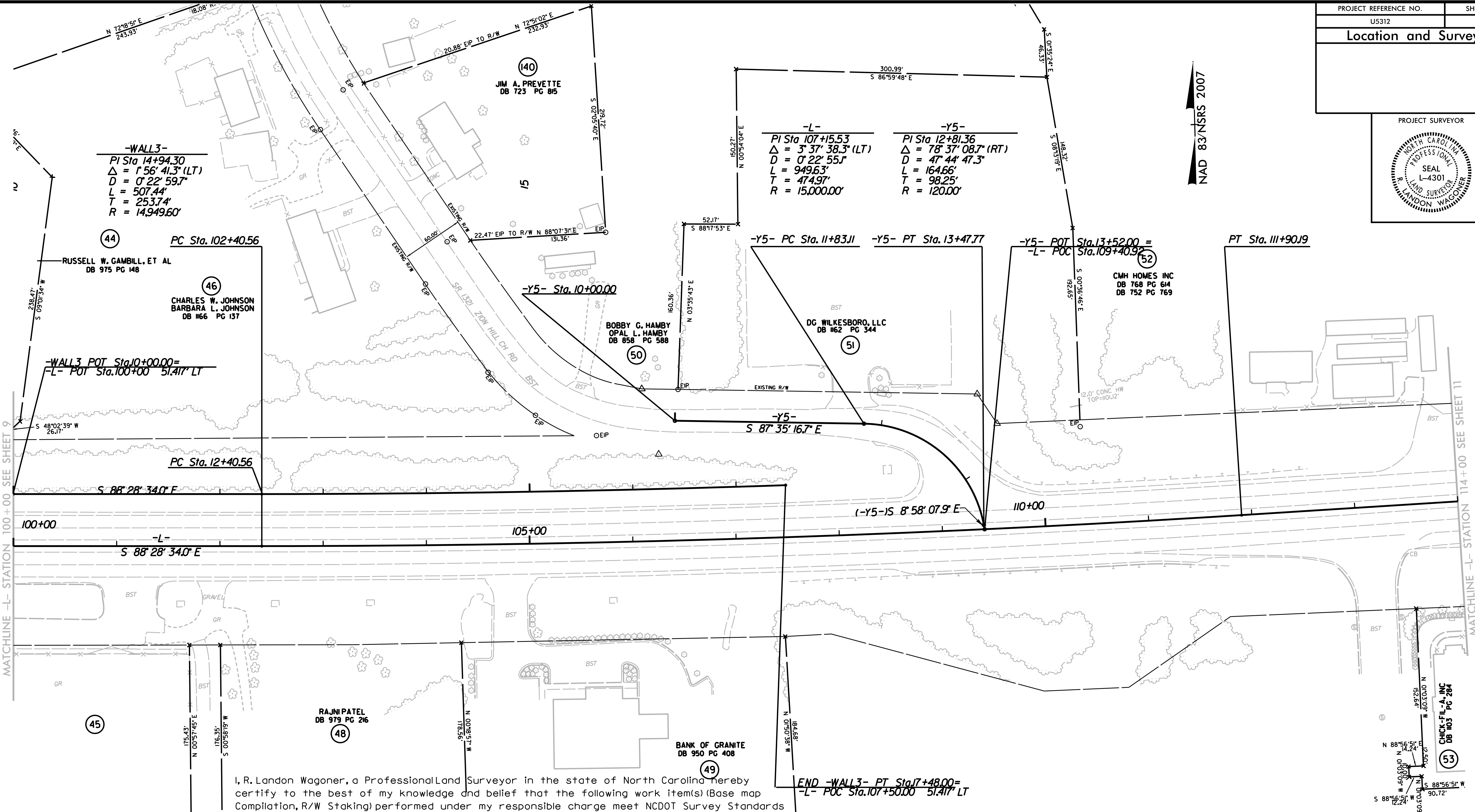
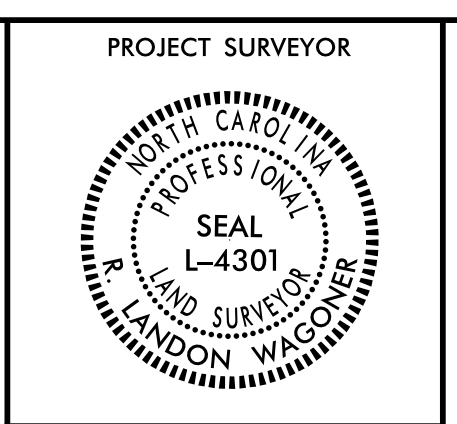
6/2/19  
 15:00 10/16/2018 08:54 U:\5312\CONTROL SHEETS\U5312.LS.rw08.dgn  
 2:41:00  
 20181016

MATCHLINE -L- STATION 86+00 SEE SHEET 9

MATCHLINE -L- STATION 72+00 SEE SHEET 7







NAD 83/NSRS 2007

**-WALL 3-**  
 PI Sta 14+94.30  
 $\Delta = 1^{\circ}56'41.3''$  (LT)  
 $D = 0^{\circ}22'59.7''$   
 $L = 507.44'$   
 $T = 253.74'$   
 $R = 14,949.60'$

<b>-L-</b>	<b>-Y5-</b>
PI Sta 107+15.53	PI Sta 12+81.36
$\Delta = 3^{\circ}37'38.3''$ (LT)	$\Delta = 78^{\circ}37'08.7''$ (RT)
$D = 0^{\circ}22'55.7''$	$D = 47^{\circ}44'47.3''$
$L = 949.63'$	$L = 164.66'$
$T = 474.97'$	$T = 98.25'$
$R = 15,000.00'$	$R = 120.00'$

I, R. Landon Wagoner, 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.

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Witness my original signature, registration number and seal this 10th day of October, 2018.

DocuSigned by:  
 R. Landon Wagoner  
 10/16/2018  
 94066137FD3042D

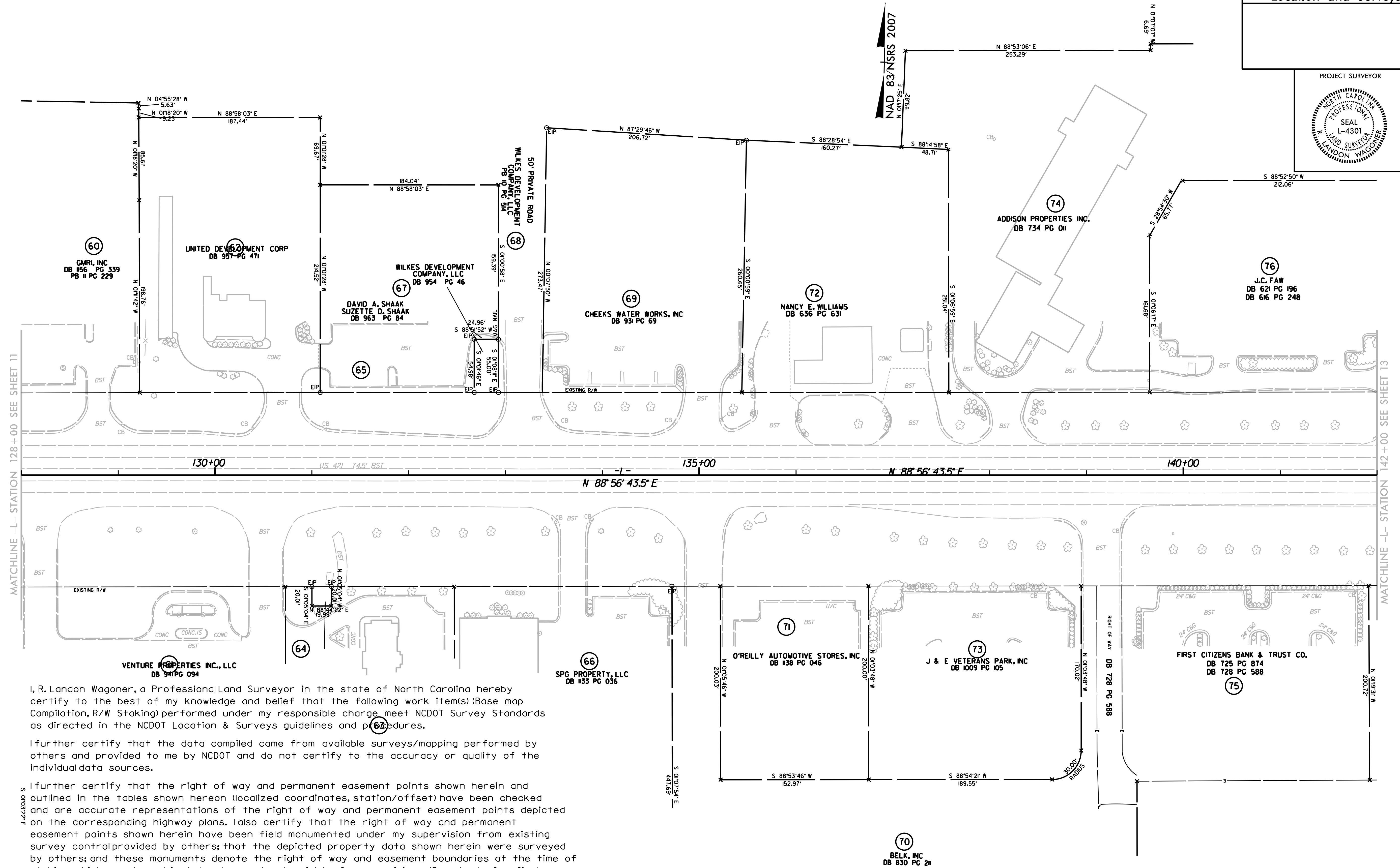
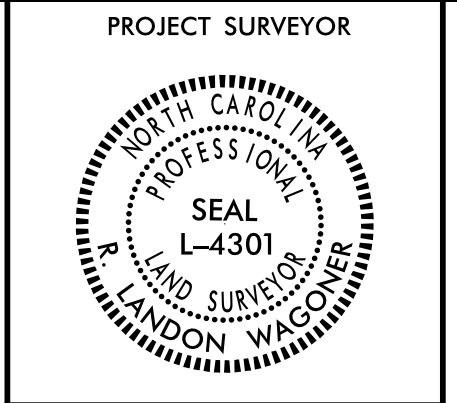
L-4301  
 PLS # Seal

**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.

15-001-2018-08459-11-5312-CONTROL SHEETS-U5312-1s-rw10.dgn 6/2/19





I, R. Landon Wagoner, 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.

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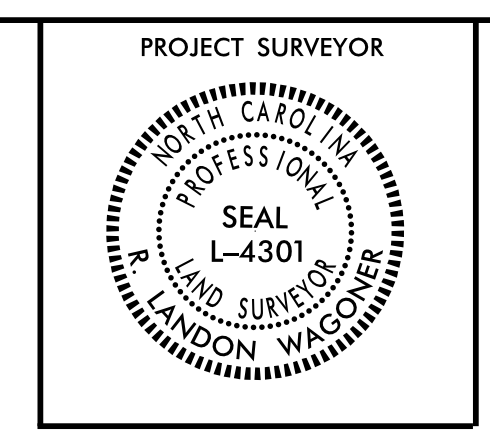
Witness my original signature, registration number and seal this 10th day of October, 2018.

DocuSigned by:  
**R. Landon Wagoner** 10/16/2018  
 04066137FD020420  
 Professional Land Surveyor

L-4301  
 PLS #  
 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.

6/2/19  
 15-001-2018-09102-01-11-5312-CONTROL SHEETS-U5312-1s-rw12.dgn  
 10/16/2018 10:17:27 AM



I, R. Landon Wagoner, 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.

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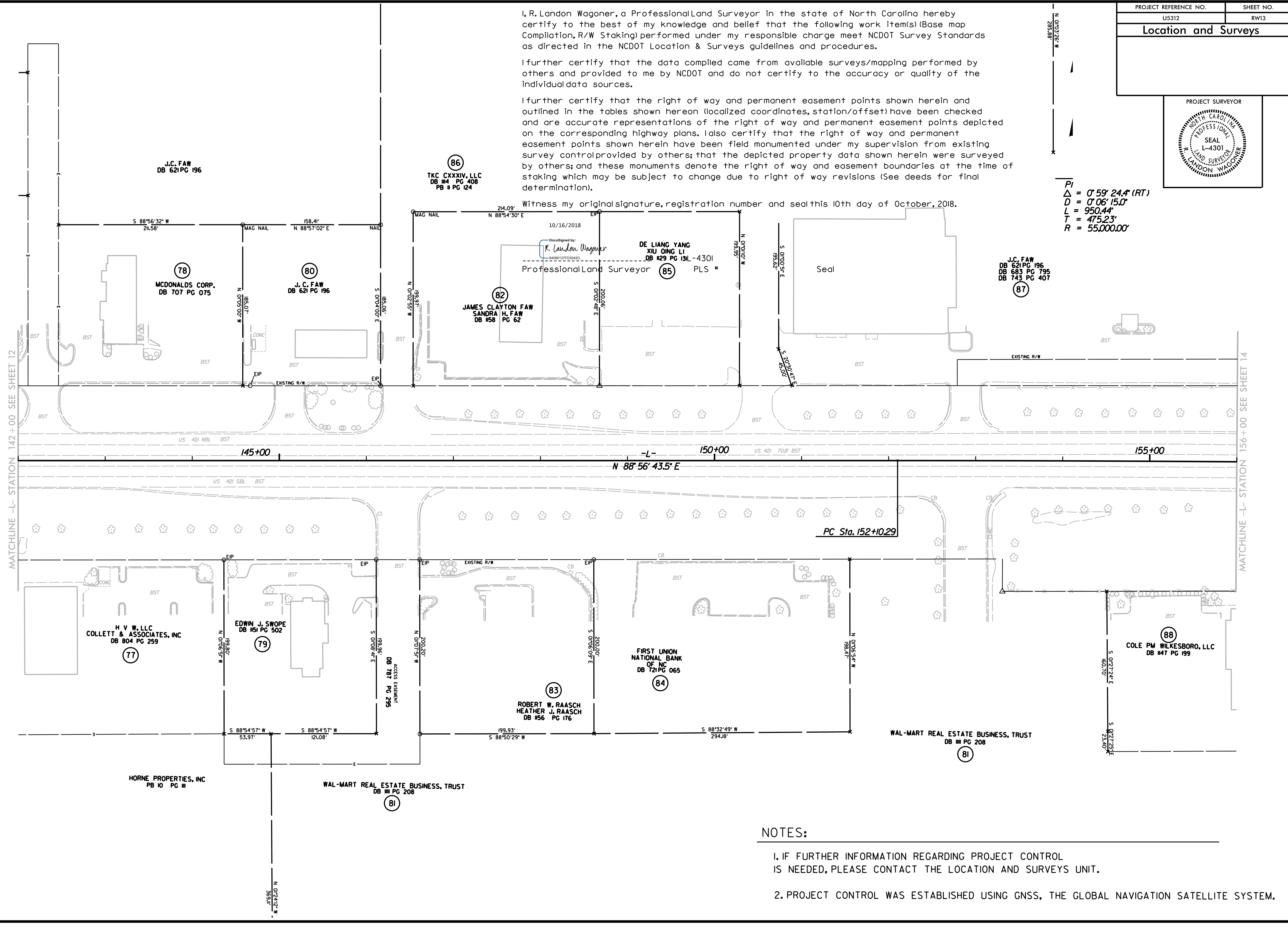
Witness my original signature, registration number and seal this 10th day of October, 2018.

DocuSigned by:  
R. Landon Wagoner  
94066137FD3042D  
Professional Land Surveyor (85) PLS #

DE LIANG YANG  
XIU QING LI  
DB #29 PG 13L-4301

PI  
Δ = 0° 59' 24.4" (RT)  
D = 0° 06' 15.0"  
L = 950.44'  
T = 475.23'  
R = 55,000.00'

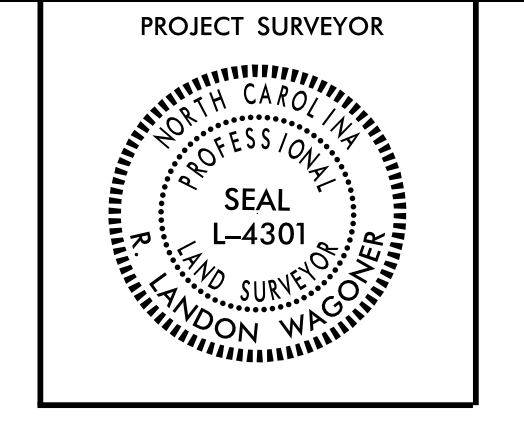
J.C. FAW  
DB 621 PG 196  
DB 683 PG 795  
DB 743 PG 407  
(87)



**NOTES:**

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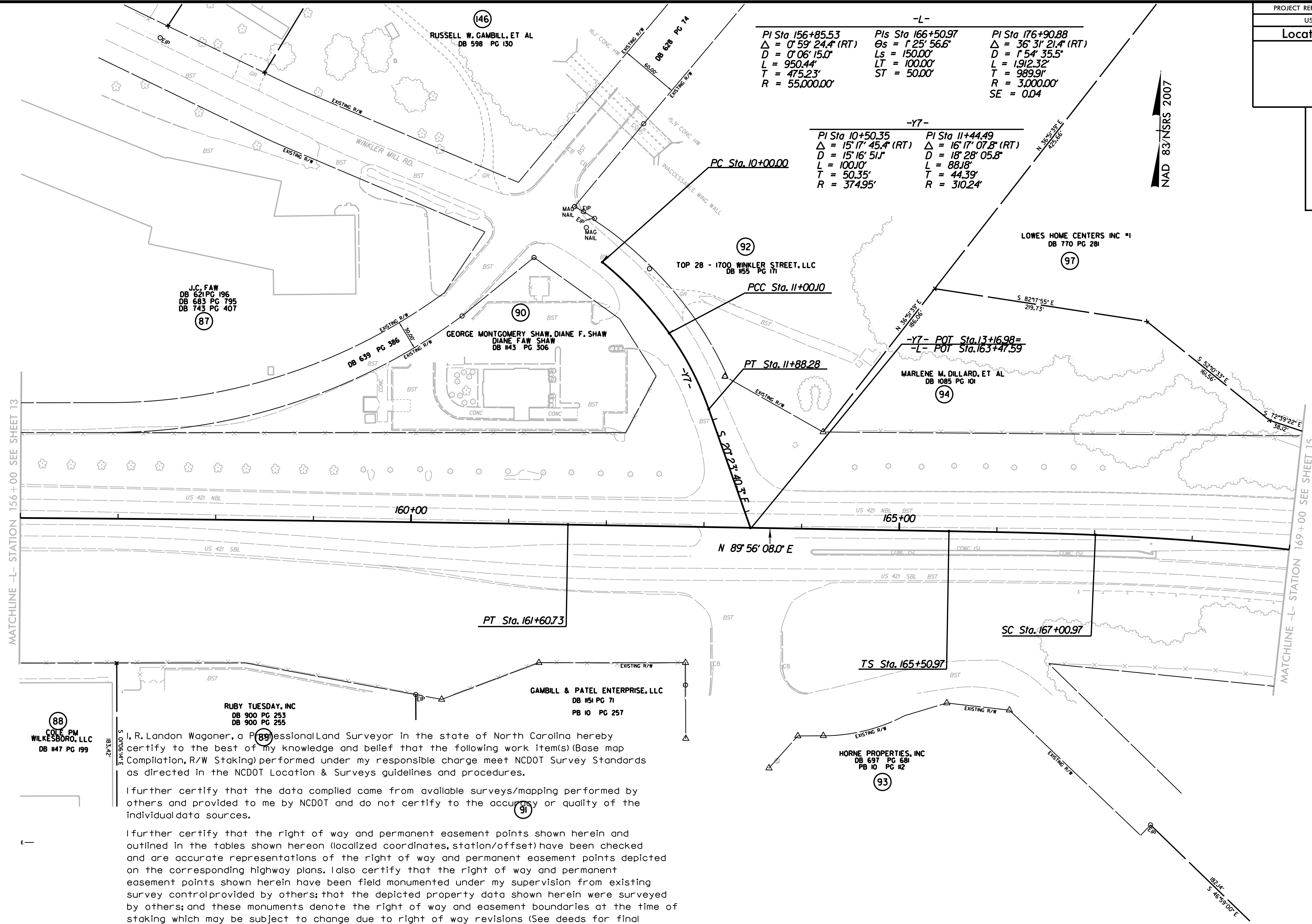
6/2/19  
15-001-2018-09104-11-5312-CONTROL SHEETS-U5312-1s-rw13.dgn  
24/10/2018 10:58:11



-L-		
PI Sta 156+85.53	PIs Sta 166+50.97	PI Sta 176+90.88
$\Delta = 0^{\circ} 59' 24.4''$ (RT)	$\Theta_s = 1^{\circ} 25' 56.6''$	$\Delta = 36^{\circ} 31' 21.4''$ (RT)
D = 0' 06' 15.0"	Ls = 150.00'	D = 1' 54' 35.5"
L = 950.44'	LT = 100.00'	L = 1912.32'
T = 475.23'	ST = 50.00'	T = 989.91'
R = 55,000.00'		R = 3,000.00'
		SE = 0.04

-Y7-	
PI Sta 10+50.35	PI Sta 11+44.49
$\Delta = 15^{\circ} 17' 45.4''$ (RT)	$\Delta = 16^{\circ} 17' 07.8''$ (RT)
D = 15' 16' 51.7"	D = 18' 28' 05.8"
L = 100.10'	L = 88.18'
T = 50.35'	T = 44.39'
R = 374.95'	R = 310.24'

NAD 83/NSRS 2007



I, R. Landon Wagoner, 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.

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Witness my original signature, registration number and seal this 10th day of October, 2018.

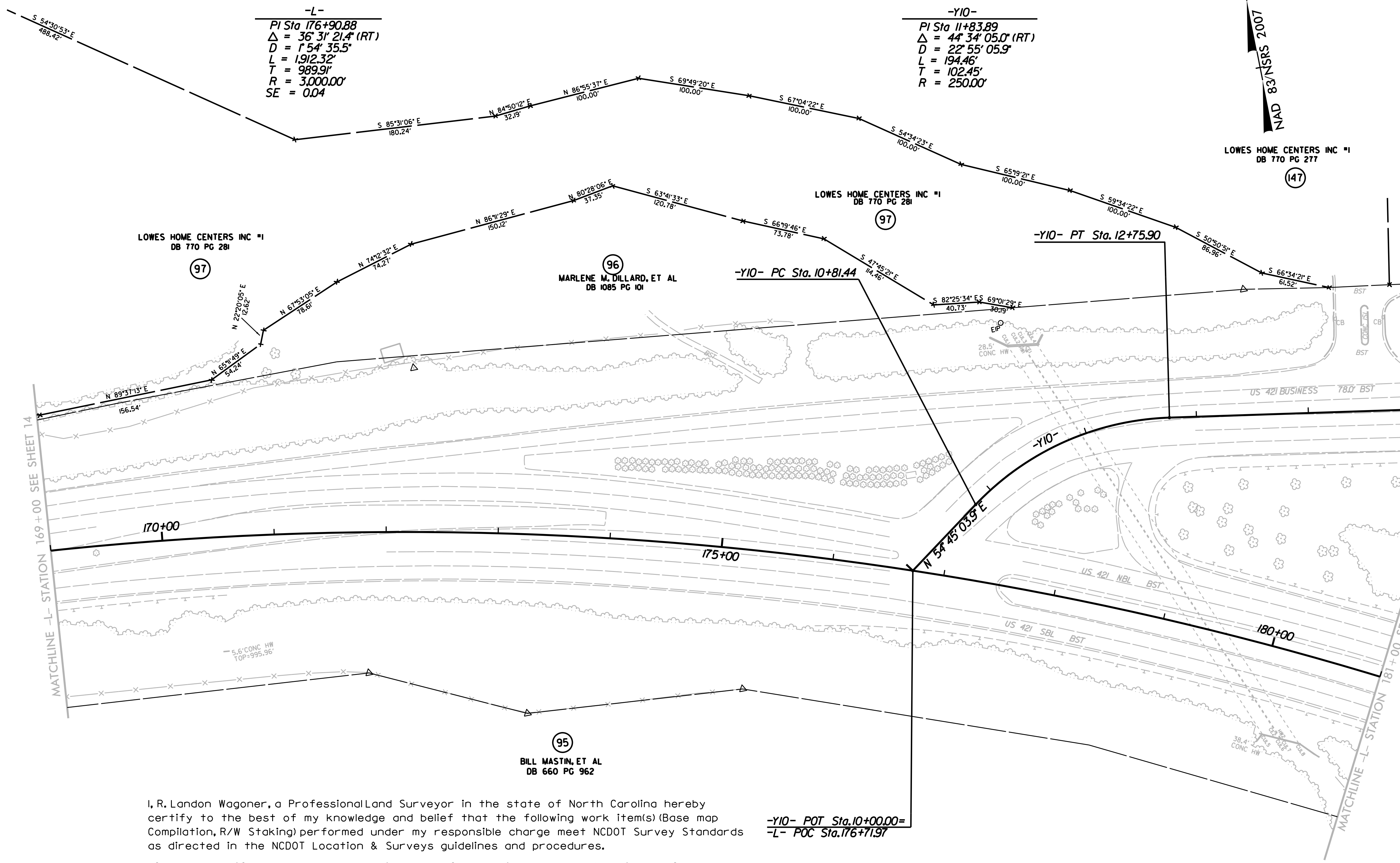
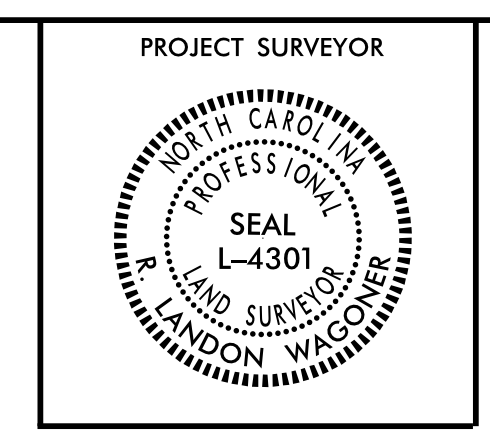
DocuSigned by:  
  
 10/16/2018  
 Professional Land Surveyor

L-4301  
 PLS #  
 Seal

**NOTES:**

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- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

6/2/2018  
 15:00 T: 2018\_09:05  
 I:\D\W\U5312\CONTROL SHEETS\U5312\_1s\_rw14.dgn  
 R. Landon Wagoner  
 20181016



I, R. Landon Wagoner, 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.

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Witness my original signature, registration number and seal this 10th day of October, 2018.

-Y10- POT Sta. 10+00.00 =  
-L- POC Sta. 176+71.97

**NOTES:**

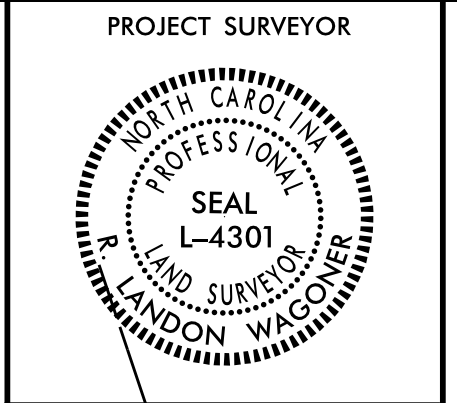
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- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

DocuSigned by:  
*R. Landon Wagoner* 10/16/2018  
94066137FD3042D  
Professional Land Surveyor

L-4301  
PLS # Seal

6/2/19

15:00 10/16/2018 09:13:24 \\s:\u5312\CONTROL SHEETS\U5312\_15.rw15.dgn  
4416228



-YII-		-YIO-	
PI Sta 15+70.97	$\Delta = 65' 41" 29.0" (LT)$	PI Sta 24+46.14	$\Delta = 18' 30" 20.2" (LT)$
D = 11' 27" 33.0"		D = 6' 54" 11.2"	
L = 573.27'		L = 268.08'	
T = 322.79'		T = 135.22'	
R = 500.00'		R = 830.00'	
-L-		PIs Sta 186+63.29	
PI Sta 176+90.88	$\Delta = 36' 31" 21.4" (RT)$	$\theta_s = 1' 25" 56.6"$	
D = 1' 54" 35.5"		Ls = 150.00'	
L = 1912.32'		LT = 100.00'	
T = 989.91'		ST = 50.00'	
R = 3,000.00'			

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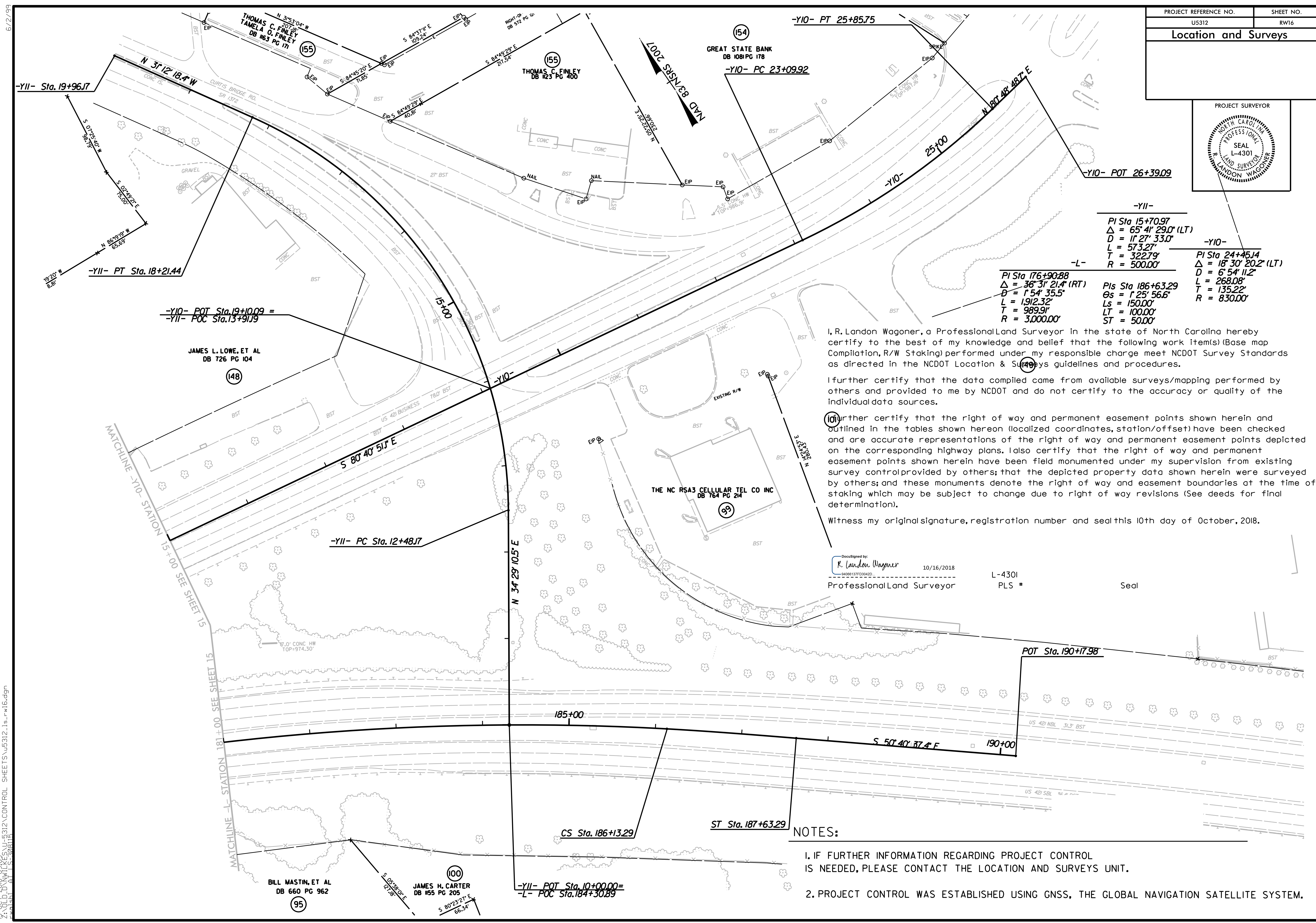
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Witness my original signature, registration number and seal this 10th day of October, 2018.

Digitally signed by: *R. Landon Wagoner* 10/16/2018  
 Professional Land Surveyor L-4301  
 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.



6/2/19  
 15-001-2018-09-09  
 Z:\15-001\U5312\CONTROL SHEETS\U5312-1s-rw16.dgn  
 20181115