

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

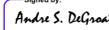
PROJECT REFERENCE NO. W-5704E	SHEET NO. RW02C-1
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Andre S. DeGroat, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

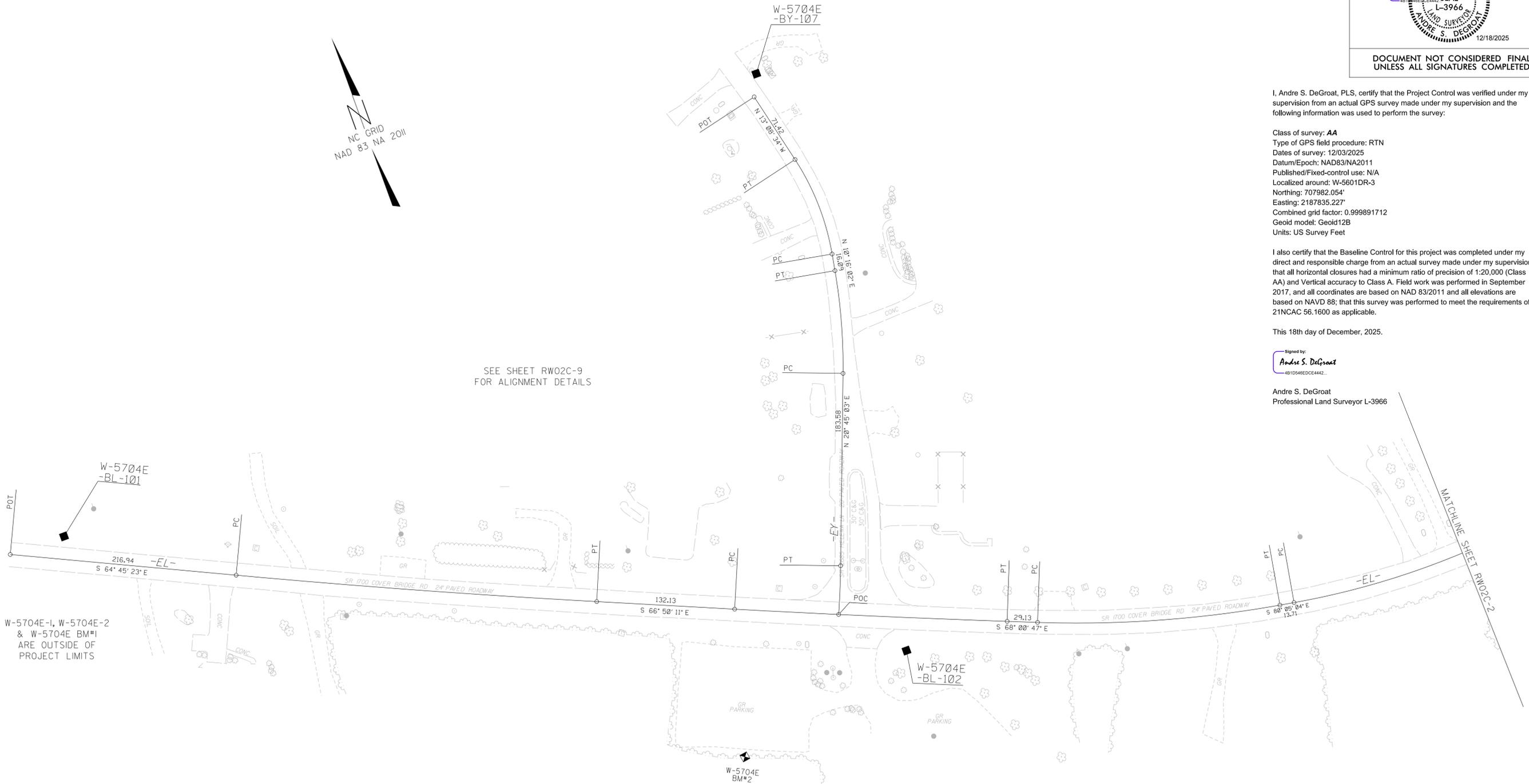
Class of survey: **AA**
 Type of GPS field procedure: RTN
 Dates of survey: 12/03/2025
 Datum/Epoch: NAD83/NA2011
 Published/Fixed-control use: N/A
 Localized around: W-5601DR-3
 Northing: 707982.054'
 Easting: 2187835.227'
 Combined grid factor: 0.999891712
 Geoid model: Geoid12B
 Units: US Survey Feet

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 in September 2017, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 18th day of December, 2025.

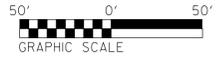
Signed by:

 Andre S. DeGroat
 48105480DC4442

Andre S. DeGroat
 Professional Land Surveyor L-3966



SEE SHEET RW02C-9 FOR ALIGNMENT DETAILS

W-5704E-1, W-5704E-2 & W-5704E BM#1 ARE OUTSIDE OF PROJECT LIMITS



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.

18-DEC-2025 13:37 Location and Surveys\5704E.CON.WE1-01 26105.30\30-Drawings\Control Sheets\5704e.1s-rw02c-1.dgn
 P:\2025\NC001 Location and Surveys\5704E.CON.WE1-01 WE1-45\WBN34 mschwartz

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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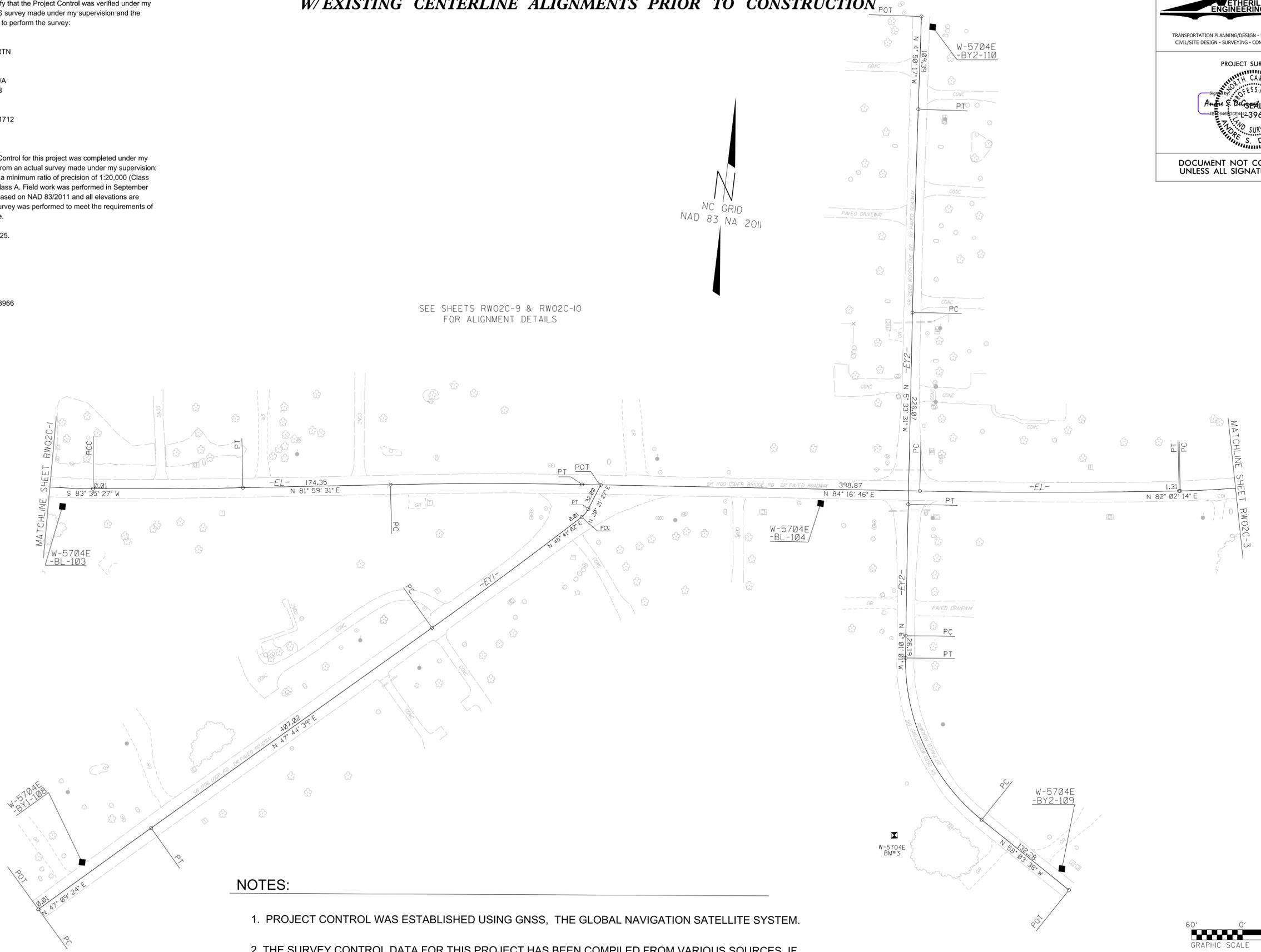
Signed by:
Andre S. DeGroat
4B1D548EDCE4442...

Andre S. DeGroat
Professional Land Surveyor L-3966

PROJECT REFERENCE NO.	SHEET NO.
W-5704E	RW02C-2
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
12/18/2025	
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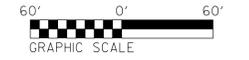


SEE SHEETS RW02C-9 & RW02C-10
FOR ALIGNMENT DETAILS



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REVISIONS

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mschwarz AT WET-45WBN34

SURVEY CONTROL SHEET

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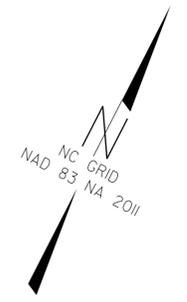
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This 18th day of December, 2025.

Signed by:
Andre S. DeGroat
481D548EDCE4442...

Andre S. DeGroat
Professional Land Surveyor L-3966

PROJECT REFERENCE NO. W-5704E	SHEET NO. RW02C-3
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
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PROJECT SURVEYOR  12/18/2025	
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REVISIONS



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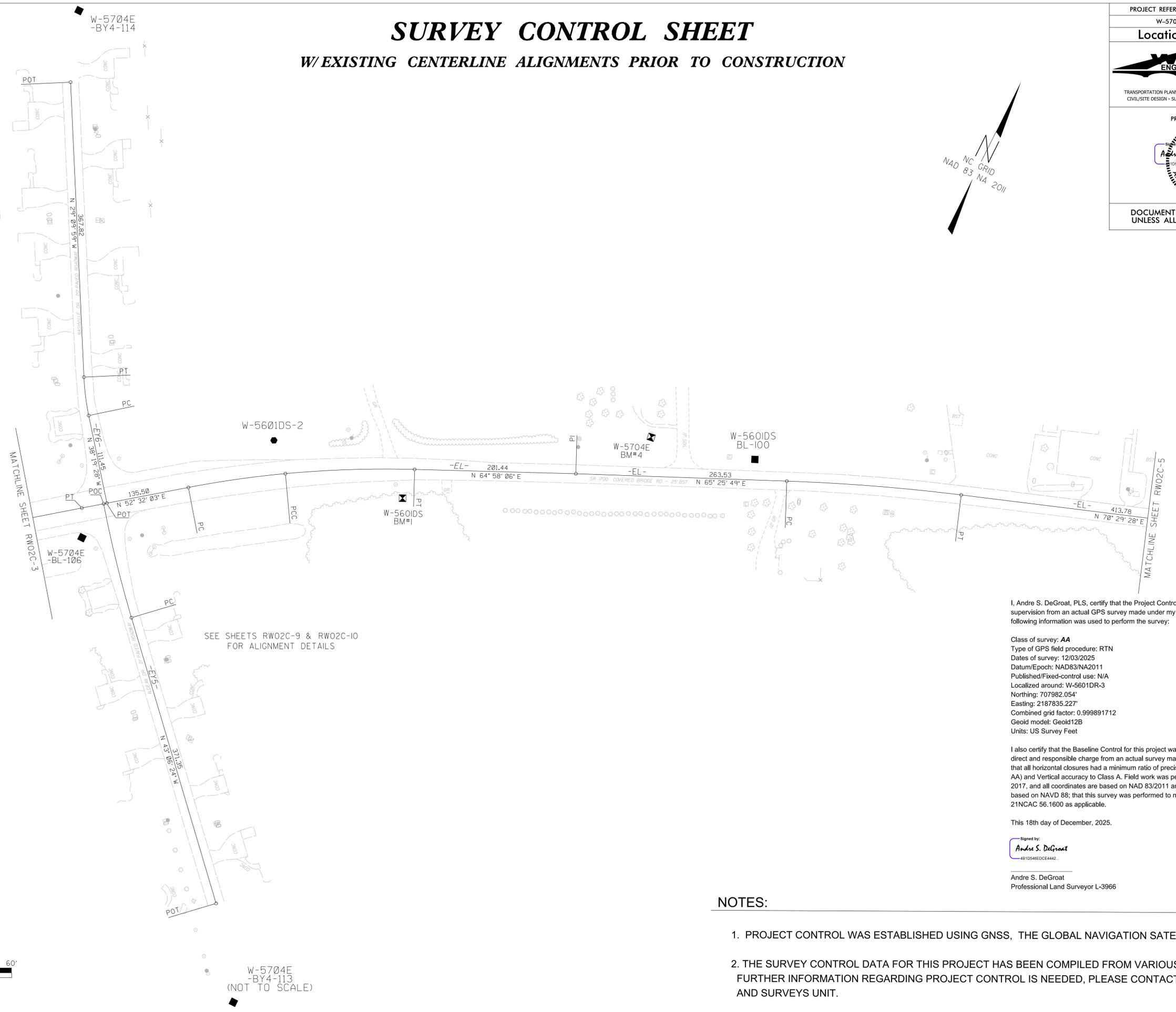
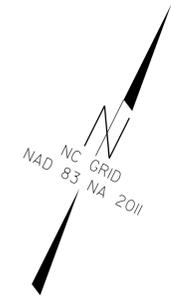
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mschwarz

W-5704E
-BY3-111

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. W-5704E	SHEET NO. RW02C-4
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
12/18/2025	
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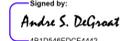


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This 18th day of December, 2025.

Signed by:

 481D546EDCE4442

Andre S. DeGroat
 Professional Land Surveyor L-3966

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REVISIONS

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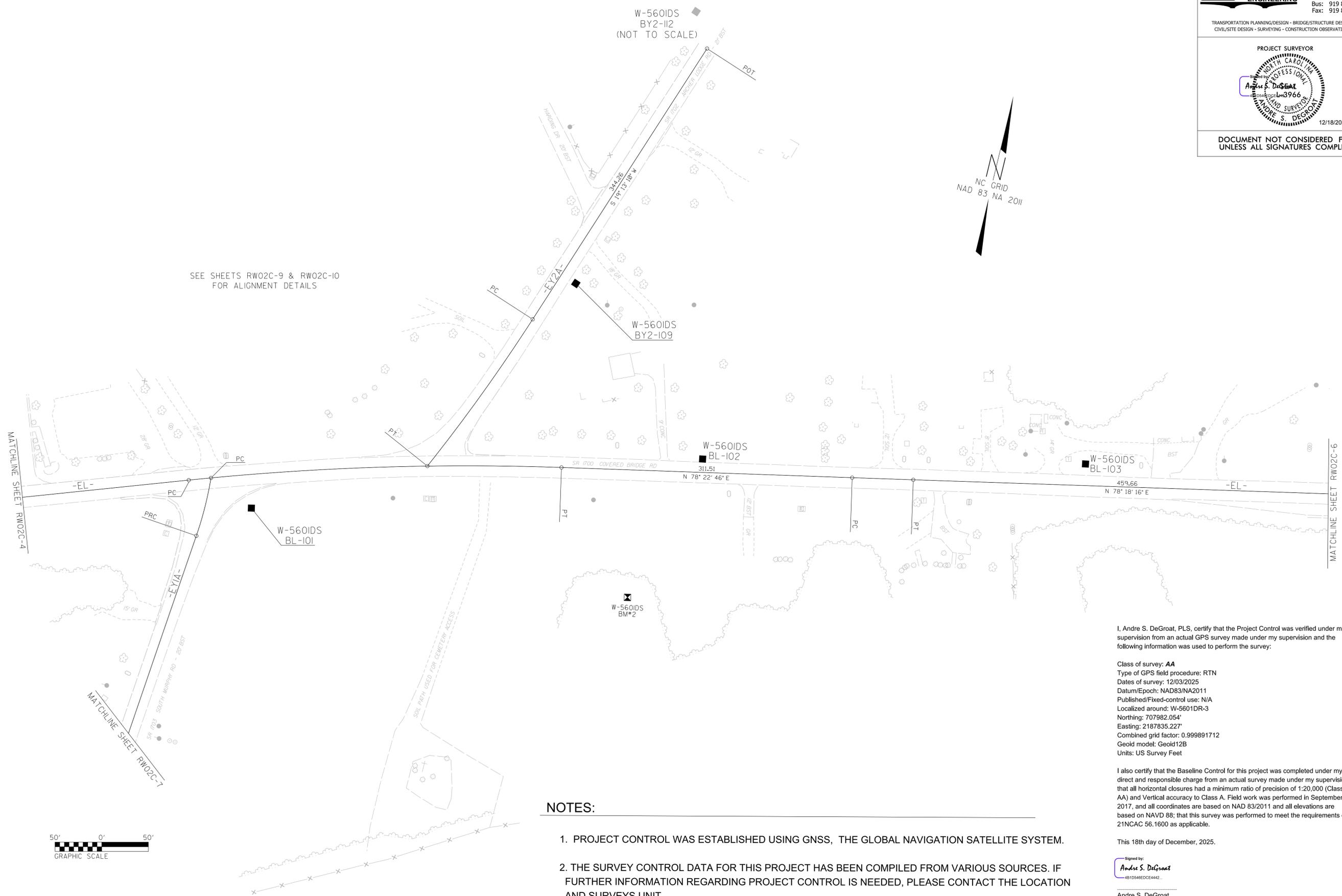


W-5704E
 -BY4-113
 (NOT TO SCALE)

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. W-5704E	SHEET NO. RW02C-5
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
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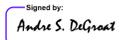
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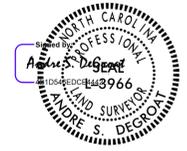
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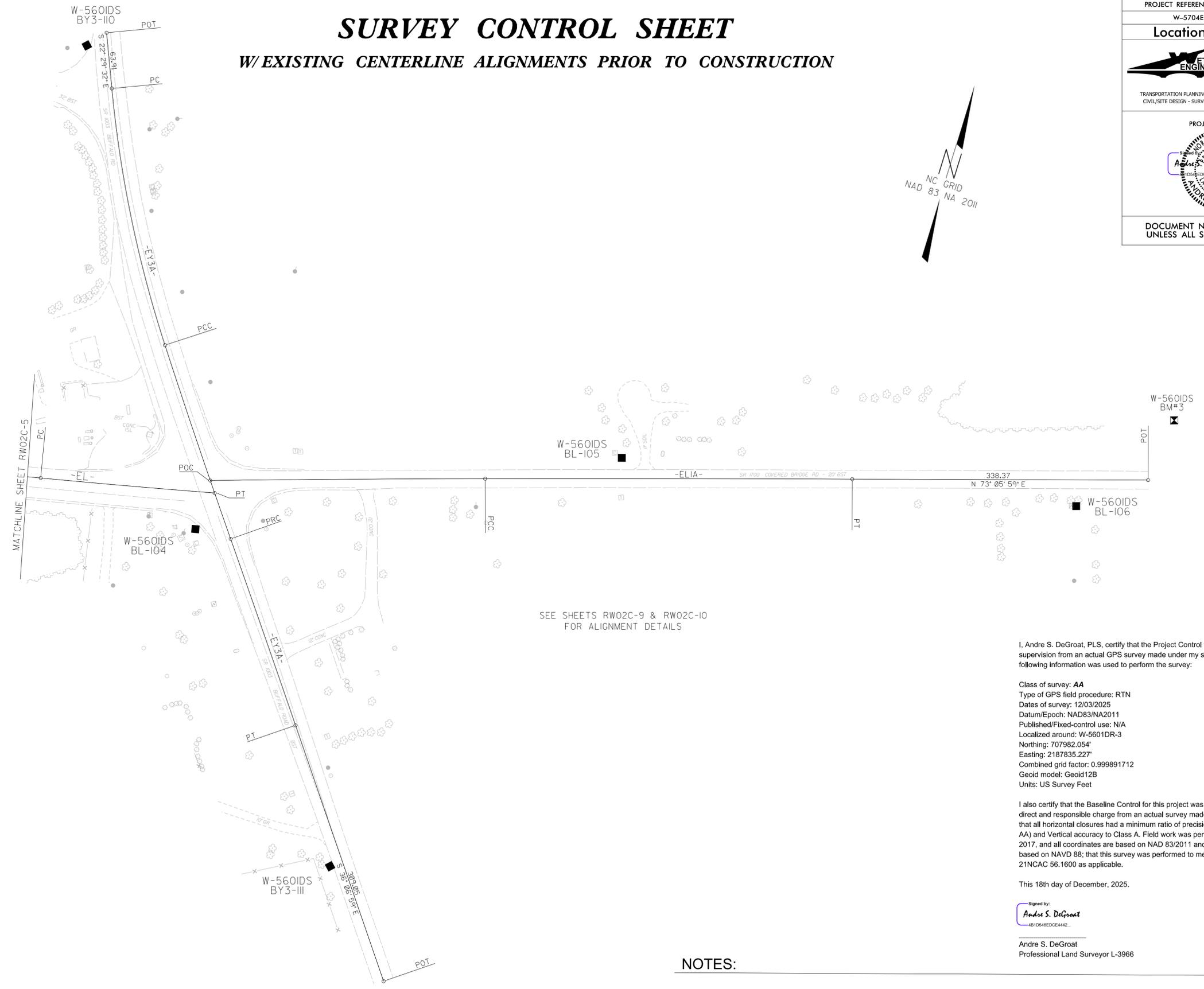
REVISIONS

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 mschwartz AT WEI-45\WBN24

SURVEY CONTROL SHEET

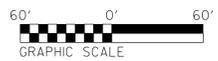
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. W-5704E	SHEET NO. RW02C-6
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR 	
12/18/2025	
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REVISIONS

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 mschwartz AT WEI-45WBN34



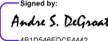
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 481D546EDCE4442

Andre S. DeGroat
 Professional Land Surveyor L-3966

NOTES:

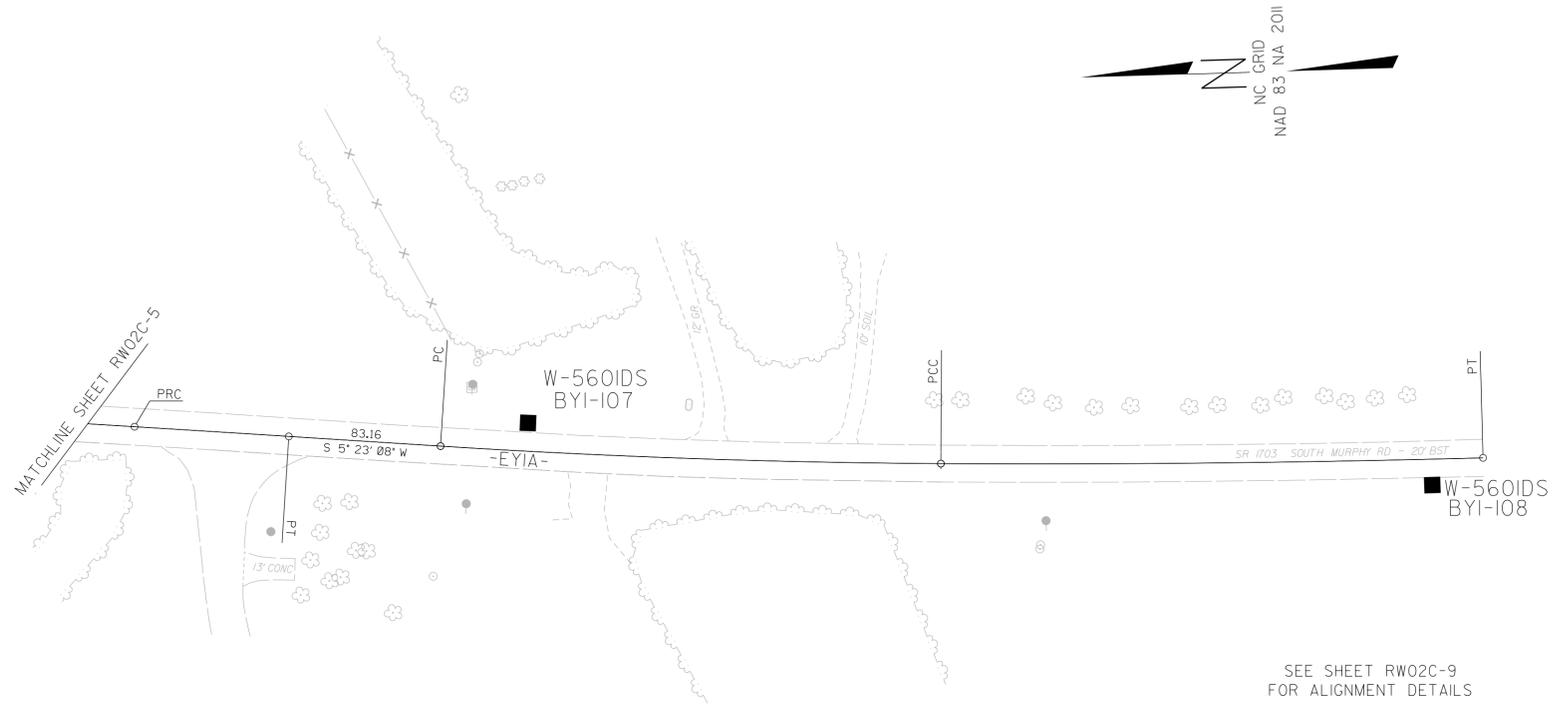
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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12/18/2025	
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REVISIONS



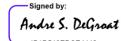
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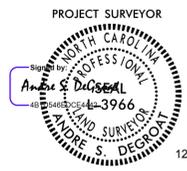
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 mschwartz AT WEI-45WBN34

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
W-5704E	RW02C-8
Location and Surveys	
	
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W-5601DS SURVEY CONTROL

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		W-5601DS-1	705956.6500	2182821.6930	333.78
2		W-5601DS-2	706586.0710	2183668.8680	326.64
100		W-5601 BL-100	706833.4440	2184216.6720	332.63
101		W-5601 BL-101	707034.0510	2184929.1170	335.28
102		W-5601 BL-102	707198.8390	2185386.3920	330.50
103		W-5601 BL-103	707290.3170	2185786.1570	328.03
104		W-5601 BL-104	707319.8940	2186247.3100	336.22
105		W-5601 BL-105	707541.0390	2186689.6190	324.24
106		W-5601 BL-106	707641.1040	2187202.6580	310.10
3		W-5601DR-3	707982.0540	2187835.2270	318.09
4		W-5601DR-4	708675.6130	2188511.7630	331.36

W-5704E SURVEY CONTROL

BL	POINT	DESC.	NORTH	EAST	ELEVATION
3		W-5704E-1	706425.2060	2178692.1100	330.99
4		W-5704E-2	706066.3030	2179402.2700	333.12
101		W-5704E BL-101	706036.7150	2179563.5550	334.12
102		W-5704E BL-102	705658.4530	2180283.2590	334.85
103		W-5704E BL-103	705542.8080	2180832.2050	329.81
104		W-5704E BL-104	705652.7570	2181720.6620	337.50
105		W-5704E BL-105	705727.6000	2182265.8160	332.47
1		W-5601DS-1	705956.6500	2182821.6930	333.84
106		W-5704E BL-106	706370.4530	2183508.7240	327.92
2		W-5601DS-2	706586.0710	2183668.8680	326.65

BY	POINT	DESC.	NORTH	EAST	ELEVATION
A102		W-5704E BL-102	705658.4530	2180283.2590	334.85
107		W-5704E BY-107	706224.8880	2180336.7700	330.14

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
E0101		W-5601 BL-101	707034.0510	2184929.1170	335.28
107		W-5601 BY1-107	706528.3480	2184851.0910	334.24
108		W-5601 BY1-108	706034.9420	2184802.2470	324.67

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
108		W-5704E BY1-108	705129.2680	2180905.1210	336.07
A104		W-5704E BL-104	705652.7570	2181720.6620	337.50

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
112		W-5601 BY2-112	707835.4970	2185343.1000	333.79
109		W-5601 BY2-109	707349.0890	2185210.2290	335.42
EQA101		W-5601 BL-101	707034.0510	2184929.1170	335.28

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
109		W-5704E BY2-109	705259.1880	2182054.6190	337.72
B104		W-5704E BL-104	705652.7570	2181720.6620	337.50
110		W-5704E BY2-110	706225.9020	2181785.3480	337.64

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
110		W-5601 BY3-110	707811.1580	2185966.2650	336.54
E0104		W-5601 BL-104	707319.8940	2186247.3100	336.22
111		W-5601 BY3-111	706997.2980	2186507.6640	334.59

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
111		W-5704E BY3-111	705348.5770	2182911.8120	334.98
A1		W-5601DS-1	705956.6500	2182821.6930	333.81
112		W-5704E BY3-112	706464.9730	2182611.7050	335.49

W-5601DS BENCHMARKS

.....
 BM*1 ELEVATION = 329.05
 N 706593 E 2183845
 RR SPIKE IN BASE OF 15' GUM

.....
 BM*2 ELEVATION = 327.73
 N 707036 E 2185343
 RR SPIKE IN BASE OF 50' OAK

.....
 BM*3 ELEVATION = 307.71
 N 707768 E 2187281
 RR SPIKE IN BASE OF 18' POPLAR

W-5704E BENCHMARKS

.....
 BM1 ELEVATION = 336.31
 N 706300 E 2178870
 NAIL SET IN 48' OAK

.....
 BM2 ELEVATION = 335.28
 N 705616 E 2180103
 NAIL SET IN 16' PINE

.....
 BM3 ELEVATION = 337.70
 N 705275 E 2181854
 NAIL SET IN 20' SWEET GUM

.....
 BM4 ELEVATION = 335.85
 N 706800 E 2184089
 NAIL SET IN 30' PECAN

BY4	POINT	DESC.	NORTH	EAST	ELEVATION
113		W-5704E BY4-113	705900.5500	2183972.9030	334.09
A106		W-5704E BL-106	706370.4530	2183508.7240	327.92
114		W-5704E BY4-114	706955.9870	2183211.7420	333.61

NOTES:

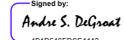
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

I, Andre S. DeGroat, PLS, certify that the Project Control was verified 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: RTN
 Date of survey: 12/03/2025
 Datum/Epoch: NAD83/NA2011
 Published/Fixed-control use: N/A
 Localized around: W-5601DR-3
 Northing: 707982.054'
 Easting: 2187835.227'
 Combined grid factor: 0.999891712
 Geoid model: Geoid12B
 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 in September 2017, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 18th day of December, 2025.

Signed by:

 4810546EDCE4442

Andre S. DeGroat
 Professional Land Surveyor L-3966

REVISIONS

18-DEC-2025 13:46 P:\2025\NCDOT\Location_and_Surveys\W5704E_CON_WET-01_26105_30-Drawings\Control_Sheets\W5704e_1s_rw02c-8.dgn
 mschwartz AT WEI-45WBN34

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

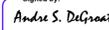
PROJECT REFERENCE NO. W-5704E	SHEET NO. RW02C-9
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR 	
12/18/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Andre S. DeGroat, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

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This 18th day of December, 2025.

Signed by:

 ANDRE S. DEGROAT
 #810546EDCE444Z

Andre S. DeGroat
 Professional Land Surveyor L-3966

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	706038.116	2179509.336	S 64°45'22.7" E	216.94					
LINE									
PC	705945.597	2179705.561	S 65°47'46.9" E	345.75	02°04'48.4"(LT)	00°36'05.7"	345.77	172.90	9524.02
CURVE									
PT	705803.846	2180020.917	S 66°50'11.1" E	132.13					
LINE									
PC	705751.873	2180142.392	S 67°25'29.1" E	260.87	01°10'35.8"(LT)	00°27'03.7"	260.87	130.44	12703.15
CURVE									
PT	705651.728	2180383.269	S 68°00'47.0" E	29.13					
LINE									
PC	705640.822	2180410.280	S 74°02'55.4" E	232.35	12°04'16.9"(LT)	05°11'08.6"	232.78	116.82	1104.87
CURVE									
PT	705576.967	2180633.684	S 80°05'03.9" E	13.71					
LINE									
PC	705574.607	2180647.184	S 88°14'48.7" E	218.47	16°19'29.6"(LT)	07°26'49.6"	219.21	110.35	769.37
CURVE									
PT	705567.924	2180865.552	S 83°35'26.5" W	0.01					
LINE									
PC	705567.923	2180865.544	N 82°47'28.6" E	177.00	01°35'55.9"(LT)	00°54'11.8"	177.00	88.51	6343.03
CURVE									
PT	705590.133	2181041.144	N 81°59'30.6" E	174.35					
LINE									
PC	705614.423	2181213.794	N 83°08'08.1" E	226.17	02°17'14.9"(RT)	01°00'40.8"	226.18	113.11	5665.30
CURVE									
PT	705641.454	2181438.338	N 84°16'45.5" E	398.87					
LINE									
PC	705681.214	2181835.224	N 83°09'29.9" E	306.11	02°14'31.3"(LT)	00°43'56.5"	306.13	153.09	7823.34
CURVE									
PT	705717.680	2182139.158	N 82°02'14.2" E	1.31					
LINE									
PC	705717.861	2182140.454	N 76°41'53.7" E	198.06	10°40'41.0"(LT)	05°23'01.1"	198.34	99.46	1064.26
CURVE									
PT	705763.430	2182333.196	N 71°21'33.4" E	0.00					
LINE									
PC	705763.430	2182333.197	N 68°49'11.6" E	143.21	05°04'43.3"(LT)	03°32'42.4"	143.26	71.68	1616.19
CURVE									
PT	705815.173	2182466.735	N 66°16'49.9" E	82.10					
LINE									
PC	705848.200	2182541.904	N 64°13'11.6" E	313.14	04°07'16.7"(LT)	01°18'57.0"	313.21	156.67	4354.37
CURVE									
PT	705984.392	2182823.880	N 62°09'33.2" E	333.42					
LINE									
PC	706140.104	2183118.706	N 56°57'51.6" E	251.61	10°23'23.3"(LT)	04°07'25.3"	251.95	126.32	1389.43
CURVE									
PT	706277.271	2183329.637	N 51°46'09.9" E	0.01					
LINE									
PC	706277.275	2183329.643	N 52°09'06.6" E	205.60	00°45'53.3"(RT)	00°22'19.2"	205.60	102.80	15402.46
CURVE									
PT	706403.425	2183491.991	N 52°32'03.2" E	135.50					
LINE									
PC	706485.846	2183599.537	N 55°20'59.0" E	122.35	05°37'51.4"(RT)	04°36'01.6"	122.40	61.25	1245.44
CURVE									
PT	706555.410	2183700.188	N 58°09'54.6" E	0.00					
LINE									
PC	706555.411	2183700.188	N 61°34'00.3" E	161.50	06°48'11.2"(RT)	04°12'36.0"	161.59	80.89	1360.95
CURVE									
PT	706632.306	2183842.206	N 64°58'05.9" E	201.44					
LINE									
POT	706717.538	2184024.723	N 65°25'48.7" E	263.53					
LINE									
PC	706827.113	2184264.390	N 67°56'42.8" E	218.52	05°05'30.7"(RT)	02°19'45.8"	218.59	109.37	2459.69
CURVE									
PT	706909.166	2184466.919	N 70°29'28.1" E	413.78					
LINE									
PC	707047.349	2184856.945	N 74°26'07.3" E	399.32	07°53'18.3"(RT)	01°58'26.0"	399.64	200.14	2902.69
CURVE									
PT	707154.497	2185241.624	N 78°22'46.4" E	311.51					
LINE									
PC	707217.245	2185546.752	N 78°20'31.3" E	65.50	00°04'30.2"(RT)	00°06'52.5"	65.50	32.75	50000.00
CURVE									
PT	707230.480	2185610.898	N 78°18'16.2" E	459.66					
LINE									
PC	707323.658	2186061.019	N 77°49'25.0" E	199.65	00°57'42.5"(LT)	00°28'54.2"	199.66	99.83	11893.86
CURVE									
PT	707365.769	2186256.181							

EL1A POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	707377.980	2186247.256	N 72°32'37.6" E	314.50	00°35'10.3"(RT)	00°11'11.0"	314.51	157.25	30739.97
CURVE									
PCC	707472.324	2186547.276	N 72°58'06.1" E	419.92	00°15'46.6"(RT)	00°03'45.4"	419.92	209.96	91502.41
CURVE									
PT	707595.319	2186948.781	N 73°05'59.4" E	338.37					
LINE									
POT	707693.686	2187272.541							

EY POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	705713.062	2180234.097	N 22°20'01.5" E	46.56	03°09'57.8"(LT)	06°47'57.9"	46.56	23.29	842.66
CURVE									
PT	705756.127	2180251.789	N 20°45'02.6" E	183.58					
LINE									
PC	705927.799	2180316.832	N 15°30'32.1" E	98.35	10°29'00.9"(LT)	10°38'40.9"	98.49	49.38	538.26
CURVE									
PT	706022.567	2180343.130	N 10°16'01.7" E	16.09					
LINE									
PC	706038.404	2180345.998	N 01°26'16.2" W	96.89	23°24'35.8"(LT)	23°59'40.2"	97.56	49.47	238.79
CURVE									
PT	706135.260	2180343.567	N 13°08'34.2" W	71.42					
LINE									
POT	706204.808	2180327.328							

EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	705068.178	2180860.463	N 47°09'23.7" E	0.01					
LINE									
PC	705068.186	2180860.472	N 47°27'01.1" E	163.90	00°35'14.8"(RT)	00°21'30.3"	163.90	81.95	15986.05
CURVE									
PT	705179.023	2180981.218	N 47°44'38.5" E	407.02					
LINE									
PC	705452.717	2181202.470	N 46°42'50.4" E	219.62	02°03'36.2"(LT)	00°56'16.7"	219.63	109.83	6108.54
CURVE									
PT	705603.297	2181442.339	N 45°41'02.3" E	0.01					
LINE									
PC	705603.304	2181442.346	N 33°01'14.5" E	12.34	25°19'35.7"(LT)	203°39'11.4"	12.44	6.32	28.13
CURVE									
PT	705613.647	2181449.068	N 20°21'26.7" E	32.00					
LINE									
POT	705643.645	2181460.199							

NOTES:

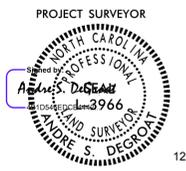
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REVISIONS

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 mschwarz AT WEI-45WBN34

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
W-5704E	RW02C-10
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
<small>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION</small>	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY1A									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	707055.249	2184879.539							
CURVE			S 00°37'43.1" W	63.86	09°43'28.5"(RT)	15°12'32.9"	63.94	32.05	376.72
PCC	706991.391	2184878.839							
CURVE			S 05°22'03.8" W	248.88	00°14'48.1"(LT)	00°05'56.9"	248.88	124.44	57799.86
PCC	706743.607	2184855.557							
CURVE			S 05°18'54.0" W	84.57	00°08'28.5"(RT)	00°10'01.3"	84.57	42.28	34303.74
PT	706659.404	2184847.723							
PC	706576.608	2184839.918							
CURVE			S 03°43'47.4" W	273.89	03°18'41.7"(LT)	01°12'32.1"	273.93	137.00	4739.41
PCC	706303.298	2184822.101							
CURVE			S 01°07'24.0" W	296.61	01°54'05.2"(LT)	00°38'27.7"	296.62	148.32	8937.96
PT	706006.748	2184816.286							

EY2									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	705235.254	2182065.941	N 58°03'37.6" W	132.28					
LINE									
PC	705305.231	2181953.691							
CURVE			N 32°02'19.5" W	210.86	52°02'36.2"(RT)	23°50'28.9"	218.29	117.33	240.32
PT	705483.978	2181841.829							
LINE			N 06°01'01.4" W	26.19					
PC	705510.028	2181839.084							
CURVE			N 05°47'16.0" W	154.82	00°27'30.8"(RT)	00°17'46.2"	154.82	77.41	19344.96
PT	705664.061	2181823.471							
LINE			N 05°33'30.6" W	226.07					
PC	705889.072	2181801.573							
CURVE			N 05°11'53.6" W	239.59	00°43'14.1"(RT)	00°18'02.7"	239.59	119.80	19050.66
PT	706127.675	2181779.866							
LINE			N 04°50'16.5" W	109.39					
POT	706236.675	2181770.640							

EY2A									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	707626.135	2185207.692							
LINE			S 19°13'09.8" W	344.26					
PC	707301.059	2185174.366							
CURVE			S 22°05'26.6" W	193.13	05°44'33.5"(RT)	02°58'19.8"	193.21	96.69	1927.74
PT	707122.104	2185101.734							

EY3									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	705400.278	2182879.857	N 11°52'55.9" W	431.44					
LINE									
PC	705822.475	2182791.023							
CURVE			N 12°39'59.1" W	133.00	01°34'06.3"(LT)	01°10'45.4"	133.00	66.50	4858.59
PT	705952.234	2182761.861							
LINE			N 13°27'02.2" W	0.03					
POT	705952.266	2182761.853							

EY3A									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	707831.654	2185983.658							
LINE			S 22°29'32.2" E	63.91					
PC	707772.607	2186008.106							
CURVE			S 28°48'54.1" E	299.23	12°38'43.9"(LT)	04°13'02.9"	299.84	150.53	1358.54
PCC	707510.428	2186152.330							
CURVE			S 35°50'32.2" E	233.63	01°24'32.3"(LT)	00°36'11.0"	233.63	116.82	9500.70
PCC	707321.042	2186289.132							
CURVE			S 36°19'53.8" E	225.30	00°25'49.0"(RT)	00°11'27.5"	225.30	112.65	30000.00
PT	707139.543	2186422.611							
LINE			S 36°06'59.3" E	309.05					
POT	706889.888	2186604.772							

EY4									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	706008.219	2182868.994							
LINE			N 28°06'19.8" W	0.00					
PC	706008.220	2182868.994							
CURVE			N 27°24'21.4" W	21.02	01°23'56.8"(RT)	06°39'16.0"	21.03	10.51	861.01
PT	706026.885	2182859.316							
LINE			N 26°42'23.1" W	543.28					
POT	706512.204	2182615.158							

EY5									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	706037.869	2183862.292							
LINE			N 43°06'23.8" W	371.35					
PC	706308.983	2183608.529							
CURVE			N 40°19'40.1" W	146.03	05°33'27.4"(RT)	03°40'15.2"	146.09	73.10	1506.11
PT	706420.312	2183514.022							
LINE			S 37°32'56.4" E	0.00					
POT	706420.310	2183514.024							

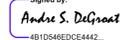
EY6									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	706422.866	2183517.360							
LINE			N 38°19'27.7" W	111.45					
PC	706510.296	2183448.251							
CURVE			N 33°44'43.2" W	48.23	09°09'28.8"(RT)	18°58'03.3"	48.28	24.19	302.07
PT	706550.401	2183421.459							
LINE			N 29°09'58.8" W	367.82					
POT	706871.581	2183242.205							

I, Andre S. DeGroat, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

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 Northing: 707982.054'
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 Combined grid factor: 0.999891712
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 Units: US Survey Feet

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This 18th day of December, 2025.

Signed by:

 Andre S. DeGroat
 Professional Land Surveyor L-3966

NOTES:

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REVISIONS

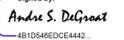
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 mschwartz AT WEI-45\WB34

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. W-5704E	SHEET NO. RW02D-1
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
<small>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION</small>	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Andre S. DeGroat, 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 18th day of December, 2025.

Signed by:

 Andre S. DeGroat
 Professional Land Surveyor L-3966

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	706038.1160	2179509.3360
PC	12+16.92	705945.6044	2179705.5448
PT	15+62.73	705803.8393	2180020.9329
PC	19+67.23	705644.7260	2180392.8248
PT	25+11.28	705573.8634	2180925.4964
PC	27+97.13	705613.6866	2181208.5606
PT	30+33.88	705641.9810	2181443.5963
PC	35+50.76	705693.5034	2181957.9046
PT	43+22.90	705915.0449	2182692.5783
PC	48+16.02	706145.3392	2183128.6182
PT	50+09.20	706249.4510	2183291.0802
PC	53+97.29	706485.5194	2183599.1114
PT	56+98.17	706640.3083	2183856.3853
PC	59+92.60	706762.8778	2184124.0918
PT	65+19.60	706960.6960	2184612.3647
PC	67+73.16	707045.3730	2184851.3678
PT	70+11.55	707109.8948	2185080.6864
PC	78+78.42	707288.9479	2185928.8544
PRC	87+29.73	707523.8743	2186746.3543
PT	90+65.66	707630.5787	2187064.8346
POT	92+82.74	707693.6855	2187272.5415

Y6

TYPE	STATION	NORTH	EAST
POT	10+00.00	706871.5810	2183242.2050
PC	13+74.79	706544.3146	2183424.8558
PT	14+03.76	706520.1265	2183440.7541
PC	16+15.66	706351.9369	2183569.6510
PT	16+35.35	706336.9227	2183582.3777
POT	20+44.96	706037.8690	2183862.2920

Y7

TYPE	STATION	NORTH	EAST
POT	10+00.00	707626.1345	2185287.6925
PC	13+90.10	707257.7783	2185159.2775
PT	15+07.83	707142.5431	2185137.3215
PC	15+53.72	707096.6907	2185135.4355
PT	18+37.21	706840.5237	2185028.4948
PC	19+70.54	706742.9501	2184937.6263
PCC	22+47.48	706493.3245	2184831.0084
PT	27+34.34	706006.7480	2184816.2860

Y8

TYPE	STATION	NORTH	EAST
POT	10+00.00	707831.6540	2185983.6575
PC	10+62.85	707773.5818	2186007.7026
PT	13+88.62	707490.1699	2186166.7744
POT	21+31.71	706889.8880	2186604.7720

Y9

TYPE	STATION	NORTH	EAST
POT	10+00.00	706473.9947	2184427.5551
PC	12+74.15	706646.5888	2184640.5596
PT	15+33.37	706674.7694	2184884.5391
POT	15+35.09	706674.0202	2184886.0862

DRW1

TYPE	STATION	NORTH	EAST
POT	10+00.00	706888.9720	2184868.5622
PC	11+22.11	706767.3512	2184857.6252
PT	11+53.67	706736.2756	2184852.3365
POT	12+00.68	706690.6899	2184840.8197

DRW2

TYPE	STATION	NORTH	EAST
POT	10+00.00	705554.7856	2181347.8815
PC	11+07.63	705536.2957	2181453.9079
PT	11+72.77	705500.2979	2181505.7500
POT	11+81.33	705492.9123	2181510.0730

DRW3

TYPE	STATION	NORTH	EAST
POT	10+00.00	706910.2943	2185080.5309
PC	10+52.15	706883.8504	2185125.4773
PT	11+06.55	706838.3046	2185150.0627
POT	11+06.99	706837.8623	2185150.0410

Y1

TYPE	STATION	NORTH	EAST
POT	10+00.00	706204.8080	2180327.3280
PC	10+66.16	706140.3808	2180342.3714
PT	11+94.16	706013.5820	2180341.4018
PC	13+37.82	705874.2025	2180306.6011
PT	14+41.43	705775.1495	2180276.3411
POT	15+15.64	705705.3993	2180251.0147

Y2

TYPE	STATION	NORTH	EAST
POT	10+00.00	705631.2933	2181345.1963
PC	10+33.52	705597.9961	2181349.0943
PT	11+76.00	705469.5330	2181300.9783
POT	16+08.02	705179.0225	2180981.2181

Y3

TYPE	STATION	NORTH	EAST
POT	10+00.00	706236.6750	2181770.6400
PC	11+09.39	706127.6746	2181779.8657
PT	13+89.62	705848.6294	2181805.5521
PC	17+54.66	705485.3810	2181841.6857
PT	19+74.36	705305.2312	2181953.6908
POT	21+06.64	705235.2540	2182065.9410

Y4

TYPE	STATION	NORTH	EAST
POT	10+00.00	705945.1637	2182749.6053
PC	10+27.50	705920.8468	2182762.4483
PT	10+83.21	705868.6237	2182781.3131
POT	15+61.81	705400.2780	2182879.8570

Y5

TYPE	STATION	NORTH	EAST
POT	10+00.00	706512.2040	2182615.1580
POT	15+64.30	706008.0989	2182868.7670

REVISIONS

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 AT: WET-01_26105.30\80-Drawings\Control Sheets\W5704e_1s_rw02d-1_wet-01-251218.dgn
 mschwarz

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.	SHEET NO.
W-5704E	RW03E-1
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
12/18/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP-L				
ALIGN	STATION	OFFSET	NORTH	EAST
L	13+00.00	-30.00	705937.7489	2179793.3971
L	13+00.00	30.00	705883.2577	2179768.2832
L	13+00.00	40.00	705874.1759	2179764.0976
L	13+00.00	-40.00	705946.8309	2179797.5828
L	15+62.73	45.00	705762.4670	2180003.2318
L	15+62.73	-45.00	705845.2117	2180038.6340
L	16+05.00	-45.00	705828.5837	2180077.4981
L	16+05.00	-40.00	705823.9868	2180075.5313
L	16+55.00	-45.00	705808.9159	2180123.4673
L	16+55.00	-40.00	705804.3189	2180121.5006
L	17+50.00	-45.00	705771.5469	2180210.8090
L	18+65.00	-45.00	705726.3108	2180316.5383
L	19+67.23	-45.00	705686.0984	2180410.5259
L	19+67.23	45.00	705603.3537	2180375.1237
L	25+11.28	45.00	705529.3023	2180931.7655
L	25+11.28	-45.00	705618.4246	2180919.2273
L	27+97.13	-45.00	705658.2478	2181202.2914
L	27+97.13	45.00	705569.1254	2181214.8297
L	28+65.13	45.00	705578.1435	2181281.7079
L	29+96.00	-45.00	705682.8313	2181401.1476
L	30+09.00	-37.00	705676.2492	2181415.0048
L	30+33.88	-37.00	705678.7967	2181439.9082
L	30+70.00	-45.00	705690.3575	2181475.0527
L	30+70.00	-37.00	705682.3973	2181475.8501
L	30+76.10	45.00	705601.4135	2181490.0910
L	33+45.00	-45.00	705717.7692	2181748.6831
L	33+50.00	45.00	705628.7159	2181762.6293
L	34+70.00	45.00	705640.6773	2181882.0316
L	34+70.00	-45.00	705730.2291	2181873.0605
L	35+50.76	45.00	705648.7275	2181962.3902
L	35+50.76	-45.00	705738.2793	2181953.4191
L	43+10.00	45.00	705869.1326	2182701.9134
L	43+22.90	-45.00	705954.8361	2182671.5626
L	44+65.00	45.00	705941.6180	2182839.2484
L	45+75.00	-45.00	706072.5721	2182894.4843
L	48+16.02	45.00	706105.5480	2183149.6339
L	48+16.02	-45.00	706185.1304	2183107.6025
L	50+09.20	-45.00	706285.1683	2183263.7073
L	50+09.20	45.00	706213.7338	2183318.4532
L	50+70.00	45.00	706250.7163	2183366.7095
L	51+70.00	55.00	706303.6079	2183452.1640
L	52+25.00	-45.00	706416.4354	2183434.9897
L	53+45.00	45.00	706417.9953	2183584.9816
L	53+65.00	-55.00	706509.5328	2183540.0272
L	53+97.29	45.00	706449.8021	2183626.4843
L	53+97.29	-55.00	706529.1738	2183565.6556
L	54+50.00	-55.00	706561.6881	2183609.8556
L	55+50.00	-45.00	706609.9096	2183702.2122
L	56+98.17	-45.00	706681.2237	2183837.6522
L	56+98.17	45.00	706599.3929	2183875.1184
L	59+92.60	45.00	706721.9624	2184142.8250
L	59+92.60	-45.00	706803.7932	2184105.3587
L	65+19.60	45.00	706918.2795	2184627.3925
L	65+19.60	-45.00	707003.1126	2184597.3368
L	66+20.00	45.00	706951.8090	2184722.0306
L	67+73.16	-45.00	707007.7896	2184836.3400
L	67+79.07	55.00	706995.4372	2184875.1449
L	68+50.00	-45.00	707112.5003	2184911.1201
L	68+50.00	-30.59	707098.7236	2184915.3486
L	69+10.00	-32.37	707117.3745	2184973.5036
L	69+10.00	-45.00	707129.5626	2184970.2029
L	69+50.00	55.00	707042.7592	2185033.8818
L	70+11.55	-45.00	707153.9244	2185071.3915
L	71+50.00	50.00	707089.5694	2185226.4737
L	71+55.00	-40.43	707179.0794	2185212.6878
L	78+78.42	50.00	707240.0261	2185939.1821
L	79+80.00	55.00	707257.1691	2186040.3434
L	81+65.00	55.00	707301.6916	2186221.6656
L	82+80.00	-60.00	707442.8653	2186302.3328
L	83+00.00	45.00	707347.3524	2186350.3042
L	84+00.00	-55.00	707471.5811	2186417.7538
L	85+00.00	45.00	707406.1332	2186543.0485
L	85+35.00	-55.00	707512.0486	2186545.2297
L	86+00.00	-45.08	707523.1801	2186609.4827
L	87+21.85	-40.00	707558.7339	2186725.2216
L	87+29.73	40.00	707486.3216	2186760.1308
L	87+29.73	-40.00	707561.4271	2186732.5779
L	88+00.00	40.00	707509.9703	2186825.7944
L	90+65.66	-40.00	707668.8512	2187053.2064
L	90+65.66	40.00	707592.3062	2187076.4628
L	91+65.00	-30.00	707688.1621	2187151.1648
L	91+65.00	30.00	707630.7534	2187168.6071

NOT SET; FALLS IN TREE

PAINT DOT

ROW MARKER IRON PIN AND CAP-Y1				
ALIGN	STATION	OFFSET	NORTH	EAST
Y1	14+55.15	44.07	705777.2943	2180230.2382
Y1	14+60.01	-43.96	705742.6816	2180311.3239

ROW MARKER IRON PIN AND CAP-Y2				
ALIGN	STATION	OFFSET	NORTH	EAST
Y2	10+85.00	50.00	705558.0854	2181297.5545
Y2	11+70.00	29.98	705495.0183	2181284.3074

ROW MARKER IRON PIN AND CAP-Y3				
ALIGN	STATION	OFFSET	NORTH	EAST
Y3	14+90.00	-29.66	705751.6762	2181845.0061
Y3	14+90.00	30.34	705745.7369	2181785.2991
Y3	16+50.00	-22.40	705591.7435	2181853.6208
Y3	16+50.00	27.60	705586.7942	2181803.8663

ROW MARKER IRON PIN AND CAP-Y4				
ALIGN	STATION	OFFSET	NORTH	EAST
Y4	10+70.00	-40.00	705892.2483	2182816.6837
Y4	11+00.00	40.00	705843.9534	2182745.6281
Y4	12+85.00	-40.00	705679.3894	2182862.0054
Y4	12+85.00	40.00	705662.9174	2182783.7196
Y4	14+00.00	30.30	705552.3784	2182816.8884
Y4	14+00.00	-29.70	705564.7324	2182875.6030

ROW MARKER IRON PIN AND CAP-Y5				
ALIGN	STATION	OFFSET	NORTH	EAST
Y5	15+00.00	25.00	706054.3079	2182817.5344
Y5	15+00.00	-25.00	706076.7789	2182862.2005
Y5	15+20.15	43.03	706028.2056	2182810.4807

ROW MARKER IRON PIN AND CAP-Y6				
ALIGN	STATION	OFFSET	NORTH	EAST
Y6	14+50.00	24.52	706468.5047	2183449.4183
Y6	14+50.00	-25.48	706498.9201	2183489.1056
Y6	15+82.55	52.65	706346.1880	2183507.7242
Y6	16+00.00	-21.87	706377.6656	2183577.4820
Y6	16+00.00	28.38	706347.0986	2183537.5970

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 12/04/2025 TO 12/15/2025 .

REVISIONS

B:\DEC-2025\0824_Location_and_Surveys\W5704E_CON_WET-01_26105.30\80-Drawings\Control_Sheets\W5704e_1s_rw03e-1_wet-01.dgn
mschwarz

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
W-5704E	RW03E-2
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
12/18/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP-Y7

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	11+60.00	30.15	707484.9766	2185206.5546
Y7	12+00.00	-29.86	707427.4508	2185250.0544
Y7	12+60.00	45.00	707395.4390	2185159.6122
Y7	13+10.00	-35.00	707321.8908	2185218.6941
Y7	13+90.10	45.00	707272.5917	2185116.7856
Y7	13+90.10	-35.00	707246.2568	2185192.3268
Y7	14+28.00	-35.00	707213.1090	2185182.5049
Y7	14+70.00	45.00	707186.2996	2185096.0737
Y7	16+00.00	-45.00	707043.6377	2185175.3139
Y7	16+50.00	45.00	707014.4083	2185076.7705
Y7	18+37.21	-45.00	706809.8555	2185061.4260
Y7	18+37.21	45.00	706871.1919	2184995.5637
Y7	19+70.54	-45.00	706712.2819	2184970.5574
Y7	19+70.54	45.00	706773.6183	2184904.6951
Y7	21+21.31	45.00	706632.4748	2184815.9342
Y7	22+47.48	45.00	706495.9098	2184786.0827
Y7	22+47.48	-45.00	706490.7392	2184875.9340
Y7	24+22.48	-45.00	706316.8245	2184867.6331
Y7	25+50.00	40.00	706192.0166	2184778.7534
Y7	25+82.48	-30.00	706157.9989	2184848.0275
Y7	26+00.00	30.00	706141.6234	2184787.7052

ROW MARKER IRON PIN AND CAP-Y8

ALIGN	STATION	OFFSET	NORTH	EAST
Y8	11+60.00	-29.95	707698.6085	2186074.8108
Y8	12+35.00	30.04	707604.1998	2186057.2678
Y8	12+75.00	45.00	707561.2048	2186065.2588
Y8	13+88.62	-45.00	707516.6942	2186203.1263
Y8	14+36.35	45.00	707425.0887	2186158.5556
Y8	14+65.00	-45.00	707454.9946	2186248.1456
Y8	16+15.00	40.00	707283.7227	2186267.8933
Y8	16+30.00	-40.00	707318.7570	2186341.3623
Y8	17+30.00	40.00	707190.8207	2186335.6795
Y8	18+30.00	-40.00	707157.1930	2186459.2480
Y8	19+65.00	29.61	707007.1090	2186482.5912
Y8	21+00.00	-30.42	706933.4323	2186610.6515

ROW MARKER IRON PIN AND CAP-Y9

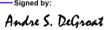
ALIGN	STATION	OFFSET	NORTH	EAST
Y9	14+52.00	-26.81	706723.3092	2184809.1578

ROW MARKER IRON PIN AND CAP-DRW1

ALIGN	STATION	OFFSET	NORTH	EAST
DRW1	11+45.06	-22.62	706740.0739	2184876.4116

I, Andre S. DeGroat, PLS, 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 12/04/2025 to 12/15/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 18th day of December, 2025.

Signed by:

 Andre S. DeGroat
 Professional Land Surveyor L-3966

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 12/04/2025 TO 12/15/2025 .

REVISIONS

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 AT: WET-01\W5704E-01.dgn
 mschwarz

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
W-5704E	RW03E-3
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
<small>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION</small>	
PROJECT SURVEYOR 	
12/18/2025 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMANENT EASEMENT POINTS-L				
ALIGN	STATION	OFFSET	NORTH	EAST
L	20+09.00	78.00	705556.1710	2180403.9002
L	20+09.00	45.00	705587.0263	2180415.6028
L	20+16.00	-45.00	705668.8284	2180453.7775
L	20+17.00	-69.00	705691.0041	2180463.0041
L	20+38.00	78.00	705545.5101	2180433.2872
L	20+38.00	45.00	705576.6918	2180444.0901
L	20+38.00	-45.00	705661.7328	2180473.5526
L	20+39.00	-68.00	705683.1608	2180481.9627
L	22+50.00	45.00	705526.8166	2180659.5173
L	23+40.00	62.00	705502.6388	2180752.7250
L	23+98.00	-45.00	705609.4467	2180811.4779
L	23+98.00	-64.00	705628.4401	2180810.9747
L	23+99.00	57.00	705507.5110	2180815.2363
L	23+99.00	45.00	705519.5065	2180814.9065
L	24+00.00	80.00	705484.5500	2180816.9481
L	24+28.00	77.00	705488.8297	2180846.9904
L	24+28.00	57.00	705508.7978	2180845.8612
L	24+28.00	45.00	705520.7786	2180845.1837
L	24+60.00	55.00	705513.2396	2180879.4182
L	29+57.00	-63.00	705696.4218	2181360.0609
L	29+62.00	-80.00	705713.8820	2181363.1827
L	29+77.00	-57.00	705692.6991	2181380.8040
L	29+82.00	-74.00	705710.1482	2181383.9796
L	31+02.00	-45.00	705693.5472	2181506.8933
L	31+04.00	-79.00	705727.5772	2181505.4942
L	31+18.00	63.00	705587.6799	2181533.5789
L	31+33.00	72.00	705580.2200	2181549.4014
L	31+34.00	-45.00	705696.7369	2181538.7339
L	31+34.00	-77.00	705728.5776	2181535.5442
L	31+39.00	63.00	705589.7732	2181554.4744
L	34+84.00	-45.00	705731.6246	2181886.9908
L	34+94.00	62.00	705626.1543	2181907.6067
L	34+96.00	76.00	705612.4234	2181910.9922
L	37+35.00	65.00	705656.4740	2182152.5230
L	37+35.00	81.00	705640.7679	2182155.5756
L	37+55.00	65.00	705660.5150	2182172.7737
L	37+55.00	81.00	705644.8402	2182175.9832
L	38+13.00	-69.00	705803.8183	2182200.5843
L	38+18.00	-45.00	705781.5804	2182210.8346
L	38+52.00	-78.00	705821.5141	2182234.9218
L	38+60.00	-45.00	705791.4971	2182250.6731
L	39+89.00	60.00	705727.4477	2182404.5284
L	39+89.00	45.00	705741.6912	2182399.8247
L	41+03.00	-78.00	705895.7868	2182464.2469
L	41+03.00	-45.00	705865.0918	2182476.3635
L	41+17.00	45.00	705786.6805	2182522.7054
L	41+17.00	50.00	705782.0427	2182524.5738
L	41+34.00	-45.00	705876.4359	2182504.4621
L	41+34.00	-78.00	705906.9395	2182491.8712
L	43+19.91	61.00	705859.6697	2182718.3424
L	44+59.00	-45.00	706018.3983	2182791.9114
L	44+60.00	75.00	705912.7554	2182848.8376
L	46+42.00	45.00	706024.2798	2182995.7604
L	46+66.00	74.00	706009.8450	2183030.5259
L	46+70.00	-67.00	706136.3921	2182968.2136
L	46+70.00	-45.00	706116.9386	2182978.4880
L	46+75.00	55.00	706030.8488	2183029.6108
L	47+10.00	72.00	706032.1622	2183068.4988
L	47+11.00	86.00	706020.2497	2183075.9212
L	47+14.00	53.00	706050.8309	2183063.1625
L	47+22.00	-74.00	706166.8667	2183010.9254
L	47+33.00	-45.00	706146.3606	2183034.1956
L	47+33.00	70.00	706044.6720	2183087.9025
L	47+34.00	85.00	706031.8753	2183095.7920
L	47+35.00	-54.00	706155.2529	2183031.7610
L	47+38.00	-70.00	706170.8019	2183026.9415
L	51+18.00	-45.00	706351.3486	2183350.0620
L	51+18.00	65.00	706264.0398	2183416.9736
L	51+18.00	49.80	706276.1043	2183407.7277
L	51+21.00	-79.00	706380.1599	2183331.7614
L	51+39.00	-45.00	706364.1227	2183366.7301
L	51+42.00	-77.00	706391.3465	2183349.6461
L	53+77.00	45.00	706437.4605	2183610.3806
L	54+13.00	45.00	706458.9671	2183638.5895
L	54+21.00	118.00	706404.8612	2183688.1673

PERMANENT EASEMENT POINTS-L CONT.				
ALIGN	STATION	OFFSET	NORTH	EAST
L	54+49.00	102.00	706432.8822	2183699.6276
L	55+24.00	-46.84	706597.4346	2183678.3192
L	55+29.00	-64.00	706614.7480	2183673.6612
L	55+50.00	-61.00	706623.6335	2183693.9869
L	55+96.00	-45.00	706633.6469	2183743.4048
L	56+08.00	-77.00	706667.7393	2183739.0351
L	56+10.70	-56.28	706650.8559	2183751.3838
L	56+27.00	-80.00	706679.8448	2183755.3748
L	56+38.00	-45.00	706654.0737	2183781.7069
L	58+66.00	45.00	706669.2593	2184027.7149
L	58+67.00	65.00	706651.4909	2184036.9500
L	58+87.00	45.00	706678.0014	2184046.8088
L	58+88.00	63.00	706662.0515	2184055.2113
L	62+63.00	-45.00	706911.5260	2184355.5787
L	62+63.00	-77.00	706941.1983	2184343.5974
L	62+89.00	-78.00	706951.9348	2184367.6704
L	62+98.00	-60.00	706938.5752	2184382.7838
L	63+00.00	-45.00	706925.3765	2184390.1910
L	63+01.00	-91.00	706968.5114	2184374.1783
L	63+21.00	-97.00	706981.5472	2184390.8771
L	63+34.00	-70.00	706961.2053	2184412.9905
L	63+42.00	-45.00	706940.8366	2184429.5845
L	71+22.28	66.00	707068.1896	2185202.6604
L	74+02.00	50.00	707141.6208	2185473.0394
L	74+20.00	-72.00	707264.7078	2185465.4518
L	74+20.00	-39.13	707232.5497	2185472.2405
L	74+50.00	-38.98	707238.5926	2185501.6260
L	74+50.00	-72.00	707270.9044	2185494.8048
L	75+92.00	-38.32	707267.2845	2185640.6987
L	75+92.00	-50.00	707278.7094	2185638.2868
L	76+11.00	-38.25	707271.1361	2185659.3043
L	76+11.00	-50.00	707282.6339	2185656.8771
L	76+36.00	73.00	707167.4502	2185706.7440
L	76+37.00	64.00	707176.4627	2185705.8635
L	76+53.00	-50.00	707291.3092	2185697.9714
L	76+53.00	-38.08	707279.6499	2185700.4327
L	76+60.00	73.00	707172.4075	2185730.2265
L	76+62.00	55.00	707190.4324	2185728.4654
L	76+71.00	-50.00	707295.0271	2185715.5832
L	76+71.00	-38.01	707283.2988	2185718.0591
L	77+25.00	-50.00	707306.1810	2185768.4187
L	77+25.00	-37.80	707294.2452	2185770.9384
L	77+47.00	-37.71	707298.7048	2185792.4818
L	77+47.00	-50.00	707310.7252	2185789.9443
L	77+62.00	50.00	707215.9799	2185825.2761
L	78+79.00	-55.00	707342.8813	2185918.0597
L	78+79.00	-37.20	707325.4620	2185921.7388
L	78+99.00	-37.08	707329.4909	2185941.2012
L	78+99.00	-55.00	707347.0086	2185937.4396
L	79+54.00	92.00	707215.2643	2186022.8552
L	79+55.00	78.00	707229.1464	2186020.7777
L	79+61.00	-64.00	707368.9976	2185995.4456
L	79+67.00	-36.20	707343.1912	2186007.3834
L	79+75.00	94.00	707218.0217	2186044.0999
L	79+76.00	78.00	707233.8463	2186041.5283
L	79+82.00	-68.00	707377.5056	2186014.8066
L	79+88.00	-35.76	707347.4231	2186027.8269
L	81+35.00	85.00	707265.0303	2186199.8181
L	82+68.77	-66.00	707445.6241	2186290.0079
L	82+72.00	-80.00	707459.9658	2186289.2917
L	83+43.00	60.00	707345.0522	2186396.1472
L	83+77.00	-83.00	707491.7901	2186387.8816
L	83+83.00	-55.86	707467.5099	2186401.3899
L	83+97.00	-87.00	707501.3278	2186405.5916
L	84+05.00	-55.00	707473.0281	2186422.4914
L	85+34.00	62.00	707400.6264	2186580.9381
L	85+50.00	83.00	707385.7861	2186602.9168
L	85+57.00	59.00	707410.7944	2186602.0441
L	85+66.00	71.00	707402.3060	2186614.4832
L	88+55.00	56.00	707512.8028	2186882.5762
L	91+85.00	56.00	707611.6903	2187195.3017
L	91+97.50	43.00	707627.7627	2187203.4827
L	91+97.50	30.00	707640.2013	2187199.7035

PK SET

PK SET

PK SET

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 12/04/2025 TO 12/15/2025 .

REVISIONS

B:\DEC-2025\08-26\Location and Surveys\W5704E_CON_WET-01_26105_30\80-Drawings\Control_Sheets\W5704e_ls_rw03e-3_wet-01.dgn
 6/2/2025 10:00 AM
 mschwarz

PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
W-5704E	RW03E-4
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
12/18/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMANENT EASEMENT POINTS-Y2

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	11+15.11	-45.00	705499.7360	2181377.5751
Y2	11+28.63	45.00	705528.6125	2181291.3639
Y2	11+55.00	-50.00	705452.7395	2181353.9400
Y2	12+31.00	-56.00	705391.0994	2181297.9260
Y2	12+35.00	-72.00	705376.5672	2181305.7245
Y2	12+52.00	-52.00	705379.9386	2181279.6931
Y2	12+55.00	-68.00	705366.0789	2181288.2317
Y2	12+62.00	55.00	705452.4100	2181200.3401
Y2	12+62.00	42.00	705442.7881	2181209.0819
Y2	12+62.00	30.00	705433.9063	2181217.1512
Y2	12+77.00	-41.00	705371.2692	2181253.7925
Y2	13+04.00	-30.00	705361.2548	2181226.4116
Y2	13+50.00	-30.00	705330.3224	2181192.3648
Y2	13+50.00	-37.00	705325.1413	2181197.0719
Y2	14+08.00	46.04	705347.6037	2181098.3016
Y2	14+25.00	45.00	705335.4002	2181086.4204
Y2	14+25.00	30.00	705324.2980	2181096.5070
Y2	14+49.00	30.00	705308.1593	2181078.7435
Y2	15+67.00	112.00	705289.5031	2180936.2656
Y2	15+80.00	83.00	705259.2970	2180946.1446

PERMANENT EASEMENT POINTS-Y7

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	14+16.00	-56.00	707218.0873	2185205.5095
Y7	20+98.00	-45.00	706618.7175	2184907.8415
Y7	21+66.00	-84.00	706551.9452	2184925.0655
Y7	21+67.00	-67.00	706555.5307	2184908.4281
Y7	21+92.00	-85.00	706531.7486	2184921.3906
Y7	21+92.00	-68.00	706535.0625	2184904.7168
Y7	22+83.00	-45.00	706455.4559	2184873.9739
Y7	24+43.00	40.59	706299.4687	2184781.3449
Y7	24+81.00	71.00	706262.2709	2184749.6741
Y7	24+83.00	55.00	706259.7580	2184765.6034
Y7	25+01.00	74.00	706242.2086	2184746.0659
Y7	25+03.00	57.00	706239.7018	2184763.0004
Y7	26+05.00	-63.00	706134.9815	2184880.6018
Y7	26+05.00	-30.00	706135.5584	2184847.6069
Y7	26+20.00	44.00	706121.7804	2184773.3673
Y7	26+20.00	30.00	706121.5591	2184787.3656
Y7	26+27.00	-30.00	706113.6352	2184847.2505
Y7	26+27.00	-63.00	706113.1395	2184880.2468

PERMANENT EASEMENT POINTS-Y3

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	13+47.00	63.00	705884.9466	2181738.6767
Y3	13+49.00	29.30	705886.2133	2181772.4080
Y3	13+67.00	-30.57	705874.1269	2181833.7478
Y3	13+68.00	-49.00	705874.9370	2181852.1893
Y3	13+78.00	65.00	705853.7957	2181739.7210
Y3	13+79.00	29.51	705856.2902	2181775.1347
Y3	16+22.12	-58.53	705623.0660	2181886.8109
Y3	16+22.13	-42.52	705621.4701	2181870.8800
Y3	16+22.19	49.99	705612.2485	2181778.8277
Y3	16+38.12	-60.54	705607.3451	2181890.3958

PERMANENT EASEMENT POINTS-Y8

ALIGN	STATION	OFFSET	NORTH	EAST
Y8	14+74.24	-63.17	707458.2412	2186268.2699
Y8	14+81.35	-59.34	707450.2438	2186269.3693
Y8	16+58.00	-40.00	707296.1381	2186357.8663
Y8	16+81.00	40.00	707230.4039	2186306.7975
Y8	16+87.00	59.00	707214.3578	2186294.9855

PERMANENT EASEMENT POINTS-Y4

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	10+77.00	-75.00	705892.3879	2182852.8198
Y4	10+77.00	-40.00	705884.1223	2182818.8099

PERMANENT EASEMENT POINTS-Y9

ALIGN	STATION	OFFSET	NORTH	EAST
Y9	14+33.00	-67.01	706764.6530	2184788.4799

PERMANENT EASEMENT POINTS-Y5

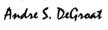
ALIGN	STATION	OFFSET	NORTH	EAST
Y5	14+76.00	53.00	706063.1639	2182781.7354
Y5	14+82.00	22.00	706071.7360	2182812.1248

PERMANENT EASEMENT POINTS-Y6

ALIGN	STATION	OFFSET	NORTH	EAST
Y6	14+17.00	-24.96	706524.7997	2183468.6236

I, Andre S. DeGroat, PLS, 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 12/04/2025 to 12/15/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 18th day of December, 2025.

Signed by:

 Andre S. DeGroat
 Professional Land Surveyor L-3966

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 12/04/2025 TO 12/15/2025 .

REVISIONS

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 12/18/2025 10:00:53
 mschwarz

PROJECT REFERENCE NO. W-5704E	SHEET NO. RW04
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR	
	
12/18/2025	

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

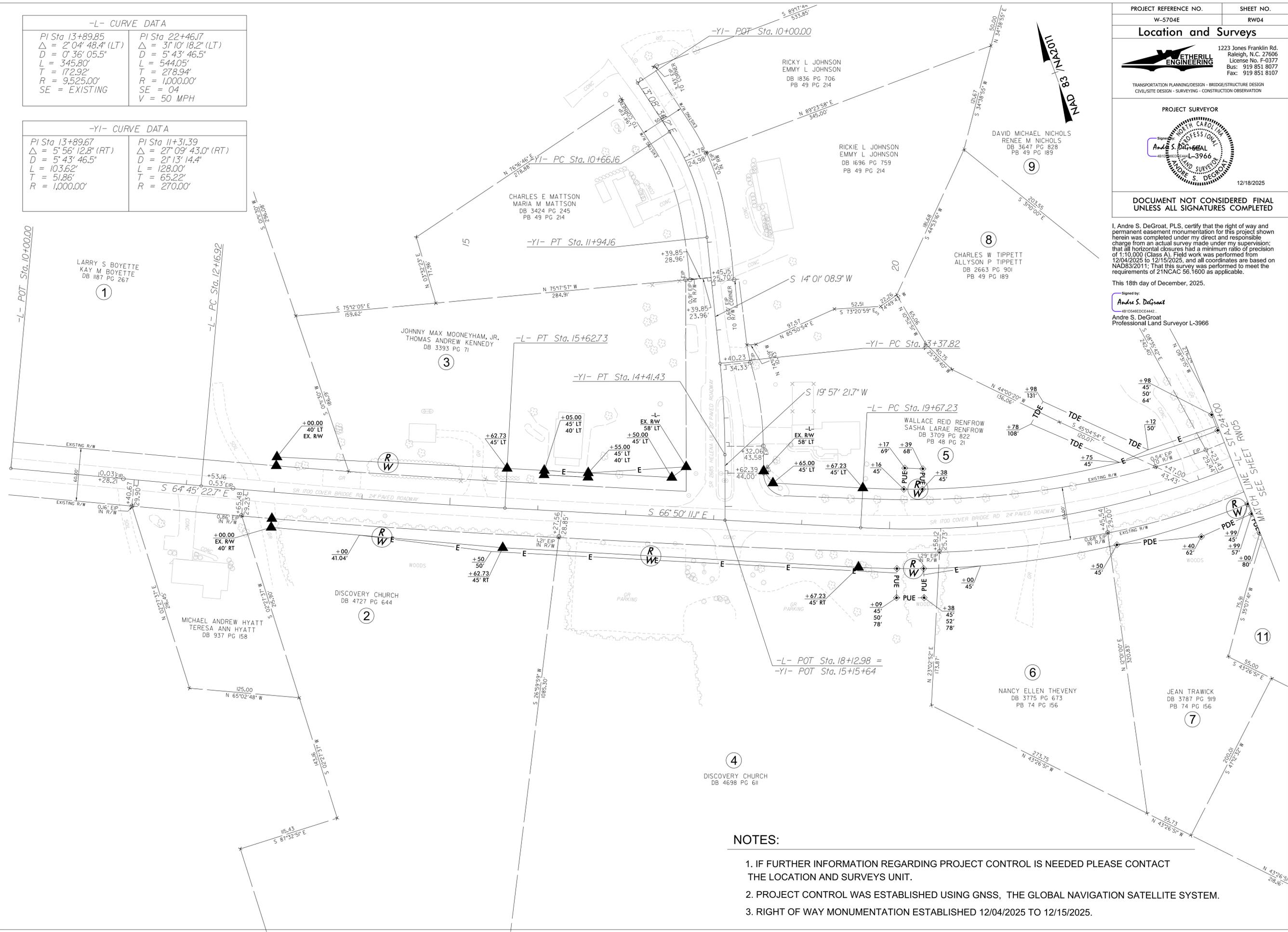
I, Andre S. DeGroat, PLS, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 12/04/2025 to 12/15/2025, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 18th day of December, 2025.
 Signed by:
 Andre S. DeGroat
 4810548EDCE4442
 Andre S. DeGroat
 Professional Land Surveyor L-3966

-L- CURVE DATA	
PI Sta 13+89.85	PI Sta 22+46.17
$\Delta = 2^{\circ}04'48.4''$ (LT)	$\Delta = 3^{\circ}10'18.2''$ (LT)
$D = 0^{\circ}36'05.5''$	$D = 5^{\circ}43'46.5''$
$L = 345.80'$	$L = 544.05'$
$T = 172.92'$	$T = 278.94'$
$R = 9,525.00'$	$R = 1,000.00'$
SE = EXISTING	SE = 04
	V = 50 MPH

-YI- CURVE DATA	
PI Sta 13+89.67	PI Sta 11+31.39
$\Delta = 5^{\circ}56'12.8''$ (RT)	$\Delta = 27^{\circ}09'43.0''$ (RT)
$D = 5^{\circ}43'46.5''$	$D = 21^{\circ}13'14.4''$
$L = 103.62'$	$L = 128.00'$
$T = 51.86'$	$T = 65.22'$
$R = 1,000.00'$	$R = 270.00'$

REVISIONS
 10-17-2018 REVISED EASEMENTS ON PARCEL 5.
 1-8-2019 ADDED 14' DRIVEWAY TO PARCEL 3.
 4-10-2019 ADDED DITCH CLEANOUT TO PARCELS 5 & 8. REVISED EASEMENTS TO ACCOMMODATE DITCH CLEANOUT. ADDED DRIVEWAY TO PARCEL 7.
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 AT_WET-16\WBN34
 mschwarz



- 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 12/04/2025 TO 12/15/2025.

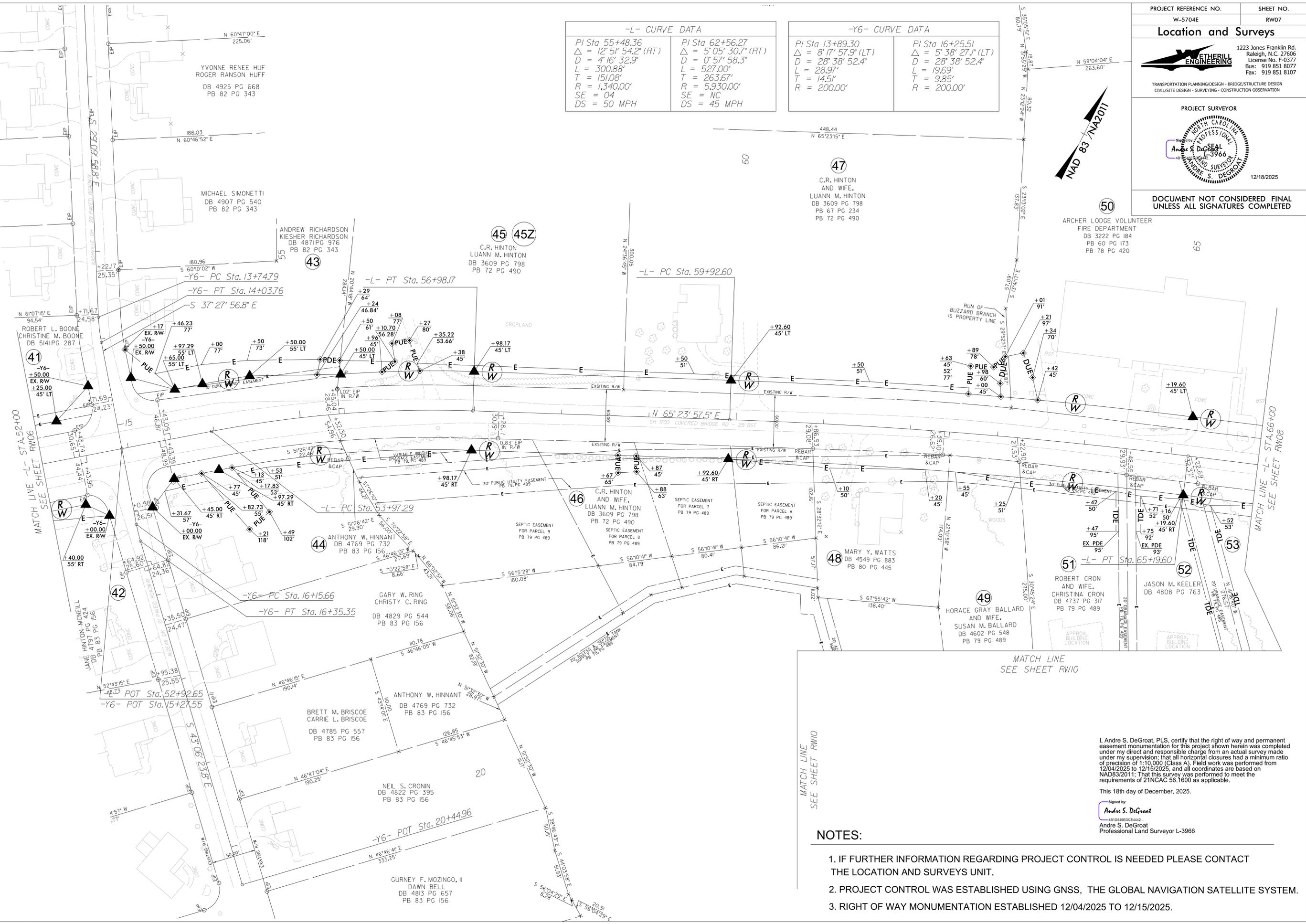
6/2/09

PROJECT REFERENCE NO. W-5704E	SHEET NO. RW07
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION	
PROJECT SURVEYOR  12/18/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L- CURVE DATA	
PI Sta 55+48.36	PI Sta 62+56.27
$\Delta = 12^{\circ}51'54.2"$ (RT)	$\Delta = 5^{\circ}05'30.7"$ (RT)
$D = 4^{\circ}16'32.9"$	$D = 0^{\circ}57'58.3"$
$L = 300.88'$	$L = 527.00'$
$T = 151.08'$	$T = 263.67'$
$R = 1,340.00'$	$R = 5,930.00'$
$SE = 04$	$SE = NC$
$DS = 50$ MPH	$DS = 45$ MPH

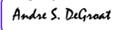
-Y6- CURVE DATA	
PI Sta 13+89.30	PI Sta 16+25.51
$\Delta = 8^{\circ}17'57.9"$ (LT)	$\Delta = 5^{\circ}38'27.1"$ (LT)
$D = 28^{\circ}38'52.4"$	$D = 28^{\circ}38'52.4"$
$L = 28.97'$	$L = 19.69'$
$T = 14.51'$	$T = 9.85'$
$R = 200.00'$	$R = 200.00'$

REVISIONS
 10-17-2018 REVISED EASEMENTS ON PARCELS 43 & 44
 4-10-2019 REVISED EASEMENTS ON PARCELS 51, 52 & 53. REVISED SLOPE STAKES AND ADDED "DO NOT DISTURB TREE" NOTE TO PARCEL 47 AT STA. 59+75 LT.
 11-2-2021 REVISED PUE AT 63+01 LT ON PARCEL 47.
 3-13-2025 REVISED EASEMENTS, ADDED PARCEL NUMBER 45Z, AND ADDED "DO NOT DISTURB WOOD COLUMN" ON PARCEL 45.
 17 DEC 2025 16:10 Location and Surveys\W5704E.CON_WET-01 26105.30\80-Drawings\Control_Sheets\W5704e-1s-rw07.dgn
 mschwarz



I, Andre S. DeGroat, PLS, 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 12/04/2025 to 12/15/2025, and all coordinates are based on NAD83/2011. This survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 18th day of December, 2025.

Signed by:

 Andre S. DeGroat
 Professional Land Surveyor L-3966

- 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 12/04/2025 TO 12/15/2025.

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
W-5704E	RW02C-8
Location and Surveys	
	
1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F-0377 Bus: 919 851 8077 Fax: 919 851 8107	
<small>TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION</small>	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

W-5601DS SURVEY CONTROL

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		W-5601DS-1	705956.6500	2182821.6930	333.84
2		W-5601DS-2	706586.0710	2183668.8680	326.65
100		W-5601 BL-100	706833.4440	2184216.6720	332.63
101		W-5601 BL-101	707034.0510	2184929.1170	335.28
102		W-5601 BL-102	707198.8390	2185386.3920	330.50
103		W-5601 BL-103	707290.3170	2185786.1570	328.03
104		W-5601 BL-104	707319.8940	2186247.3100	336.22
105		W-5601 BL-105	707541.0390	2186689.6190	324.24
106		W-5601 BL-106	707641.1040	2187202.6580	310.10
3		W-5601DR-3	707982.0540	2187835.2270	318.09
4		W-5601DR-4	708675.6130	2188511.7630	331.36

W-5704E SURVEY CONTROL

BL	POINT	DESC.	NORTH	EAST	ELEVATION
3		W-5704E-1	706425.2060	2178692.1100	330.99
4		W-5704E-2	706066.3030	2179402.2700	333.12
101		W-5704E BL-101	706036.7150	2179563.5550	334.12
102		W-5704E BL-102	705658.4530	2180283.2590	334.85
103		W-5704E BL-103	705542.8080	2180832.2050	329.81
104		W-5704E BL-104	705652.7570	2181720.6620	337.50
105		W-5704E BL-105	705727.6000	2182265.8160	332.47
1		W-5601DS-1	705956.6500	2182821.6930	333.84
106		W-5704E BL-106	706370.4530	2183508.7240	327.92
2		W-5601DS-2	706586.0710	2183668.8680	326.65

BY	POINT	DESC.	NORTH	EAST	ELEVATION
A102		W-5704E BL-102	705658.4530	2180283.2590	334.85
107		W-5704E BY-107	706224.8880	2180336.7700	330.14

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
E0101		W-5601 BL-101	707034.0510	2184929.1170	335.28
107		W-5601 BY1-107	706528.3480	2184851.0910	334.24
108		W-5601 BY1-108	706034.9420	2184802.2470	324.67

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
108		W-5704E BY1-108	705129.2680	2180905.1210	336.07
A104		W-5704E BL-104	705652.7570	2181720.6620	337.50

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
112		W-5601 BY2-112	707835.4970	2185343.1000	333.79
109		W-5601 BY2-109	707349.0890	2185210.2290	335.42
EQA101		W-5601 BL-101	707034.0510	2184929.1170	335.28

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
109		W-5704E BY2-109	705259.1880	2182054.6190	337.72
B104		W-5704E BL-104	705652.7570	2181720.6620	337.50
110		W-5704E BY2-110	706225.9020	2181785.3480	337.64

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
110		W-5601 BY3-110	707811.1580	2185966.2650	336.54
E0104		W-5601 BL-104	707319.8940	2186247.3100	336.22
111		W-5601 BY3-111	706997.2980	2186507.6640	334.59

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
111		W-5704E BY3-111	705348.5770	2182911.8120	334.98
A1		W-5601DS-1	705956.6500	2182821.6930	333.84
112		W-5704E BY3-112	706464.9730	2182611.7050	335.49

W-5601DS BENCHMARKS

.....
 BM*1 ELEVATION = 329.05
 N 706593 E 2183845
 RR SPIKE IN BASE OF 15' GUM

.....
 BM*2 ELEVATION = 327.73
 N 707036 E 2185343
 RR SPIKE IN BASE OF 50' OAK

.....
 BM*3 ELEVATION = 307.71
 N 707768 E 2187281
 RR SPIKE IN BASE OF 18' POPLAR

W-5704E BENCHMARKS

.....
 BM1 ELEVATION = 336.31
 N 706300 E 2178870
 NAIL SET IN 48' OAK

.....
 BM2 ELEVATION = 335.28
 N 705616 E 2180103
 NAIL SET IN 16' PINE

.....
 BM3 ELEVATION = 337.70
 N 705275 E 2181854
 NAIL SET IN 20' SWEET GUM

.....
 BM4 ELEVATION = 335.85
 N 706800 E 2184089
 NAIL SET IN 30' PECAN

BY4	POINT	DESC.	NORTH	EAST	ELEVATION
113		W-5704E BY4-113	705900.5500	2183972.9030	334.09
A106		W-5704E BL-106	706370.4530	2183508.7240	327.92
114		W-5704E BY4-114	706955.9870	2183211.7420	333.61

NOTES:

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

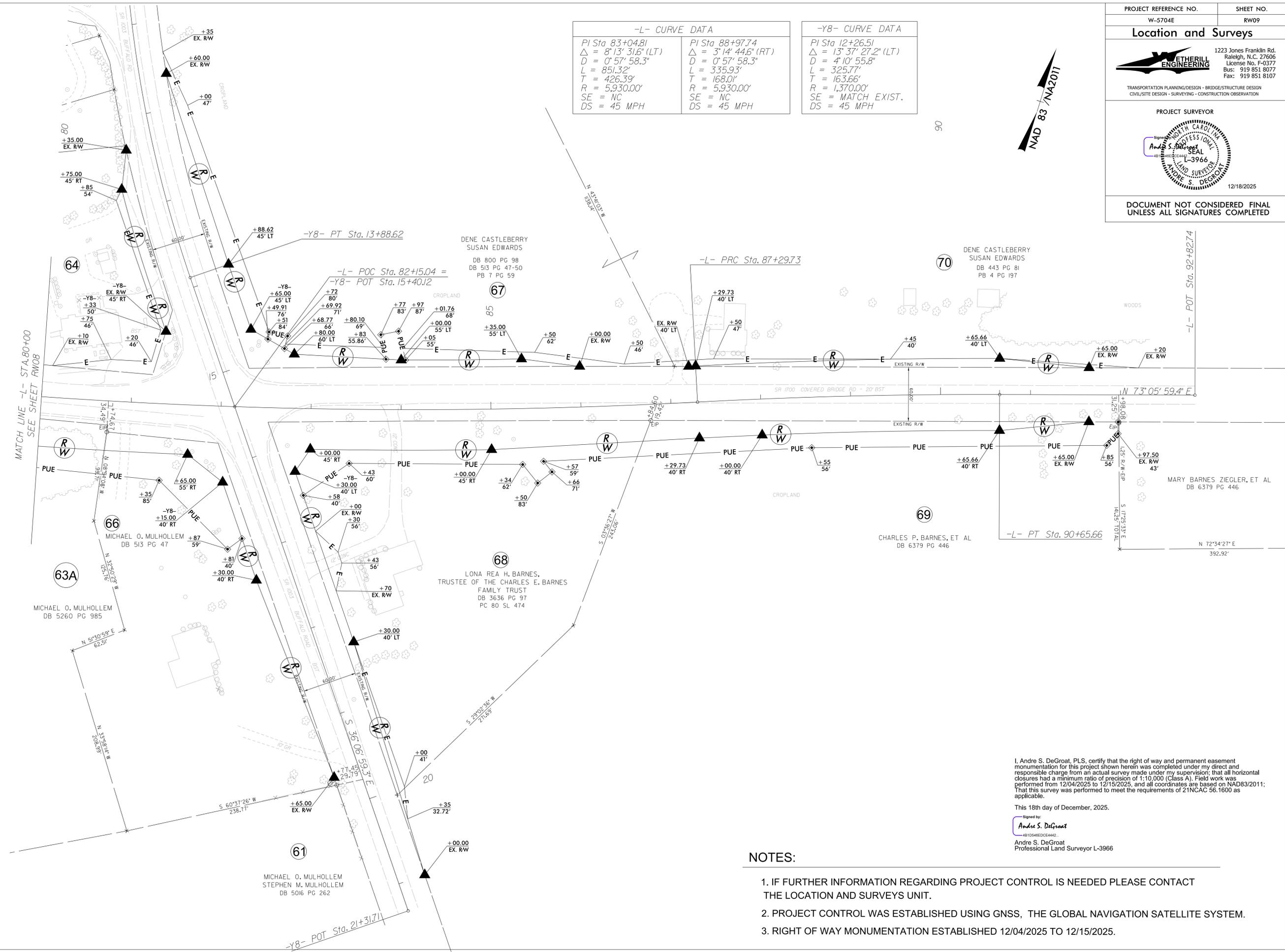
REVISIONS

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 mschwartz AT WET-01-251218.dgn

REVISIONS

7-23-2019 ADDED PARCEL NUMBER 63A. REVISED OWNER AND DEED BOOK DATA FOR PARCEL 63A.
11-2-2021 REVISED ISLANDS ADJACENT PARCEL 64. REVISED PROPOSED R/W AND EASEMENTS ON PARCEL 64.
12-12-2024 UPDATED PROPERTY LINES, PROPERTY OWNER DATA AND REVISED PUES ON PARCEL 69.

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mschwarz



-L- CURVE DATA	
PI Sta 83+04.81	PI Sta 88+97.74
$\Delta = 8^{\circ}13'31.6"$ (LT)	$\Delta = 3^{\circ}14'44.6"$ (RT)
D = 0'57'58.3"	D = 0'57'58.3"
L = 851.32'	L = 335.93'
T = 426.39'	T = 168.0'
R = 5,930.00'	R = 5,930.00'
SE = NC	SE = NC
DS = 45 MPH	DS = 45 MPH

-Y8- CURVE DATA	
PI Sta 12+26.51	
$\Delta = 13^{\circ}37'27.2"$ (LT)	
D = 4'10'55.8"	
L = 325.77'	
T = 163.66'	
R = 1,370.00'	
SE = MATCH EXIST.	
DS = 45 MPH	



PROJECT REFERENCE NO. W-5704E SHEET NO. RW09

Location and Surveys

ETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - SURVEYING - CONSTRUCTION OBSERVATION

PROJECT SURVEYOR
André S. DeGroat
Professional Land Surveyor L-3966
12/18/2025

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, André S. DeGroat, PLS, 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 12/04/2025 to 12/15/2025, and all coordinates are based on NAD83/2011; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 18th day of December, 2025.

Signed by:
André S. DeGroat
481D64EDCE4442
André S. DeGroat
Professional Land Surveyor L-3966

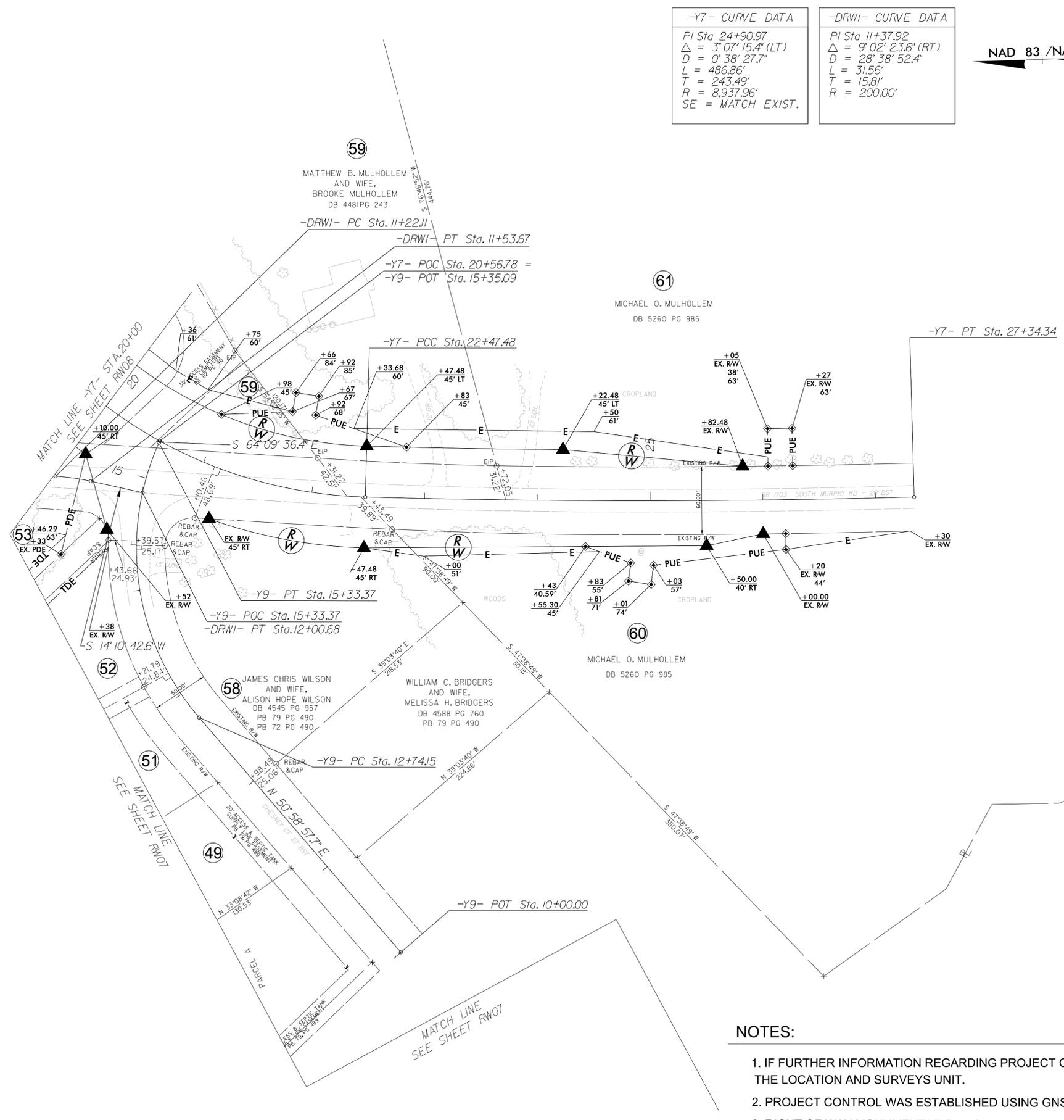
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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 12/04/2025 TO 12/15/2025.

REVISIONS

- 10-17-2018 REMOVED PUE FROM PARCEL 58.
- 4-10-2019 REVISED EASEMENTS ON PARCELS 52 & 53.
- 7-23-2019 REVISED OWNER AND DEED BOOK DATA FOR PARCELS 60 & 61.

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 mschwarz



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PROPERTY LINE IS
 CENTER OF CREEK
 (TAKEN FROM GIS)