

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	50163.1.1	RW01	XX

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

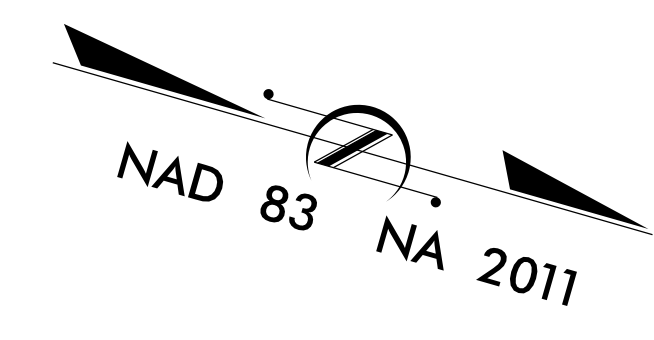
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SURVEY CONTROL, EXISTING CENTERLINES,  
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

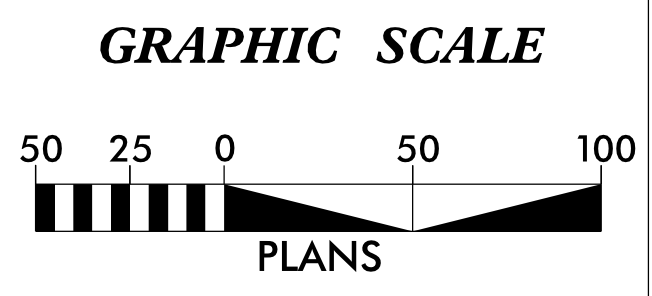
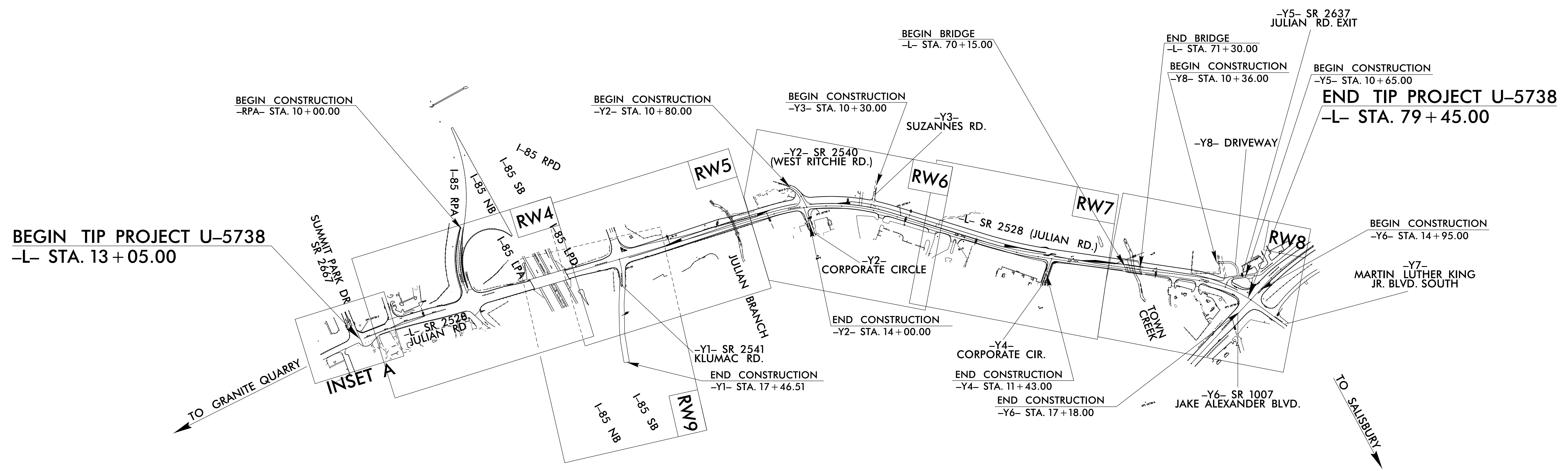
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## ROWAN COUNTY

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**TIP PROJECT: U-5738**



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U5783-3" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 690,925.355(ft) EASTING: 1,556,284.977(ft) ELEVATION: 754.47(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99986425

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U5738-3" TO -L- STATION 10+00.00 IS S 32°41'05.65" E 3719.85(ft)

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

Prepared in the Office of:

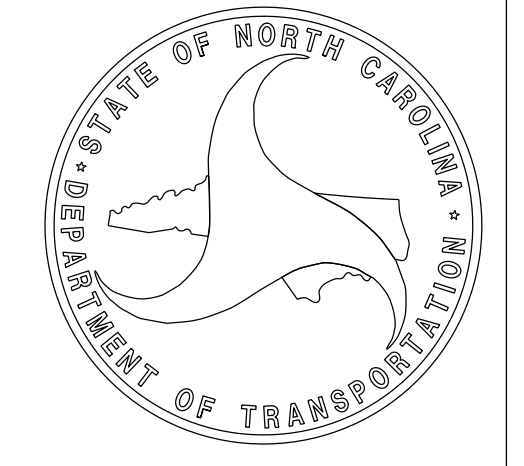
2018 STANDARD SPECIFICATIONS

<b>RIGHT OF WAY DATE:</b> XXXX/XXXX	<b>LETTING DATE:</b> XXXX/XXXX
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**PROFESSIONAL LAND SURVEYOR**

DocuSigned by:  
Michael L. Molsinger 10/21/2021  
FDB8F7E23C4E

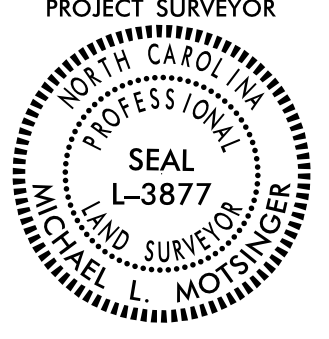
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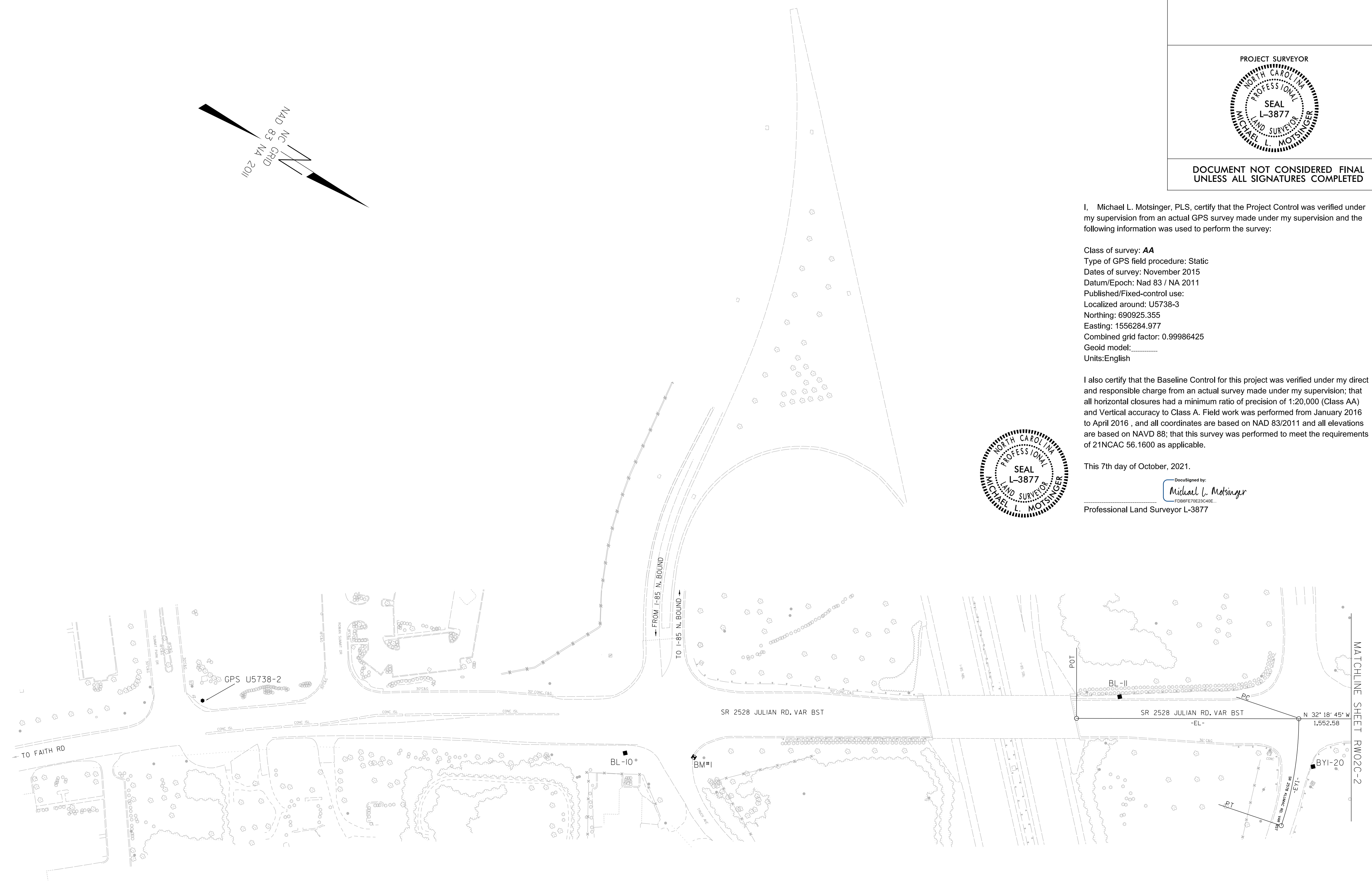
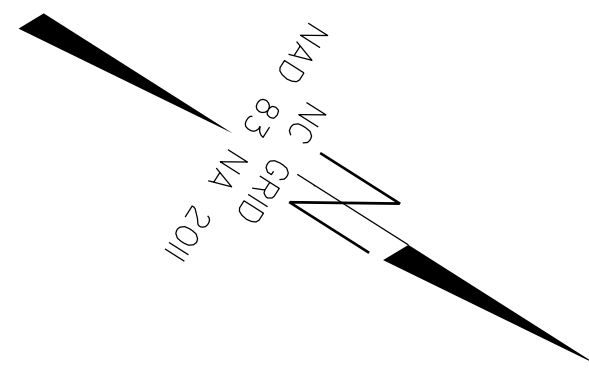


21-OCT-2021 12:57 Winston, Cliffs Computer\Urban\U5738\2021-07-20\Julie\survey\_control\sheetstobechecked\U5738\_ls\_rw01.dgn  
SA\Units\Div09 AT LS-312635  
mmolsinger

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-5738	SHEET NO. RW02C-1
<b>Location and Surveys</b>	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Michael L. Motsinger, 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: Static  
 Dates of survey: November 2015  
 Datum/Epoch: Nad 83 / NA 2011  
 Published/Fixed-control use:  
 Localized around: U5738-3  
 Northing: 690925.355  
 Easting: 1556284.977  
 Combined grid factor: 0.99986425  
 Geoid model:  
 Units: English

I also certify that the Baseline Control for this project was verified 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 January 2016 to April 2016, 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 7th day of October, 2021.  
 Michael L. Motsinger  
 Professional Land Surveyor L-3877



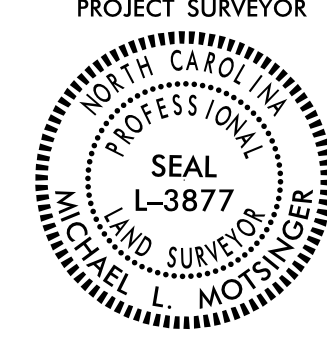
SEE SHEET RW02C-5  
FOR FURTHER  
ALIGNMENT DETAILS

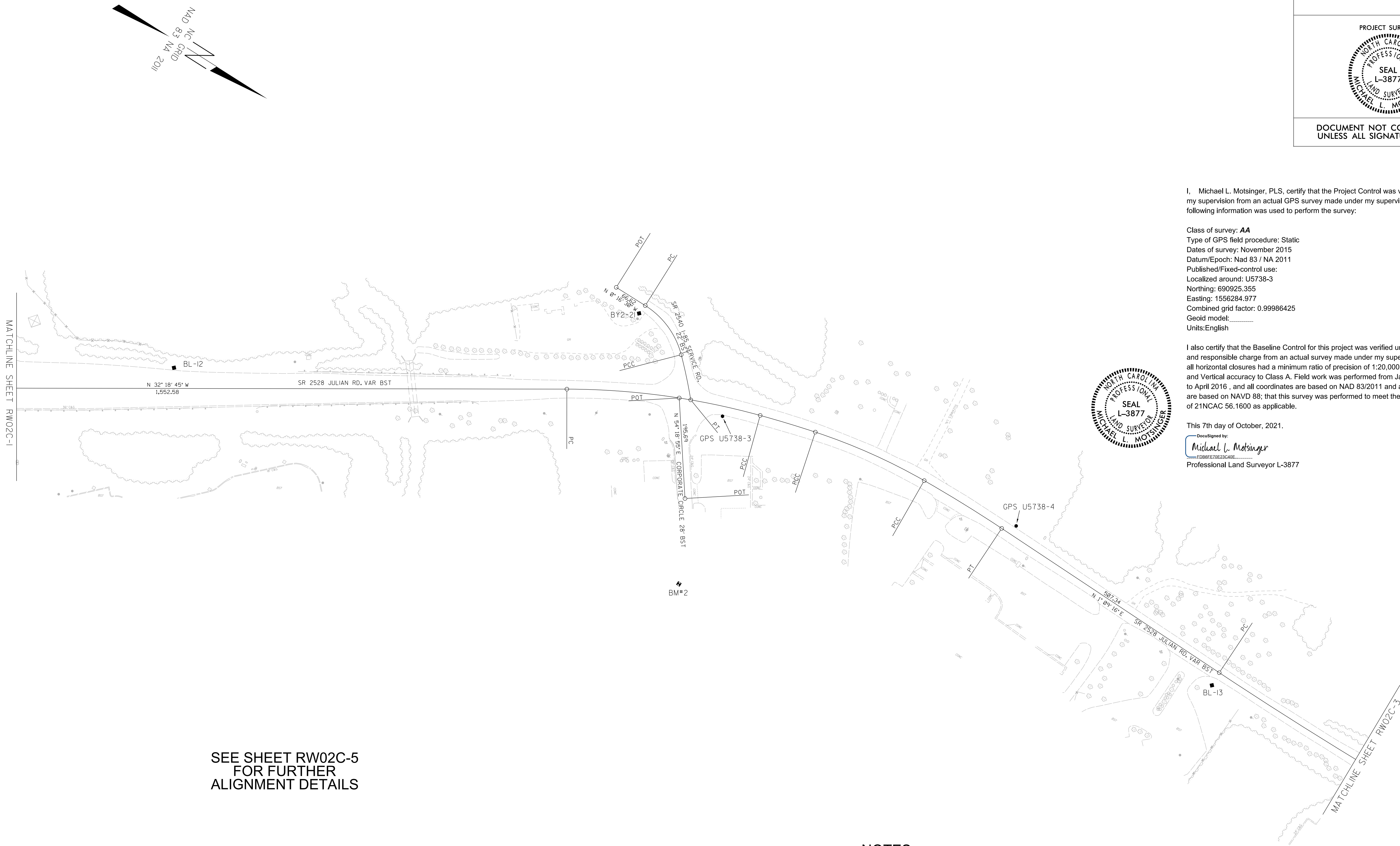
**NOTES:**

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.

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. U-5738	SHEET NO. RW02C-2
Location and Surveys	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

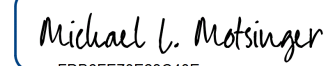


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This 7th day of October, 2021.

Declassified by:  
  
 Professional Land Surveyor L-3877



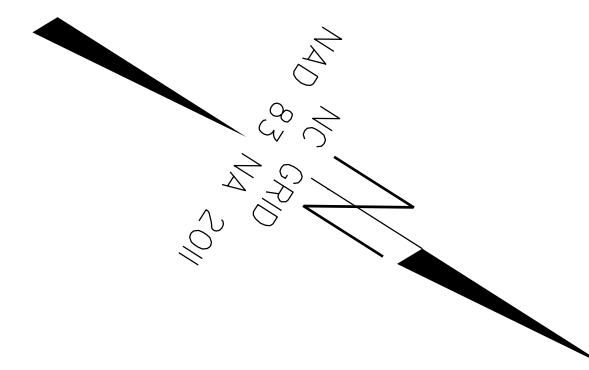
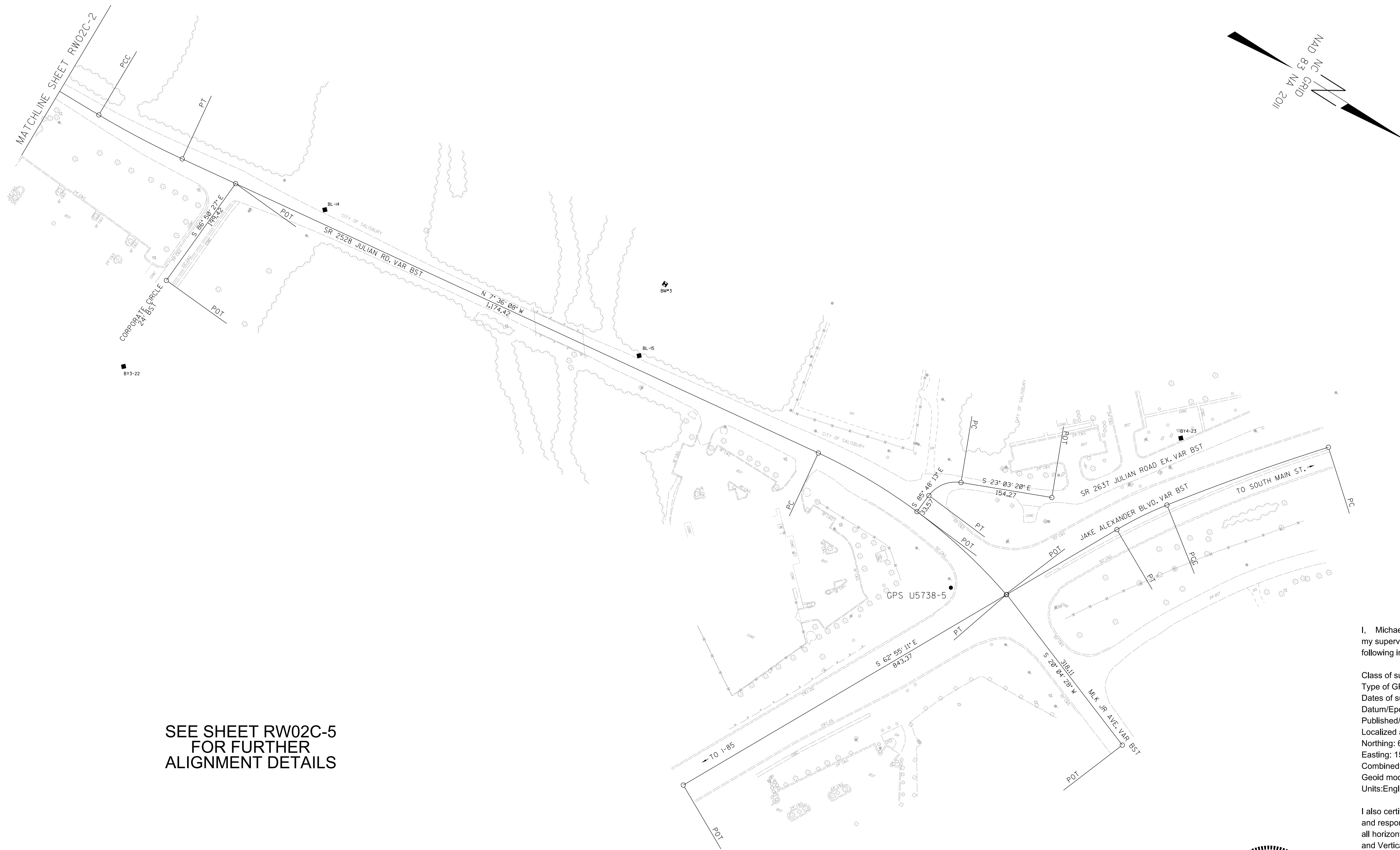
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 FOR FURTHER  
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# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



PROJECT REFERENCE NO. U-5738	SHEET NO. RW02C-3
Location and Surveys	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

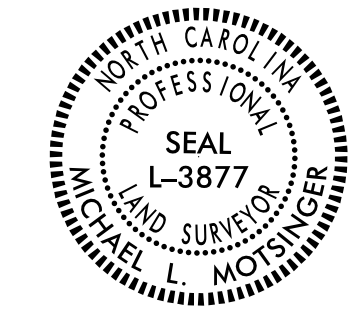
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# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

### Location and Surveys

PROJECT SURVEYOR



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BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1		GPS U5738-1	687374.3040	1558680.0550	793.20	OUTSIDE PROJECT LIMITS	
2		GPS U5738-2	688014.7180	1558030.3610	787.44	13+37.47	50.38 LT
10		BL - 10	688691.8236	1557709.6238	780.28	20+76.00	62.35 RT
11		BL - 11	689373.2529	1557159.5354	779.69	29+45.95	38.31 LT
12		BL - 12	689975.1059	1556776.6666	754.54	36+60.63	32.65 LT
3		GPS U5738-3	690925.3550	1556284.9770	754.47	47+37.73	45.85 RT
4		GPS U5738-4	691521.3190	1556159.1280	763.83	53+60.35	6.98 RT
13		BL - 13	692008.4557	1556216.8021	754.26	58+48.55	54.83 RT
14		BL - 14	692803.0022	1556117.9503	719.23	66+44.28	3.50 RT
15		BL - 15	693378.6147	1556042.0920	718.88	72+24.87	4.46 RT
5		GPS U5738-5	694028.0690	1556090.2440	737.97	78+97.77	62.50 RT

.....  
 BM#1 ELEVATION = 781.92'  
 N 688798 E 1557651  
 CHISELED SQUARE IN TOP CURB AT EASTERN  
 TERMINUS OF CURB ON NORTH SIDE OF TRUCK  
 AVENUE  
 .....

.....  
 BM#2 ELEVATION = 742.79'  
 N 691028 E 1556606  
 CHISELED SQUARE IN TOP CURB AT WEST  
 SIDE OF ENTRANCE TO 818 CORPORATE CIRCLE  
 .....

BY1	POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
E11		BL - 11	689373.2529	1557159.5354	779.69	OUTSIDE PROJECT LIMITS	
20		BY1-20	689726.3336	1557080.9795	766.71	10+80.14	30.82 LT

.....  
 BM#3 ELEVATION = 717.28'  
 N 693351 E 1555918  
 RAILROAD SPIKE SET IN EASTERN FACING  
 BASE OF 18" SWEET GUM  
 .....

BY2	POINT	DESC.	NORTH	EAST	ELEVATION	Y2 STATION	OFFSET
21		BY2-21	690681.3217	1556202.9770	751.02	10+64.49	19.17 RT
EE3		GPS U5738-3	690925.3560	1556284.9780	754.47	13+09.55	81.92 LT

BY3	POINT	DESC.	NORTH	EAST	ELEVATION	Y4 STATION	OFFSET
E14		BL - 14	692803.0022	1556117.9503	719.23	OUTSIDE PROJECT LIMITS	
22		BY3-22	692659.0009	1556520.4120	740.73	OUTSIDE PROJECT LIMITS	

BY4	POINT	DESC.	NORTH	EAST	ELEVATION	Y6 STATION	OFFSET
23		BY4-23	694219.1391	1555672.0808	746.57	12+25.74	95.93 RT
EE5		GPS U5738-5	694028.0690	1556090.2440	737.97	16+70.16	57.38 RT
6		GPS U5738-6	693586.6900	1556967.7200	724.66	OUTSIDE PROJECT LIMITS	

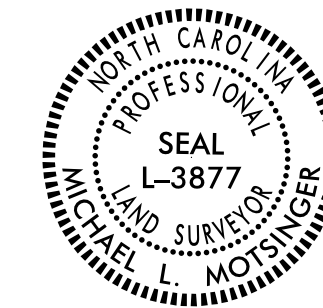
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This 7th day of October, 2021.

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




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REVISIONS

# SURVEY CONTROL SHEET

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

PROJECT REFERENCE NO. U-5738	SHEET NO. RW02C-5
<b>Location and Surveys</b>	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	689329.626	1557232.457							
LINE			N 32°18'45.2" W	1552.58					
PC	690641.778	1556402.547							
CURVE			N 24°39'30.4" W	379.06	15°18'29.6"(RT)	04°01'35.4"	380.19	191.23	1422.97
PCC	690986.270	1556244.401							
CURVE			N 15°34'35.7" W	111.97	02°51'19.6"(RT)	02°32'59.8"	111.98	56.00	2246.93
PCC	691094.126	1556214.334							
CURVE			N 08°23'37.8" W	231.67	11°30'36.3"(RT)	04°57'35.6"	232.06	116.42	1155.18
PCC	691323.318	1556180.516							
CURVE			N 00°44'32.0" W	176.84	03°47'35.3"(RT)	02°08'40.2"	176.88	88.47	2671.74
PT	691500.147	1556178.225							
LINE			N 01°09'15.7" E	507.34					
PC	692007.384	1556188.446							
CURVE			N 00°13'47.4" W	390.65	02°46'06.1"(LT)	00°42'30.9"	390.69	195.38	8085.94
PCC	692398.032	1556186.878							
CURVE			N 04°36'29.0" W	158.06	05°59'17.1"(LT)	03°47'12.6"	158.13	79.14	1513.03
PT	692555.579	1556174.180							
LINE			N 07°36'07.5" W	1174.42					
PC	693719.673	1556018.814							
CURVE			N 04°34'45.1" E	394.52	24°21'45.3"(RT)	06°07'43.8"	397.51	201.80	934.85
PT	694112.933	1556050.311							

EY1									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	689660.107	1557023.434							
CURVE			N 66°54'46.8" E	190.49	18°36'24.8"(RT)	09°43'30.0"	191.33	96.51	589.16
PT	689734.804	1557198.669							

EY2				
POINT	N	E	BEARING	DIST
POT	690835.335	1556300.068		
LINE			N 54°18'54.5" E	195.69
POT	690949.487	1556459.018		

EY3									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	690616.744	1556184.112							
LINE			N 00°16'30.5" W	66.62					
PC	690683.363	1556183.792							
CURVE			N 21°24'27.9" E	118.29	43°21'56.7"(RT)	35°47'24.8"	121.17	63.65	160.09
PCC	690793.496	1556226.970							
CURVE			N 45°41'56.9" E	89.75	05°13'01.3"(RT)	05°48'37.9"	89.79	44.92	986.07
PT	690856.183	1556291.206							

EY4				
POINT	N	E	BEARING	DIST
POT	692653.181	1556161.154		
LINE			S 86°50'27.0" E	199.42
POT	692642.191	1556360.275		

EY5									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	694089.942	1555871.971							
LINE			S 23°03'19.6" E	154.27					
PC	693947.994	1555932.386							
CURVE			S 54°25'46.2" E	58.07	62°44'53.2"(LT)	102°43'53.7"	61.08	34.01	55.77
PT	693914.213	1555979.623							
LINE			S 85°48'12.8" E	33.57					
POT	693911.756	1556013.103							

EY6									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	694436.089	1555552.407							
CURVE			S 52°06'00.9" E	287.45	04°11'10.4"(LT)	01°27'21.7"	287.51	143.82	3935.07
PCC	694259.517	1555779.226							
CURVE			S 58°33'23.6" E	93.40	08°43'35.1"(LT)	09°20'01.6"	93.49	46.84	613.85
PT	694210.793	1555858.913							
LINE			S 62°55'11.2" E	843.37					
POT	693826.858	1556609.827							

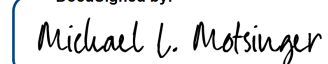
EY7				
POINT	N	E	BEARING	DIST
POT	694412.008	1556158.928		
LINE			S 20°04'27.7" W	318.11
POT	694113.225	1556049.741		

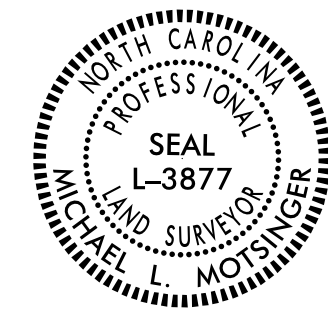
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 Professional Land Surveyor L-3877



REVISIONS

21-OCT-2021 13:31 S:\Units\Div\03\Winston\Clifts Computer\Urbon\U5738\2021-07-20\Julie\survey control sheets\tobechecked\U5738.L.S.-rw02c-5.dgn AT LS-312635 mmotsinger

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# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-5738	RW02D-1

**Location and Surveys**



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

I, Michael L. Motsinger, 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 7th day of October, 2021.

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



L

TYPE	STATION	NORTH	EAST
POT	10+00.00	687794.5344	1558293.7649
PC	11+59.57	687912.0446	1558185.8120
PT	16+96.79	688338.0082	1557859.6357
POT	28+69.55	689329.1611	1557232.7511
PC	33+20.10	689709.9414	1556991.9151
PT	36+08.76	689950.8720	1556832.9591
PC	40+08.76	690280.4523	1556606.2945
PT	42+97.42	690521.3830	1556447.3386
PC	44+18.17	690623.4304	1556382.7956
PT	52+94.33	691455.4553	1556150.8172
PC	59+75.72	692136.7082	1556164.5444
PT	64+80.06	692639.7550	1556136.2095
PC	74+93.43	693644.2193	1556002.1480
PT	79+18.63	694064.8837	1556035.8402
POT	79+68.82	694112.9330	1556050.3110

Y6

TYPE	STATION	NORTH	EAST
PC	10+00.00	694436.0894	1555552.4068
PCC	12+87.51	694259.5170	1555779.2262
PT	13+81.00	694210.7930	1555858.9130
POT	22+24.38	693826.8577	1556609.8273

Y7

TYPE	STATION	NORTH	EAST
POT	10+00.00	694113.2246	1556049.7408
POT	13+18.11	694412.0079	1556158.9284
POT	13+61.64	694452.8967	1556173.8708

Y8

TYPE	STATION	NORTH	EAST
POT	10+00.00	693768.6112	1555873.1165
PC	11+14.48	693876.9983	1555836.2594
PT	12+19.22	693963.9434	1555875.1189
POT	12+65.66	693982.1331	1555917.8561

RPA

TYPE	STATION	NORTH	EAST
POT	10+00.00	688505.0838	1557126.1919
PC	11+31.26	688522.9211	1557256.2320
PT	14+06.14	688622.7328	1557509.5466
POT	15+50.00	688705.6614	1557627.1023

Y1

TYPE	STATION	NORTH	EAST
PC	10+00.00	689660.1069	1557023.4343
PT	11+91.33	689734.8037	1557198.6688
PC	13+18.51	689765.1054	1557322.1884
PT	14+11.71	689790.4154	1557411.8633
PC	14+67.62	689807.4502	1557465.1154
PT	16+56.76	689877.4872	1557640.6418
POT	18+49.50	689961.2727	1557814.2215

Y2

TYPE	STATION	NORTH	EAST
POT	10+00.00	690616.7435	1556184.1123
PC	10+75.51	690692.2503	1556183.7497
PT	11+85.08	690786.2099	1556231.6659
POT	12+42.37	690819.6299	1556278.2007
POT	14+64.99	690949.4875	1556459.0175

Y3

TYPE	STATION	NORTH	EAST
POT	10+00.00	691290.1438	1555972.3375
POT	11+83.60	691304.6641	1556155.3665

Y4

TYPE	STATION	NORTH	EAST
POT	10+00.00	692654.6674	1556134.2192
POT	12+26.40	692642.1906	1556360.2750

Y5

TYPE	STATION	NORTH	EAST
POT	10+00.00	694089.9417	1555871.9708
PC	11+54.27	693947.9941	1555932.3862
PT	12+15.35	693914.2129	1555979.6226
POT	12+38.44	693912.5232	1556002.6514

REVISIONS

2:\01-2021\50\Winston\01\fts Computer-Urban\U5738\2021-07-20\Julie\survey control sheets\tobechecked\U5738.ls\_rw02d-1.dgn  
mmotsinger AT LS-312635

**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.





Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

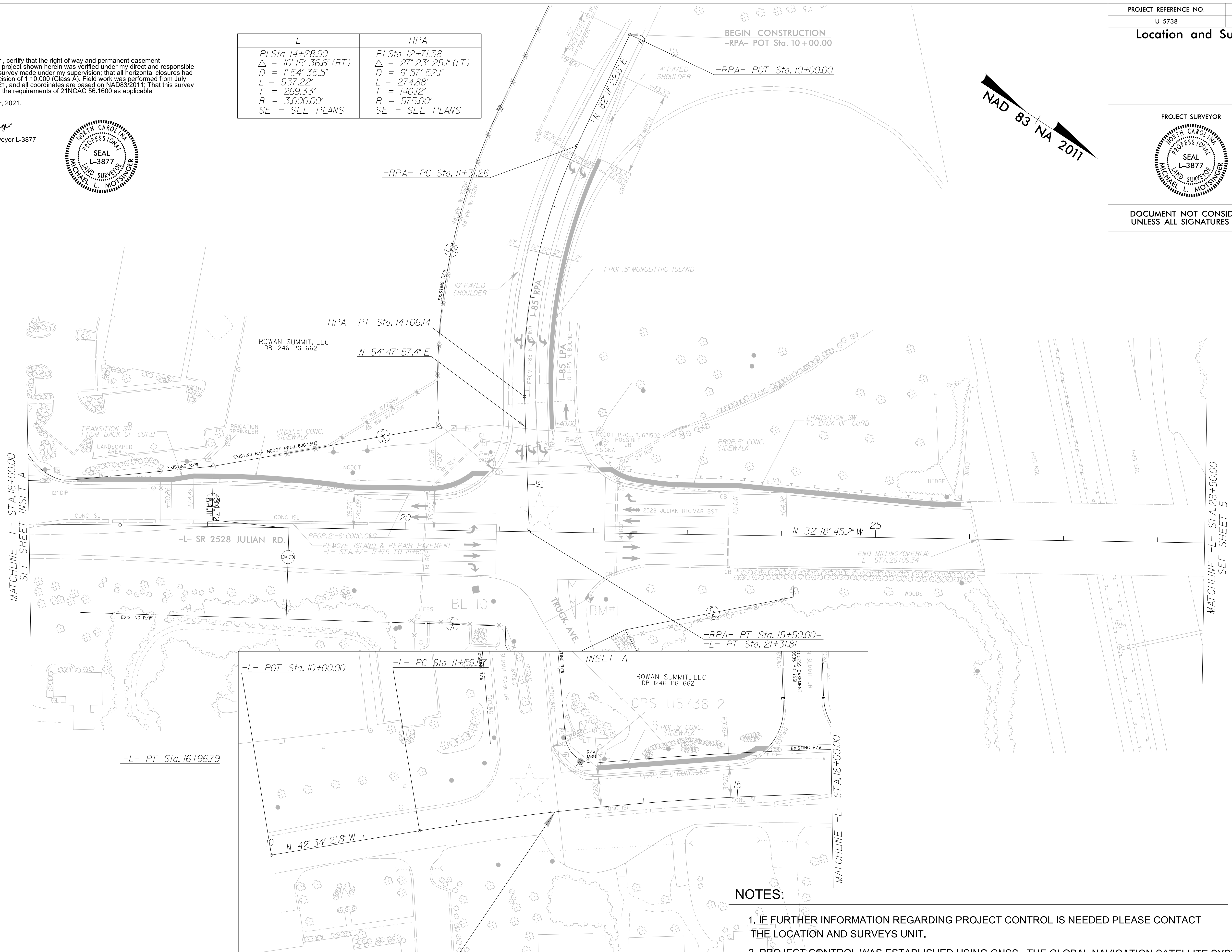
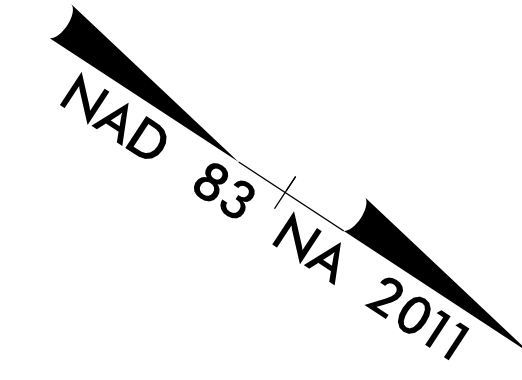
I, Michael L. Motsinger, certify that the right of way and permanent easement monumentation for this project shown herein was verified under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from July 2021 to September 2021, and all coordinates are based on NAD83/2011; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 7th day of October, 2021.

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



-L-	-RPA-
PI Sta 14+28.90	PI Sta 12+71.38
$\Delta = 10^{\circ}15'36.6"$ (RT)	$\Delta = 27^{\circ}23'25.1"$ (LT)
D = 1'54'35.5"	D = 9'57'52.1"
L = 537.22'	L = 274.88'
T = 269.33'	T = 140.12'
R = 3,000.00'	R = 575.00'
SE = SEE PLANS	SE = SEE PLANS



REVISIONS

6/2/2021 10:07 AM C:\Users\motsinger\OneDrive\Documents\Projects\U5738\2021-07-20\Julie\survey control sheets\to be checked\U5738\_1s\_rw04.dgn

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 \_\_\_\_\_.

**BEGIN TIP PROJECT U-5738**  
-L- Sta. POC 13+05.00

MATCHLINE -L- STA. 16+00.00  
SEE SHEET INSET A

MATCHLINE -L- STA. 28+50.00  
SEE SHEET 5

MATCHLINE -L- STA. 16+00.00

Location and Surveys

PROJECT SURVEYOR

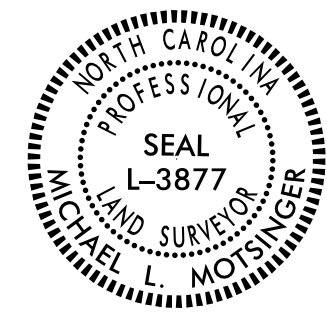


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

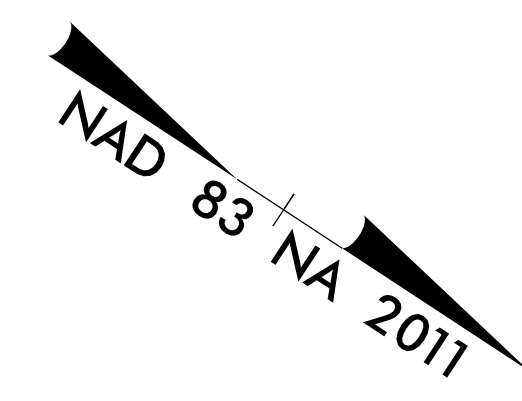
I, Michael L. Motsinger, certify that the right of way and permanent easement monumentation for this project shown herein was verified under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from July 2021 to September 2021, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 7th day of October, 2021.

DocuSigned by:  
**Michael L. Motsinger**  
 F0B8F70E23C40E  
 Professional Land Surveyor L-3877



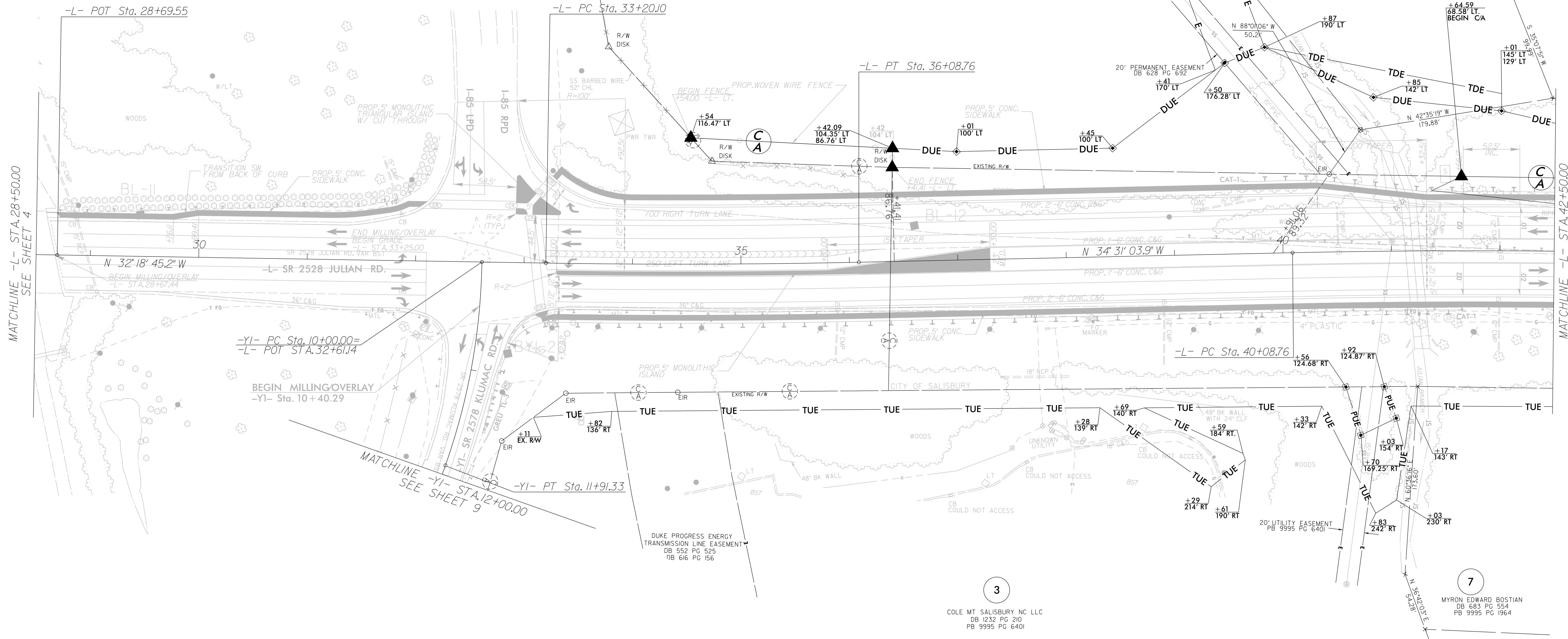
-L-		-YI-
PI Sta 34+64.45	PI Sta 41+53.11	PI Sta 10+96.51
$\Delta = 2' 12" 18.7" (LT)$	$\Delta = 2' 12" 18.7" (RT)$	$\Delta = 18' 36" 24.8" (RT)$
$D = 0' 45" 50.2"$	$D = 0' 45" 50.2"$	$D = 9' 43" 30.0"$
$L = 288.66'$	$L = 288.66'$	$L = 191.33'$
$T = 144.35'$	$T = 144.35'$	$T = 96.51'$
$R = 7,500.00'$	$R = 7,500.00'$	$R = 589.16'$
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS



REVISIONS

MATCHLINE -L- STA. 28+50.00 SEE SHEET 4

MATCHLINE -L- STA. 42+50.00 SEE SHEET 6



NOTES:

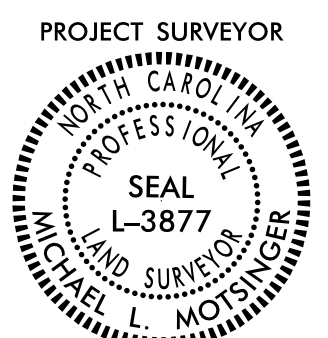
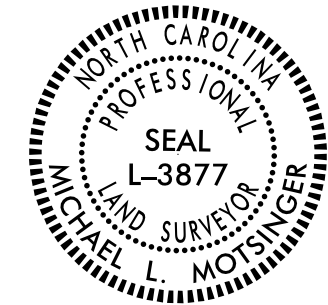
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED \_\_\_\_ TO \_\_\_\_.

C:\Users\motsinger\OneDrive\Documents\Projects\2021-07-20\Julie\survey control sheets\to be checked\U5738\_1s\_rw05.dgn  
 6/2/2019 10:14:13 AM  
 mtsinger

I, Michael L. Molsinger, certify that the right of way and permanent easement monumentation for this project shown herein was verified 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 July 2021 to September 2021, and all coordinates are based on NAD83/2011; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

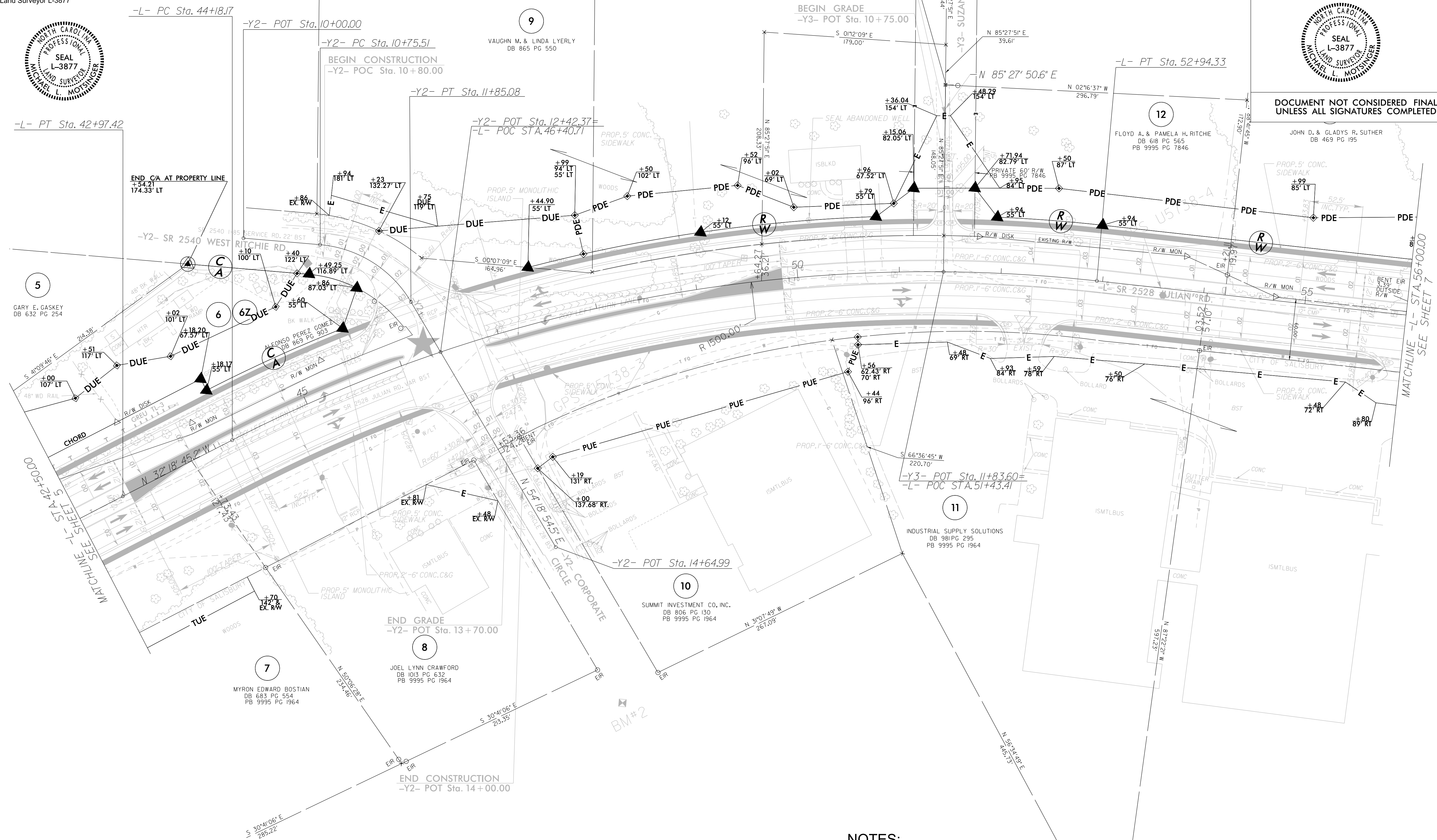
This 7th day of October, 2021.

Delegated by:  
**Michael L. Molsinger**  
 FDB#F70E23C40E  
 Professional Land Surveyor L-3877



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

JOHN D. & GLADYS R. SUTHER  
 DB 469 PG 195



-L-  
 PI Sta 48+69.14  
 $\Delta = 33^{\circ}28'00.8''$  (RT)  
 D = 3' 49' 11.0"  
 L = 876.16'  
 T = 450.98'  
 R = 1,500.00'  
 SE = SEE PLANS

-Y2-  
 PI Sta 11+34.85  
 $\Delta = 54^{\circ}35'25.0''$  (RT)  
 D = 49' 49' 20.7"  
 L = 109.57'  
 T = 59.34'  
 R = 115.00'  
 SE = SEE PLANS

-Y3- POT Sta. 10+00.00  
 BEGIN CONSTRUCTION  
 -Y3- POT Sta. 10+30.00

BEGIN GRADE  
 -Y3- POT Sta. 10+75.00

NAD 83 NA 2011

-L- PT Sta. 42+97.42

-L- PC Sta. 44+18.17

-Y2- POT Sta. 10+00.00

-Y2- PC Sta. 10+75.51  
 BEGIN CONSTRUCTION  
 -Y2- POC Sta. 10+80.00

-Y2- PT Sta. 11+85.08

-Y2- POT Sta. 12+42.37  
 -L- POC STA. 46+40.71

-L- PT Sta. 52+94.33

-Y3- POT Sta. 11+83.60  
 -L- POC STA. 51+43.41

END GRADE  
 -Y2- POT Sta. 13+70.00

-Y2- POT Sta. 14+64.99

END CONSTRUCTION  
 -Y2- POT Sta. 14+00.00

REVISIONS

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 AT LS-312635  
 m.molsinger

**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 \_\_\_\_\_.



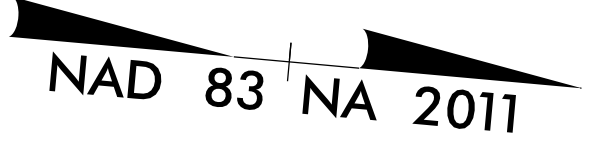
Location and Surveys

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-L-	-Y5-	-Y6-	-Y8-
PI Sta 77+09.29	PI Sta 11+88.28	PI Sta 11+43.82	PI Sta 13+34.35
$\Delta = 24' 21" 45.3" (RT)$	$\Delta = 62' 44" 53.2" (LT)$	$\Delta = 4' 11" 10.4" (LT)$	$\Delta = 85' 43' 30.8" (RT)$
$D = 5' 43' 46.5"$	$D = 102' 43' 53.7"$	$D = 1' 27' 21.7"$	$D = 9' 20' 01.6"$
$L = 425.21'$	$L = 61.08'$	$L = 287.51'$	$L = 93.49'$
$T = 215.87'$	$T = 34.01'$	$T = 143.82'$	$T = 46.84'$
$R = 1,000.00'$	$R = 55.77'$	$R = 3,935.07'$	$R = 613.85'$
SE = SEE PLANS			$R = 70.00'$



REVISIONS

MATCHLINE -L- STA. 69+00.00 SEE SHEET 7

I, Michael L. Molsinger, certify that the right of way and permanent easement monumentation for this project shown herein was verified 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 July 2021 to September 2021, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 7th day of October, 2021.

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



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:\Projects\U-5738\Winston\Drawings\U-5738\2021-07-20\Julie\survey\control\sheets\tocheck\U5738.ls.rw08.dgn  
 6/2/09  
 Michael L. Molsinger

Location and Surveys

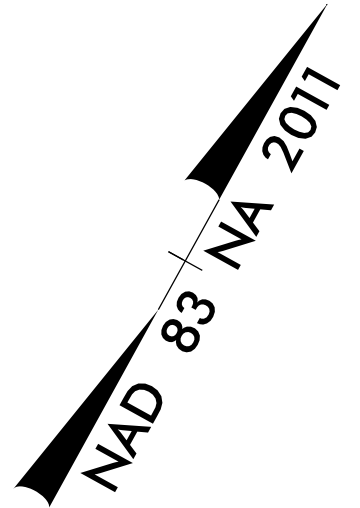
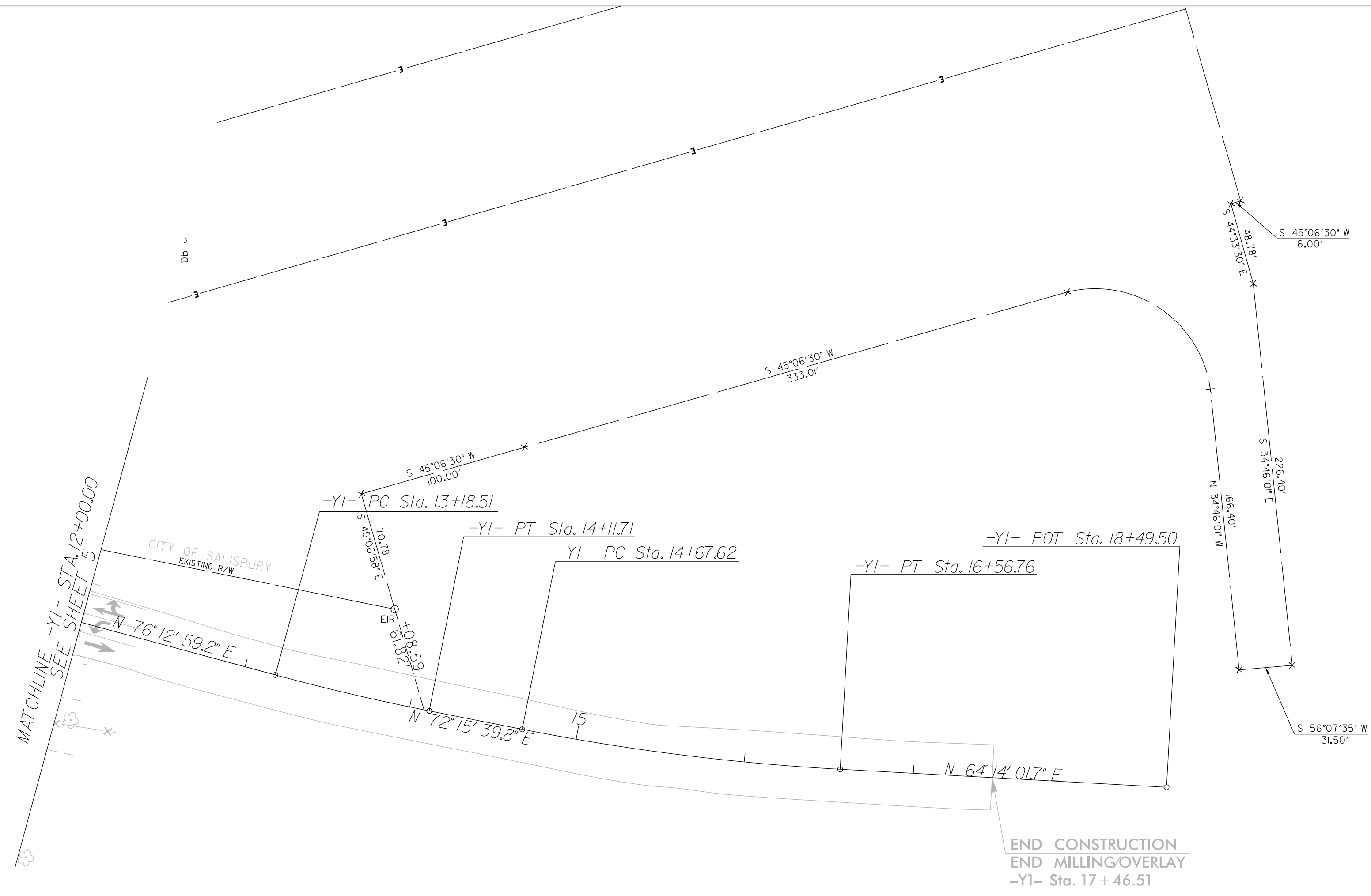
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

2:\01-2021\10-21\Winston\Clifton\Computer-Urban\U5738\2021-07-20\Julie\survey control sheets\to be checked\U5738\_1s.rw09.dgn  
 M.L.Motsinger  
 AT LS-312635

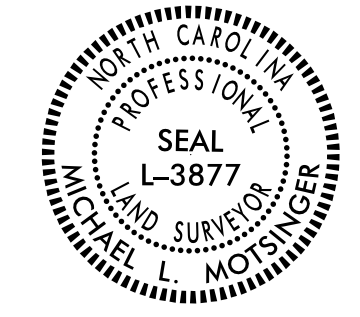


-Y1-	
PI Sta 13+65.13	PI Sta 15+62.34
$\Delta = 3^{\circ}57'19.4''$ (LT)	$\Delta = 8^{\circ}01'38.2''$ (LT)
D = 4'14" 38.9"	D = 4'14" 38.9"
L = 93.20'	L = 189.14'
T = 46.62'	T = 94.72'
R = 1,350.00'	R = 1,350.00'
SE = SEE PLANS	SE = SEE PLANS

I, Michael L. Motsinger, certify that the right of way and permanent easement monumentation for this project shown herein was verified 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 July 2021 to September 2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 7th day of October, 2021.

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



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 \_\_\_\_\_.