

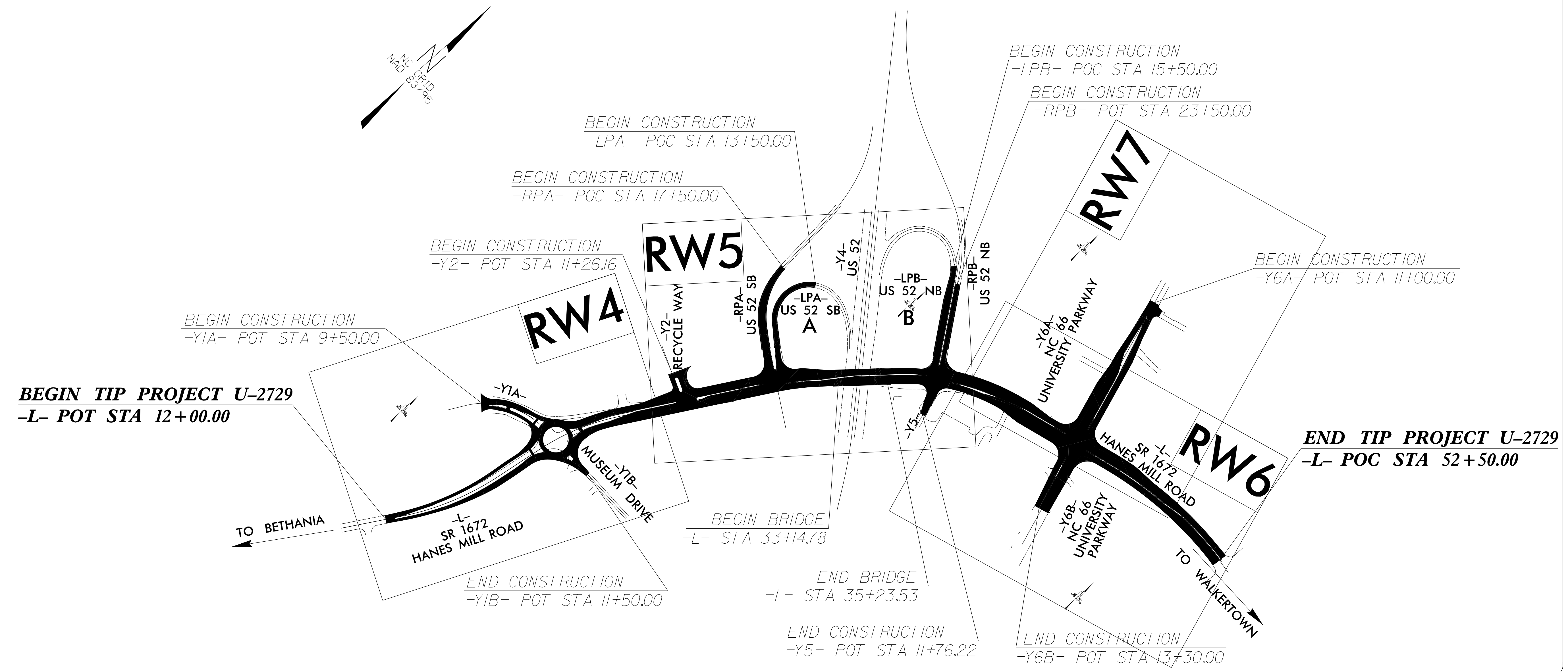
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2729	RW01	16

**TIP PROJECT: U-2729**

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

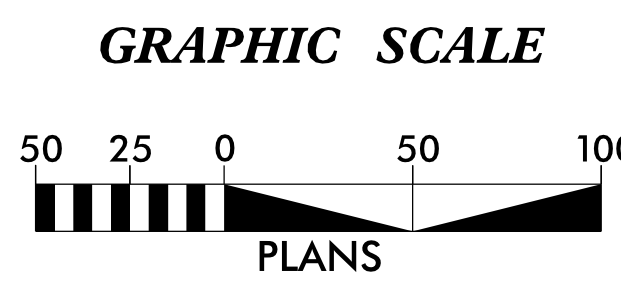
## SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

### **FORSYTH COUNTY**



**BEGIN TIP PROJECT U-2729**  
-L- POT STA 12+00.00

**END TIP PROJECT U-2729**  
-L- POC STA 52+50.00



#### DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U2579C-1" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF NORTHING: 876,419.2850(ft) EASTING: 1,651,591.6020(ft) ELEVATION: 976.94(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99995453

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U2579C-1" TO -L- STATION 10+00.00 IS N 69°44'16.8" W 32,301.63(ft)

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

Prepared in the Office of:

2018 STANDARD SPECIFICATIONS

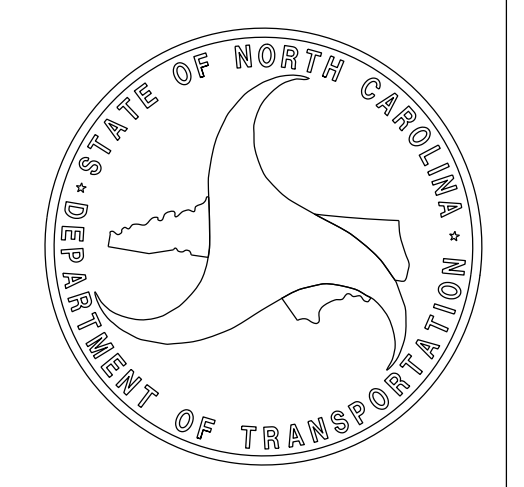
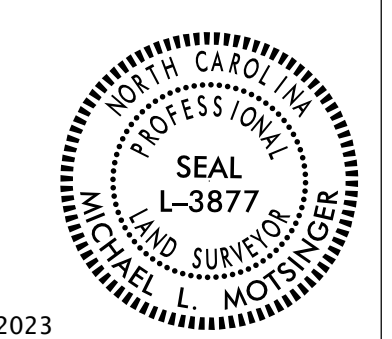
**RIGHT OF WAY DATE:** XXXX/XXXX

**LETTING DATE:** XXXX/XXXX

PROFESSIONAL LAND SURVEYOR


DocuSigned by:  
*Michael L. Mosinger*  
F088F8F2334AE  
SIGNATURE:

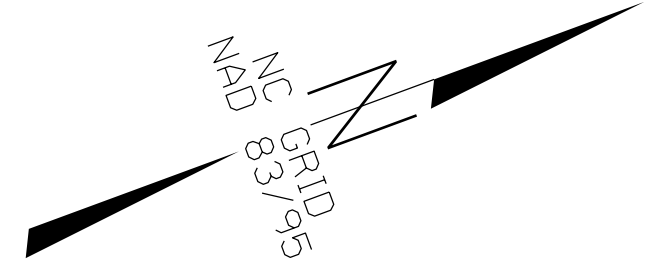
03/09/2023  
Date:



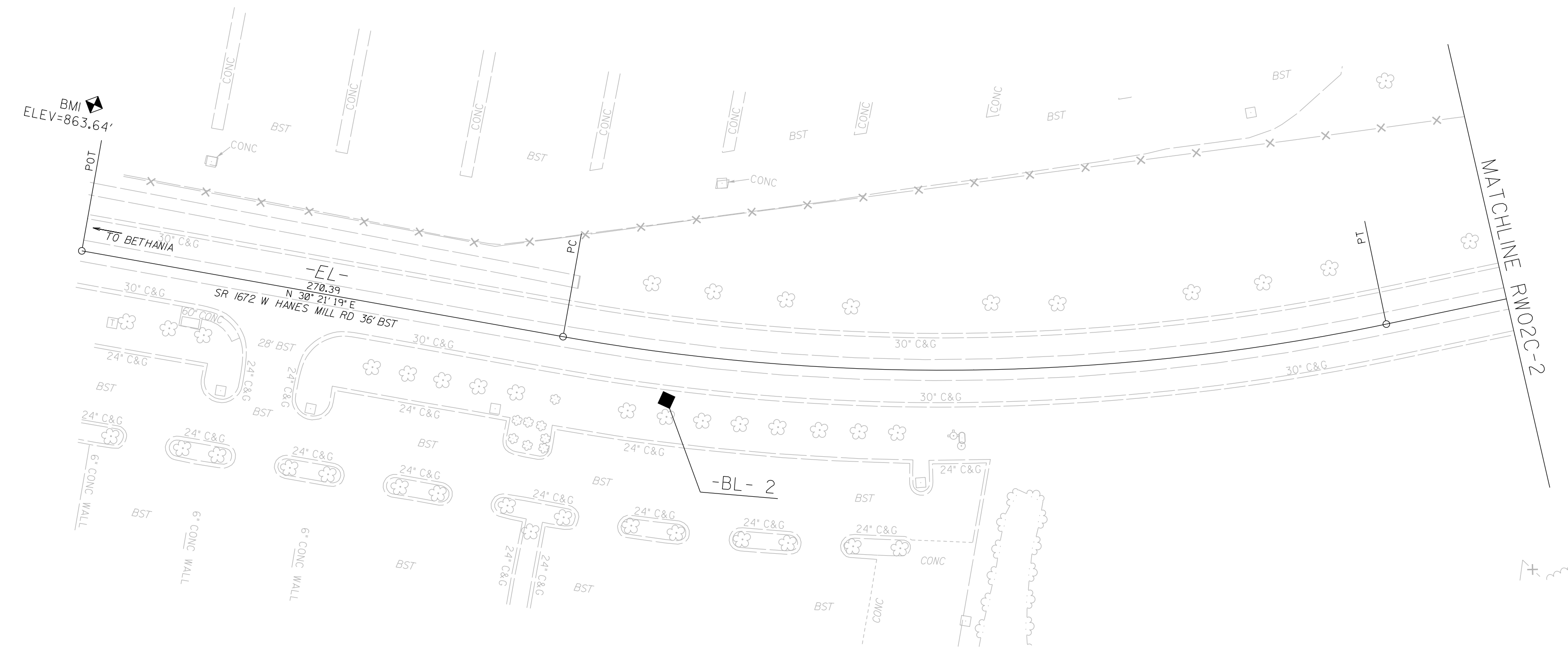
# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-2729	SHEET NO. RW02C-1
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



-BL-1

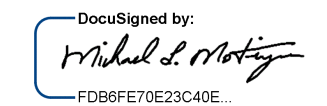


I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**  
 Type of GPS field procedure: Static  
 Dates of survey: November 2016  
 Datum/Epoch: NAD 83/95  
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]  
 Localized around: U2579C-1  
 Northing: 876419.2850  
 Easting: 1651591.6020  
 Combined grid factor: 0.99995453  
 Geoid model: G12NC  
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from April 2017 to June 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 9th day of March, 2023.

Digitally signed by:  
  
 Professional Land Surveyor L-3877




SEE SHEET RW02-7  
 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.

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-2729	RW02C-2
Location and Surveys	
PROJECT SURVEYOR	
	
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 Professional Land Surveyor L-3877



SEE SHEET RW02-7  
 FOR FURTHER  
 ALIGNMENT DETAILS

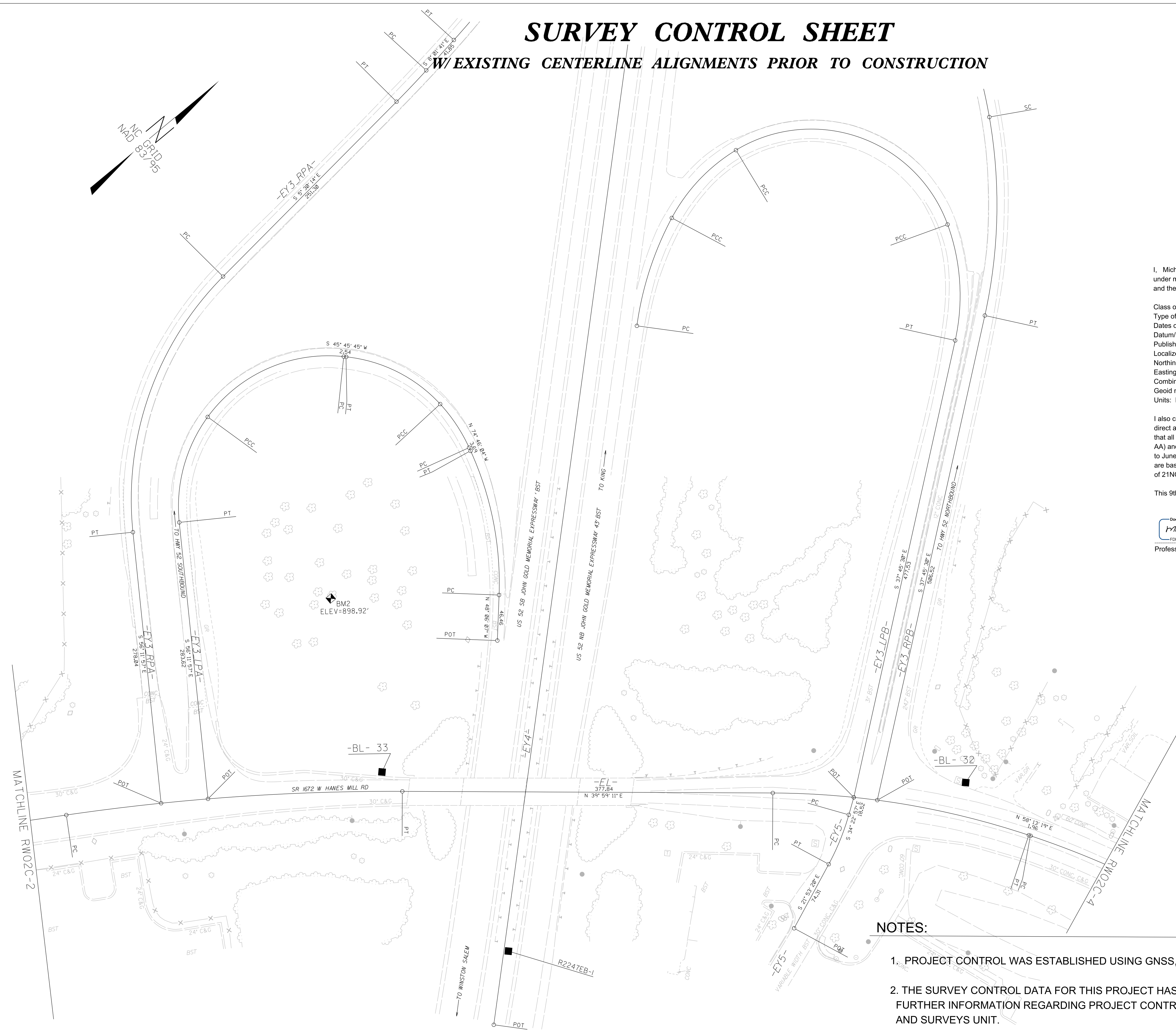
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PROJECT REFERENCE NO.	SHEET NO.
U-2729	RW02C-3
<b>Location and Surveys</b>	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

# SURVEY CONTROL SHEET

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 Type of GPS field procedure: Static  
 Dates of survey: November 2016  
 Datum/Epoch: NAD 83/95  
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]  
 Localized around: U2579C-1  
 Northing: 876419.2850  
 Easting: 1651591.6020  
 Combined grid factor: 0.99995453  
 Geoid model: G12NC  
 Units: English

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This 9th day of March, 2023.

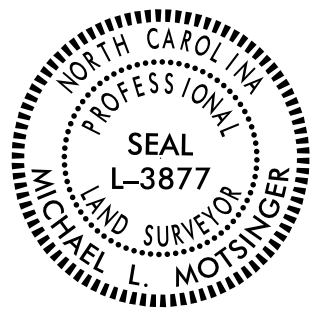
DocSigned by:  
  
 F086F7E0E23C0AE  
 Professional Land Surveyor L-3877



SEE SHEET RW02-7 &  
 RW02C-8  
 FOR FURTHER  
 ALIGNMENT DETAILS

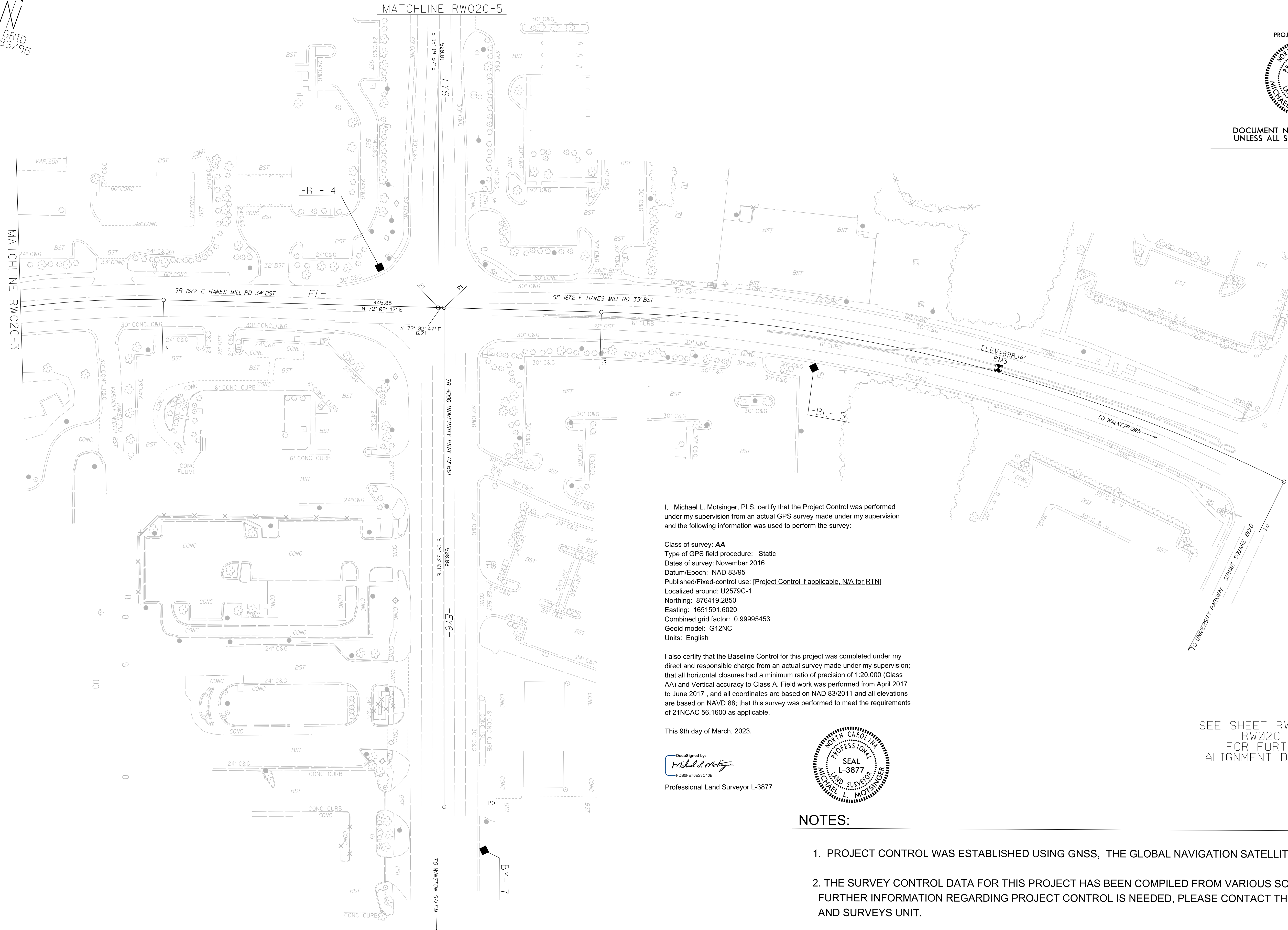
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PROJECT REFERENCE NO. U-2729	SHEET NO. RW02C-4
Location and Surveys	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



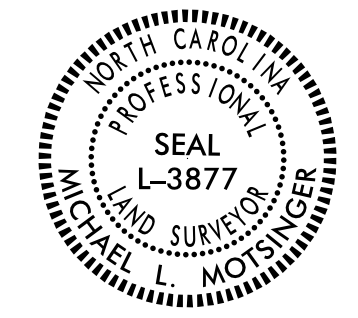
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 Type of GPS field procedure: Static  
 Dates of survey: November 2016  
 Datum/Epoch: NAD 83/95  
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]  
 Localized around: U2579C-1  
 Northing: 876419.2850  
 Easting: 1651591.6020  
 Combined grid factor: 0.99995453  
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This 9th day of March, 2023.


DocuSigned by:  
  
 FDB6F87E23C40E  
 Professional Land Surveyor L-3877



SEE SHEET RW02-7 &  
 RW02C-8  
 FOR FURTHER  
 ALIGNMENT DETAILS

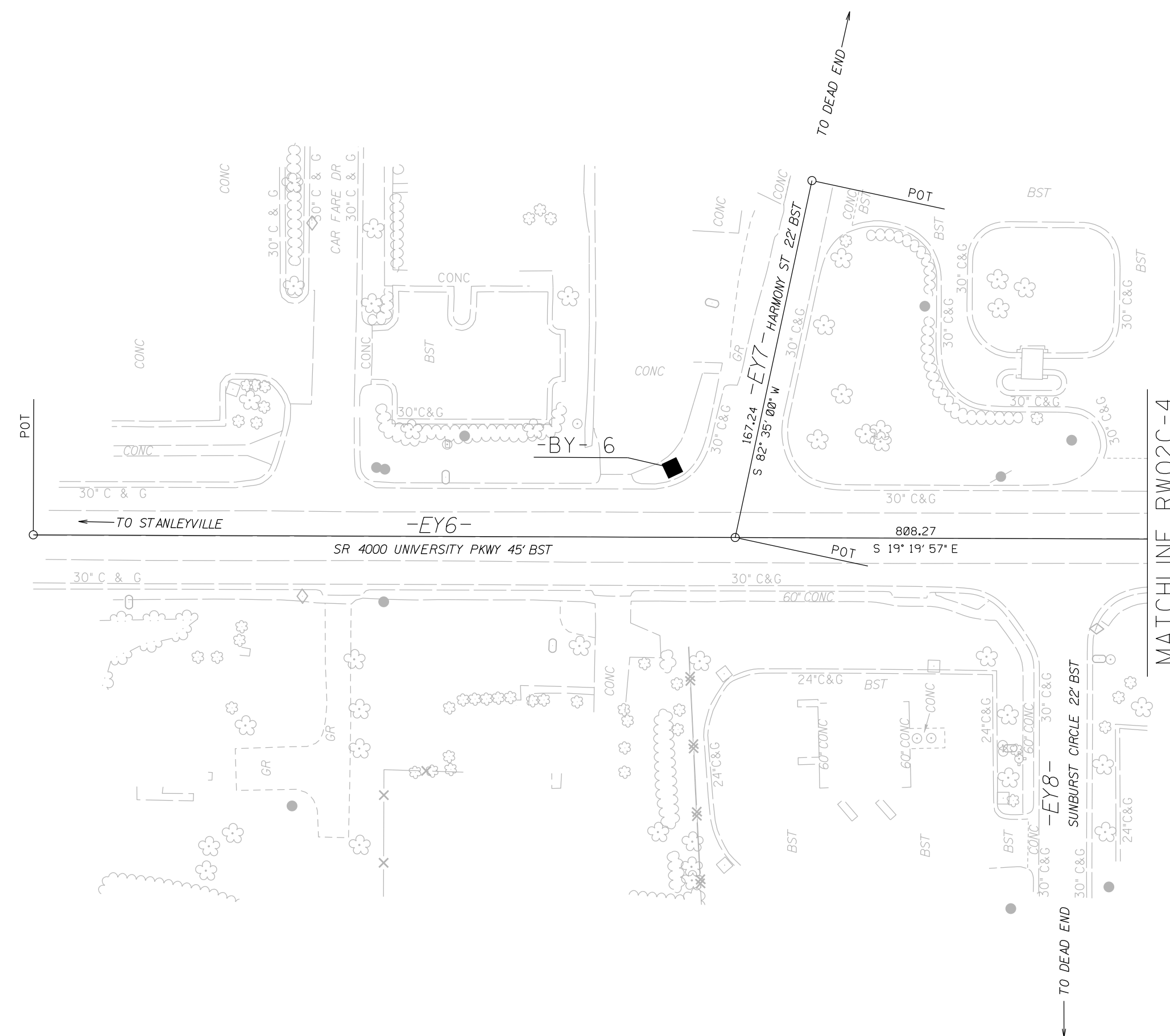
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PROJECT REFERENCE NO.	SHEET NO.
U-2729	RW02C-5
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

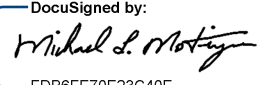


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 Dates of survey: November 2016  
 Datum/Epoch: NAD 83/95  
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]  
 Localized around: U2579C-1  
 Northing: 876419.2850  
 Easting: 1651591.6020  
 Combined grid factor: 0.99995453  
 Geoid model: G12NC  
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This 9th day of March, 2023.

DocuSigned by:  
  
 FDB8F70E25C40E  
 Professional Land Surveyor L-3877



SEE SHEET RW02-8  
 FOR FURTHER  
 ALIGNMENT DETAILS

### NOTES:

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Location and Surveys

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		BL - 1	887231.7210	1621040.0208	862.73
2		BL - 2	887880.6490	1621478.1241	872.11
3		BL - 3	888615.8742	1621608.2742	892.49
34	R2247	EB-BL34	889025.7970	1621792.7640	903.66
33	R2247	EB-BL33	889625.1820	1622211.4560	913.77
32	R2247	EB-BL32	890076.0770	1622600.2480	907.47
4		BL - 4	890292.2481	1623085.9439	893.81
5		BL - 5	890343.8388	1623536.6206	896.71

BY4	POINT	DESC.	NORTH	EAST	ELEVATION
EB2	R2247	EB-2	890366.4380	1621740.3210	886.22
EB1	R2247	EB-1	889607.4820	1622434.4080	892.00

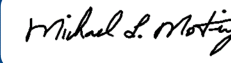
BY6	POINT	DESC.	NORTH	EAST	ELEVATION
6		BL - 6	890770.7392	1623014.7399	908.18
EQ4		BL - 4	890292.2481	1623085.9439	893.81
7		BL - 7	889768.6755	1623384.6132	878.62

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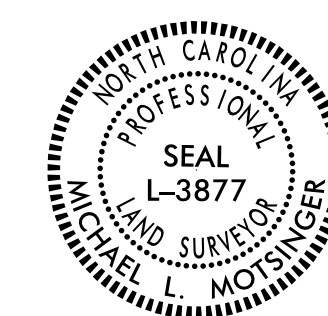
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 Type of GPS field procedure: Static  
 Dates of survey: November 2016  
 Datum/Epoch: NAD 83/95  
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]  
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This 9th day of March, 2023.

DocuSigned by:  
  
 F0B6F0E2E23C40E

Professional Land Surveyor L-3877



\*\*\*\*\*  
 BMI ELEVATION = 863.64'  
 N 887640 E 1621215  
 SCRIBED "X" IN CONCRETE MEDIAN  
 \*\*\*\*\*  
 BM2 ELEVATION = 898.92'  
 N 889698 E 1622042  
 RAILROAD SPIKE SET IN 18" SWEETGUM TREE  
 \*\*\*\*\*  
 BM3 ELEVATION = 898.14'  
 N 890407 E 1623714  
 SCRIBED "X" IN CONCRETE MEDIAN  
 \*\*\*\*\*

### NOTES:

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REVISIONS





# SURVEY CONTROL SHEET

**W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION**

PROJECT REFERENCE NO. U-2729	SHEET NO. RW02C-8
<b>Location and Surveys</b>	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EY3_RPB													
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
TS	0.000	0.000											
SPIRAL			S 44°08'50.2" E	199.93						05°00'00.0"(LT)	200.00	133.39	66.72
SC	890914.285	1621305.891											
CURVE			S 56°49'50.6" E	372.34	18°42'00.2"(LT)	05°00'00.0"	374.00	188.68	1145.92				
CS	890710.571	1621617.563											
SPIRAL			S 69°30'51.1" E	199.93						05°00'00.0"(LT)	200.00	133.39	66.72
ST	890640.599	1621804.852											
LINE			S 71°10'50.7" E	110.06									
TS	890605.097	1621909.025											
SPIRAL			S 67°30'54.8" E	199.67						11°00'00.0"(RT)	200.00	133.59	66.90
SC	890528.735	1622093.518											
CURVE			S 48°58'10.1" E	202.54	22°25'21.1"(RT)	11°00'00.0"	203.84	103.24	520.87				
CS	890395.773	1622246.309											
SPIRAL			N 90°00'00.0" E	0.00						00°00'00.0"(RT)	0.00	0.00	0.00
ST	890395.773	1622246.309											
LINE			S 37°45'29.6" E	506.52									
POT	889995.315	1622556.469											

EY4				
POINT	N	E	BEARING	DIST
POT	893880.828	1618515.067		
LINE			S 42°28'50.5" E	5875.00
POT	889547.985	1622482.703		

EY5										
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
POT	889978.709	1622538.973								
LINE			S 34°22'57.0" E	18.52						
PC	889963.421	1622549.434								
CURVE			S 28°08'08.5" E	54.41	12°29'37.0"(RT)	22°55'05.9"	54.51	27.37	250.00	
PT	889915.445	1622575.090								
LINE			S 21°53'20.0" E	74.31						
POT	889846.494	1622602.792								

EY6				
POINT	N	E	BEARING	DIST
POT	890765.020	1622983.126		
LINE			S 19°19'57.0" E	520.81
POT	890273.581	1623155.539		
LINE			N 72°02'46.8" E	6.21
POT	890275.495	1623161.447		
LINE			S 19°33'01.0" E	508.08
POT	889796.703	1623331.470		

EY7				
POINT	N	E	BEARING	DIST
POT	890754.565	1623160.206		
LINE			S 82°35'00.0" W	167.24
POT	890732.978	1622994.367		

EY8				
POINT	N	E	BEARING	DIST
POT	890590.980	1623044.185		
LINE			S 70°37'23.0" W	163.34
POT	890536.785	1622890.094		

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This 9th day of March, 2023.

DocuSigned by:  
  
 F0B6FE70E23C40E  
 Professional Land Surveyor L-3877




REVISIONS

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# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-2729	RW02D-1
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**L**

TYPE	STATION	NORTH	EAST
POT	10+00.00	887605.7832	1621288.8327
PC	12+70.39	887839.1064	1621425.4784
PT	17+28.64	888268.7757	1621576.5331
PC	19+57.22	888494.9069	1621609.8605
PT	23+25.01	888840.6129	1621729.0797
PC	30+42.57	889464.0877	1622084.2700
PT	32+05.31	889597.7036	1622176.8064
PC	35+75.64	889882.4765	1622413.5609
PT	40+97.78	890171.3964	1622840.1798
PC	45+94.52	890324.5169	1623312.7360
PT	53+17.31	890394.8604	1624026.5062

**Y1A**

TYPE	STATION	NORTH	EAST
POT	8+00.00	888302.2840	1621210.6708
PC	8+81.17	888374.1290	1621248.4517
PCC	12+15.53	888560.9551	1621511.0443
PT	12+70.29	888567.6571	1621565.3860

**Y1B**

TYPE	STATION	NORTH	EAST
POT	10+00.00	888572.5566	1621683.2494
POT	14+07.66	888577.6215	1622090.8818

**Y2**

TYPE	STATION	NORTH	EAST
POT	10+00.00	889193.8451	1621626.5610
POT	12+66.80	889097.0953	1621875.1958

**Y3A**

TYPE	STATION	NORTH	EAST
POT	10+00.00	889461.1405	1622082.5910
POT	12+00.00	889362.1397	1622256.3691

**Y4**

TYPE	STATION	NORTH	EAST
POT	10+00.00	893880.8285	1618515.0671
PC	68+31.55	889580.0338	1622453.3559
PT	70+86.67	889381.4182	1622613.1976
POT	72+00.46	889288.4025	1622678.7451

**Y5**

TYPE	STATION	NORTH	EAST
PC	10+00.00	890011.1838	1622544.1777
PT	10+80.89	889940.3955	1622582.5943
POT	12+46.36	889784.1519	1622637.0617

**Y6**

TYPE	STATION	NORTH	EAST
POT	10+00.00	890988.4787	1622909.5244
POT	22+74.81	889783.7912	1623326.5098

**Y6A**

TYPE	STATION	NORTH	EAST
POT	10+00.00	891036.2733	1622887.9617
POT	18+08.27	890273.5809	1623155.5386

**Y6B**

TYPE	STATION	NORTH	EAST
POT	10+00.00	890275.4954	1623161.4472
POT	15+08.08	889796.7029	1623331.4695

**Y7**

TYPE	STATION	NORTH	EAST
POT	10+00.00	890754.5654	1623160.2058
POT	11+67.24	890732.9777	1622994.3675

**Y8**

TYPE	STATION	NORTH	EAST
POT	10+00.00	890590.9797	1623044.1849
POT	11+63.34	890536.7854	1622890.0939

**LPA**

TYPE	STATION	NORTH	EAST
POT	10+00.00	889801.4239	1622183.5414
PC	10+46.46	889832.4521	1622148.9575
PT	11+97.72	889904.1260	1622017.3075
PC	12+01.41	889905.0967	1622013.7428
PCC	12+54.98	889910.8200	1621960.7077
PT	13+64.61	889867.9175	1621862.3933
PC	13+67.15	889866.1434	1621860.5713
PCC	15+26.09	889720.0900	1621819.2220
PT	16+40.11	889628.9632	1621883.4418
POT	18+97.24	889485.9221	1622097.1077

**LPB**

TYPE	STATION	NORTH	EAST
PC	10+00.00	890116.1021	1622027.5561
PCC	11+16.34	890213.8900	1621965.6489
PCC	12+12.70	890308.4145	1621954.2802
PCC	14+74.22	890425.9159	1622150.6094
PT	15+94.42	890356.2420	1622246.5694
POT	20+50.24	889995.8649	1622525.6857

**RDBT**

TYPE	STATION	NORTH	EAST
PC	10+00.00	888513.6598	1621612.8083
PCC	11+05.22	888572.5566	1621683.2494
PCC	11+81.84	888628.6316	1621639.1355
PCC	12+93.44	888567.6571	1621565.3860
PT	13+70.71	888513.6603	1621612.8056

**RPA**

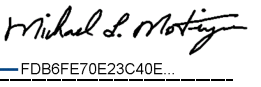
TYPE	STATION	NORTH	EAST
PC	10+00.00	890528.6713	1621518.2370
PCC	12+15.98	890347.1367	1621633.1683
PT	14+11.33	890159.0236	1621683.9670
PC	14+53.19	890117.5812	1621689.8119
PT	14+97.24	890073.8381	1621695.0016
PC	17+48.54	889823.6976	1621719.1044
PT	20+34.33	889586.2720	1621860.9280
POT	22+89.53	889444.2999	1622072.9970

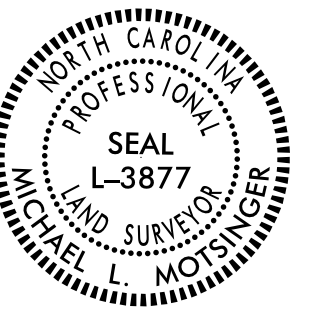
**RPB**

TYPE	STATION	NORTH	EAST
TS	10+00.00	891057.7380	1621166.6449
SC	11+99.99	890914.2838	1621305.8923
CS	15+73.99	890710.5683	1621617.5688
ST	17+73.98	890640.6007	1621804.8479
TS	18+84.05	890605.0969	1621909.0247
SC	20+84.05	890528.7346	1622093.5184
PT	22+87.89	890395.7730	1622246.3087
POT	27+74.34	890011.1838	1622544.1777

I, Michael L. Molsinger, 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 9th day of March, 2023.

DocuSigned by:  
  
FOB06F0E223040E  
 Professional Land Surveyor L-3877



**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





Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-	-YIA-	-RDBT-	-YIA-	-RDBT-	-YIA-	-RDBT-	-YIA-
PI Sta 15+02.37 Δ = 2° 58' 17.1" (LT) D = 4' 47' 40.7" L = 458.25' T = 231.98' R = 1,195.00' SE = 0.04 RO = 192' TR = 96'	PI Sta 21+43.26 Δ = 2° 17' 09.8" (RT) D = 5' 47' 14.8" L = 367.80' T = 186.04' R = 990.00' SE = 0.04 RO = 192' TR = 96'	PI Sta 10+61.75 Δ = 53° 39' 43.2" (RT) D = 16' 02' 57.3" L = 334.36' T = 180.58' R = 357.00' SE = 0.04 RO = 148' TR = 74'	PI Sta 12+42.92 Δ = 3° 08' 15.1" (RT) D = 5' 43' 46.5" L = 54.76' T = 27.39' R = 1,000.00' SE = 0.04 RO = 148' TR = 74'	PI Sta 10+73.09 Δ = 102° 10' 45.6" (LT) D = 97' 06' 41.4" L = 105.22' T = 73.09' R = 59.00'	PI Sta 11+50.01 Δ = 74° 24' 20.1" (LT) D = 97' 06' 41.4" L = 76.62' T = 44.79' R = 59.00'	PI Sta 12+63.61 Δ = 108° 22' 36.7" (LT) D = 97' 06' 41.4" L = 111.60' T = 81.77' R = 59.00'	PI Sta 13+38.74 Δ = 75° 02' 08.0" (LT) D = 97' 06' 41.4" L = 77.27' T = 45.30' R = 59.00'

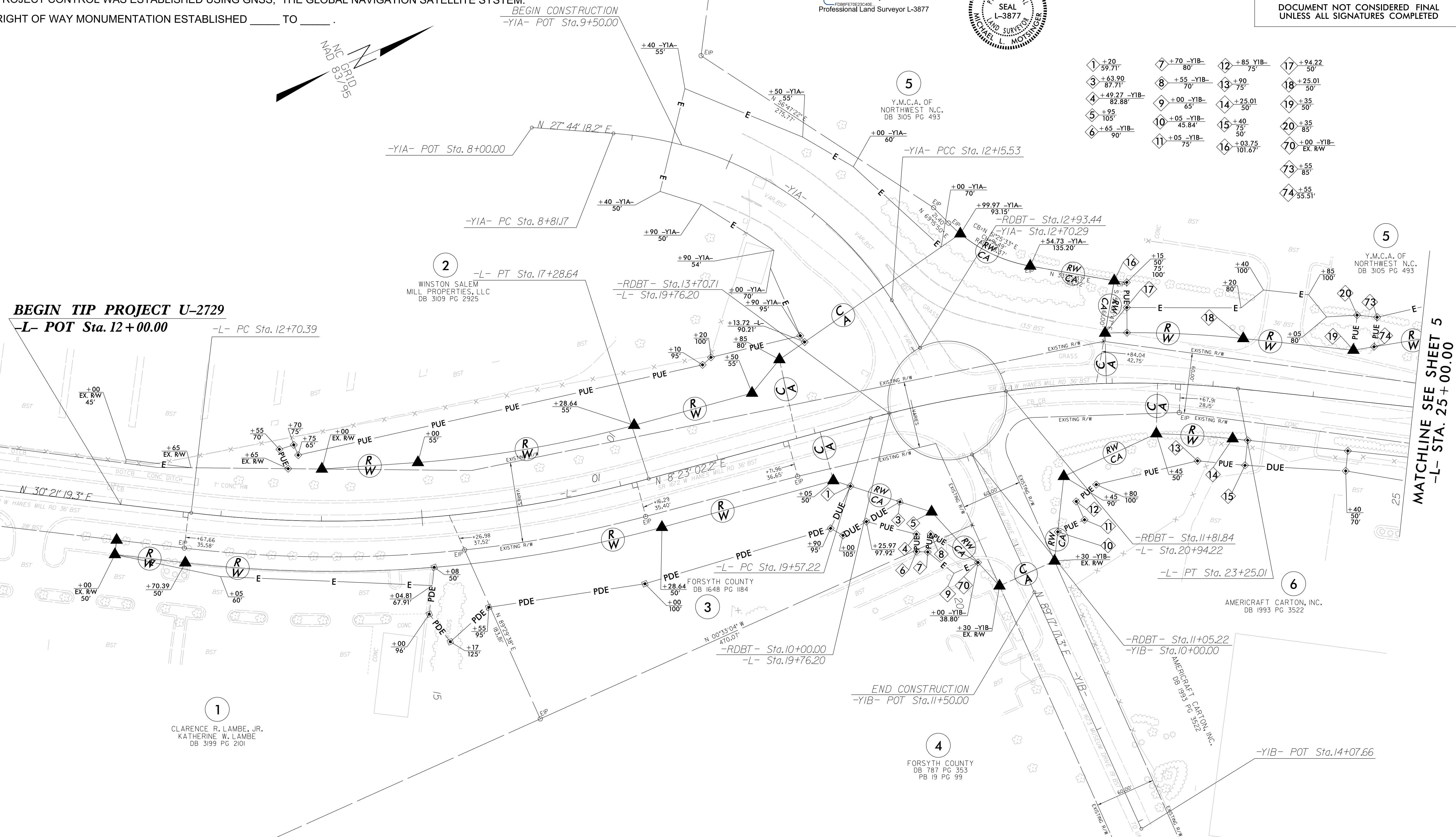
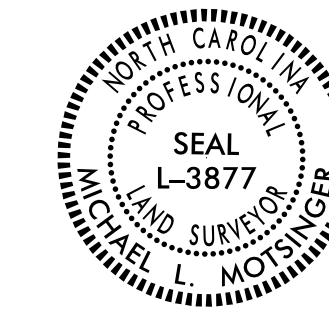
NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED \_\_\_\_\_ TO \_\_\_\_\_.

I, Michael L. Motsinger, 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 November 2019 to December 2019, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 9th day of March, 2023.

DocuSigned by:  
*Michael L. Motsinger*  
Professional Land Surveyor L-3877



1 +20 -YIB- 59.71'	7 +70 -YIB- 80'	12 +85 -YIB- 75'	17 +94.22 50'
2 +63.90 87.71'	8 +55 -YIB- 70'	13 +90 -YIB- 75'	18 +25.01 50'
3 +49.27 -YIB- 82.88'	9 +00 -YIB- 65'	14 +25.01 50'	19 +35 50'
4 +95 105'	10 +05 -YIB- 45.84 50'	15 +40 -YIB- 75'	20 +35 85'
5 +65 -YIB- 90'	11 +05 -YIB- 75'	16 +03.75 101.67'	21 +00 -YIB- EX. RW
			22 +55 85'
			23 +55 55.51'

REVISIONS

03-MAR-2023 10:35  
 G:\Urban\2023\U-2729\Right of Way Staking\Julie\files\tobechecked\U2729\_1s\_rw04.dgn  
 AT LS-3286711  
 mmotsinger

MATCHLINE SEE SHEET 5  
 -L- STA. 25+00.00

-LPB-

PI Sta 10+58.79 Δ = 20° 17' 15.3" (RT) D = 17' 26" 15.6" L = 116.34' T = 58.79' R = 328.57' SE = 0.08 RO = 144' TR = 36'	PI Sta 11+65.70 Δ = 30° 40' 11.4" (RT) D = 37' 49" 51.8" L = 96.35' T = 49.36' R = 180.00' SE = 0.08 RO = 144' TR = 36'	PI Sta 13+93.02 Δ = 10° 14' 46.5" (RT) D = 38' 42" 48.0" L = 261.53' T = 180.33' R = 148.00' SE = 0.08 RO = 144' TR = 36'	PI Sta 15+35.99 Δ = 32° 31' 07.8" (RT) D = 27' 03" 19.7" L = 120.19' T = 61.76' R = 211.77'
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-LPA-

PI Sta 13+12.30 Δ = 41° 19' 26.3" (LT) D = 37' 41" 40.5" L = 109.63' T = 57.32' R = 152.00' SE = 0.08 RO = 144' TR = 36'	PI Sta 14+54.75 Δ = 59° 54' 37.0" (LT) D = 37' 41" 40.5" L = 158.94' T = 87.60' R = 250.00' SE = 0.08 RO = 144' TR = 36'	PI Sta 15+85.81 Δ = 42° 03' 05.1" (LT) D = 36' 52" 45.9" L = 114.02' T = 59.72' R = 155.36' SE = 0.08 RO = 144' TR = 36'	PI Sta 10+40.80 Δ = 18° 32' 21.7" (RT) D = 22' 55" 05.9" L = 80.89' T = 40.80' R = 250.00' SE = 0.04 RO = 76' TR = 38'
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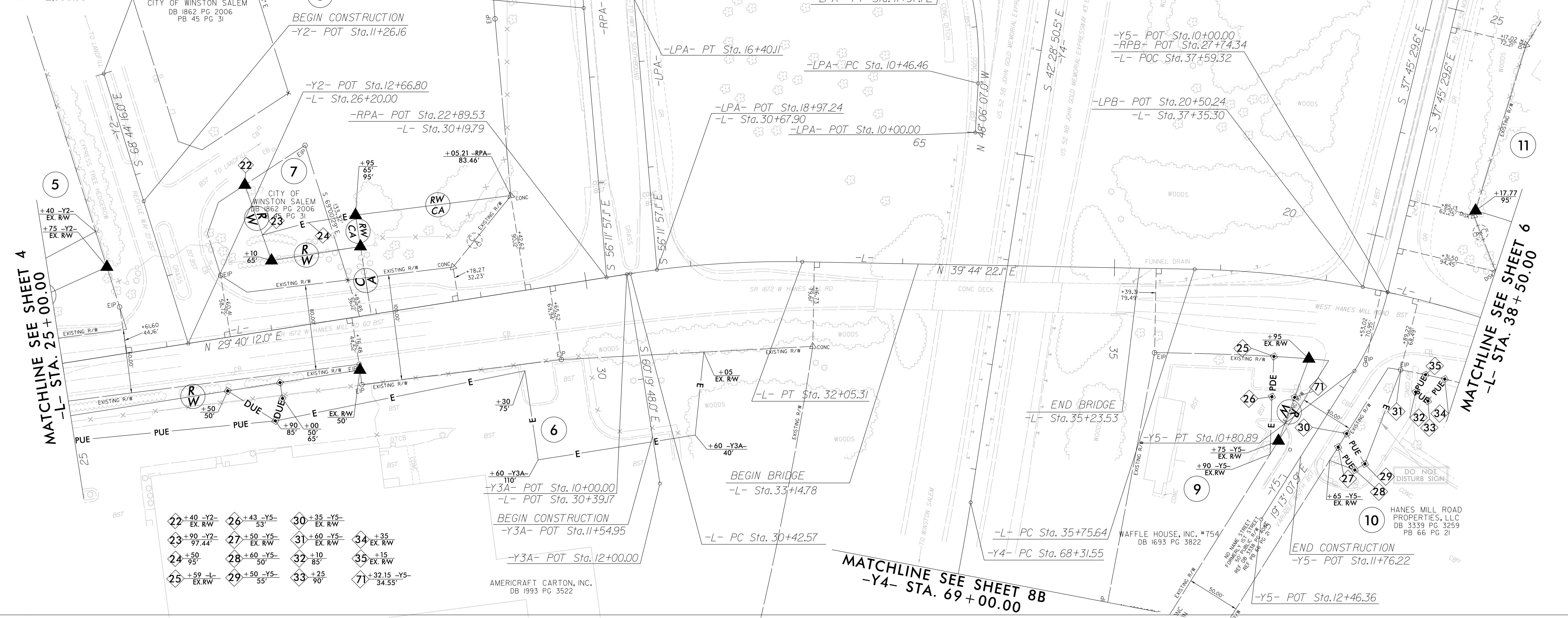
-RPB-

PIs Sta 20+17.64 θs = 11° 00' 00.0" Ls = 200.00' LT = 133.59' ST = 66.90' SE = 0.08 RO = 192' TR = 48'	PI Sta 21+87.29 Δ = 22° 25' 21.1" (RT) D = 11° 00' 00.0" L = 203.84' T = 103.24' R = 520.87' SE = 0.08 RO = 192' TR = 48'	PI Sta 31+24.15 Δ = 10° 04' 10.0" (RT) D = 6° 11' 14.8" L = 162.74' T = 81.58' R = 926.00' SE = 0.04 RO = 192' TR = 96'	PI Sta 38+43.85 Δ = 32° 18' 24.7" (RT) D = 6° 11' 14.8" L = 522.14' T = 268.21' R = 926.00' SE = 0.04 RO = 192' TR = 96'
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-Y4-

PI Sta 69+59.28 Δ = 7° 18' 31.0" (RT) D = 2° 51' 53.2" L = 255.12' R = 2,000.00'	-Y2- POT Sta. 10+00.00
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CITY OF WINSTON SALEM  
DB 2064 PG 2702  
DB 1386 PG 383  
DB 1369 PG 1417  
DB 1292 PG 423  
DB 1291 PG 274  
DB 1291 PG 1405  
DB 1414 PG 1399



-RPA-

PI Sta 14+75.22 Δ = 2° 31' 26.7" (RT) D = 5' 43" 46.5" L = 44.05' T = 22.03' R = 1,000.00' SE = 0.08 RO = 192' TR = 48'	PI Sta 19+01.55 Δ = 50° 41' 43.3" (LT) D = 17' 44" 19.1" L = 285.79' T = 153.01' R = 323.00' SE = 0.08 RO = 192' TR = 48'
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-Y5-

PI Sta 10+40.80 Δ = 18° 32' 21.7" (RT) D = 22' 55" 05.9" L = 80.89' T = 40.80' R = 250.00' SE = 0.04 RO = 76' TR = 38'
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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 \_\_\_\_ TO \_\_\_\_.

I, Michael L. Molsinger, 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 November 2019 to December 2019, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 9th day of March, 2023.

DocuSigned by:  
*Michael L. Molsinger*  
Professional Land Surveyor L-3877



Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

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 AT LS-328671L  
 mmolsinger

MATCHLINE SEE SHEET 4  
 -L- STA. 25+00.00

MATCHLINE SEE SHEET 6  
 -L- STA. 38+50.00

MATCHLINE SEE SHEET 8B  
 -Y4- STA. 69+00.00

22 +40 -Y2- EX. RW	26 +43 -Y5- 53'	30 +35 -Y5- EX. RW	34 +35 EX. RW
23 +90 -Y2- 97.44'	27 +60 -Y5- EX. RW	31 +60 -Y5- EX. RW	35 +15 EX. RW
24 +50 95'	28 +60 -Y5- 85'	32 +10 85'	36 +15 EX. RW
25 +59 -L- EX. RW	29 +50 -Y5- 55'	33 +25 90'	37 +32.15 -Y5- 34.55'

AMERICRAFT CARTON, INC.  
DB 1993 PG 3522

36	+75 EX. RW	45	+95 -Y6B- 80'	57	+15 -Y6A- 60'
37	+55 EX. RW	46	+00 -Y6B- EX. RW	58	+35 -Y6A- 86.31'
38	+83.29 EX. RW	47	+35 -Y6B- 80'	59	EX. RW 50'
39	EX. RW 85'	48	+25 -Y6B- 80'	60	+75 -Y6B- 75.57'
40	+20 60'	49	+30 -Y6B- EX. RW	61	+30 -Y6B- EX. RW
41	+39.95 75'	50	+40 120'	62	+30 -Y6B- 60'
42	+55 65'	51	+45 105'	63	+45.04 -L- 73'
43	+30 65'	52	+45 90.14'	64	+15.16 -L- 131.14'
44	+35 75'				

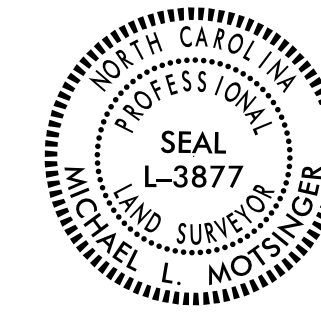
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3. RIGHT OF WAY MONUMENTATION ESTABLISHED \_\_\_\_ TO \_\_\_\_.

I, Michael L. Molsinger, 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 November 2019 to December 2019, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

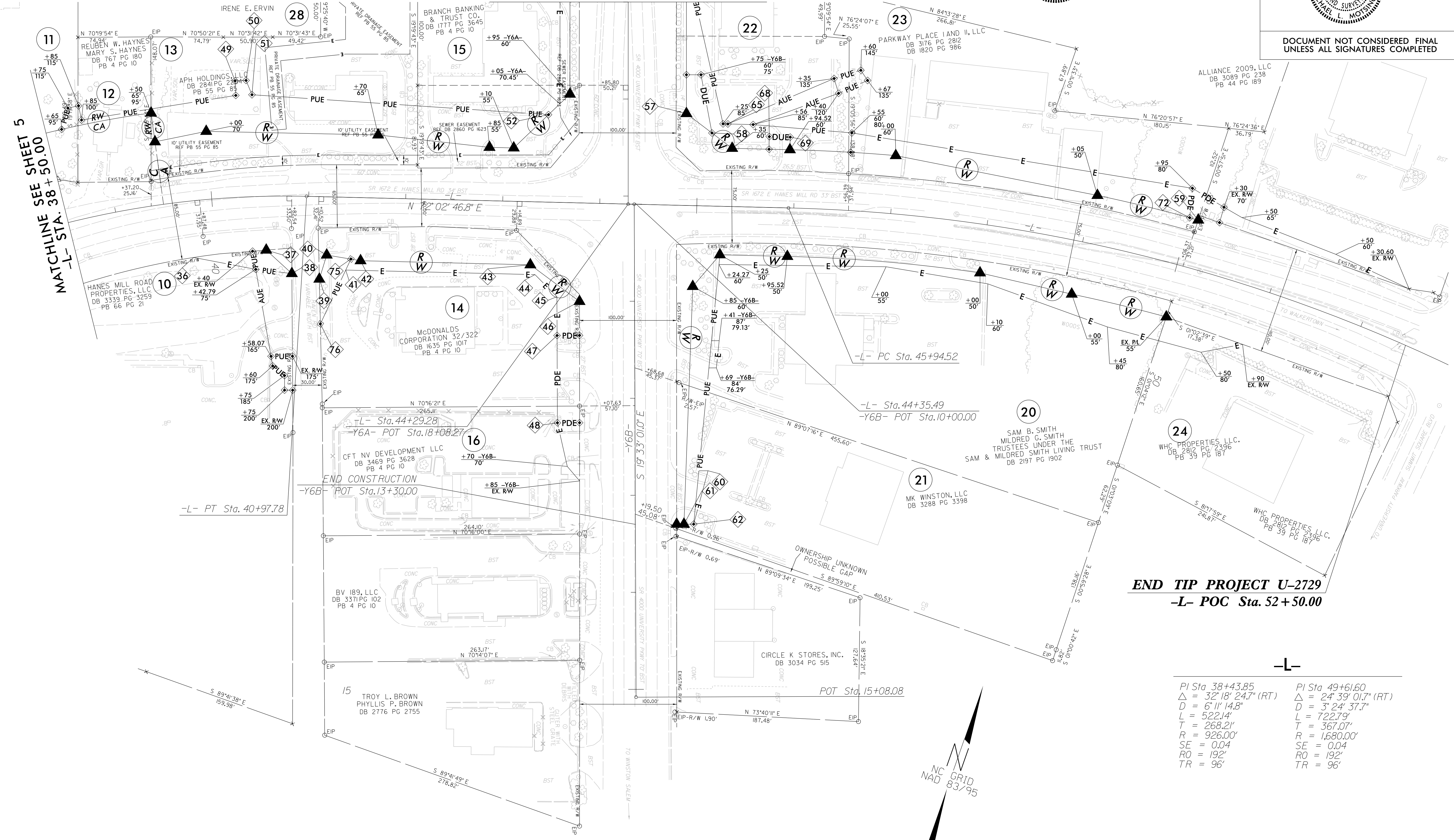
This 9th day of March, 2023.

Designed by:  
*Michael L. Molsinger*  
Professional Land Surveyor L-3877



PROJECT REFERENCE NO.	SHEET NO.
U-2729	RW06
Location and Surveys	
PROJECT SURVEYOR	
SEAL L-3877	
MICHAEL L. MOLSINGER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE SEE SHEET 7  
-Y6A- STA. 16+00.00



REVISIONS

MATCHLINE SEE SHEET 5  
-L- STA. 38+50.00

END TIP PROJECT U-2729  
-L- POC Sta. 52+50.00

PI Sta 38+43.85	PI Sta 49+61.60
Δ = 32' 18" 24.7" (RT)	Δ = 24' 39" 01.7" (RT)
D = 6' 11" 14.8"	D = 3' 24' 37.7"
L = 522.14'	L = 722.79'
T = 268.21'	T = 367.07'
R = 926.00'	R = 1,680.00'
SE = 0.04	SE = 0.04
RO = 192'	RO = 192'
TR = 96'	TR = 96'



03-MAR-2023 10:47 AM Right of Way Staking\Julie\files\tobechecked\U2729\_1s\_r\U06.dgn  
 AT L-3286711  
 m.molsinger

Location and Surveys

PROJECT SURVEYOR

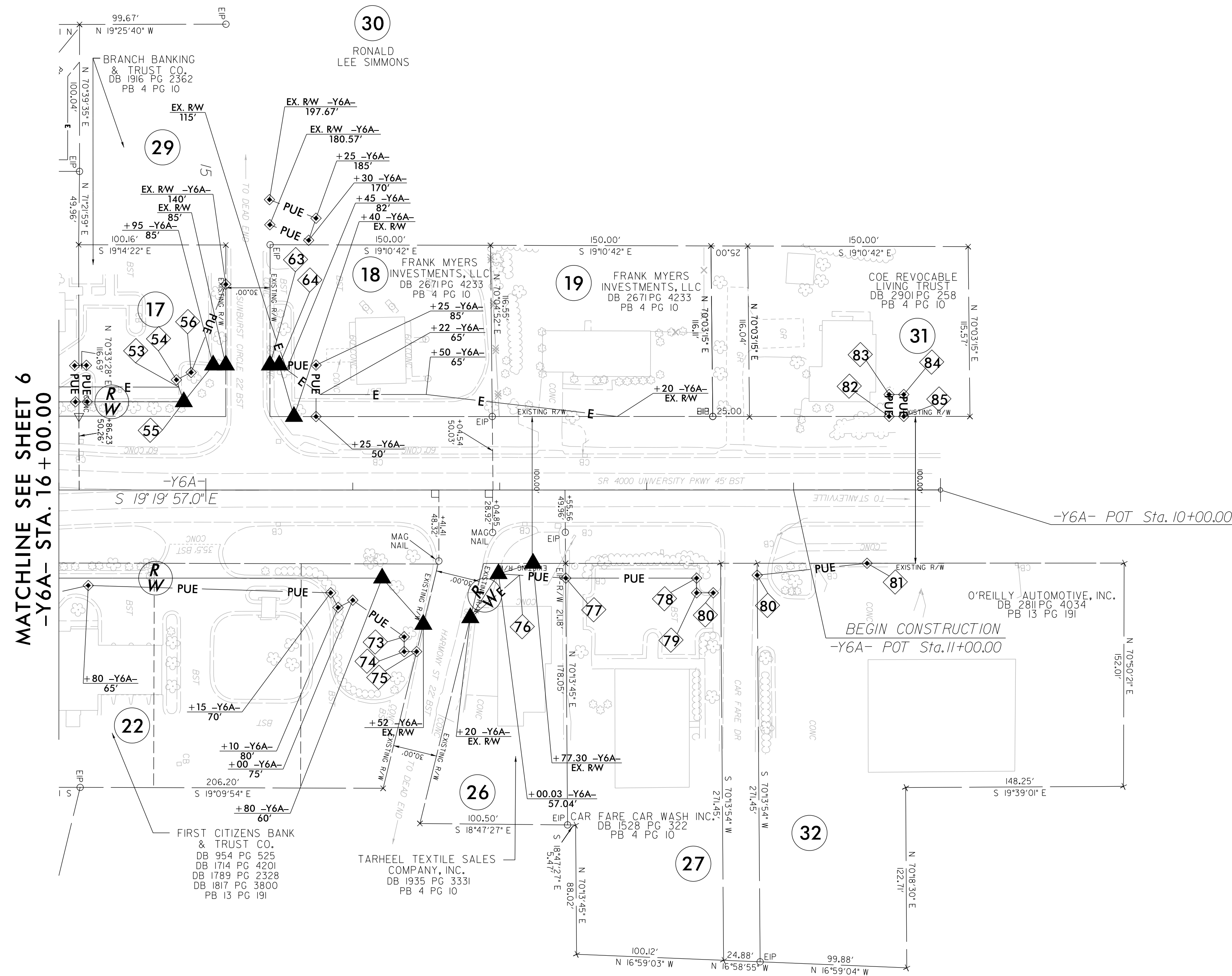
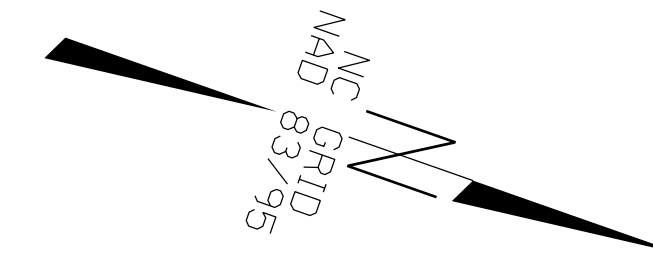


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Michael L. Motsinger, 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 November 2019 to December 2019, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 9th day of March, 2023.

DocuSigned by:  
  
 FDBBF70E202C40E  
 Professional Land Surveyor L-3877



- 53 +18.33 -Y6A- 70'
- 54 +20 -Y6A- 75'
- 55 +15 -Y6A- 60'
- 56 +10 -Y6A- 80'
- 63 EX. RW 85'
- 64 +50 -Y6A- 85'
- 73 +65 -Y6A- 100'
- 74 +65 -Y6A- 110'
- 75 +56.52 -Y6A- 110'
- 76 +86.51 -Y6A- 57.96'
- 77 +55 -Y6A- 60'
- 78 +66 -Y6A- 60'
- 79 +66 -Y6A- 70'
- 80 +24.76 -Y6A- 58'
- 81 +50 -Y6A- EX. RW
- 82 +35 -Y6A- EX. RW
- 83 +35 -Y6A- 65'
- 84 +25 -Y6A- 65'
- 85 +25 -Y6A- EX. RW

MATCHLINE SEE SHEET 6  
 -Y6A- STA. 16 +00.00

REVISIONS

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 AT LS-3286711  
 mmotsinger

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED \_\_\_\_ TO \_\_\_\_.