

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5797	RW01	17

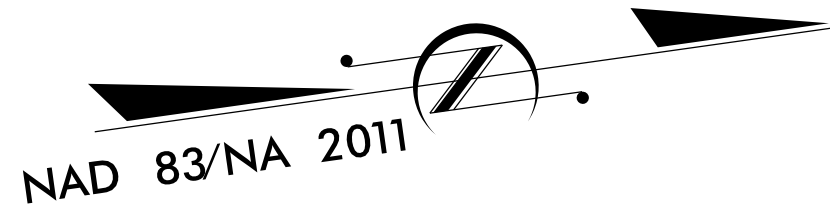
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

ROBESON COUNTY

LOCATION: SR 1997 (FAYETTEVILLE ROAD) FROM FARRINGTON
STREET TO EAST 22ND STREET.

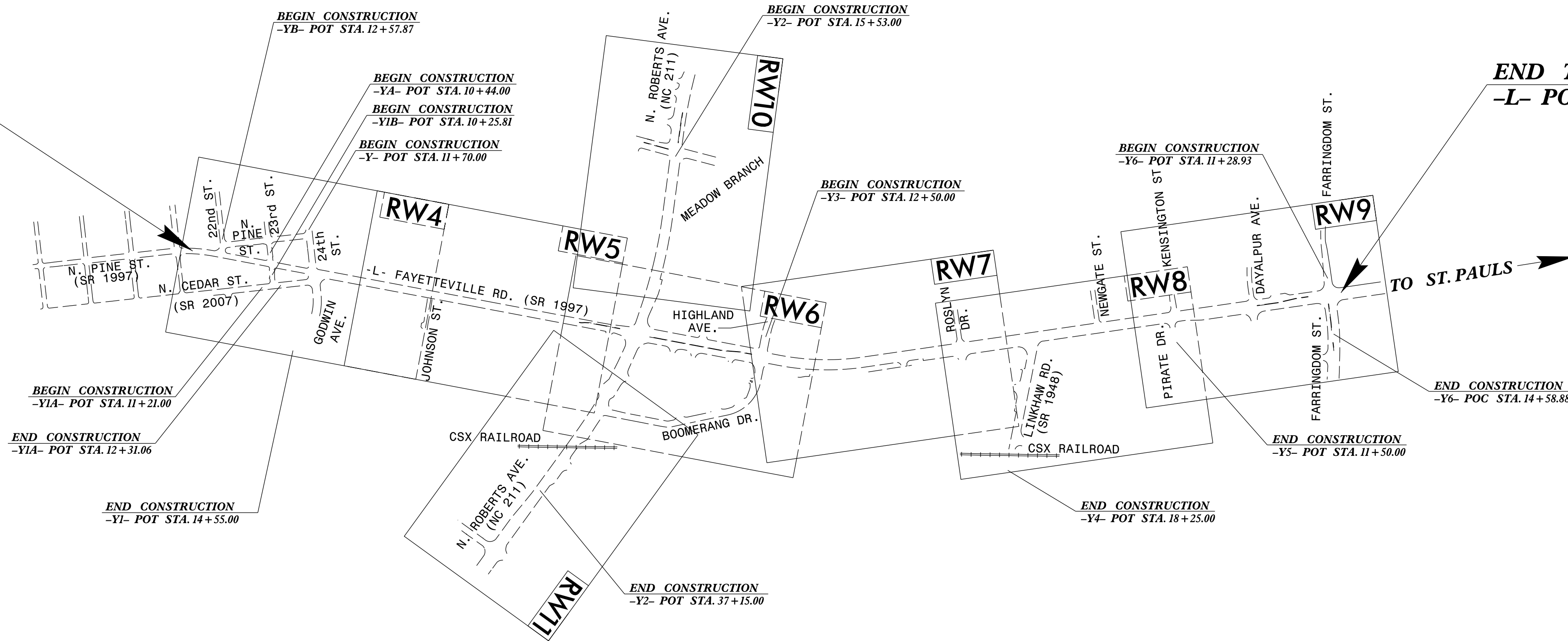
TYPE OF WORK: GRADING, PAVING, DRAINAGE, CULVERTS, AND SIGNALS



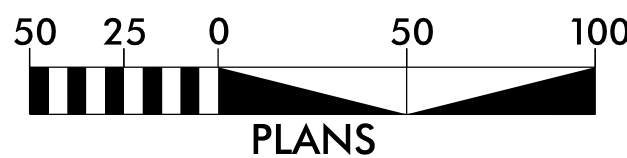
TIP PROJECT: U-5797

BEGIN TIP PROJECT U-5797
-L- POC STA. 18+35.00

END TIP PROJECT U-5797
-L- POT STA. 87+20.00



GRAPHIC SCALE



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCDOT FOR MONUMENT "U5797-11"
WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 323,031.360(ft) EASTING: 1,999,484.330(ft)
ELEVATION: 131.27(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.99992839
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"U5797-11" TO -L- STATION 18+35.00 IS
N 19°14'59" E 2,089.72(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:



2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

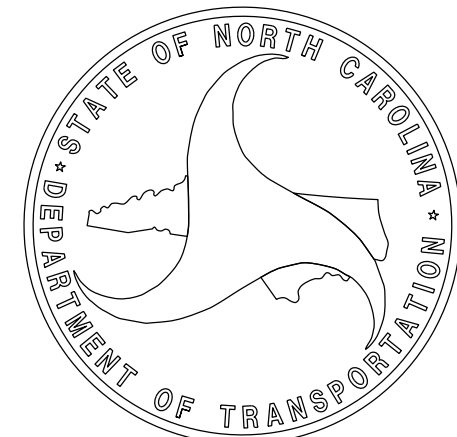
LETTING DATE:

PROFESSIONAL LAND
SURVEYOR



DocuSigned by:
Rudolf A. VanderVelde, Jr.
SIGNATURE

2/1/2024
Date:



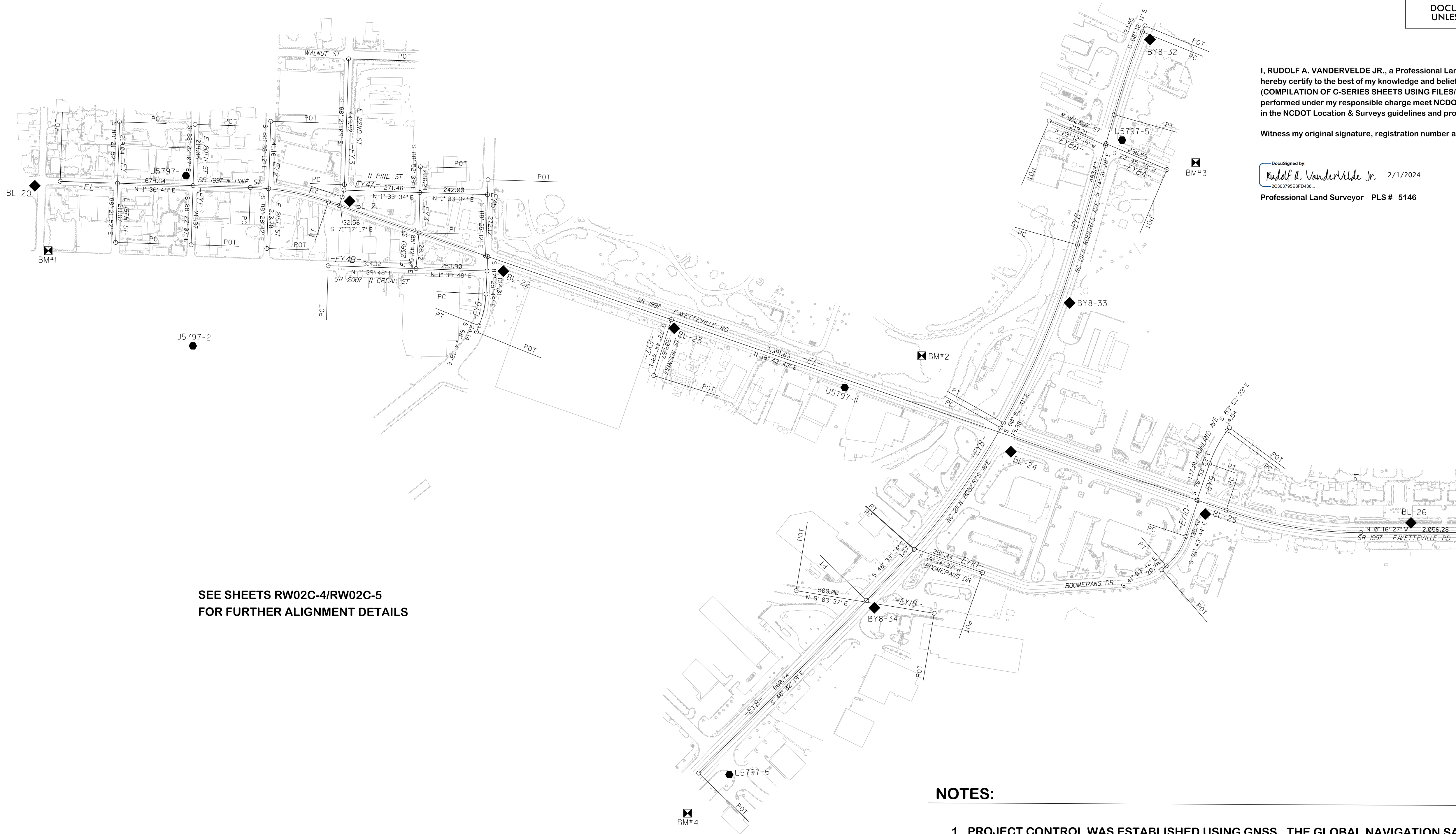
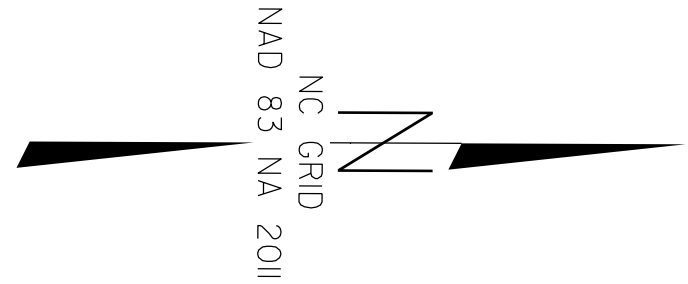
REVISIONS

6/2/99

01-FEB-2024 13:07
J:\23\0346-018-U-5797 ROW Stakeout\Geometrics\NCDOT\RW SHEETS\C-Series\U5797_1s-rw02c-1.dgn
AT WR1963
r.vanderVelde

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEETS RW02C-4/RW02C-5
FOR FURTHER ALIGNMENT DETAILS

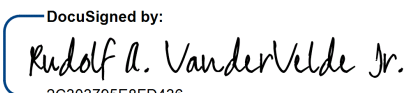
NOTES:

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.

PROJECT REFERENCE NO.	SHEET NO.
U-5797	RW02C-1
Location and Surveys	
CONTROL ESTABLISHED BY NCDOT C-SERIES SHEETS COMPILED BY WITHERSRAVENEL	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, RUDOLF A. VANDERVELDE JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (COMPILATION OF C-SERIES SHEETS USING FILES/CONTROL PROVIDED BY NCDOT) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

Witness my original signature, registration number and seal this 1st day of February, 2024.

DocuSigned by:
 2/1/2024
Professional Land Surveyor PLS # 5146

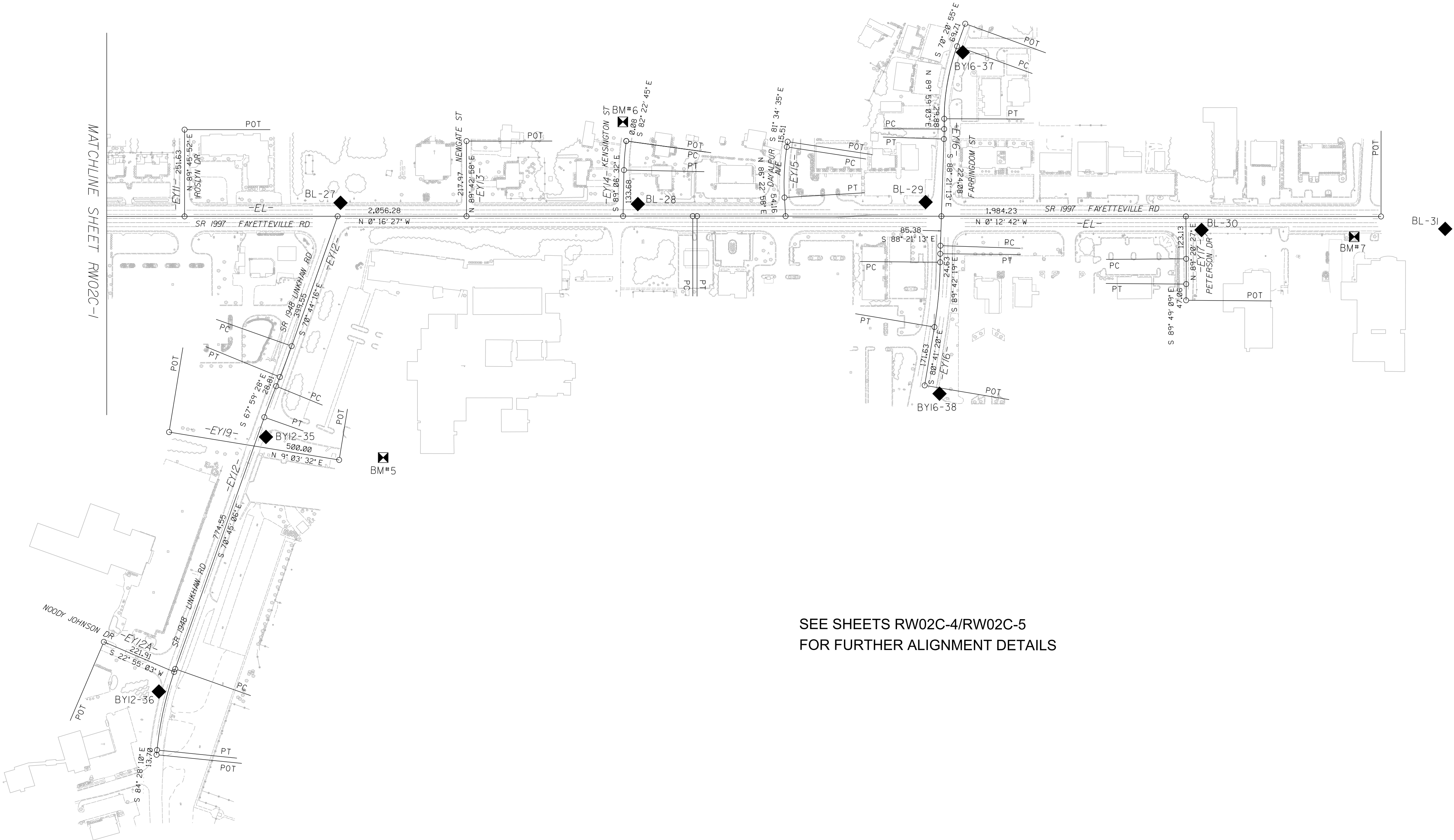
I, RUDOLF A. VANDERVELDE JR., a Professional Land Surveyor in the state of North Carolina, do hereby certify to the best of my knowledge and belief that the following work item(s) COMPILATION OF C-SERIES SHEETS USING FILES/CONTROL PROVIDED BY NCDOT was performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

Witness my original signature, registration number and seal this 1st day of February, 2024.

J5797-3 U5797-4

NOTES:

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SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.
U-5797

SHEET NO.
RW02C-3

Location and Surveys

CONTROL ESTABLISHED BY NCDOT
C-SERIES SHEETS COMPILED
BY WITHERSRAVENEL

PROJECT SURVEYOR



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UNLESS ALL SIGNATURES COMPLETED

BL	POINT	DESC.	NORTH	EAST	ELEVATION
20		BL20	320134.2240	1998775.4140	134.70
1		U5797-1	320674.1000	1998737.2500	136.12
21		BL21	321259.3520	1998826.0780	136.61
22		BL22	321809.2830	1999073.4540	136.40
23		BL23	322421.0310	1999274.9360	134.30
11		U5797-11	323031.3600	1999484.3300	131.27
24		BL24	323626.1280	1999711.1670	130.21
25		BL25	324321.4210	1999930.8800	133.72
26		BL26	325056.7950	1999959.3400	132.39
27		BL27	325912.0360	1999950.5730	132.17
28		BL28	326774.5690	1999950.6650	136.82
29		BL29	327609.5180	1999941.3200	134.36
30		BL30	328410.3610	2000018.8520	131.73
31		BL31	329117.2080	2000012.6600	127.99

BY12	POINT	DESC.	NORTH	EAST	ELEVATION
27		BL27	325912.0360	1999950.5730	132.17
35		BY12-35	325698.6190	2000630.7880	131.31
36		BY12-36	325391.0230	2001370.7490	133.58

BY16	POINT	DESC.	NORTH	EAST	ELEVATION
37		BY16-37	327715.4920	1999506.3890	131.56
29		BL29	327609.5180	1999941.3200	134.36
38		BY16-38	327652.1930	2000496.9640	130.32

BY8	POINT	DESC.	NORTH	EAST	ELEVATION
32		BY8-32	324117.2010	1998235.7600	130.02
5		U5797-5	324018.7200	1998595.7900	127.53
33		BY8-33	323833.9270	1999178.1900	130.90
24		BL24	323626.1280	1999711.1670	130.21
34		BY8-34	323140.8000	2000270.7250	132.27
6		U5797-6	322624.9300	2000869.7500	134.41

BM1 ELEVATION = 136.19
N 320183 E 1999007
EY19 STATION 10+00.00
S 17+06'19.7" W DIST 5476.57
FH-BOLT AT 'O' IN 'OPEN'

BM2 ELEVATION = 128.48
N 323306 E 1999369
EY19 STATION 10+00.00
S 30+35'45.9" W DIST 2453.15
BENCHTIE IN 18 OAK

BM3 ELEVATION = 125.34
N 324282 E 1998675
EY19 STATION 10+00.00
S 59+42'02.1" W DIST 2250.26
FH-BOLT AT 'T' IN 'TENN'

BM4 ELEVATION = 137.03
N 322476 E 2001008
EY19 STATION 10+00.00
S 07+33'25.5" E DIST 2966.96
FH-BOLT AT 'O' IN 'OPEN'

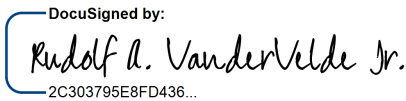
BM5 ELEVATION = 135.07
N 326039 E 2000689
EY19 STATION 15+00.00
N 03+17'37.0" W DIST 127.94
FH-BOLT AT O IN OPEN

BM6 ELEVATION = 136.86
N 326730 E 1999713
EY19 STATION 15+00.00
N 50+14'16.5" W DIST 1280.38
FH-BOLT AT SECOND T IN CHATANOOGA

BM7 ELEVATION = 132.01
N 328853 E 2000037
EY19 STATION 15+00.00
N 12+38'42.7" W DIST 3015.31
FH-BOLT AT SECOND T IN TENN

I, RUDOLF A. VANDERVELDE JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (COMPILATION OF C-SERIES SHEETS USING FILES/CONTROL PROVIDED BY NCDOT) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

Witness my original signature, registration number and seal this 1st day of February, 2024.

DocuSigned by:
 2/1/2024
2C30378EE8FD436...
Professional Land Surveyor PLS# 5146

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.

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	320224.846	1998759.280	N 01°36'48.4" E	679.64					
LINE									
PC	320904.220	1998778.416	N 10°09'45.9" E	283.92	17°05'55.1"(RT)	06°00'00.0"	284.98	143.56	954.93
CURVE									
PT	321183.686	1998828.513	N 18°42'43.5" E	3391.63					
LINE									
PC	324396.047	1999916.591	N 09°13'08.1" E	488.19	18°59'10.8"(LT)	03°52'16.8"	490.43	247.49	1480.00
CURVE									
PT	324877.933	1999994.803	N 00°16'27.3" W	2056.28					
LINE									
PC	326934.190	1999984.960	N 00°14'34.7" W	12.51	00°03'45.2"(RT)	00°30'00.0"	12.51	6.26	11459.16
CURVE									
PT	326946.703	1999984.907	N 00°12'42.1" W	1984.23					
LINE									
POT	328930.921	1999977.576							

EY POINT	N	E	BEARING	DIST
POT	320436.067	1998546.106	S 88°21'51.6" E	219.04
LINE				
POT	320429.815	1998765.054	S 88°21'51.6" E	211.67
LINE				
POT	320423.773	1998976.638		

EY1 POINT	N	E	BEARING	DIST
POT	320705.916	1998553.692	S 88°22'07.2" E	219.05
LINE				
POT	320699.680	1998772.655	S 88°22'07.2" E	211.37
LINE				
POT	320693.663	1998983.944		

EY2 POINT	N	E	BEARING	DIST
POT	320976.212	1998541.452	S 88°28'11.9" E	241.16
LINE				
POT	320969.773	1998782.523	S 88°28'11.9" E	213.78
LINE				
POT	320964.065	1998996.230		

EY3 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	321253.462	1998317.187	S 88°21'08.6" E	449.92					
LINE									
PC	321240.526	1998766.917	S 79°49'12.8" E	44.51	17°03'51.6"(RT)	38°11'49.9"	44.67	22.50	150.00
CURVE									
PT	321232.659	1998810.725	S 71°17'17.0" E	32.56					
LINE									
POT	321222.214	1998841.563							

EY4 POINT	N	E	BEARING	DIST
POT	321511.844	1998701.902	S 88°52'39.0" E	236.24
LINE				
POT	321507.216	1998938.098	S 85°42'49.8" E	128.12
LINE				
POT	321497.641	1999065.861		

EY4A POINT	N	E	BEARING	DIST
POT	321238.681	1998786.441	N 01°33'34.0" E	271.46
LINE				
POT	321510.043	1998793.829	N 01°33'34.0" E	242.00
LINE				
POT	321751.950	1998800.414		

EY4B POINT	N	E	BEARING	DIST
POT	321183.650	1999056.743	N 01°39'48.2" E	314.12
LINE				
POT	321497.641	1999065.861	N 01°39'48.2" E	253.90
LINE				
POT	321751.431	1999073.231		

EY5 POINT	N	E	BEARING	DIST
POT	321753.425	1998746.935	S 88°25'12.0" E	272.12
LINE				
POT	321745.922	1999018.951		

EY6 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	321753.748	1999021.602	S 87°25'49.0" E	134.31					
LINE									
PC	321747.726	1999155.780	S 77°55'13.5" E	115.65	19°01'11.0"(RT)	16°22'12.8"	116.18	58.63	350.00
CURVE									
PT	321723.523	1999268.871	S 68°24'38.0" E	24.14					
LINE									
POT	321714.641	1999291.319							

EY7 POINT	N	E	BEARING	DIST
POT	322410.841	1999244.170	S 72°44'49.0" E	209.67
LINE				
POT	322348.653	1999444.408		

PROJECT REFERENCE NO.
U-5797

SHEET NO.
RW02C-4

Location and Surveys

CONTROL ESTABLISHED BY NCDOT
C-SERIES SHEETS COMPILED
BY WITHERSRAVENEL

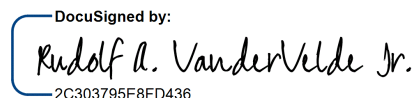
PROJECT SURVEYOR



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DocuSigned by:

2020037ABEFD436

2/1/2024
Professional Land Surveyor PLS # 5146

EY8 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	324098.420	1998186.899	S 68°16'10.6" E	23.55					
LINE									
PC	324089.699	1998208.780	S 71°23'49.2" E	312.58	06°15'17.1"(LT)	02°00'00.0"	312.74	156.52	2864.79
CURVE									
PT	323989.982	1998505.031	S 74°31'27.8" E	483.43					
LINE									
PC	323860.990	1998970.931	S 67°42'04.1" E	689.08	13°38'47.3"(RT)	01°58'32.6"	690.71	347.00	2900.00
CURVE									
PT	323599.528	1999608.478	S 60°52'40.5" E	19.88					
LINE									
PC	323589.854	1999625.844	S 54°46'02.3" E	532.24	12°13'16.5"(RT)	02°17'30.6"	533.25	267.64	2500.00
CURVE									
PT	323282.804	2000060.588	S 48°39'24.0" E	1.67					
LINE									
PC	323281.702	2000061.840	S 47°20'51.6" E	249.00	02°37'04.7"(RT)	01°03'04.7"	249.02	124.53	5450.00
CURVE									
PT	323112.991	2000244.975	S 46°02'19.3" E	860.74					
LINE									
POT	322515.487	2000864.546							

EY8A POINT	N	E	BEARING	DIST
POT	324179.413	1998700.205	S 22°45'35.0" W	236.55
LINE				
POT	323961.282	1998608.691		

EY8B POINT	N	E	BEARING	DIST
POT	323959.647	1998614.596	S 23°12'19.0" W	219.21
LINE				
POT	323758.175	1998528.223		

EY8C POINT	N	E	BEARING	DIST
POT	323526.207	2000143.639	S 19°14'37.0" W	256.44
LINE				
POT	323284.094	2000059.120		

EY9 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	324406.681	1999621.946	S 53°52'32.7" E	14.54					
LINE									
PC	324398.106	1999633.694	S 62°23'12.4" E	133.20	17°01'19.3"(LT)	12°43'56.6"	133.69	67.34	450.00
CURVE									
PT	324336.368	1999751.722	S 70°53'52.0" E	137.01					
LINE									
POT	324291.530	1999881.190							

EY10 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	324295.597	1999882.567	S 71°43'44.0" E	135.42					
LINE									
PC	324253.140	2000011.162	S 56°23'42.8" E	126.93	30°40'02.4"(RT)	23°52'23.7"	128.46	65.81	240.00
CURVE									
PT	324182.889	2000116.880	S 41°03'41.6" E	20.79					
LINE									
POT	324167.214	2000130.536							

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SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

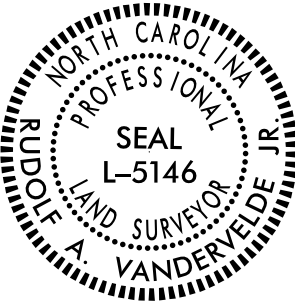
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Location and Surveys

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PROJECT SURVEYOR



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DocuSigned by:
Rudolf A. Vandervelde Jr.
2C30378E8FD436...

2/1/2024

Professional Land Surveyor PLS # 5146

EY11 POINT	N	E	BEARING	DIST
POT	325458.698	1999740.389		
LINE			N 89°45'52.0" E	251.63
POT	325459.732	1999992.018		

EY12 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	325903.899	1999989.892							
LINE			S 70°44'16.0" E	399.55					
PC	325772.089	2000367.079							
CURVE			S 69°21'52.0" E	95.87	02°44'48.0"(RT)	02°51'53.2"	95.88	47.95	2000.00
PT	325738.304	2000456.795							
LINE			S 67°59'28.0" E	28.81					
PC	325727.500	2000483.504							
CURVE			S 69°22'17.2" E	96.36	02°45'38.3"(LT)	02°51'53.2"	96.36	48.19	2000.00
PT	325693.561	2000573.681							
LINE			S 70°45'06.4" E	774.55					
PC	325438.220	2001304.938							
CURVE			S 77°36'38.3" E	241.24	13°43'03.9"(LT)	05°40'22.3"	241.81	121.49	1010.00
PT	325386.462	2001540.557							
LINE			S 84°28'10.3" E	13.70					
POT	325385.142	2001554.195							

EY12A POINT	N	E	BEARING	DIST
POT	325435.202	2001313.711		
LINE			S 22°55'03.0" W	221.91
POT	325230.810	2001227.299		

EY13 POINT	N	E	BEARING	DIST
POT	326276.736	1999770.131		
LINE			N 89°42'58.0" E	217.97
POT	326277.816	1999988.102		

EY14 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	326740.269	1999767.895							
LINE			S 82°22'44.7" E	0.08					
PC	326740.259	1999767.975							
CURVE			S 85°44'38.3" E	84.52	06°43'47.3"(LT)	07°57'27.9"	84.57	42.33	720.00
PT	326733.986	1999852.263							
LINE			S 89°06'32.0" E	133.68					
POT	326731.907	1999985.929							

EY15 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	327208.422	1999767.857							
LINE			S 81°34'34.8" E	15.51					
PC	327206.150	1999783.202							
CURVE			S 87°35'48.4" E	146.84	12°02'27.2"(LT)	08°11'06.4"	147.11	73.83	700.00
PT	327199.993	1999929.909							
LINE			N 86°22'58.0" E	54.16					
POT	327203.409	1999983.959							

EY16 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	327722.211	1999423.401							
LINE			S 70°20'55.3" E	69.71					
PC	327698.769	1999489.048							
CURVE			S 80°10'56.2" E	213.48	19°40'01.8"(LT)	09°10'02.4"	214.54	108.33	625.00
PT	327662.367	1999699.405							
LINE			N 89°59'02.9" E	29.88					
PC	327662.375	1999729.289							
CURVE			S 89°11'05.0" E	29.01	01°39'44.2"(RT)	05°43'46.5"	29.01	14.51	1000.00
PT	327661.963	1999758.297							
LINE			S 88°21'12.9" E	224.08					
POT	327655.524	1999982.289							
LINE			S 88°21'12.9" E	85.38					
PC	327653.071	2000067.630							
CURVE			S 89°01'45.9" E	23.59	01°21'05.9"(LT)	05°43'46.5"	23.59	11.80	1000.00
PT	327652.672	2000091.216							
LINE			S 89°42'18.8" E	24.63					
PC	327652.545	2000115.846							
CURVE			S 85°11'49.3" E	188.64	09°00'59.1"(RT)	04°46'28.7"	188.84	94.62	1200.00
PT	327636.750	2000303.828							
LINE			S 80°41'19.7" E	171.63					
POT	327608.981	2000473.193							

EY17 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	328364.799	1999979.668							
LINE			N 89°20'27.0" E	123.13					
PC	328366.215	2000102.792							
CURVE			N 89°45'38.8" E	73.29	00°50'23.6"(RT)	01°08'45.3"	73.29	36.65	5000.00
PT	328366.521	2000176.086							
LINE			S 89°49'09.4" E	47.06					
POT	328366.373	2000223.140							

EY18 POINT	N	E	BEARING	DIST
POT	322860.815	2000211.098		
LINE			N 09°03'37.4" E	500.00
POT	323354.576	2000289.835		

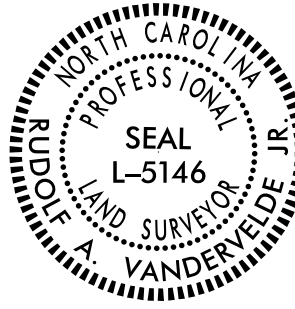
EY19 POINT	N	E	BEARING	DIST
POT	325417.451	2000618.024		
LINE			N 09°03'31.8" E	500.00
POT	325911.215	2000696.748		

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.

REVISIONS

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-5797	RW02D-1
Location and Surveys	
WITHERSRAVENEL INC.	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, RUDOLF A. VANDERVELDE JR., 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 1st day of FEBRUARY, 2024

DocuSigned by:
Rudolf A. VanderVelde Jr. 2/1/2024
2C303795E8ED436

Professional Land Surveyor L-5146

L			
TYPE	STATION	NORTH	EAST
POT	10-00.00	320224.8457	1998759.2803
PC	16-79.63	320904.2890	1998778.4160
PT	19-64.63	321183.6960	1998828.5161
PC	22-32.39	321437.3001	1998914.4160
PT	23-55.13	321539.4671	1998980.2012
EOB	47-00.10	323759.3724	1999735.7643
EOA	0-00.00	323759.3724	1999735.7643
PT	1-10.77	323862.2828	1999776.7355
EOB	23-49.51	321737.1524	1999072.6205
EOA	25-77.05	321737.1524	1999072.6205
PC	26-60.27	321820.0978	1999065.8035
PT	27-62.42	321920.7783	1999078.1778
PC	43-98.73	323470.6028	1999603.1284
PRC	47-74.00	323822.7417	1999732.6976
PT	51-49.26	324174.8806	1999862.2669
PC	52-67.93	324287.2757	1999900.3369
PRC	62-61.78	325267.4362	2000008.1827
PRC	74-04.75	326408.7601	1999976.0507
PT	78-00.52	326804.3607	1999985.4333
POT	89-20.64	327924.4774	1999981.2948

Y			
TYPE	STATION	NORTH	EAST
POT	10-00.00	321759.1796	1998593.4363
PC	13-80.23	321747.3385	1998973.4858
PT	14-79.97	321737.1524	1999072.6205

Y1			
TYPE	STATION	NORTH	EAST
POT	10-00.00	321737.1524	1999072.6205
PC	10-61.02	321743.9184	1999133.2686
PT	13-60.90	321634.9489	1999399.3625
POT	18-95.92	321219.7118	1999736.7516

Y1A			
TYPE	STATION	NORTH	EAST
POT	10+00.00	321313.5956	1999060.5163
POT	12+90.00	321603.4734	1999068.9343

Y1B			
TYPE	STATION	NORTH	EAST
POT	10-00.00	321503.4794	1998987.9578
POT	10-78.12	321497.6407	1999065.8610

Y2			
TYPE	STATION	NORTH	EAST
POT	10-00.00	324126.7229	1998115.8862
PC	10-99.99	324089.7032	1998208.7691
PT	14-12.75	323989.9791	1998505.0419
PC	19-10.87	323857.0673	1998985.0996
PT	33-02.94	323174.0482	2000181.6634
POT	41-02.94	322618.7102	2000757.5104

Y3			
TYPE	STATION	NORTH	EAST
POT	10-00.00	324457.0600	1999552.9200
PC	11-00.00	324398.1062	1999633.6940
PT	12-44.28	324333.0221	1999761.7636
PC	15-01.86	324254.4732	2000007.0839
PT	18-00.31	324033.1475	2000180.2861
PC	20-96.57	323737.5550	2000200.1560
PT	21-98.43	323637.2488	2000186.8570
PC	23-44.77	323498.8435	2000139.3339
PT	25-24.33	323338.6169	2000059.4328
POT	25-65.36	323304.6247	2000036.4545

Y4			
TYPE	STATION	NORTH	EAST
POT	10-00.00	325881.1824	1999968.3897
PC	10-92.45	325881.5239	2000060.8351
PRC	13-13.63	325818.2928	2000269.3794
PT	14-50.36	325757.2427	2000391.3074
POT	24-18.09	325438.2204	2001304.9376

Y5			
TYPE	STATION	NORTH	EAST
POT	10+00.00	326725.0729	1999985.2908
POT	12+00.00	326723.6155	2000185.2855

Y6			
TYPE	STATION	NORTH	EAST
POT	10-00.00	327661.9626	1999758.2973
PC	13-94.84	327650.6182	2000152.9775
PT	15-55.37	327635.3026	2000312.6558
POT	17-18.05	327608.9814	2000473.1931

YA			
TYPE	STATION	NORTH	EAST
POT	10-00.00	321509.4034	1998826.4706
PC	10-71.57	321508.0014	1998898.0246
PT	10-98.68	321500.3248	1998923.6824
POT	11-17.53	321490.2836	1998939.6329

YB			
TYPE	STATION	NORTH	EAST
POT	10-00.00	321248.3753	1998494.0169
PC	12-73.01	321240.5256	1998766.9166
PT	13-17.69	321232.6592	1998810.7253
POT	13-50.25	321222.2141	1998841.5628

RAB			
TYPE	STATION	NORTH	EAST
PC	0+00.00	321688.9285	1999059.4123
PT	3+14.15	321688.9311	1999059.4027

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.

REVISIONS

RIGHT OF WAY CONTROL SHEET

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	19+70.25	-32.70	321199.5067	1998799.3487
L	22+21.00	27.65	321417.6429	1998936.9530
L	22+32.00	-30.30	321446.6524	1998885.5955
L	22+97.00	30.94	321478.0692	1998968.5713
L	25+07.00	44.39	321657.8648	1999096.9129
L	25+40.00	70.00	321682.9203	1999130.3372
L	26+58.00	55.00	321822.3402	1999120.8047
L	27+02.00	45.00	321857.9624	1999110.7022
L	28+38.00	36.00	321980.8166	1999136.5228
L	38+43.00	36.00	322932.6950	1999458.9394
L	41+65.00	58.50	323230.4567	1999583.5517
L	42+75.00	80.00	323327.7449	1999639.2047
L	42+75.00	45.00	323338.9734	1999606.0547
L	42+85.00	-90.00	323391.7545	1999481.3985
L	42+85.00	-50.00	323378.9220	1999519.2843
L	43+74.00	-90.00	323476.0502	1999509.9509
L	43+81.26	80.00	323428.3903	1999673.2949
L	43+89.50	-68.00	323483.6726	1999535.7605
L	49+46.00	38.69	323969.8721	1999830.6361
L	49+46.00	47.50	323966.8108	1999838.9007
L	49+56.75	47.50	323976.9613	1999842.6507
L	49+56.75	38.36	323980.1245	1999834.0719
L	49+88.50	37.47	324010.3987	1999844.2172
L	51+47.50	54.50	324155.7193	1999913.3179
L	51+89.74	-74.55	324237.1350	1999804.6477
L	52+24.00	84.00	324218.7243	1999965.8052
L	52+26.37	-101.30	324280.4129	1999791.0615
L	53+08.22	-98.59	324355.5350	1999819.0117
L	53+40.00	78.00	324333.2075	1999997.0095
L	53+59.66	-66.26	324393.4590	1999864.4583
L	54+21.91	65.00	324418.0058	2000007.6254
L	55+00.00	60.00	324497.0765	2000022.0180
L	55+00.00	65.00	324495.9598	2000026.8917
L	62+00.00	80.00	325212.3558	2000093.7180
L	62+00.00	60.00	325210.7489	2000073.7827
L	62+61.78	80.00	325276.0126	2000087.7216
L	63+13.00	-60.48	325312.3215	1999942.6974
L	64+29.72	-60.00	325429.5571	1999932.3374
L	64+89.32	-60.00	325489.4675	1999927.5352
L	67+14.00	-60.00	325715.5925	1999913.8902
L	67+14.00	-90.00	325714.2523	1999883.9201
L	67+81.89	80.00	325788.9275	2000051.0671
L	68+46.00	-100.00	325847.5502	1999869.1756
L	68+46.00	-90.00	325847.8139	1999879.1721
L	69+15.00	-100.00	325917.4906	1999867.6650
L	69+15.00	-90.00	325917.6587	1999877.6636
L	69+61.63	119.61	325967.0370	2000086.6197
L	70+18.00	-90.00	326021.9386	1999876.6556
L	70+53.39	80.00	326057.3626	2000046.6526
L	71+02.00	-70.00	326106.8037	1999896.9356
L	72+41.25	-70.00	326247.3775	1999899.5765
L	73+00.97	-61.00	326307.3144	1999910.5348
L	74+04.75	80.00	326404.6723	2000055.9462
L	76+80.00	-60.00	326684.6270	1999924.8778
L	76+97.23	-65.96	326701.7774	1999919.1194
L	77+61.06	-68.91	326765.0263	1999916.5626
L	78+00.52	59.99	326804.5861	2000045.4241
L	78+00.52	80.00	326804.6600	2000065.4327
L	78+00.52	-60.99	326804.1391	1999924.4390
L	79+80.00	57.00	326984.0538	2000041.7697
L	79+90.00	-59.01	326993.6261	1999925.7277
L	81+43.00	-59.00	327146.6241	1999925.1683
L	81+68.93	-81.00	327172.4753	1999903.0727
L	82+27.50	-60.00	327231.1215	1999923.8561
L	85+61.16	57.00	327565.2132	2000039.6226
L	85+95.00	-60.00	327598.6173	1999922.4984

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y	13+83.00	48.26	321699.0169	1998974.5569
Y	13+35.00	28.57	321720.1873	1998927.3840
Y	13+44.45	-26.71	321775.1499	1998938.5478
Y	13+85.00	-38.81	321785.9585	1998979.7218
Y	13+48.00	37.00	321711.3602	1998940.1153

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y1	11+00.00	-40.00	321785.7079	1999172.9280
Y1	11+13.00	34.81	321710.4424	1999183.0014
Y1	13+52.40	-40.00	321667.5570	1999424.2315

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y2	20+70.00	75.69	323738.5932	1999112.8677
Y2	21+63.00	135.00	323652.6100	1999177.1603
Y2	22+37.00	76.53	323681.0782	1999264.7835
Y2	19+37.00	-74.84	323921.9094	1999030.8926
Y2	19+37.00	-110.00	323955.7102	1999040.5914
Y2	20+55.00	-110.00	323919.4124	1999157.7228
Y2	20+55.00	-74.36	323885.6000	1999146.4586
Y2	31+65.00	-74.38	323323.3358	2000128.9878
Y2	30+30.00	-71.14	323409.4212	2000020.4495

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y3	15+15.43	-50.00	324296.7117	2000037.6866
Y3	15+02.00	35.00	324221.1046	1999996.5221
Y3	18+00.31	-50.00	324036.5009	2000230.1736
Y3	20+96.57	-50.00	323740.9084	2000250.0434
Y3	21+98.00	-50.00	323621.4963	2000234.3131
Y3	21+98.00	-40.00	323624.7280	2000224.8497
Y3	23+44.77	-40.00	323485.8535	2000177.1658
Y3	24+31.00	-40.00	323401.6079	2000142.1354
Y3	24+11.00	30.13	323449.8472	2000087.4059
Y3	15+02.00	27.78	324227.9806	1999998.7278
Y3	16+00.00	30.00	324184.3025	2000072.9833
Y3	16+40.00	30.00	324159.5131	2000097.9209
Y3	16+40.00	26.90	324161.5283	2000100.2732

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y4	11+31.38	60.75	325819.1924	2000093.5652
Y4	12+33.00	-66.00	325917.1331	2000222.3307
Y4	14+08.00	-61.00	325828.5923	2000376.5306
Y4	15+00.00	60.00	325684.2321	2000418.3934
Y4	17+04.82	-68.11	325737.6594	2000653.9968
Y4	17+27.79	60.00	325609.1388	2000633.4491

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y6	11+18.00	30.34	327628.2419	1999875.3768

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
YA	10+35.00	27.87	321480.8501	1998860.9179

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
YB	13+00.00	25.37	321212.5140	1998788.4191

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 12/04/2023 TO 01/17/2025 .

PROJECT REFERENCE NO.	SHEET NO.
U-5797	RW03E-1
Location and Surveys	
WITHERSRAVENEL INC.	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, RUDOLF A. VANDERVELDE JR., 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 12/04/2023 to 01/17/2025, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 24TH day of JANUARY, 2025.


Rudolf A. VanderVelde, Jr.
Professional Land Surveyor L-5146

1/24/2025

REVISIONS

6/2/99

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vanderVelde

PERMANENT EASEMENT CONTROL SHEET

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	42+85.00	-117.00	323400.4164	1999455.8257
L	43+74.00	-117.00	323484.7121	1999484.3780
L	46+68.00	-76.00	323751.0160	1999623.2240
L	48+40.00	-83.00	323914.1530	1999679.4108
L	49+52.00	-93.00	324021.1680	1999709.2037
L	50+66.00	-89.00	324125.7022	1999751.1419
L	50+66.00	-104.00	324130.6778	1999736.9912
L	50+87.00	-104.00	324150.2134	1999743.8285
L	50+87.00	-89.00	324145.2789	1999757.9936
L	59+80.00	-94.00	324987.5980	1999927.1116
L	59+80.00	-102.00	324987.7231	1999919.1126
L	60+56.00	-77.14	325060.7709	1999943.9015
L	68+46.00	-120.00	325847.0226	1999849.1826
L	69+15.00	-120.00	325917.1544	1999847.6679
L	70+88.00	-109.00	326092.9485	1999857.8213
L	70+67.00	-78.20	326071.4998	1999888.4991
L	79+13.00	-90.00	326916.5112	1999895.0183
L	79+13.00	-81.00	326916.5444	1999904.0182
L	81+05.00	-81.00	327108.5430	1999903.3089
L	81+05.00	-59.00	327108.6239	1999925.3073
L	81+43.00	-81.00	327146.5428	1999903.1685
L	82+22.51	-81.00	327226.0508	1999902.8747
L	61+63.00	108.00	325175.9623	2000124.4284
L	61+63.00	60.00	325172.8792	2000076.5275
L	61+34.00	60.00	325143.1695	2000078.2509
L	61+34.00	108.00	325145.6458	2000126.1870
L	58+36.00	93.00	324835.0166	2000107.0379
L	58+38.00	60.00	324839.6514	2000074.2989
L	58+08.00	60.00	324808.9744	2000071.7107
L	58+16.00	94.00	324814.1887	2000106.3110
L	56+54.00	100.00	324645.8962	2000091.6118
L	56+54.00	60.00	324652.1897	2000052.1100
L	55+86.00	60.00	324583.4504	2000040.1092
L	55+86.00	100.00	324575.9868	2000079.4067
L	54+62.00	65.00	324457.9425	2000017.8481
L	54+62.00	95.00	324450.7573	2000046.9788
L	54+21.91	95.00	324410.3124	2000036.6222
L	43+20.00	135.00	323352.7217	1999705.7341
L	43+31.00	113.00	323370.1981	1999688.4259
L	42+75.00	135.00	323310.1002	1999691.2975
L	38+50.00	54.00	322933.5504	1999478.2337
L	38+37.00	98.00	322907.1218	1999515.7374
L	38+17.00	97.00	322888.4997	1999508.3740
L	38+10.00	53.00	322895.9855	1999464.4540
L	29+15.00	36.00	322053.7466	1999161.2254
L	29+15.00	48.00	322049.8968	1999172.5911
L	28+18.00	48.00	321958.0240	1999141.4723
L	27+67.75	47.20	321910.6864	1999124.5987
L	27+63.00	50.28	321905.1997	1999125.9871
L	27+50.00	67.00	321890.6059	1999138.9353
L	27+50.00	46.78	321896.1339	1999119.4856
L	88+91.00	-58.00	327894.6227	1999923.4047
L	88+65.00	50.03	327869.0220	2000031.5279
L	88+65.00	82.00	327869.1401	2000063.4999
L	88+68.00	82.00	327872.1401	2000063.4888
L	88+68.00	114.00	327872.2583	2000095.4885
L	46+38.09	-89.81	323727.6111	1999599.5958
L	56+29.00	-80.00	324650.4123	1999909.9278
L	54+50.00	-79.00	324481.1872	1999875.2344
L	54+50.00	-93.00	324484.6112	1999861.6596
L	54+27.00	-94.00	324463.4972	1999855.1884
L	54+27.00	-79.00	324459.6827	1999869.6953
L	88+91.00	-49.71	327894.6534	1999931.6996
L	79+38.00	-81.00	326941.5442	1999903.9259
L	79+38.00	-96.00	326941.4888	1999888.9260
L	63+14.00	98.00	325329.1730	2000100.2815
L	63+18.00	90.00	325332.3034	2000091.9277
L	27+63.00	67.00	321899.8399	1999141.8261
L	62+50.00	-66.76	325248.9029	1999943.0010
L	64+03.00	-70.00	325401.8396	1999924.6892
L	64+31.45	-82.31	325429.4318	1999909.9638
L	43+84.76	84.58	323430.2316	1999678.7527
L	48+40.00	-88.00	323915.9584	1999674.7481
L	62+80.00	95.00	325295.4972	2000100.7305
L	64+03.00	-81.00	325400.8748	1999913.7316
L	70+67.00	-109.00	326071.6314	1999857.6992
L	78+91.00	-60.04	326894.6220	1999925.0544
L	77+60.23	-85.60	326764.2392	1999899.8696
L	77+73.00	-81.00	326776.8539	1999904.4825
L	77+73.00	-66.54	326776.8522	1999918.9441
L	88+98.00	50.01	327902.0217	2000031.3924
L	88+98.00	84.00	327902.1473	2000065.3779
L	88+91.00	84.00	327895.1473	2000065.4038
L	88+91.00	114.00	327895.2582	2000095.4036
L	47+50.81	-82.01	323831.2474	1999647.8637
L	47+67.11	-82.78	323846.8674	1999653.2110
L	60+56.00	-102.00	325060.3346	1999919.0432

SET ON
7/21/25

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	42+40.00	63.50	323299.8883	1999612.3484
L	27+43.00	46.35	321890.7449	1999117.5922
L	22+25.00	28.28	321421.2303	1998938.8301
L	22+25.00	41.00	321417.1493	1998950.8786
L	22+61.00	44.00	321445.0334	1998964.9137
L	23+01.60	37.24	321477.8333	1998976.0227
L	62+89.00	-115.00	325282.6057	1998990.9329
L	63+15.00	-115.00	325308.8835	1998888.2477
L	62+89.00	-67.30	325287.5401	1999938.3748
L	63+15.00	-67.76	325313.6013	1999935.2532
L	66+27.00	-79.00	325626.9041	1998989.3684
L	66+45.00	-69.00	325645.6156	1999908.3441
L	66+40.00	-60.00	325641.0696	1999917.6060
L	66+16.00	-60.00	325616.9087	1999918.9754
L	65+30.00	100.50	325541.6318	2000084.6472
L	65+30.00	108.00	325542.1579	2000092.1287
L	65+50.00	108.00	325561.8117	2000090.7740
L	65+50.00	101.50	325561.3737	2000084.2887
L	70+07.00	100.22	326011.5716	2000066.9141
L	70+69.00	98.00	326072.7197	2000064.7060
L	70+69.00	109.00	326072.6696	2000075.7059
L	70+90.00	110.00	326093.3443	2000076.8301
L	70+90.00	99.00	326093.4264	2000065.8304
L	73+25.00	101.00	326325.0437	2000073.3351
L	73+25.00	108.00	326324.7634	2000080.3294
L	73+46.00	101.00	326345.7317	2000074.1944
L	73+46.00	108.00	326345.4310	2000081.1879
L	74+96.00	98.00	326496.1427	2000078.0647
L	74+96.00	105.00	326495.8734	2000085.0595
L	75+16.00	105.00	326516.1503	2000085.8120
L	75+16.00	98.00	326516.4003	2000078.8165
L	72+04.00	-70.00	326209.7797	1998988.6041
L	72+22.00	-83.00	326228.2840	1998886.0541
L	74+98.00	-82.00	326505.0437	1998988.2737
L	75+20.00	-82.00	326526.7792	1998989.0714
L	74+98.00	-62.24	326504.2888	1999918.0225
L	75+20.00	-62.21	326526.0835	1999918.8510
L	84+06.00	73.00	327410.1100	2000056.1957
L	84+06.00	57.00	327410.0509	2000040.1958
L	84+29.00	57.00	327433.0507	2000040.1109
L	84+29.00	73.00	327433.1099	2000056.1108
L	57+83.00	-87.04	324798.3612	1999922.9645
L	58+27.00	-88.00	324840.5879	1999925.8998
L	36+38.00	49.00	322734.3602	1999405.4857
L	42+75.00	64.00	323332.8779	1999624.0504
L	49+52.00	-72.00	324013.8895	1999728.9038
L	48+40.00	-68.11	323908.7754	1999693.2995
L	81+43.00	-87.00	327146.5207	1998987.1685
L	46+68.07	-92.67	323757.0141	1999607.6681
L	49+52.00	-87.00	324019.0886	1999714.8319
L	48+09.00	73.00	323828.6487	1999813.5174
L	48+22.00	56.00	323847.0559	1999802.4625
L	48+04.00	42.26	323835.1892	1999783.0646
L	47+73.00	43.94	323805.5821	1999773.1631
L	50+80.00	62.00	324088.9388	1999898.2633
L	50+80.00	46.83	324093.9430	1999883.9429
L	50+48.00	62.00	324058.4944	1998887.5489
L	50+48.00	43.42	324064.7007	1998870.0380
L	79+96.00	71.50	327000.1073	2000056.2105
L	79+96.00	57.00	327000.0537	2000041.7106
L	24+98.00	-85.47	321683.5129	1998969.2979
L	52+04.00	-84.96	324253.9866	1999799.3575
L	76+25.00	98.00	326626.8349	2000081.9276
L	76+25.00	107.00	326626.6494	2000090.9257
L	76+93.00	106.00	326695.6593	2000091.0233
L	77+66.00	91.00	326769.7457	2000076.4782
L	77+95.00	91.00	326799.1111	2000076.4511
L	77+66.00	80.00	326769.7576	2000065.4782
L	77+95.00	80.00	326799.0789	2000065.4512
L	86+08.31	-81.00	327611.8505	1999901.4493

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y1	13+55.00	-59.00	321677.5854	1999440.6507
Y1	13+37.00	-60.00	321694.2960	1999426.9802
Y1	13+37.00	-44.00	321683.2503	1999415.4046
Y1	13+19.00	-44.00	321697.7464	1999400.7164
Y1	13+19.00	-60.00	321709.4663	1999411.6088
Y1	13+00.00	-60.00	321724.4489	1999394.4277
Y1	13+00.00	-43.00	321711.2890	1999383.6659
Y1	12+75.00	-40.00	321725.9688	1999359.1120
Y1	12+47.50	-40.00	321742.4210	1999332.6543
Y1	11+80.00	-47.71	321779.4048	1999264.4532
Y1	11+80.00	-66.00	321796.9545	1999269.6040
Y1	12+00.00	-66.00	321789.3079	1999292.7702
Y1	12+00.00	-48.00	321772.4125	1999286.5617
Y1	11+55.00	-40.00	321778.8447	1999234.7945
Y1	13+56.15	-44.31	321667.0965	1999430.2832

I, RUDOLF A. VANDERVELDE JR., 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 12/04/2023 to 01/17/2025 & 1 PT SET ON 7/21/2025 (SEE TABLE), and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 22ND day of JULY, 2025.

Rudolf A. VanderVelde Jr.
Professional Land Surveyor L-5146

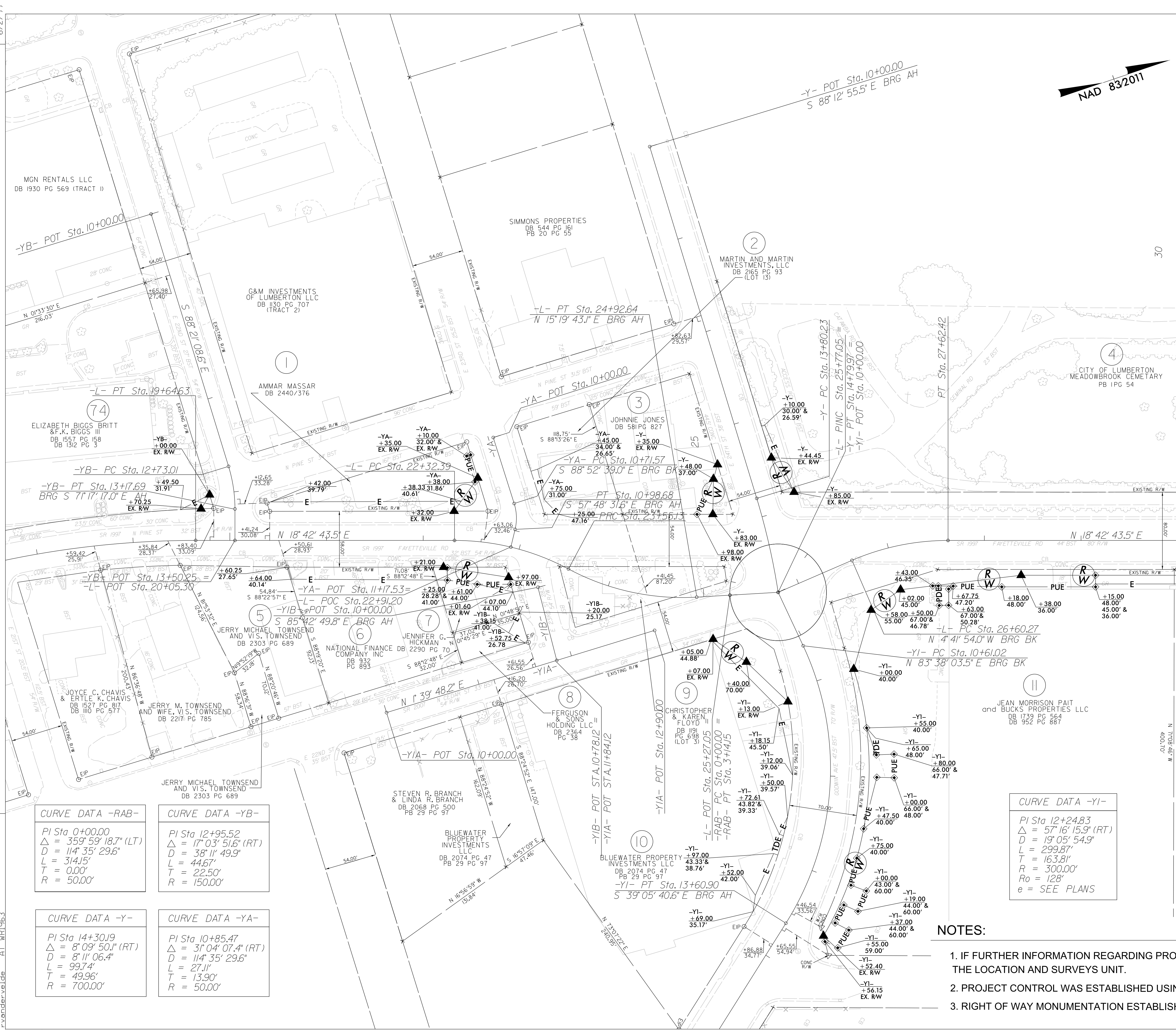
7/22/2025

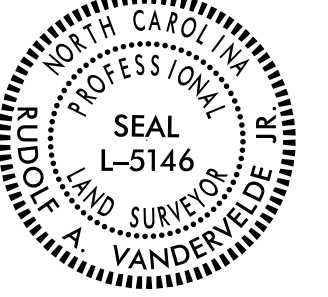
PROJECT SURVEYOR



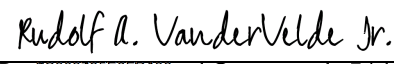
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AT W1963
R.vanderVelde

REVISIONS



PROJECT REFERENCE NO.	SHEET NO.
U-5797	RW04
Location and Surveys	
WITHERSRAVENEL INC.	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, RUDOLF A. VANDERVELDE JR., 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 12/04/2023 to 01/05/2024, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCA 56.1600 as applicable.

This 1ST day of FEBRUARY, 2024.

Rudolf A. VanderVelde, Jr.
Professional Land Surveyor L-5146

2/1/2024

MATCHLINE -L- STA 30+00 SEE SHEET RW5

CURVE DATA -RAB-	CURVE DATA -YB-
PI Sta 0+00.00 Δ = 359° 59' 18.7" (LT) D = 114° 35' 29.6" L = 314.15' T = 0.00' R = 50.00'	PI Sta 12+95.52 Δ = 17° 03' 51.6" (RT) D = 38° 11' 49.9" L = 44.67' T = 22.50' R = 150.00'
CURVE DATA -Y-	CURVE DATA -YA-
PI Sta 14+30.19 Δ = 8° 09' 50.1" (RT) D = 8° 11' 06.4" L = 99.74' T = 49.96' R = 700.00'	PI Sta 10+85.47 Δ = 31° 04' 07.4" (RT) D = 114° 35' 29.6" L = 27.11' T = 13.90' R = 50.00'

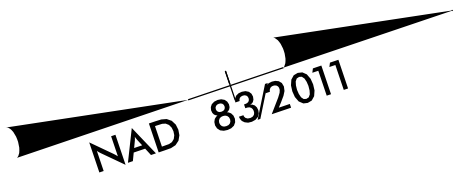
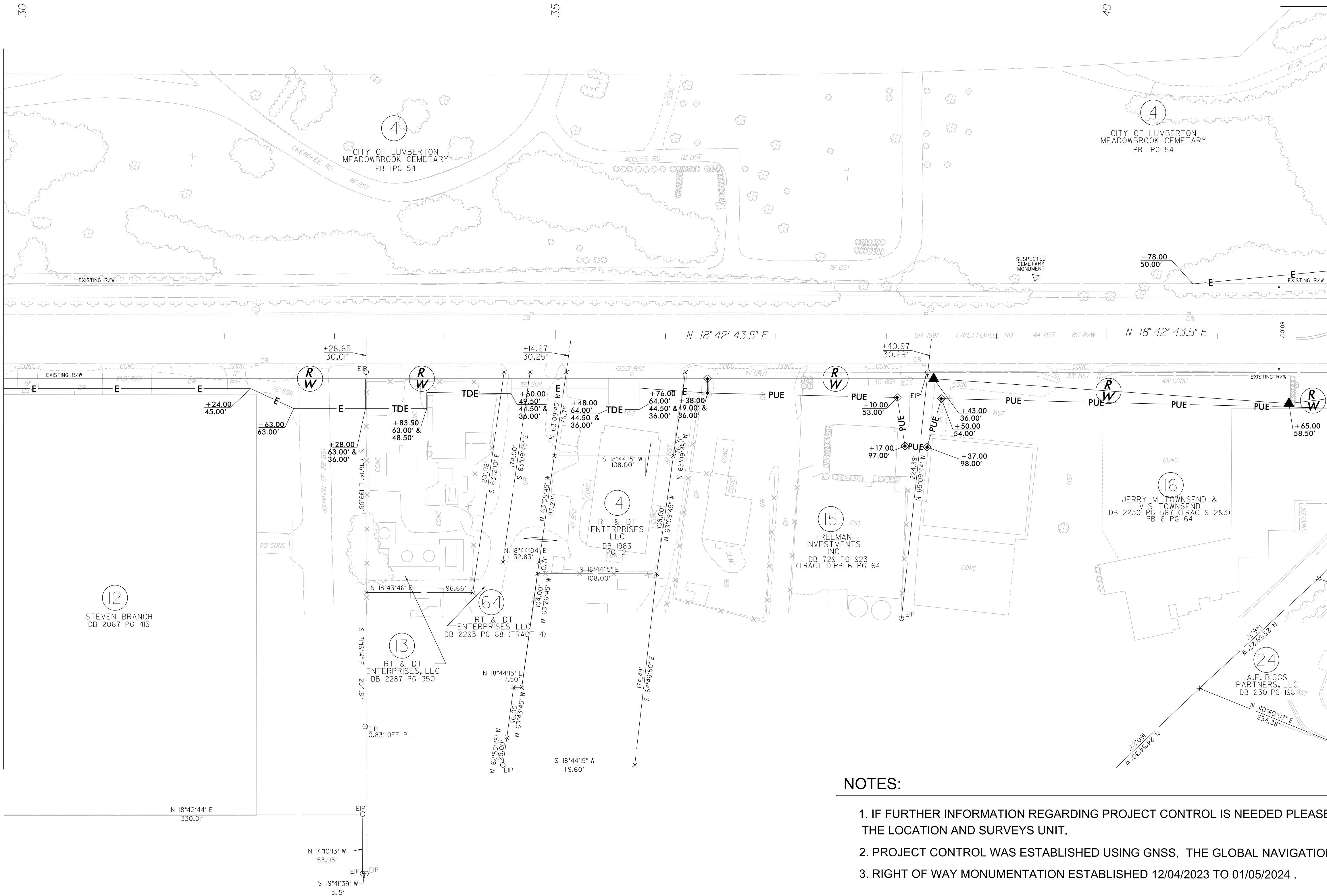
CURVE DATA -YI-
PI Sta 12+24.83 Δ = 57° 16' 15.9" (RT) D = 19° 05' 54.9" L = 299.87' T = 163.81' R = 300.00' Ro = 128' e = SEE PLANS

CURVE DATA -L-	
PI Sta 18+23.20 Δ = 17° 05' 55.1" (RT) D = 5° 59' 58.4" L = 285.00' T = 143.57' R = 955.00'	PI Sta 22+95.02 Δ = 28° 07' 50.8" (RT) D = 22° 55' 05.9" L = 122.74' T = 62.64' R = 250.00' Ro = 128' e = SEE PLANS
PI Sta 24+25.67 Δ = 31° 30' 51.2" (LT) D = 22° 55' 05.9" L = 137.51' T = 70.54' R = 250.00' Ro = 104' e = SEE PLANS	PI Sta 27+12.07 Δ = 23° 24' 37.4" (RT) D = 22° 55' 05.9" L = 102.15' T = 51.80' R = 250.00' Ro = 104' e = SEE PLANS

- 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 12/04/2023 TO 01/05/2024 .

REVISIONS

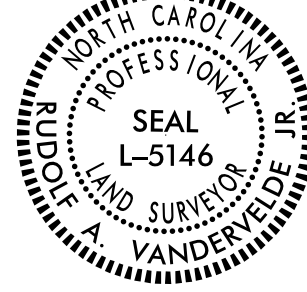
MATCHLINE -L- STA 30+00 SEE SHEET RW4



I, RUDOLF A. VANDERVELDE JR., 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 12/04/2023 to 01/05/2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1ST day of FEBRUARY, 2024.
Rudolf A. VanderVelde Jr. 2/1/2024
Professional Land Surveyor L-5146

PROJECT SURVEYOR



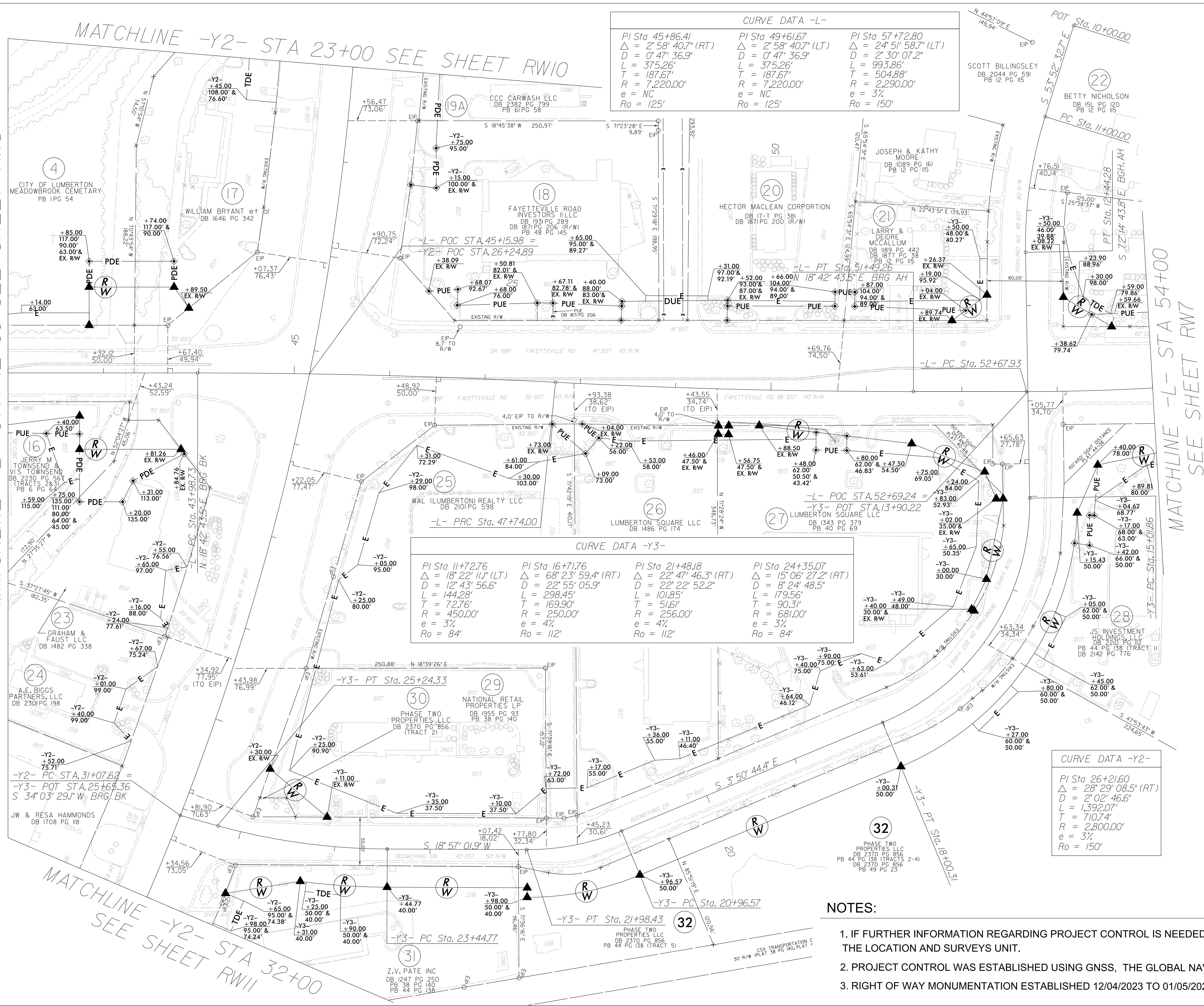
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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 12/04/2023 TO 01/05/2024 .

MATCHLINE -L- STA 42+00 SEE SHEET RW6

MATCHLINE -/- STA 42+00 SEE SHEET RWS



Plan view of station 32+00. The diagram shows a matchline on the left with the text "MATCHLINE" and "SEE SHEET". The stationing is indicated as "STA 32+00". The plan view includes a centerline, a right-of-way line (RW), and a tree line. Key points are labeled with elevations and distances: Y2- at +65.00' and +95.00', Y3- at +25.00' and +40.00', and Y3- at +31.00' and +40.00'. The plan view also shows a "TDE" (Tree Density Estimate) area and a "T" (Tree) symbol. The plan view is drawn on a grid with a scale of 1" = 20'.

PROJECT REFERENCE NO.	SHEET NO.
U-5797	RW06
Location and Surveys	
WITHERSRAVENEL INC.	
PROJECT SURVEYOR 	
THIS DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

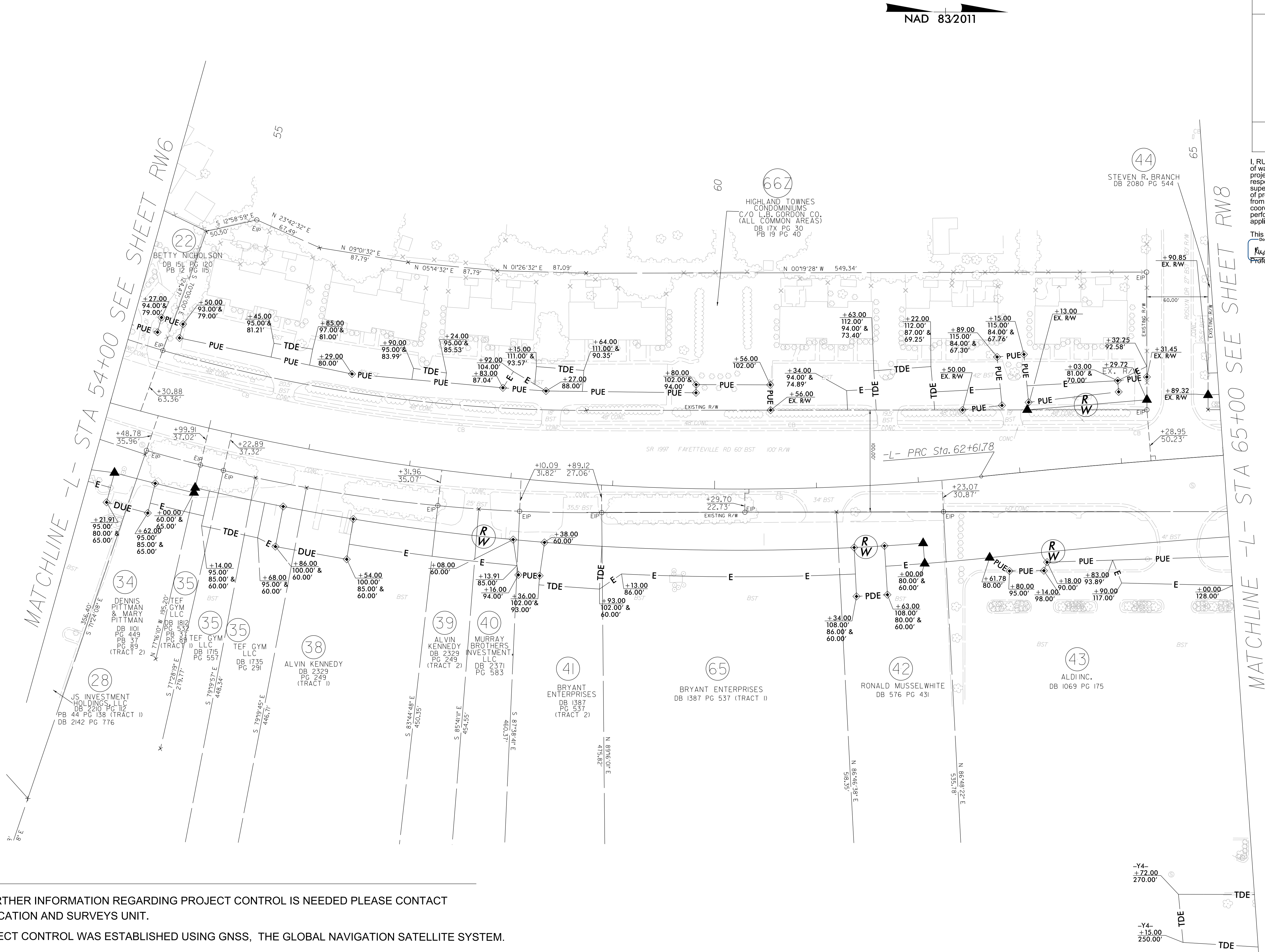
I, RUDOLF A. VANDERVELDE JR., PLS, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 12/04/2023 to 01/05/2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1ST day of FEBRUARY, 2024.
 DocuSigned by:
Rudolf A. VanderVelde Jr. 2/1/2024
 Professional Land Surveyor L-5146

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 12/04/2023 TO 01/05/2024 .

REVISIONS



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 12/04/2023 TO 01/05/2024, & 7/21/2025.

PROJECT REFERENCE NO.	SHEET NO.
U-5797	RW07
Location and Surveys	
WITHERSRAVENEL INC.	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

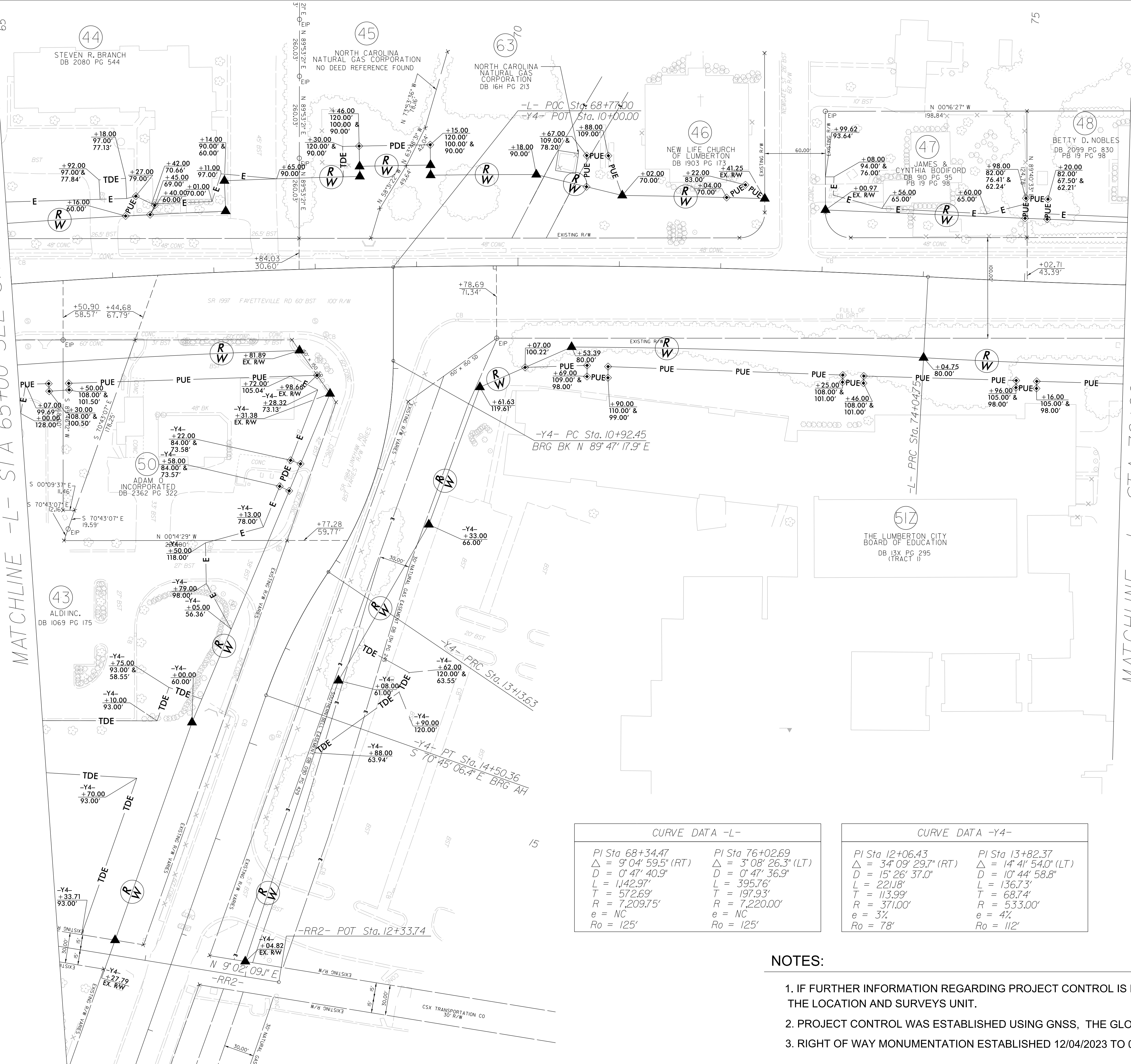
I, RUDOLF A. VANDERVELDE JR., PLS. certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 12/04/2023 to 01/05/2024, & 7/21/2025 and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

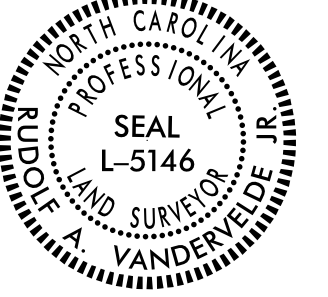
This 22ND day of JULY, 2025.
DocuSigned by:
Rudolf A. VanderVelde Jr. 7/22/2025
Professional Land Surveyor L-5146

REVISIONS

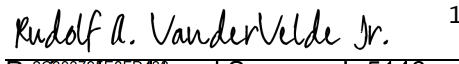
MATCHLINE -L- STA 65+00 SEE SHEET RW7

MATCHLINE -L- STA 76+00 SEE SHEET RW9



PROJECT REFERENCE NO.	SHEET NO.
U-5797	RW08
Location and Surveys	
WITHERSRAVENEL INC.	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, RUDOLF A. VANDERVELDE JR., 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 12/04/2023 to 01/17/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 24TH day of JANUARY, 2025.
DocuSigned by:
 1/24/2025
Professional Land Surveyor L-5146

NAD 83/2011

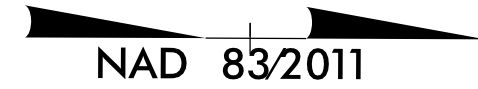
CURVE DATA -L-	
PI Sta 68+34.47	PI Sta 76+02.69
Δ = 9° 04' 59.5" (RT)	Δ = 3° 08' 26.3" (LT)
D = 0° 47' 40.9"	D = 0° 47' 36.9"
L = 1,442.97'	L = 395.76'
T = 572.69'	T = 197.93'
R = 7,209.75'	R = 7,220.00'
e = NC	e = NC
Ro = 125'	Ro = 125'

CURVE DATA -Y4-	
PI Sta 12+06.43	PI Sta 13+82.37
Δ = 34° 09' 29.7" (RT)	Δ = 14° 41' 54.0" (LT)
D = 15° 26' 37.0"	D = 10° 44' 58.8"
L = 221.18'	L = 136.73'
T = 113.99'	T = 68.74'
R = 371.00'	R = 533.00'
e = 3%	e = 4%
Ro = 78'	Ro = 112'

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 12/04/2023 TO 01/17/2025 .

MATCHLINE -L- STA 76+00 SEE SHEET RW8



I, RUDOLF A. VANDERVELDE JR., 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 12/04/2023 to 01/05/2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1ST day of FEBRUARY, 2024.

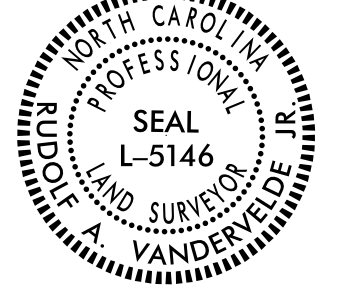
Rudolf A. VanderVelde Jr. 2/1/2024
Professional Land Surveyor L-5146

PROJECT REFERENCE NO.	SHEET NO.
U-5797	RW09

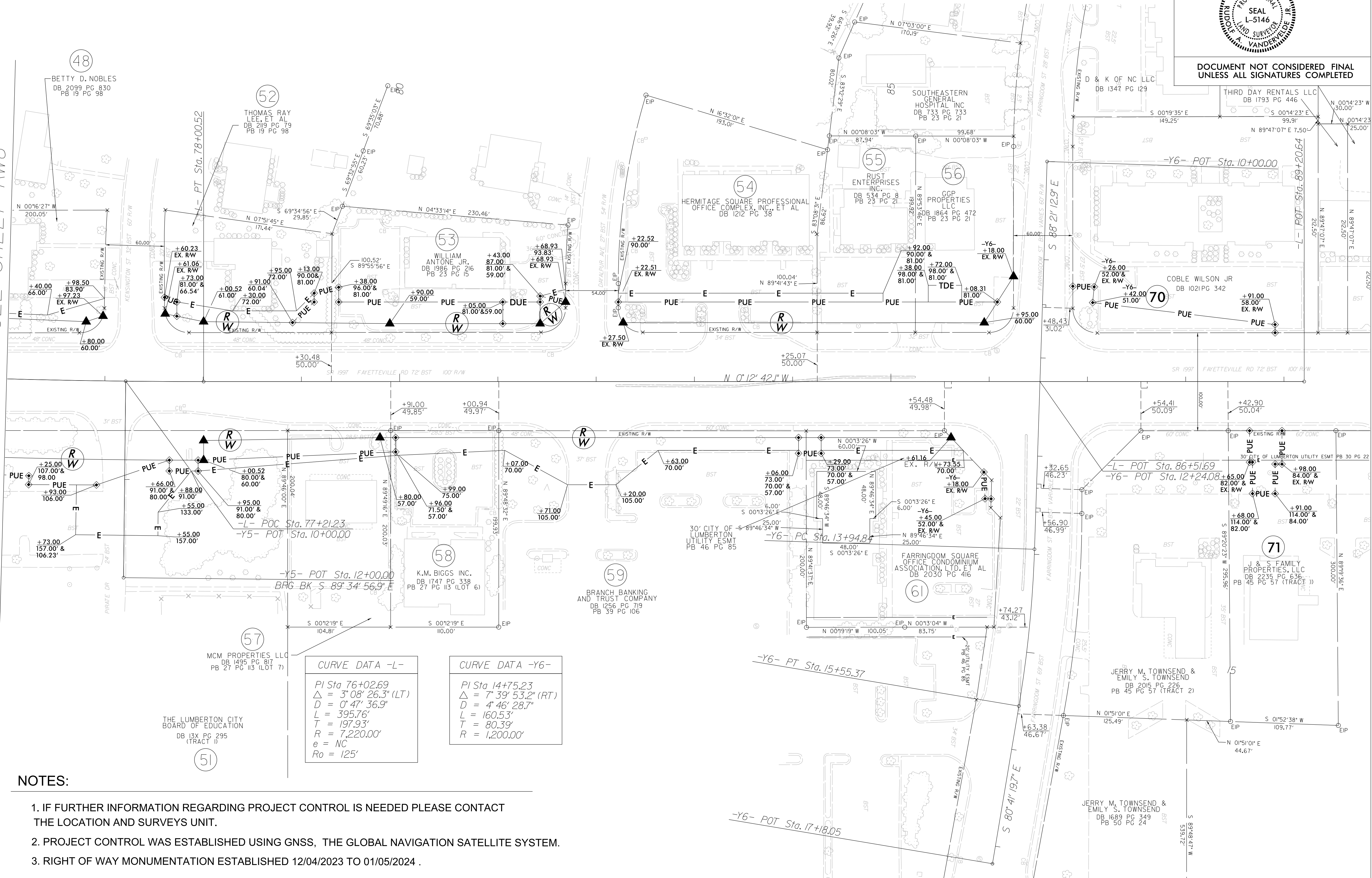
Location and Surveys

WITHERSRAVENEL INC.

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

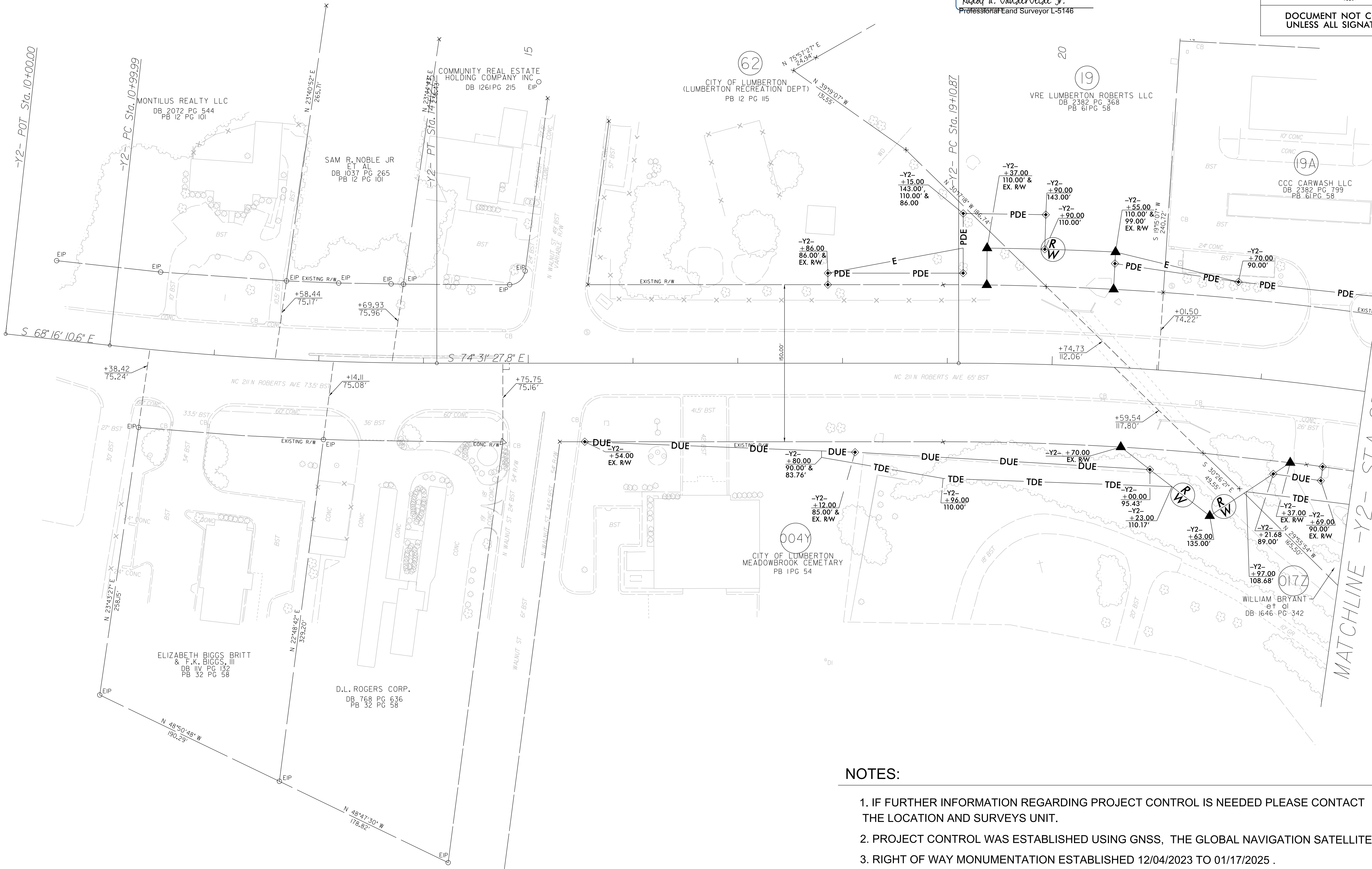


NOTES:

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 12/04/2023 TO 01/05/2024 .

REVISIONS

CURVE DATA -Y2-	
PI Sta 12+56.52	PI Sta 26+21.60
$\Delta = 6^{\circ}15'17.1''$ (LT)	$\Delta = 28^{\circ}29'08.5''$ (RT)
$D = 1^{\circ}59'59.5''$	$D = 2^{\circ}02'46.6''$
$L = 312.76'$	$L = 1,392.07'$
$T = 156.54'$	$T = 710.74'$
$R = 2,865.00'$	$R = 2,800.00'$
$e = 3\%$	$e = 3\%$
$R_0 = 150'$	$R_0 = 150'$



I, RUDOLF A. VANDERVELDE JR., 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 12/04/2023 to 01/17/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 24TH day of JANUARY, 2025.
Designed by: Rudolf A. VanderVelde Jr. 1/24/2025
Professional Land Surveyor L-5146

PROJECT REFERENCE NO.	SHEET NO.
U-5797	RW10
Location and Surveys	
WITHERSRAVENEL INC.	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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 12/04/2023 TO 01/17/2025 .

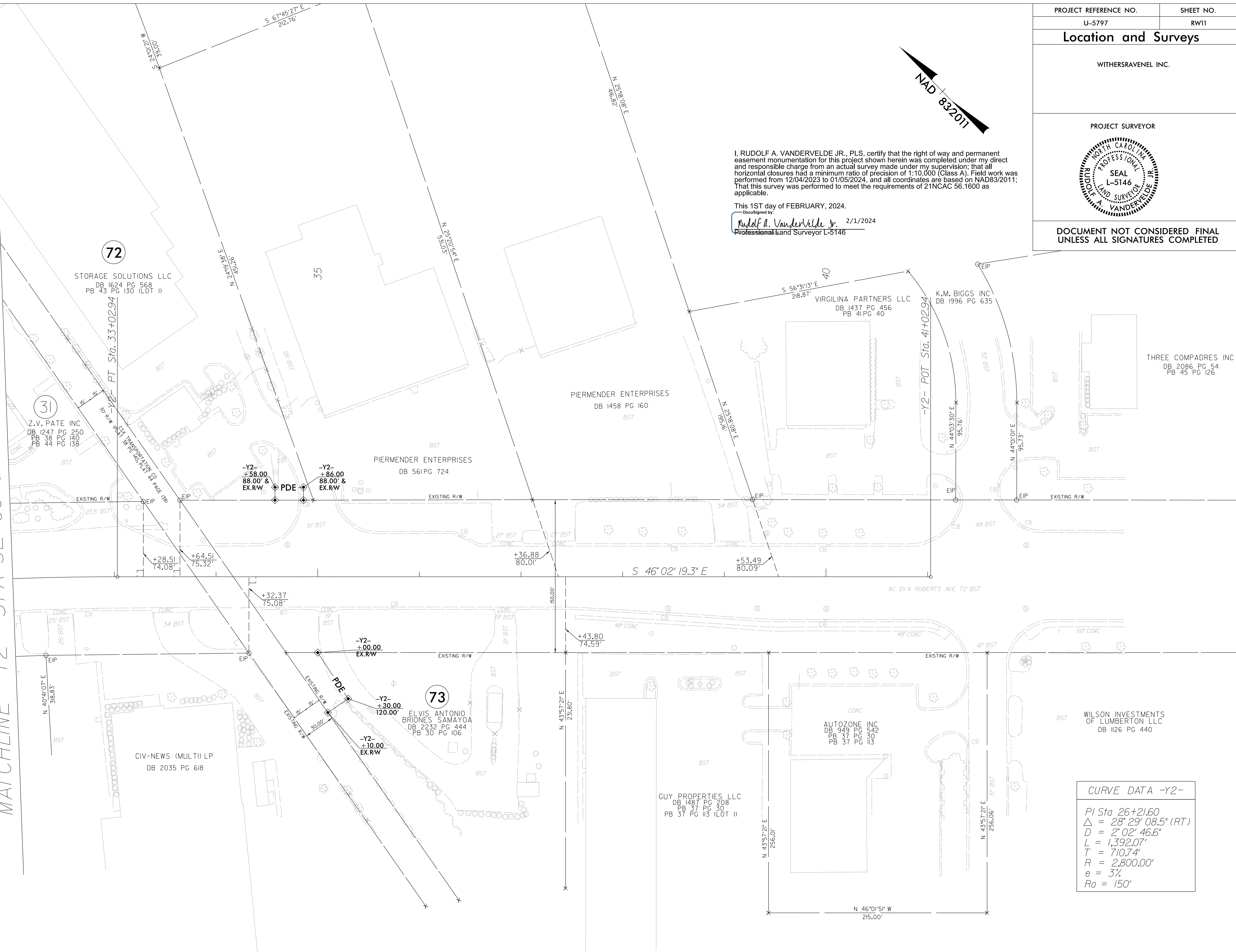
MATCHLINE -Y2- STA 23+00 SEE SHEET RW6

6/2/99

01-FEB-2024 13:07
J:\23\0346-018-U-5797_ROW Stakeout\Geomatics\NCD01\RW SHEETS\RW-Series\U5797_1s.rwl.dgn
vanderVelde AT WR1963

REVISIONS

MATCHLINE -Y2- STA 32+00 SEE SHEET RW6



I, RUDOLF A. VANDERVELDE JR., 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 12/04/2023 to 01/05/2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1ST day of FEBRUARY, 2024.
Documented by:
Rudolf A. VanderVelde Jr. 2/1/2024
Professional Land Surveyor L-5146

PROJECT REFERENCE NO.	SHEET NO.
U-5797	RW11
Location and Surveys	
WITHERSRAVENEL INC.	
PROJECT SURVEYOR	
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CURVE DATA -Y2-
PI Sta 26+21.60
$\Delta = 28^{\circ} 29' 08.5''$ (RT)
$D = 2^{\circ} 02' 46.6''$
$L = 1,392.07'$
$T = 710.74'$
$R = 2,800.00'$
$e = 3\%$
$Ro = 150'$

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