

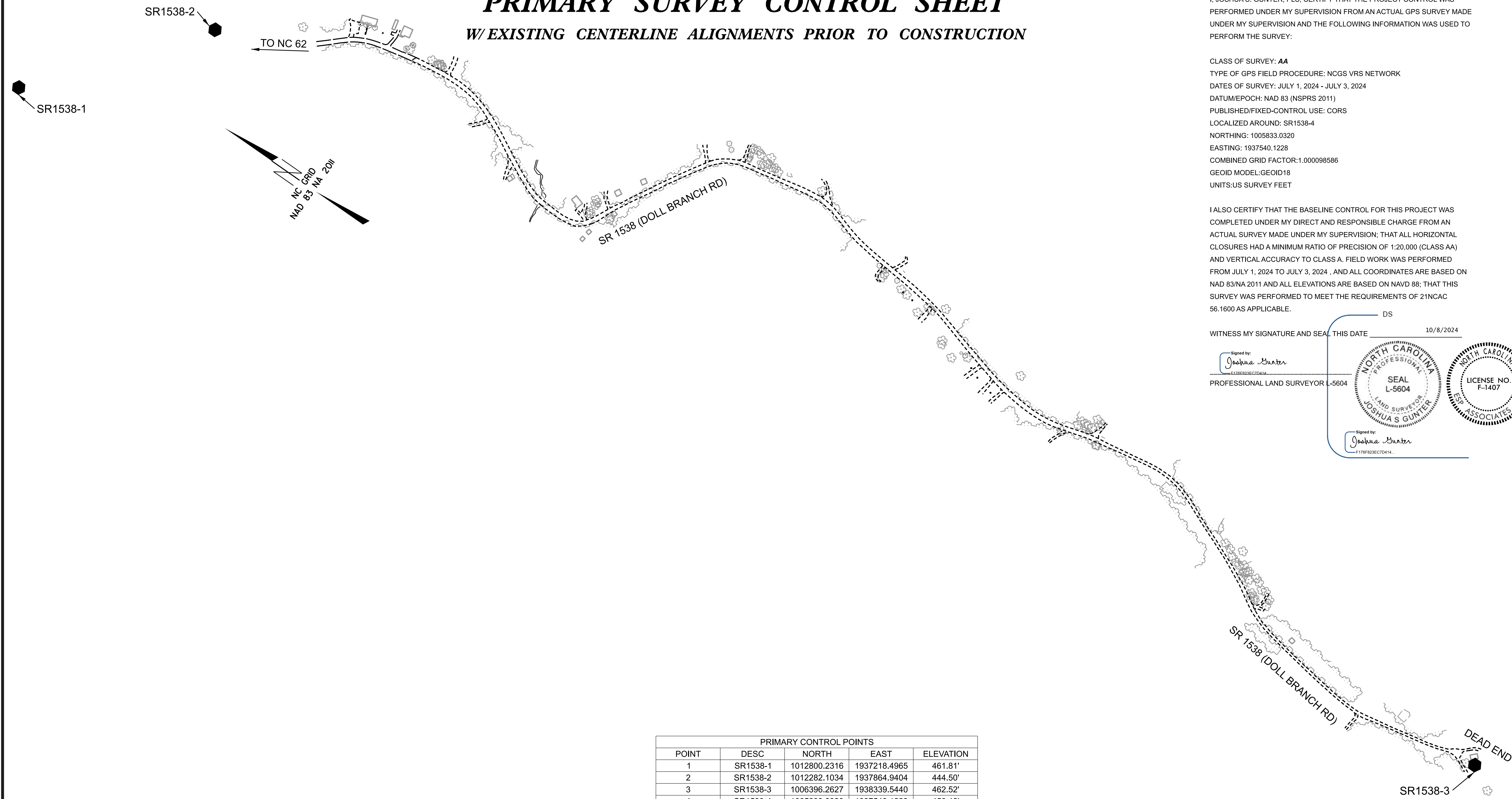
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shall not be considered a certified document.**

# PRIMARY SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



I, JOSHUA S. GUNTER, PLS, CERTIFY THAT THE PROJECT CONTROL WAS PERFORMED UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY:

CLASS OF SURVEY: AA  
 TYPE OF GPS FIELD PROCEDURE: NCGS VRS NETWORK  
 DATES OF SURVEY: JULY 1, 2024 - JULY 3, 2024  
 DATUM/EPOCH: NAD 83 (NSPRS 2011)  
 PUBLISHED/FIXED-CONTROL USE: CORS  
 LOCALIZED AROUND: SR1538-4  
 NORTHING: 1005833.0320  
 EASTING: 1937540.1228  
 COMBINED GRID FACTOR: 1.000098586  
 GEIOD MODEL: GEOID18  
 UNITS: US SURVEY FEET

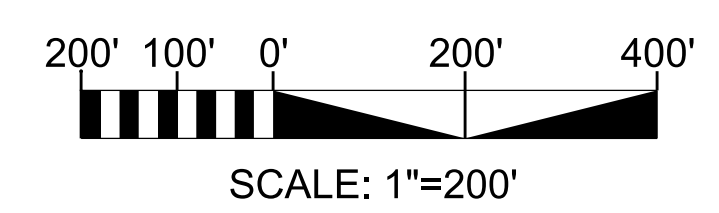
I ALSO CERTIFY THAT THE BASELINE CONTROL FOR THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:20,000 (CLASS AA) AND VERTICAL ACCURACY TO CLASS A. FIELD WORK WAS PERFORMED FROM JULY 1, 2024 TO JULY 3, 2024, AND ALL COORDINATES ARE BASED ON NAD 83/NA 2011 AND ALL ELEVATIONS ARE BASED ON NAVD 88; THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS OF 21NCAC 56.1600 AS APPLICABLE.

WITNESS MY SIGNATURE AND SEAL THIS DATE DS 10/8/2024

Signed by: *Joshua Gunter*  
 F17176923ECTD414  
 PROFESSIONAL LAND SURVEYOR L-5604

Signed by: *Joshua Gunter*  
 F17176923ECTD414

PRIMARY CONTROL POINTS				
POINT	DESC	NORTH	EAST	ELEVATION
1	SR1538-1	1012800.2316	1937218.4965	461.81'
2	SR1538-2	1012282.1034	1937864.9404	444.50'
3	SR1538-3	1006396.2627	1938339.5440	462.52'
4	SR1538-4	1005833.0320	1937540.1228	450.42'



- NOTES:**
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
  - 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.
  - ALL GPS POINTS ARE 24" REBAR W/ CAP UNLESS OTHERWISE NOTED.

**SR1538**

R/W 02G-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR

SEAL L-5604

JOSHUA S. GUNTER

2024 STANDARD SPECIFICATIONS

**TIP PROJECT: SR1538**

County: Caswell

PREPARED FOR

LOCATION AND SURVEYS UNIT

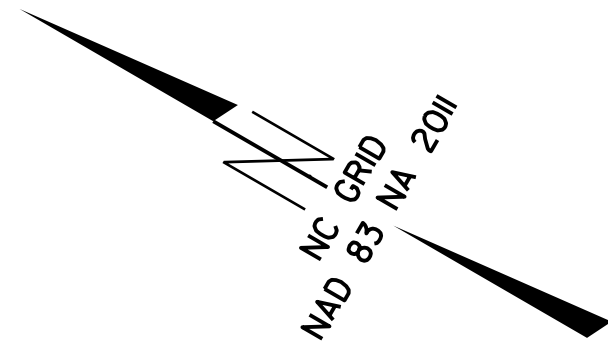
PREPARED BY

**ESP** Associates, Inc.

2800 Gateway Center Blvd. Raleigh, NC 27660

# SECONDARY SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

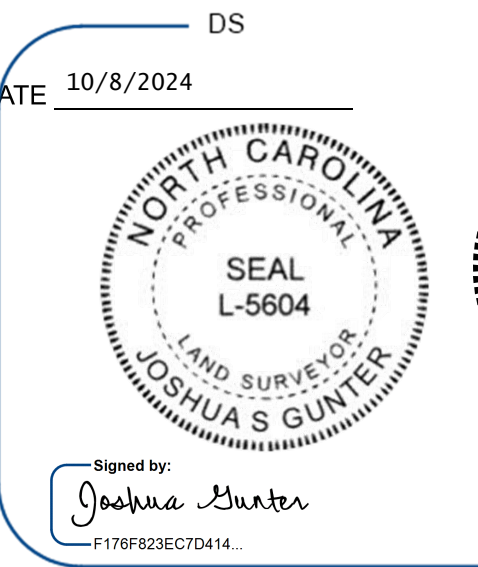


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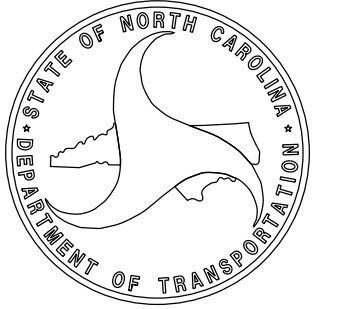
PROFESSIONAL LAND SURVEYOR L-5604



SR1538

R/W 02C-2

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

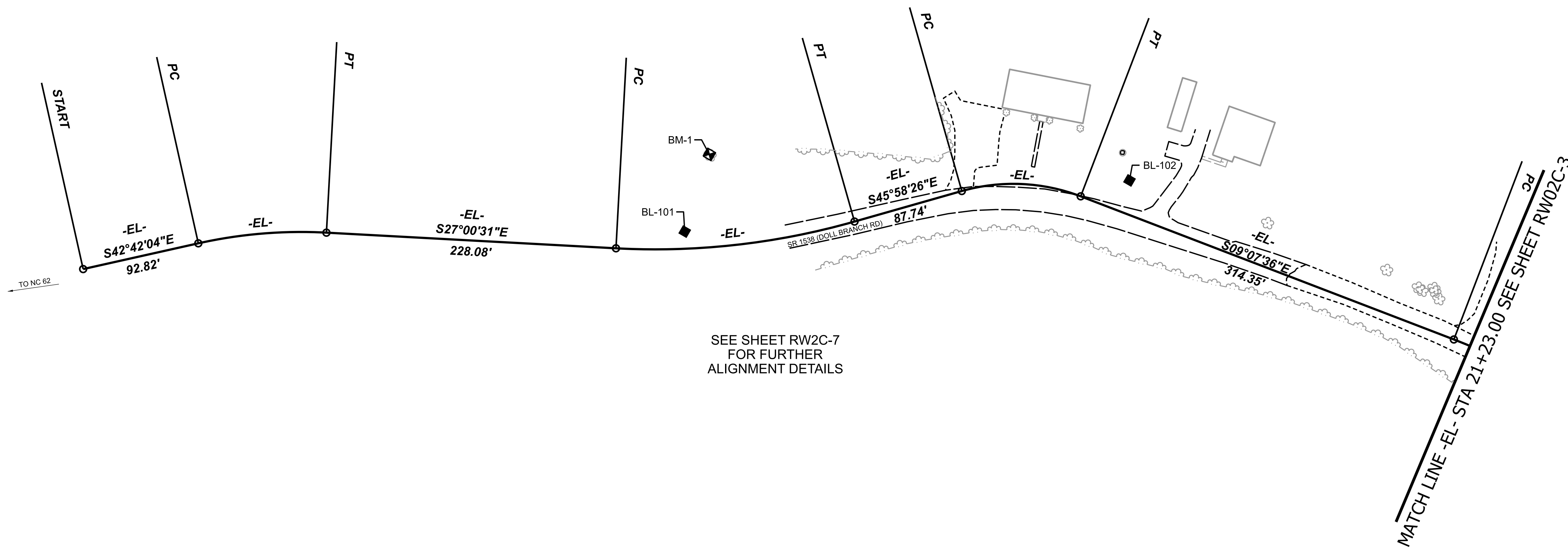


PROFESSIONAL LAND SURVEYOR

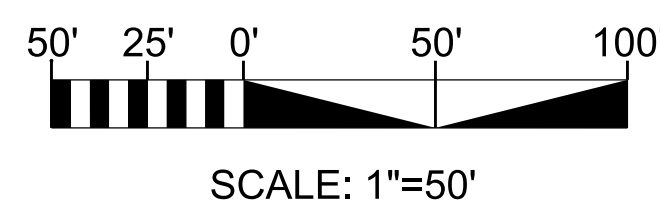


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES ARE COMPLETED

2024 STANDARD SPECIFICATIONS



SEE SHEET RW2C-7 FOR FURTHER ALIGNMENT DETAILS

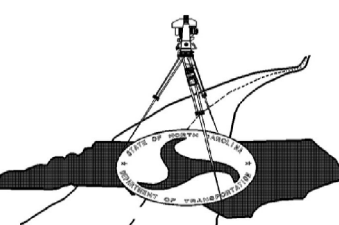


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3. ALL BASELINE POINTS ARE 24\"/>

TIP PROJECT: SR1538  
County: Caswell

PREPARED FOR



LOCATION AND SURVEYS UNIT

PREPARED BY



ESP Associates, Inc.  
2800 Gateway Center Blvd. Raleigh, NC 27606

# SECONDARY SURVEY CONTROL SHEET

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Signed by: *Joshua Gunter*  
PROFESSIONAL LAND SURVEYOR L-5604

DS

Seal: NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-5604 JOSHUA S. GUNTER

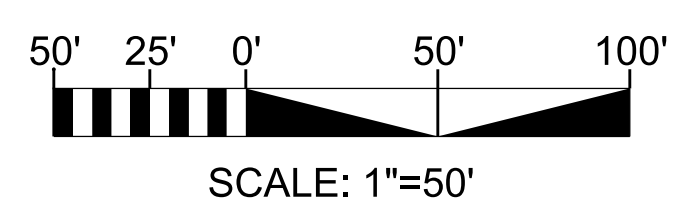
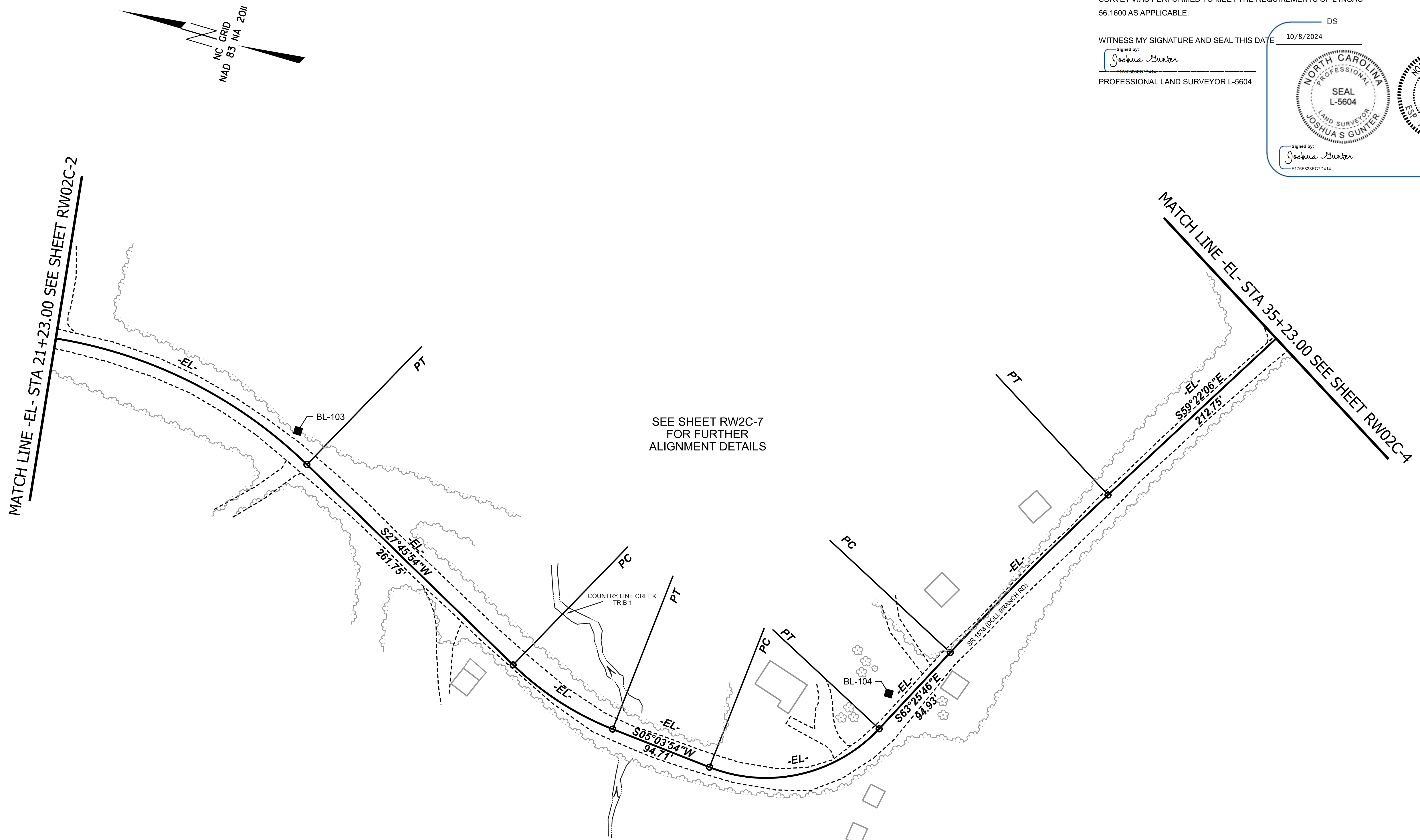
Seal: NORTH CAROLINA PROFESSIONAL ENGINEER LICENSE NO. F-1407 ESP ASSOCIATES, INC.

Signed by: *Joshua Gunter*  
F178F828ECTD414

SR1538  
R/W 02C-3  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

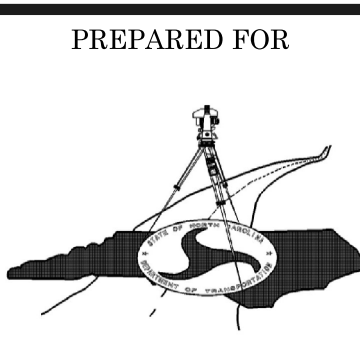
PROFESSIONAL LAND SURVEYOR  
NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-5604  
JOSHUA S. GUNTER

F178F828ECTD414  
2024 STANDARD SPECIFICATIONS



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TIP PROJECT: SR1538  
County: Caswell

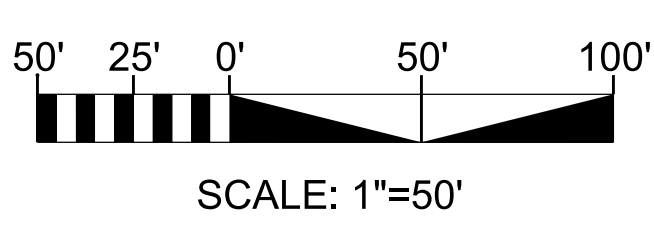
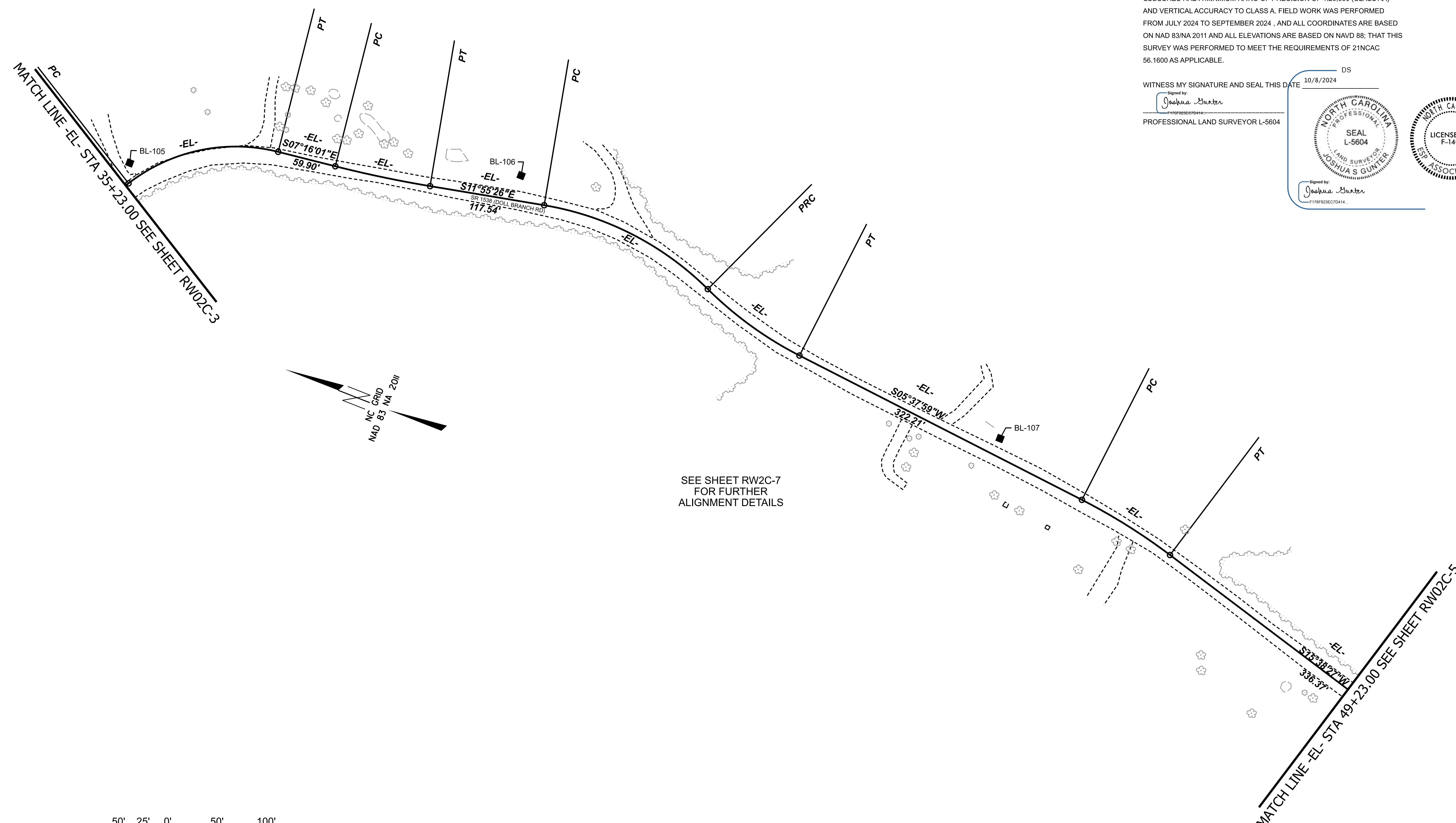


PREPARED BY

ESP Associates, Inc.  
2800 Gateway Centre Blvd. Meridian, NC 27650

# SECONDARY SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW2C-7  
FOR FURTHER  
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PROFESSIONAL LAND SURVEYOR L-5604

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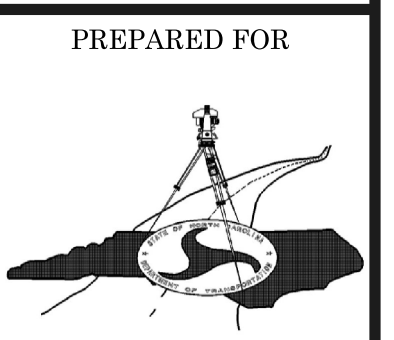


SR1538  
R/W 02C-4  
NORTH CAROLINA  
DEPARTMENT  
OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR  
NORTH CAROLINA  
SEAL  
L-5604  
JOSHUA S. GUNTER  
ESP ASSOCIATES, INC.

2024 STANDARD SPECIFICATIONS

**TIP PROJECT: SR1538**  
County: Caswell



LOCATION AND SURVEYS UNIT

PREPARED BY

ESP Associates, Inc.  
2800 Gateway Center Blvd. Morrisville, NC 27560

NOTES:

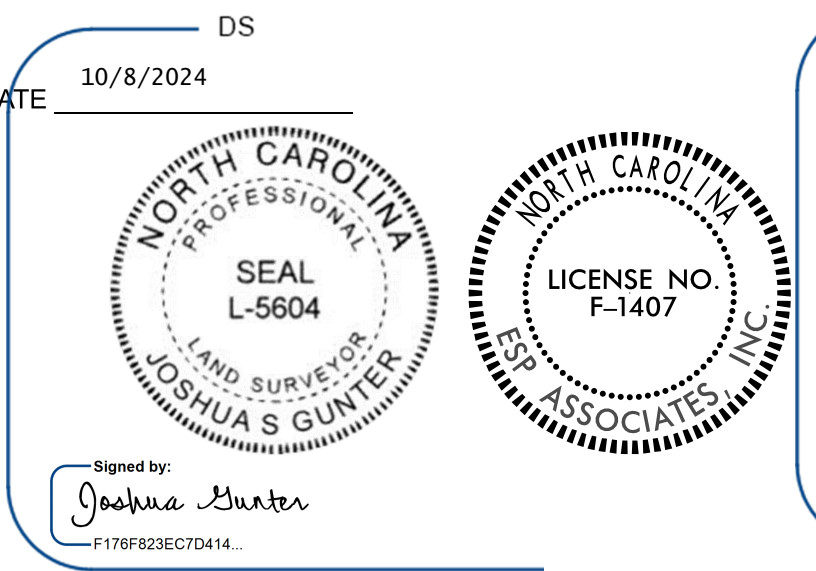
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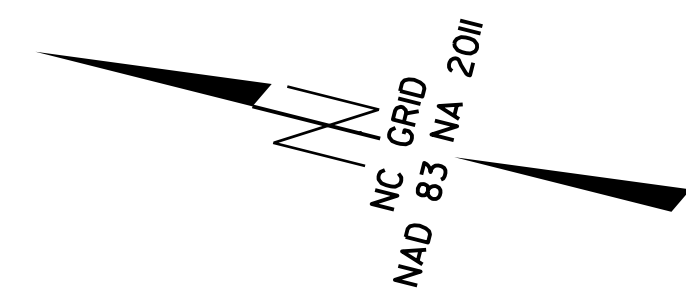
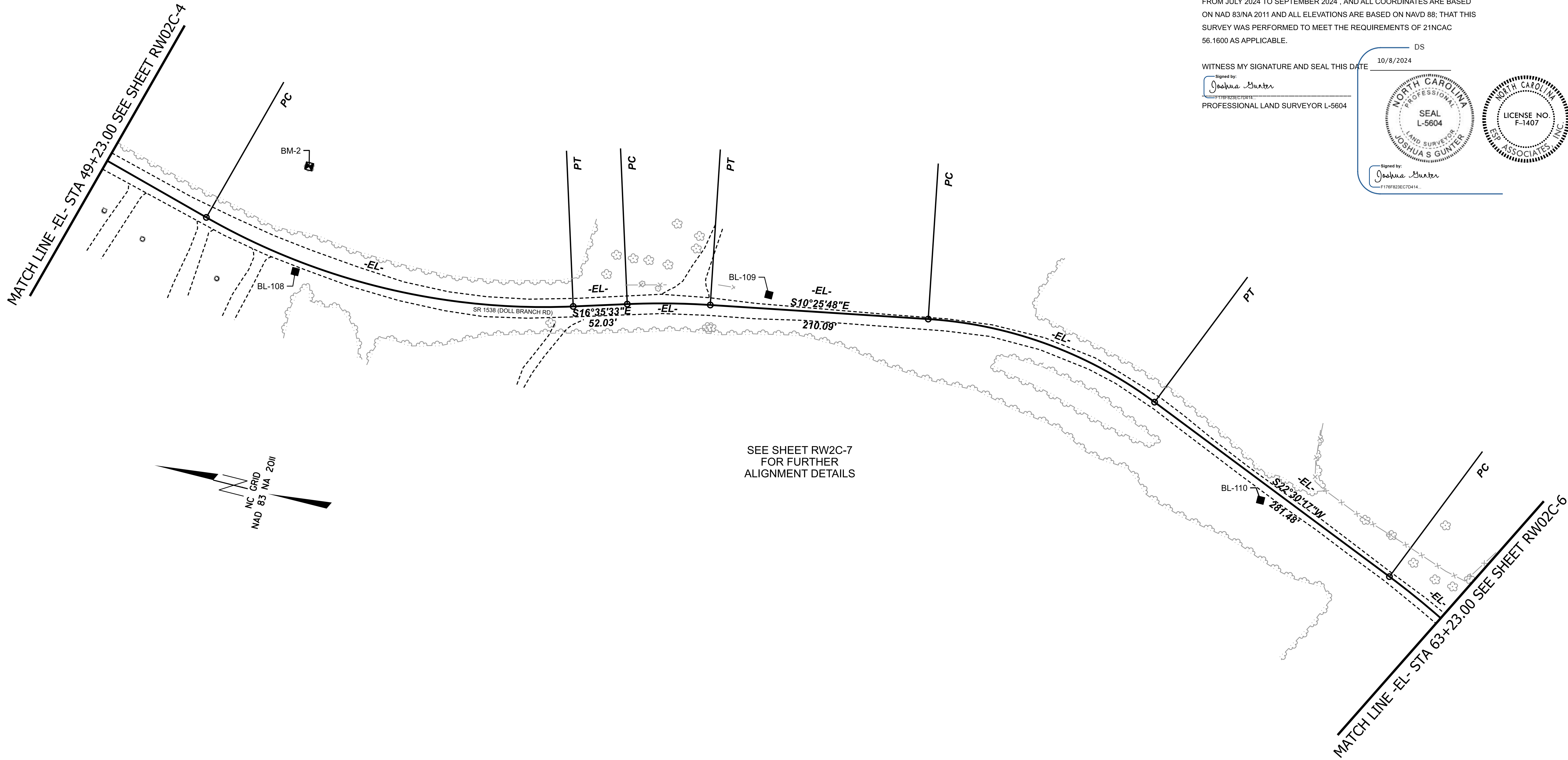
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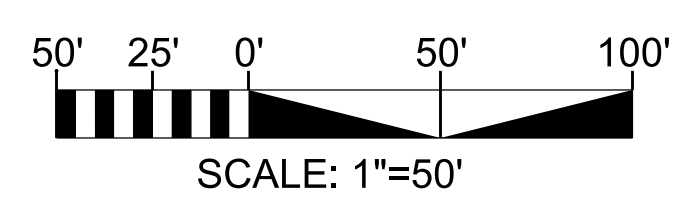
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PROFESSIONAL LAND SURVEYOR L-5604



SR1538  
R/W 02C-5  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
PROFESSIONAL LAND SURVEYOR  
SEAL L-5604  
JOSHUA S. GUNTER  
ESP ASSOCIATES, INC.  
LICENSE NO. F-1407  
2024 STANDARD SPECIFICATIONS



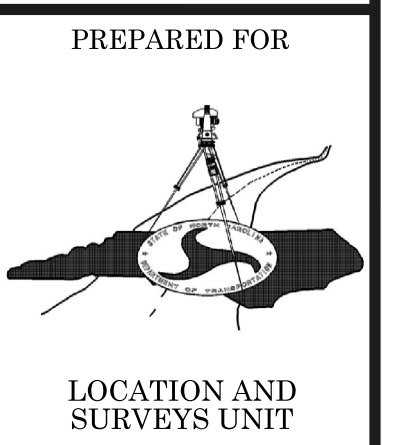
SEE SHEET RW2C-7 FOR FURTHER ALIGNMENT DETAILS



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TIP PROJECT: SR1538  
County: Caswell



PREPARED BY  
**ESP** Associates, Inc.  
2300 Gateway Center Blvd. Matthews, NC 27603

# SECONDARY SURVEY CONTROL SHEET

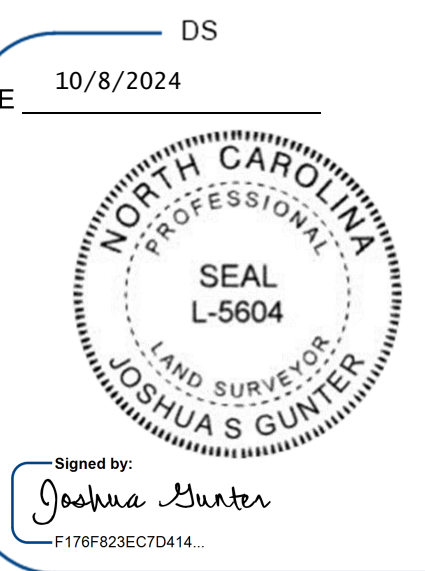
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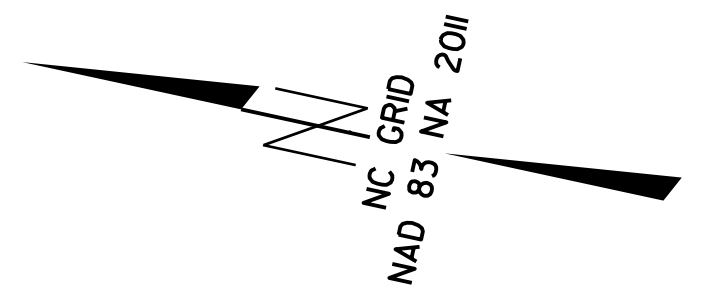
Signed by: Joshua Gunter

PROFESSIONAL LAND SURVEYOR L-5604

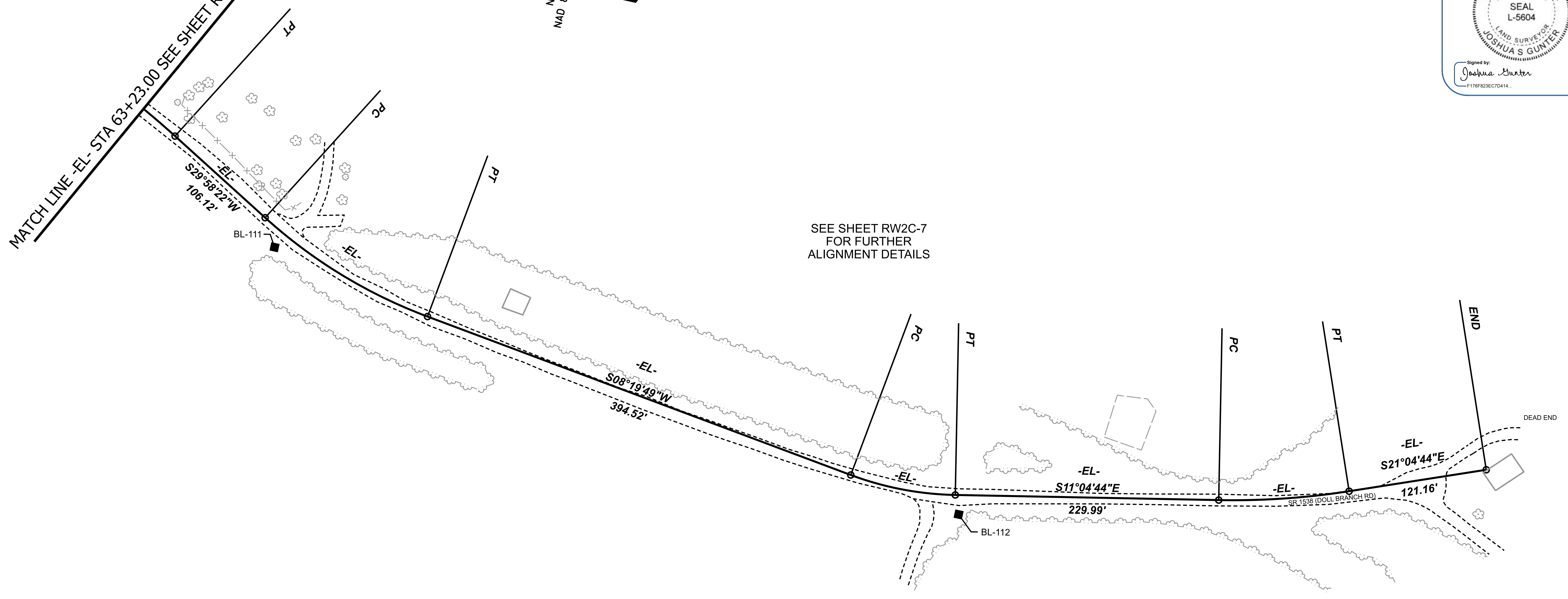
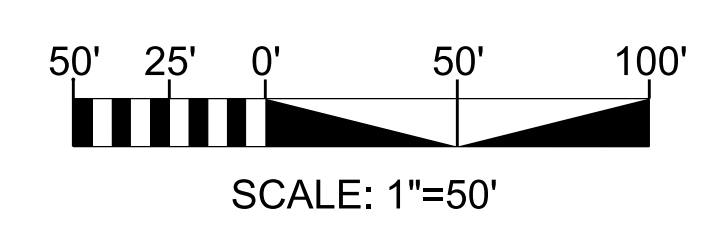


SR1538  
R/W 02C-6  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
PROFESSIONAL LAND SURVEYOR  
SEAL L-5604  
JOSHUA S. GUNTER  
ESP ASSOCIATES, INC.  
LICENSE NO. F-1407  
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2024 STANDARD SPECIFICATIONS

MATCH LINE - EL- STA 63+23.00 SEE SHEET RW02C-5



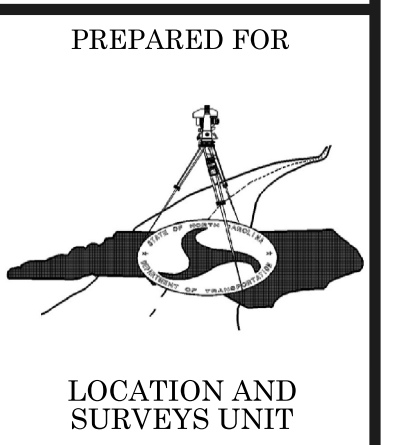
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TIP PROJECT: SR1538  
County: Caswell



PREPARED BY  
**ESP** Associates, Inc.  
200 Gateway Center Blvd. Meridian, NC 27660

# SECONDARY SURVEY CONTROL SHEET


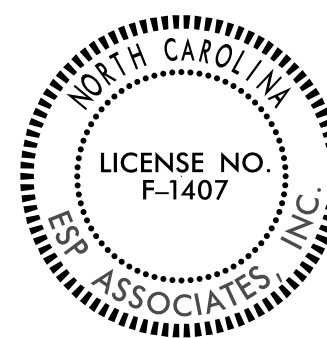
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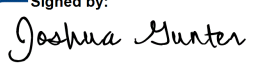
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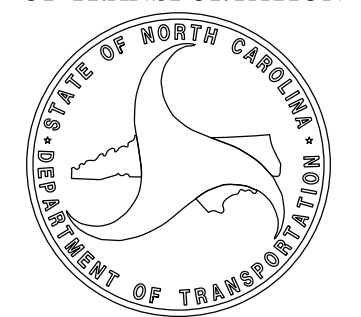



Signed by:  
  
 F176F823ECT0D14..


**SR1538**

R/W 02C-7

NORTH CAROLINA  
DEPARTMENT  
OF TRANSPORTATION



PROFESSIONAL LAND  
SURVEYOR



JOSHUA S. GUNTER

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL SIGNATURES  
ARE COMPLETED

2024 STANDARD  
SPECIFICATIONS

BASLINE POINTS TABLE: BL

POINT	DESCRIPTION	NORTHING	EASTING	ELEVATION
101	BL-101	1011984.1778	1938016.0853	435.62'
102	BL-102	1011701.6889	1938226.3219	413.50'
103	BL-103	1011169.5068	1938229.5957	373.45'
104	BL-104	1010586.1689	1938152.3443	396.48'
105	BL-105	1010343.8895	1938584.9765	432.86'
106	BL-106	1009969.0612	1938718.2748	456.22'
107	BL-107	1009418.5650	1938647.3788	472.94'
108	BL-108	1008795.0604	1938479.8910	469.50'
109	BL-109	1008347.7664	1938569.3667	476.46'
110	BL-110	1007840.8326	1938493.1345	472.25'
111	BL-111	1007507.7902	1938331.4206	480.39'
112	BL-112	1006874.8797	1938229.5007	469.85'

BENCHMARKS TABLE

BENCHMARK	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM-1	1011998	1938078	434.84'	YELLOW BENCH TIE W/TAG SET IN 15" OAK
BM-2	1008807	1938581	462.62'	YELLOW BENCH TIE W/TAG SET IN 15" GUM
BM-3	1006294	1938284	465.08'	YELLOW BENCH TIE W/TAG SET IN 24" ELM

EXISTING ALIGNMENT NAME:EL									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	1012378.764	1937753.320							
LINE			S42°42'04.3"E	92.82'					
PC	1012310.551	1937816.268							
CURVE					15°41'33.0" Right	15°28'14.99"	101.43'	51.04'	370.35'
PT	1012227.575	1937874.056							
LINE			S27°00'31.3"E	228.08'					
PC	1012024.369	1937977.633							
CURVE					18°57'55.0" Left	09°59'59.9"	189.65'	95.70'	572.96'
PT	1011872.594	1938089.905							
LINE			S45°58'26.3"E	87.74'					
PC	1011811.616	1938152.992							
CURVE					36°50'50.0" Right	38°41'32.8"	95.23'	49.33'	148.08'
PT	1011728.631	1938196.284							
LINE			S09°07'36.3"E	314.35'					
PC	1011418.261	1938246.146							
CURVE					36°53'30.0" Right	13°29'30.6"	273.44'	141.65'	424.67'
PT	1011153.070	1938202.629							
LINE			S27°45'53.7"E	261.75'					
PC	1010921.456	1938080.694							
CURVE					22°42'00.0" Left	20°54'39.1"	108.56'	55.00'	274.00'
PT	1010818.004	1938050.217							
LINE			S05°03'54.7"E	94.71'					
PC	1010723.664	1938041.856							
CURVE					68°29'40.0" Left	40°44'21.5"	168.13'	95.75'	140.64'
PT	1010585.461	1938119.039							
LINE			S63°25'46.3"E	94.93'					
PC	1010542.999	1938203.942							
CURVE					04°03'40.0" Right	01°59'59.9"	203.06'	101.57'	2864.79'
PT	1010445.816	1938382.183							
LINE			S59°22'06.3"E	212.75'					
PC	1010337.416	1938565.246							
CURVE					52°06'05.0" Right	32°23'46.0"	160.83'	86.45'	176.86'
PT	1010207.607	1938650.572							
LINE			S07°16'01.3"E	59.9'					
PC	1010148.188	1938658.149							
CURVE					04°39'25.0" Left	04°44'04.7"	98.36'	49.21'	1210.14'
PT	1010051.232	1938674.540							
LINE			S11°55'26.3"E	117.54'					
PC	1009936.228	1938698.826							
CURVE					35°17'05.0" Right	18°35'38.6"	189.76'	98.00'	308.14'
PT	1009750.378	1938680.215							
CURVE					17°43'40.0" Left	15°21'09.2"	115.47'	58.20'	373.20'
PT	1009639.029	1938651.425							
LINE			S05°37'58.7"E	322.21'					
PC	1009318.375	1938619.798							
CURVE					10°00'28.0" Right	09°27'55.3"	105.73'	53.00'	605.32'
PT	1009214.593	1938600.307							
LINE			S15°38'26.7"E	336.37'					
PC	1008890.679	1938509.620							
CURVE					32°14'00.0" Left	08°45'34.6"	367.98'	189.00'	654.09'
PT	1008527.548	1938512.636							
LINE			S16°35'33.3"E	52.03'					
PC	1008477.685	1938527.494							
CURVE					06°09'45.0" Right	07°42'38.0"	79.92'	40.00'	743.08'
PT	1008400.012	1938546.158							
LINE			S10°25'48.3"E	210.09'					
PC	1008193.393	1938584.192							
CURVE					32°56'05.0" Right	14°00'14.2"	235.18'	120.94'	409.14'
PT	1007962.723	1938559.796							
LINE			S22°30'16.7"E	281.48'					
PC	1007702.678	1938452.057							
CURVE					07°28'05.0" Right	07°28'42.9"	99.86'	50.00'	766.13'
PT	1007613.171	1938407.939							
LINE			S29°58'21.7"W	106.12'					
PC	1007521.244	1938354.923							
CURVE					21°38'33.0" Left	12°57'57.8"	166.92'	84.47'	441.89'
PT	1007364.501	1938300.488							
LINE			S08°19'48.7"W	394.52'					
PC	1006974.143	1938243.331							
CURVE					19°24'33.0" Left	20°47'43.8"	93.33'	47.12'	275.52'
PT	1006881.282	1938245.559							
LINE			S11°04'44.3"E	229.99'					
PC	1006655.578	1938289.754							
CURVE					10°00'00.0" Left	08°45'15.8"	114.23'	57.26'	654.48'
PT	1006545.958	1938321.351							
LINE			S21°04'44.3"E	121.16'					
END	1006432.905	1938364.927							

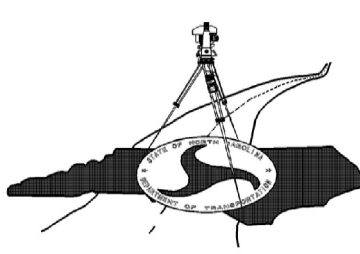
**NOTES:**

- PROJECT CONTROL WAS ESTABLISHED USING GNSS. THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE EXISTING 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 UNITS.
- ALL BASELINE POINTS ARE 24" REBAR W/CAP UNLESS OTHERWISE NOTED.

**TIP PROJECT: SR1538**


County: Caswell

PREPARED FOR



LOCATION AND  
SURVEYS UNIT

PREPARED BY



**ESP Associates, Inc.**  
 2800 Gateway Center Blvd. Morrisville, NC 27560