

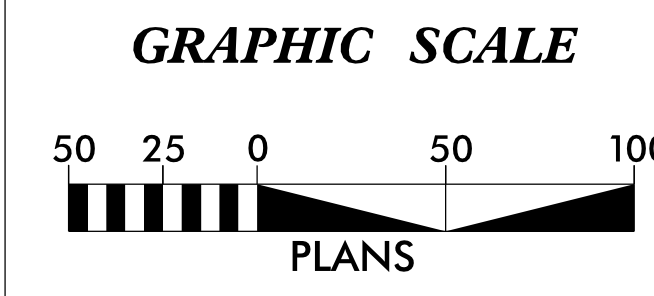
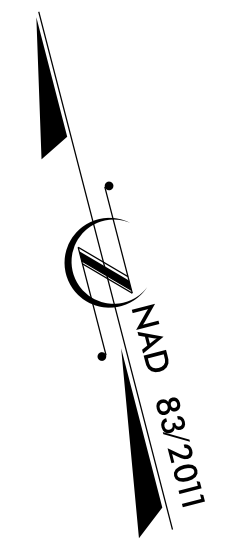
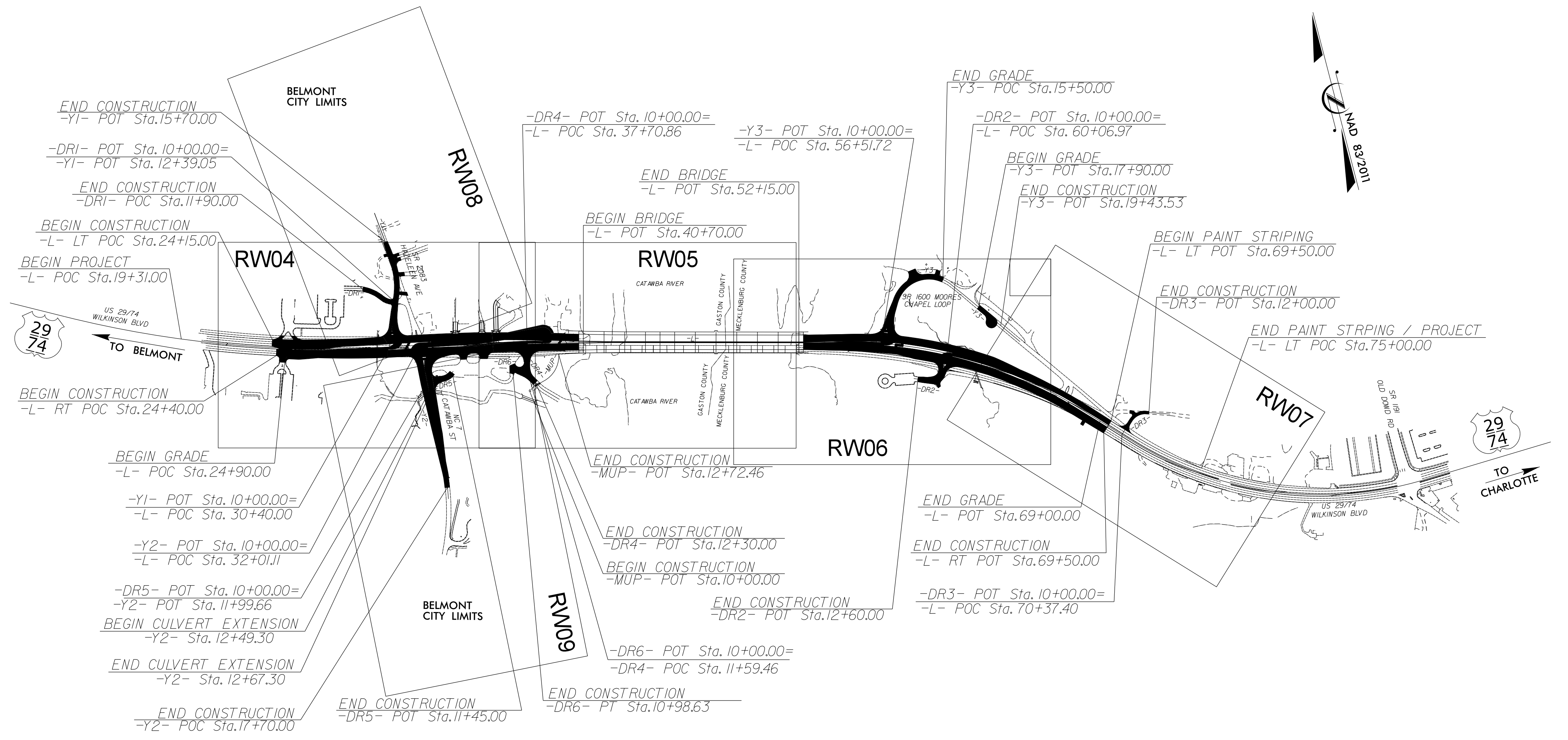
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-6051 / U-6143	RW01	13

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

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

**GASTON/MECKLENBURG COUNTY**

**TIP PROJECT: B-6051 / U-6143**



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BR0020-2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 550,746.194(ft) EASTING: 1,398,830.501(ft) ELEVATION: 583.677(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999848

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BR0020-2" TO -L- STATION 10+00.00 IS N 68°14'33.5" W 2,303.461(ft)

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

Prepared in the Office of:

**TGS ENGINEERS**  
TGS ENGINEERS  
201 WEST MARION STREET  
SUITE 200  
SHELBY, NC 28150  
PH (704) 476-0003  
CORP. LICENSE NO.: C-0275

2024 STANDARD SPECIFICATIONS

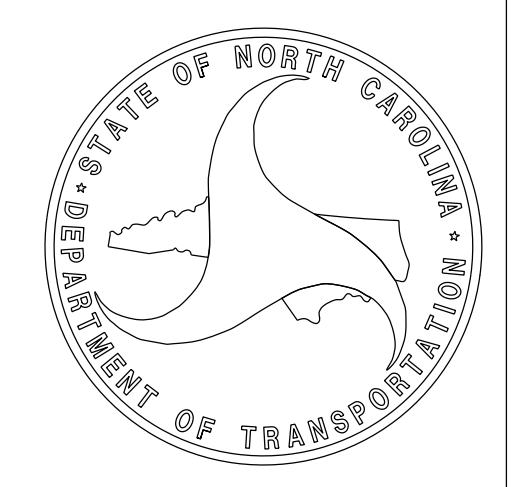
<b>RIGHT OF WAY DATE:</b> 5/23/2023	<b>LETTING DATE:</b> 5/19/2026
--	-----------------------------------

**PROFESSIONAL LAND SURVEYOR**

Signed by:  
**Matthew Cornwell**  
E090961473E475

3/5/2026

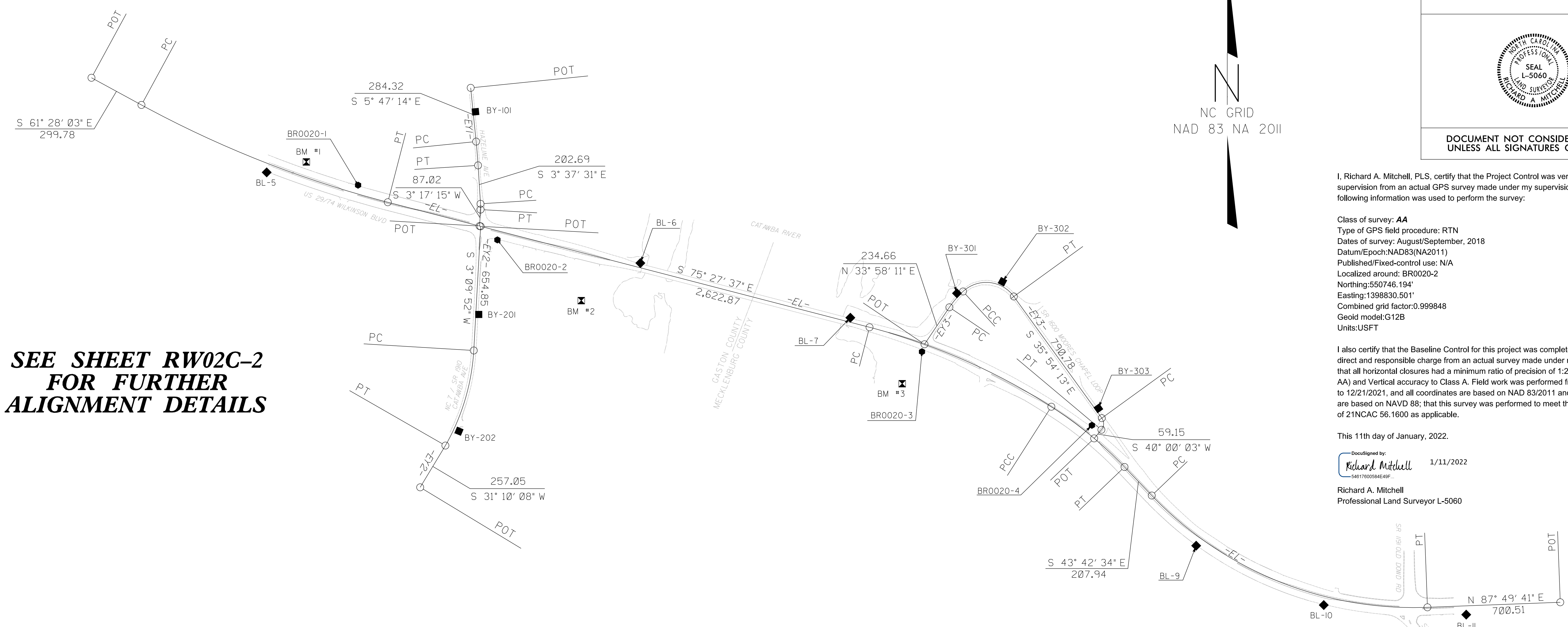
SIGNATURE: \_\_\_\_\_ Date: \_\_\_\_\_



# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. B-6051	SHEET NO. RW02C-1
<b>Location and Surveys</b>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**SEE SHEET RW02C-2  
FOR FURTHER  
ALIGNMENT DETAILS**

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

Class of survey: **AA**  
 Type of GPS field procedure: RTN  
 Dates of survey: August/September, 2018  
 Datum/Epoch: NAD83(NA2011)  
 Published/Fixed-control use: N/A  
 Localized around: BR0020-2  
 Northing: 550746.194'  
 Easting: 1398830.501'  
 Combined grid factor: 0.999848  
 Geoid model: G12B  
 Units: USFT

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 11/22/2021 to 12/21/2021, 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 11th day of January, 2022.

DocuSigned by:  
  
 1/11/2022  
 Richard A. Mitchell  
 Professional Land Surveyor L-5060

BL POINT	DESC.	NORTH	EAST	ELEVATION
5	BL - 5	551101.6450	1397614.4300	623.09
1	BR0020-1	551034.3160	1398096.2650	608.21
2	BR0020-2	550746.1940	1398830.5010	583.68
6	BL - 6	550624.0510	1399583.8260	581.76
7	BL - 7	550336.2200	1400690.5690	581.97
3	BR0020-3	550157.2140	1401068.1360	585.61
4	BR0020-4	549769.7250	1401963.8360	616.23
9	BL - 9	549135.5770	1402513.1220	653.41
10	BL - 10	548822.9290	1403185.5620	666.93
11	BL - 11	548772.4270	1403936.3880	682.45

BY1 POINT	DESC.	NORTH	EAST	ELEVATION
101	BY - 101	551421.0620	1398714.9470	612.10
EQ2	BR0020-2	550746.1940	1398830.5010	583.68

BY2 POINT	DESC.	NORTH	EAST	ELEVATION
EQ2	BR0020-2	550746.1940	1398830.5010	583.68
201	BY - 201	550353.4880	1398732.0550	582.63
202	BY - 202	549738.3940	1398627.7680	596.65

BY3 POINT	DESC.	NORTH	EAST	ELEVATION
EQ3	BR0020-3	550157.2140	1401068.1360	585.61
301	BY - 301	550464.7380	1401252.4470	576.45
302	BY - 302	550525.7230	1401492.2540	579.66
303	BY - 303	549859.0950	1401997.5590	611.38

.....  
 BM1 ELEVATION = 622.25  
 N 551157 E 1397824  
 BENCH TIE SET IN 24" POPLAR  
 .....  
 BM2 ELEVATION = 584.31  
 N 550426 E 1399273  
 BENCH TIE SET IN 14" HICKORY  
 .....  
 BM3 ELEVATION = 685.72  
 N 549989 E 1400964  
 BENCH TIE SET IN 41" POPLAR  
 .....  
 BM4 ELEVATION = 498.68  
 N 548641 E 1403629  
 BENCH TIE SET IN 36" SYCAMORE  
 .....

### NOTES:

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

REVISIONS

I:\-JAN-2022-1321\Geomatics\80-Dr-wrings\6051-1s-r-w02c-1.220111.dgn  
 1:00482\1072\ AT MCB829  
 MB Taylor

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
B6051	RWOC-2
Location and Surveys	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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

Class of survey: AA  
 Type of GPS field procedure: RTN  
 Dates of survey: August/September, 2018  
 Datum/Epoch: NAD83(NA2011)  
 Published/Fixed-control use: N/A  
 Localized around: BR0020-2  
 Northing: 550746.194'  
 Easting: 1398830.501'  
 Combined grid factor: 0.999848  
 Geoid model: G12B  
 Units: USFT

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 11/22/2021 to 12/21/2021, 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 11th day of January, 2022.

DocuSigned by:  
  
 1/11/2022  
 54617600084E49F

Richard A. Mitchell  
 Professional Land Surveyor L-5060

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	551600.033	1396691.134							
LINE			S 61°28'02.7" E	299.78					
PC	551456.839	1396954.507							
CURVE			S 68°27'49.7" E	1395.80	13°59'34.0"(LT)	01°00'00.0"	1399.28	703.14	5729.58
PT	550944.456	1398252.863							
LINE			S 75°27'36.7" E	2622.87					
PC	550285.979	1400791.728							
CURVE			S 66°24'48.6" E	1045.64	18°05'36.3"(RT)	01°43'23.5"	1050.00	529.41	3325.00
PCC	549867.582	1401750.015							
CURVE			S 50°32'17.0" E	499.39	13°39'26.9"(RT)	02°43'42.1"	500.57	251.48	2100.00
PT	549550.188	1402135.566							
LINE			S 43°42'33.6" E	207.94					
PC	549399.877	1402279.253							
CURVE			S 67°56'26.2" E	1567.69	48°27'45.3"(LT)	03°00'00.0"	1615.42	859.58	1909.86
PT	548811.103	1403732.184							
LINE			N 87°49'41.1" E	700.51					
POT	548837.651	1404432.186							

EY1									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	551546.876	1398689.706							
LINE			S 05°47'13.9" E	284.32					
PC	551264.005	1398718.375							
CURVE			S 04°42'22.3" E	125.89	02°09'43.2"(RT)	01°43'02.3"	125.89	62.95	3336.35
PT	551138.543	1398728.704							
LINE			S 03°37'30.7" E	202.69					
PC	550936.254	1398741.520							
CURVE			S 00°10'07.8" E	30.39	06°54'45.8"(RT)	22°43'55.1"	30.41	15.22	252.05
PT	550905.863	1398741.610							
LINE			S 03°17'15.1" W	87.02					
POT	550818.984	1398736.619							

EY2									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	550817.539	1398742.210							
LINE			S 03°09'52.3" W	654.85					
PC	550163.687	1398706.060							
CURVE			S 16°37'41.5" W	522.49	26°21'22.9"(RT)	04°59'59.9"	527.13	268.31	1145.92
PT	549663.042	1398556.544							
LINE			S 31°10'08.3" W	257.05					
POT	549443.096	1398423.502							

EY3									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	550196.530	1401081.517							
LINE			N 33°58'10.9" E	234.66					
PC	550391.140	1401212.634							
CURVE			N 40°45'21.5" E	110.01	13°34'21.2"(RT)	12°18'32.3"	110.27	55.39	465.48
PCC	550474.471	1401284.451							
CURVE			S 84°22'15.5" E	269.07	96°56'05.2"(RT)	31°52'49.3"	304.06	202.91	179.72
PT	550448.079	1401552.225							
LINE			S 35°54'12.9" E	790.78					
PC	549807.540	1402015.958							
CURVE			S 02°02'55.2" W	61.50	75°54'16.2"(RT)	114°35'29.6"	66.24	39.00	50.00
PT	549746.079	1402013.760							
LINE			S 40°00'03.3" W	59.15					
POT	549700.769	1401975.739							

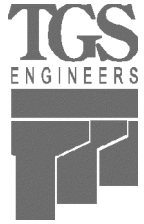
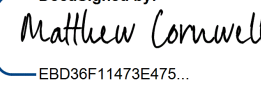

REVISIONS

### 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.


I:\LAN-2022\1323  
 1:\00482\1072\geomatigs\80-Dr-omings\6051-1s-r-402e-2-220111.dgn  
 MB Taylor  
 AT MCG829

# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. B-6051U-6143	SHEET NO. RW02D-1
<b>Location and Surveys</b>	
 <p>TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	
PROJECT SURVEYOR	
DocuSigned by:  <small>EB038F11473E475...</small>	
5/9/2024	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

I, Matthew T. Cornwell, 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 5/9/2024

DocuSigned by:  
  
EB038F11473E475...  
 Professional Land Surveyor L-4775

L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	551600.0333	1396691.1339
PC	12+99.78	551456.8394	1396954.5070
PRC	30+70.77	550862.8705	1398615.4375
PT	38+51.05	550691.5495	1399376.5438
PC	54+88.89	550280.1312	1400961.8605
PT	67+63.10	549643.1784	1402046.6735
PC	70+99.69	549399.8772	1402279.2530
PT	87+15.11	548811.1029	1403732.1835
POT	94+15.61	548837.6507	1404432.1861

DR1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	551090.3701	1398674.7799
PC	10+23.74	551099.2630	1398652.7682
PRC	10+79.04	551132.7605	1398609.6496
PT	12+27.08	551214.8444	1398489.8108
POT	12+90.54	551231.4121	1398428.5479

DR5			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550638.3411	1398732.3028
PC	10+88.76	550634.6994	1398820.9881
PT	11+55.36	550659.9677	1398880.2616

Y1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550868.7286	1398585.2344
PC	12+71.76	551120.6974	1398687.0325
PT	14+68.33	551313.4471	1398713.8484
POT	17+34.66	551578.2376	1398685.2767

DR2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550094.8472	1401444.5068
PC	11+10.60	549996.7069	1401393.5173
PT	11+84.28	549973.3650	1401330.5047
POT	12+82.17	550009.8639	1401239.6791

DR6			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550556.4528	1399262.6769
PC	10+20.72	550561.0692	1399242.4816
PT	10+98.63	550614.8870	1399192.6714

Y2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550837.7014	1398743.3250
PC	16+75.04	550163.6867	1398706.0604
PT	18+31.40	550008.7887	1398685.8589

DR3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	549444.9047	1402236.2098
PC	10+88.70	549506.1982	1402300.3290
PT	11+86.07	549526.6002	1402390.7464
POT	13+12.80	549486.8546	1402511.0767

DR7			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550799.0210	1398926.9851
PT	12+44.75	551035.2020	1398991.1741

Y3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550233.6836	1401117.8986
PC	12+44.04	550437.2786	1401252.4530
PT	15+98.73	550445.8086	1401555.1425
PC	16+49.84	550404.8228	1401585.6799
PT	17+34.63	550336.4039	1401635.7605
POT	20+76.58	550058.7725	1401835.3853

DR4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550711.4338	1399298.8572
PC	11+33.62	550582.0488	1399265.4766
PT	12+05.79	550512.5685	1399275.8684
PC	12+63.14	550463.6623	1399305.8137
PT	12+97.84	550436.4191	1399327.1800
POT	13+86.54	550373.4083	1399389.6075

DR8			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550767.3501	1399067.6854
PT	11+18.13	550882.4614	1399094.2039

MUP			
TYPE	STATION	NORTH	EAST
PC	10+00.00	550450.7223	1399247.4741
PT	10+43.71	550475.5317	1399282.2883
PC	10+99.35	550489.5603	1399336.1271
PT	12+58.64	550597.0341	1399443.4953
POT	12+72.46	550610.4064	1399446.9657

DR9			
TYPE	STATION	NORTH	EAST
POT	10+00.00	550750.3951	1399139.9338
PC	11+87.13	550932.4462	1399183.2514
PT	12+33.26	550966.6330	1399211.7451
POT	12+42.62	550970.4044	1399220.3108

DR10			
TYPE	STATION	NORTH	EAST
POT	10+00.00	551090.3701	1398674.7799
PC	10+20.32	551085.4373	1398694.4930
PT	10+40.93	551082.5227	1398714.8610
POT	10+82.70	551080.8911	1398756.5953

DR11			
TYPE	STATION	NORTH	EAST
POT	10+00.00	551081.8410	1398732.2963
POT	11+45.88	550936.2540	1398741.5202

REVISIONS

### NOTES:

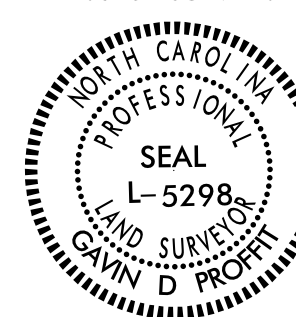
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE PROPOSED ALIGNMENT CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.



REVISIONS  
3-21-2025 RIGHT OF WAY REVISION #13 -- ROW UPDATED ON PARCEL 12 FOR UTILITIES CONDUIT BANK.

# RIGHT OF WAY CONTROL SHEET

THE PURPOSE OF THIS ADDENDUM IS TO  
ADJUSTED THE CONTROLLED ACCESS FROM  
REVISION #13 DATED MARCH 21, 2025 FOUND  
ON SHEET RW05A

PROJECT REFERENCE NO.	SHEET NO.
B-6051U-6143	RW03E-1A
Location and Surveys	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 12 LOCATION AND SURVEYS 2312 KINGS ROAD EXTENSION SHELBY NC 28150	
PROJECT SURVEYOR	
	
DocuSigned by: Gavin D. Proffitt 282D412268164E7...	

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
L	38+65.00	-112.04	550796.4973	1399418.1885
L	40+40.00	-102.44	550743.2467	1399585.1660

I, Gavin D. Proffitt, 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) (R/W Staking Revision) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further 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.

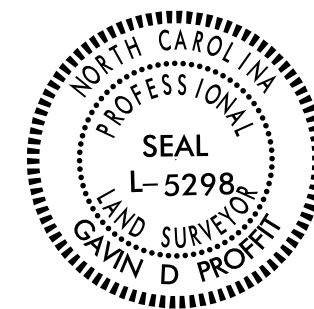
I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this 31th day of March, 2025.

DocuSigned by:  
Gavin D. Proffitt  
282D412268164E7...

Professional Land Surveyor

L-5298



### 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 11/18/24 TO 11/20/24, REVISED 3/31/2025

PERMANENT EASEMENT MARKER IRON PIN AND CAP

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 40 rows of survey data.

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 40 rows of survey data.

PERMANENT EASEMENT CONTROL SHEET

PERMANENT EASEMENT MARKER IRON PIN AND CAP

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 40 rows of survey data.

PERMANENT EASEMENT MARKER IRON PIN AND CAP

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 40 rows of survey data.

PERMANENT EASEMENT MARKER IRON PIN AND CAP

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 10 rows of survey data.

PERMANENT EASEMENT MARKER IRON PIN AND CAP

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 10 rows of survey data.

PERMANENT EASEMENT MARKER IRON PIN AND CAP

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 4 rows of survey data.

PERMANENT EASEMENT MARKER IRON PIN AND CAP

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 6 rows of survey data.

PERMANENT EASEMENT MARKER IRON PIN AND CAP

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 4 rows of survey data.

PERMANENT EASEMENT MARKER IRON PIN AND CAP

Table with 5 columns: ALIGN, STATION, OFFSET, NORTH, EAST. Contains 1 row of survey data.

- NOTES:
1. MAGNAIL SET
2. REBAR SET - NO CAP
3. POINT NOT SET - INACCESSIBLE
4. CHISELED IN CONCRETE

NOTES:

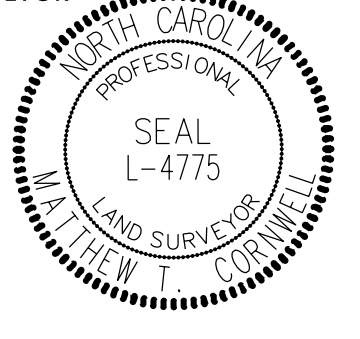
- 1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 7/11/2023 TO 5/6/2024.

PROJECT REFERENCE NO. B-6051U-6143 SHEET NO. RW03E-2
Location and Surveys
TGS ENGINEERS
201 WEST MARION STREET SUITE 200
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275
PROJECT SURVEYOR
Matthew Cornwell
5/9/2024
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Matthew T. Cornwell, 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 7/11/2023 to 5/6/2024, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 5/9/2024

Matthew Cornwell
Professional Land Surveyor L-4775



REVISIONS

30 MAY 2024 13:56 S:\Projects\ncdot\B-6051\2024 RW Revision\AS SUBMITTED 240509\6051\1s\_rw03e-2.dgn

5/2024

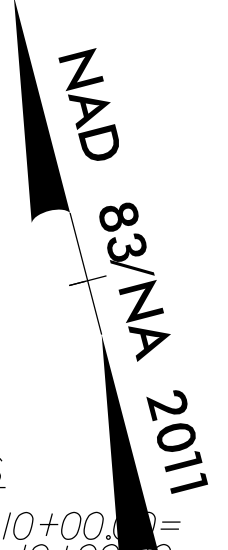
NOTES:

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 7/11/2023 TO 5/6/2024.

I, Matthew T. Cornwell, 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 7/11/2023 to 5/6/2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 5/9/2024  
 DocuSigned by:  
 Matthew Cornwell  
 E0309F1147E4E5...  
 Professional Land Surveyor L-4775

-L-	-Y1-	-DRI-	-DR9-
PI Sta 21+92.39 Δ = 17° 42' 35.4" (LT) D = 1' 00' 00.0" L = 1,770.98' T = 892.61' R = 5,729.58' V = 50 MPH SE = RC	PI Sta 13+72.07 Δ = 28° 09' 28.0" (LT) D = 14' 19' 26.2" L = 196.58' T = 100.32' R = 400.00' V = 30 MPH SE = .04	PI Sta 10+52.12 Δ = 31° 41' 11.4" (RT) D = 57' 17' 44.8" L = 55.30' T = 28.38' R = 100.00' V = 15 MPH SE = .03	PI Sta 11+55.98 Δ = 38° 33' 10.1" (LT) D = 26' 02' 36.7" L = 148.03' T = 76.94' R = 220.00' V = 15 MPH SE = .04

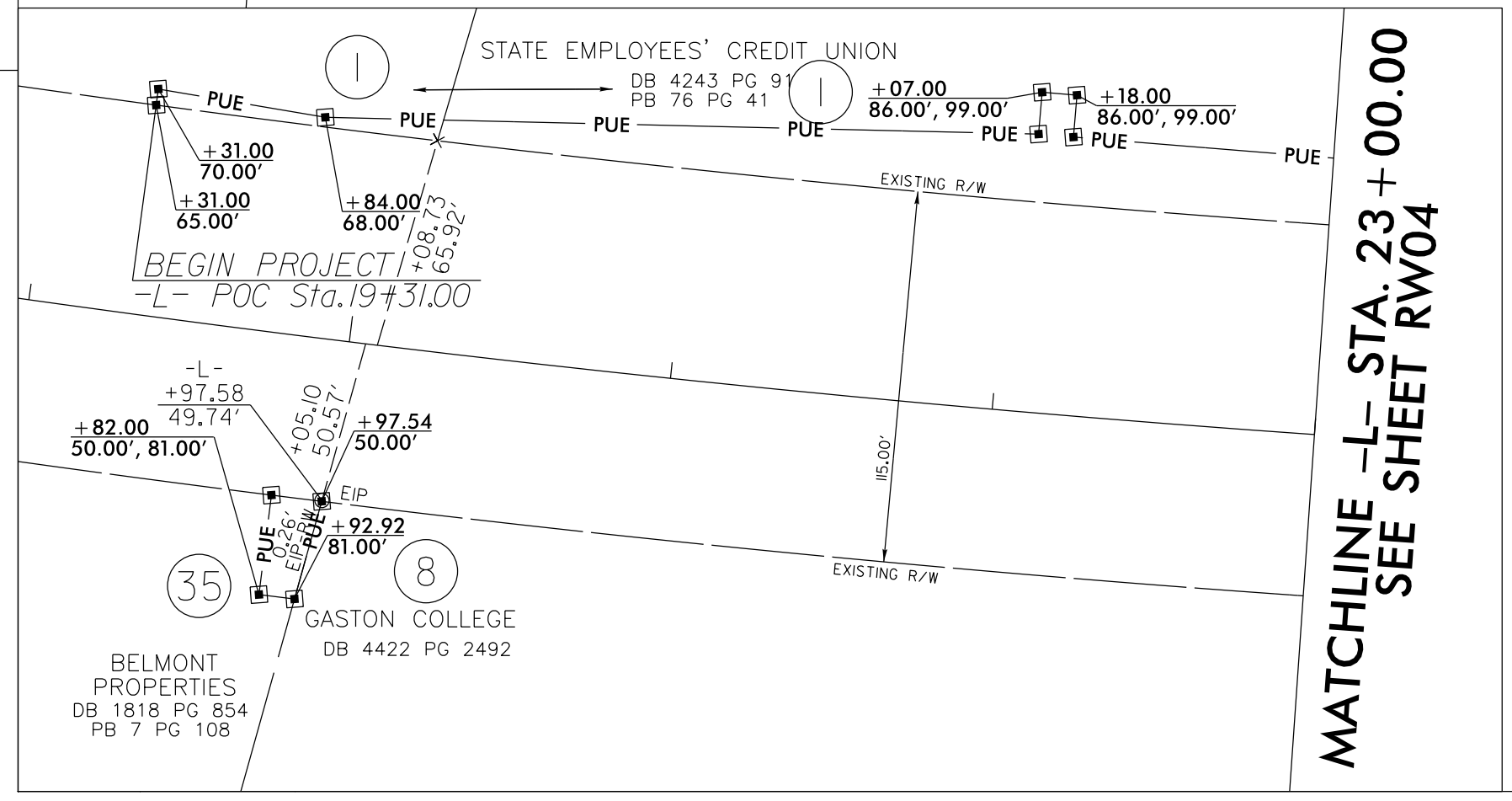
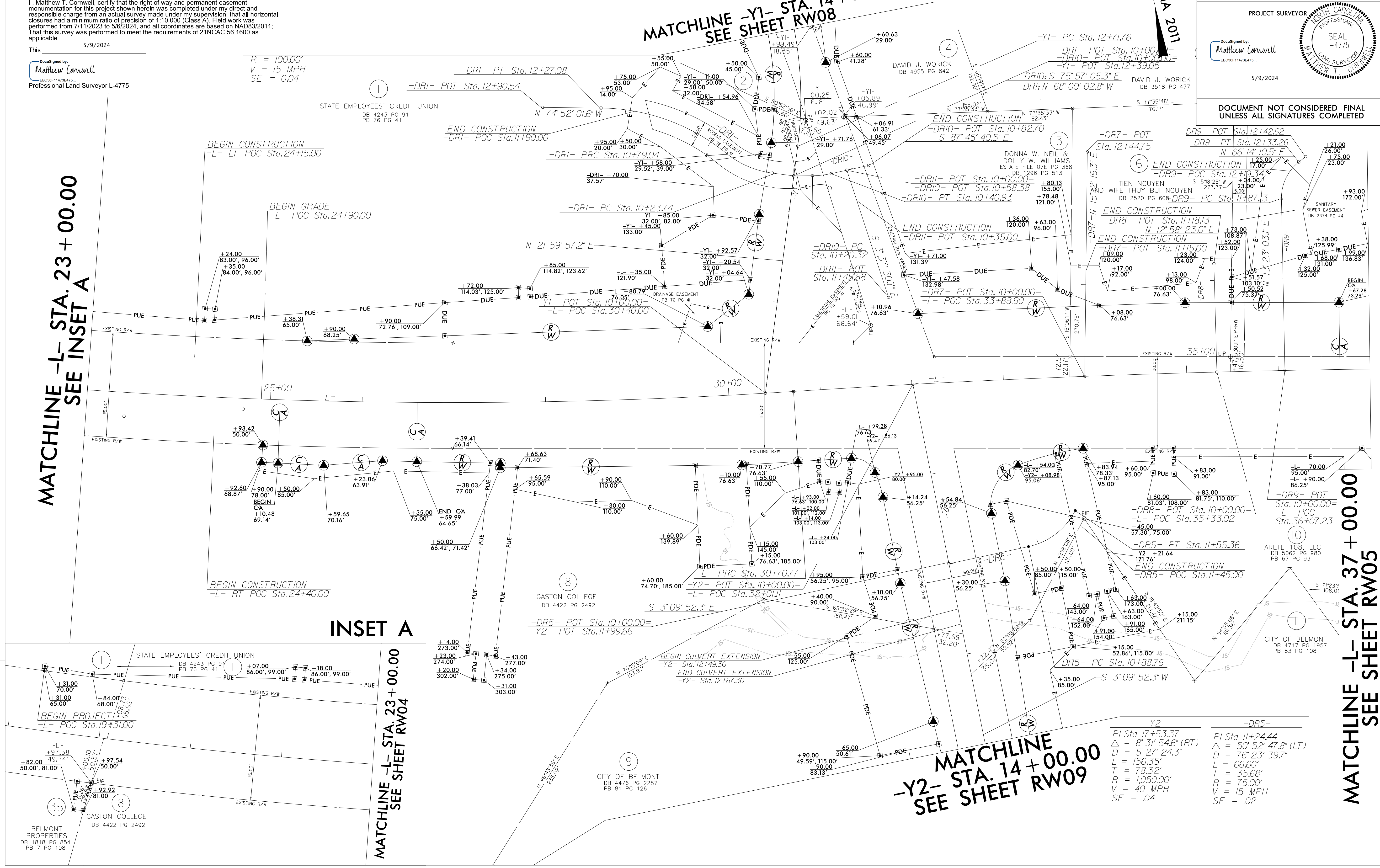


PROJECT REFERENCE NO. B-6051U-6143	SHEET NO. RW04
<b>Location and Surveys</b>	
TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR 	
DocuSigned by: Matthew Cornwell E0309F1147E4E5... 5/9/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

RIGHT OF WAY REVISION 6-30-2023 - TCE ADDED FOR REMOVAL OF EXISTING PAVEMENT DRIVEWAY PARCEL 7 AT BORDER OF PSHO...  
 RIGHT OF WAY REVISION 7-14-2023 - PARCEL 3 OWNER IDENTIFICATION TEXT UPDATED: PARCEL OWNER NOW "ARETE 108, LLC".  
 RIGHT OF WAY REVISION 8-11-2023 - PARCEL 3 OWNER IDENTIFICATION TEXT UPDATED: PARCEL OWNER NOW "ARETE 108, LLC".  
 RIGHT OF WAY REVISION 9-14-2023 - PARCEL 3 DRIVEWAY ACCESS UPDATED. DUE AND TCE UPDATED FOR PARCEL 3.  
 RIGHT OF WAY REVISION 9-14-2023 - PARCEL 4 DUE UPDATED TO END AT PROJECT WINE REVISION PARCELS 3 AND 4. NOT DISTURB VAULT OR BACKFLOW PREVENTERS LABEL ADDED TO PARCEL 1.

RIGHT OF WAY REVISION 8-11-2023 - PARCEL 35 OWNER IDENTIFICATION TEXT UPDATED: DR/PG INFORMATION ADDED. PARCEL 3 DRIVEWAY ACCESS UPDATED. DUE AND TCE UPDATED FOR PARCEL 3.  
 RIGHT OF WAY REVISION 9-14-2023 - PARCEL 3 DRIVEWAY ACCESS UPDATED. DUE AND TCE UPDATED FOR PARCEL 3.  
 RIGHT OF WAY REVISION 9-14-2023 - PARCEL 4 DUE UPDATED TO END AT PROJECT WINE REVISION PARCELS 3 AND 4. NOT DISTURB VAULT OR BACKFLOW PREVENTERS LABEL ADDED TO PARCEL 1.

MATCHLINE -L- STA. 23 + 00.00  
 SEE INSET A

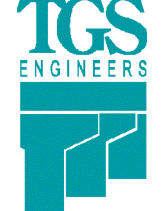



MATCHLINE -L- STA. 23 + 00.00  
 SEE SHEET RW04

MATCHLINE -Y2- STA. 14 + 00.00  
 SEE SHEET RW09

MATCHLINE -L- STA. 37 + 00.00  
 SEE SHEET RW05

-Y2-	-DR5-
PI Sta 17+53.37 Δ = 8° 31' 54.6" (RT) D = 5' 27' 24.3" L = 156.35' T = 78.32' R = 1,050.00' V = 40 MPH SE = .04	PI Sta 11+24.44 Δ = 50° 52' 47.8" (LT) D = 76' 23' 39.7" L = 66.60' T = 35.68' R = 75.00' V = 15 MPH SE = .02

PROJECT REFERENCE NO. B-6051U-6143	SHEET NO. RW05
<b>Location and Surveys</b>	
 <b>TGS ENGINEERS</b> 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH. (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
8/15/2023	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

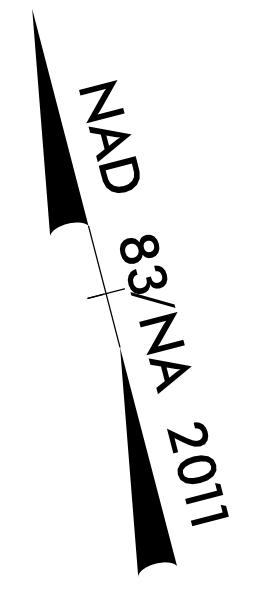
**NOTES:**

- 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 7/11/2023 TO 7/26/2023.

I, Matthew T. Cornwell, 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 7/11/2023 to 7/26/2023, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8/15/2023

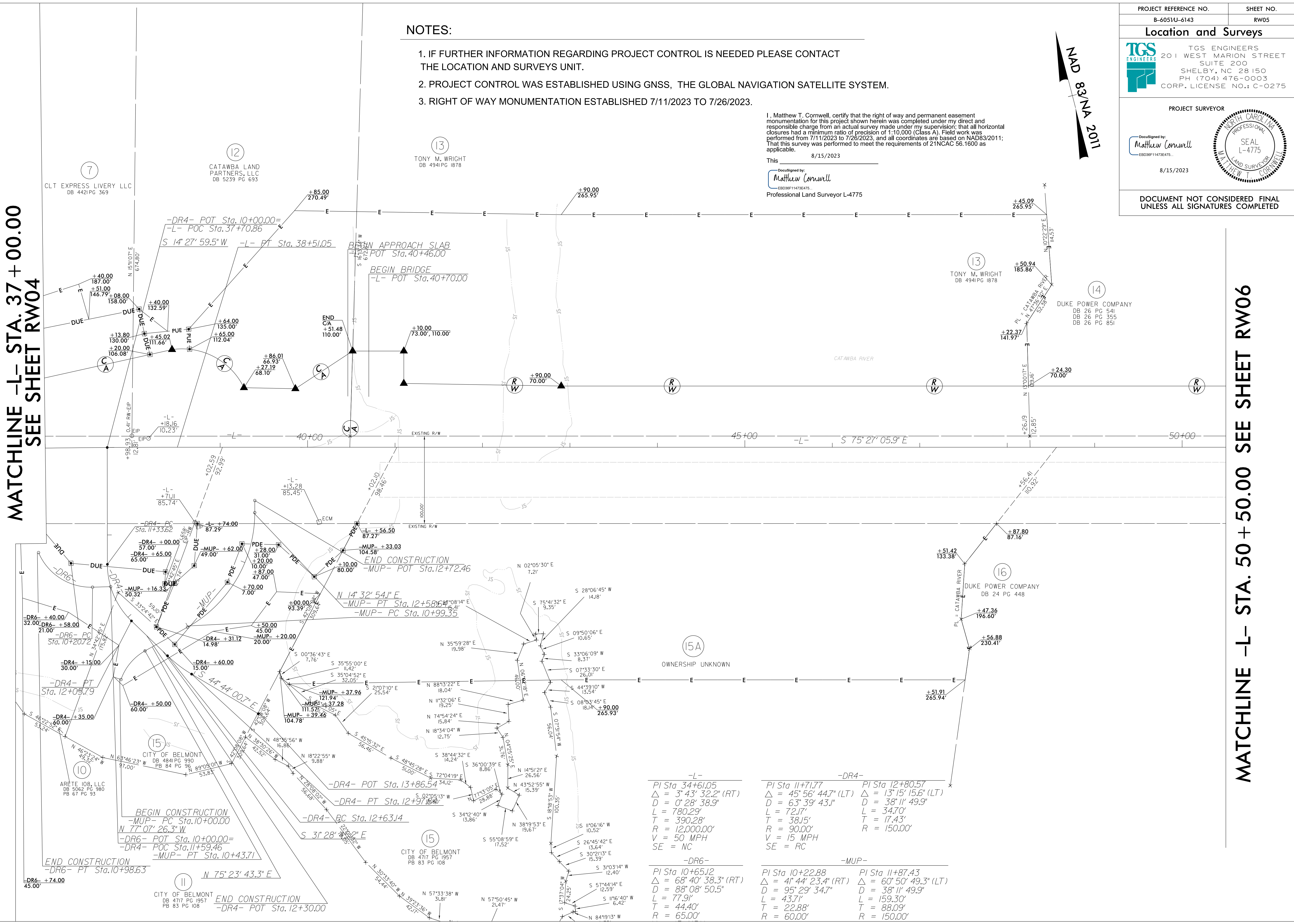
DocuSigned by:  
  
 Matthew Cornwell  
 E8038F11473E475  
 Professional Land Surveyor L-4775



**MATCHLINE -L- STA. 37+00.00  
SEE SHEET RW04**

**MATCHLINE -L- STA. 50+50.00 SEE SHEET RW06**

REVISIONS  
 15-AUG-2023 16:47  
 S:\S\Projects\ncdot\B-6051\2023 RW Striping\MTC-REVISED\_230814\_b6051.l.s\_rw05.dgn  
 MORNWELL\TOP



<p><b>-L-</b></p> <p>PI Sta 34+61.05  <math>\Delta = 3^{\circ} 43' 32.2''</math> (RT)  <math>D = 0^{\circ} 28' 38.9''</math>  <math>L = 780.29'</math>  <math>T = 390.28'</math>  <math>R = 12,000.00'</math>  <math>V = 50</math> MPH  <math>SE = NC</math></p>	<p><b>-DR4-</b></p> <p>PI Sta 11+71.77  <math>\Delta = 45^{\circ} 56' 44.7''</math> (LT)  <math>D = 63^{\circ} 39' 43.1''</math>  <math>L = 72.17'</math>  <math>T = 38.15'</math>  <math>R = 90.00'</math>  <math>V = 15</math> MPH  <math>SE = RC</math></p>	<p>PI Sta 12+80.57  <math>\Delta = 13^{\circ} 15' 15.6''</math> (LT)  <math>D = 38^{\circ} 11' 49.9''</math>  <math>L = 34.70'</math>  <math>T = 17.43'</math>  <math>R = 150.00'</math></p>
<p><b>-DR6-</b></p> <p>PI Sta 10+65.12  <math>\Delta = 68^{\circ} 40' 38.3''</math> (RT)  <math>D = 88^{\circ} 08' 50.5''</math>  <math>L = 77.91'</math>  <math>T = 44.40'</math>  <math>R = 65.00'</math></p>	<p>PI Sta 10+22.88  <math>\Delta = 41^{\circ} 44' 23.4''</math> (RT)  <math>D = 95^{\circ} 29' 34.7''</math>  <math>L = 43.71'</math>  <math>T = 22.88'</math>  <math>R = 60.00'</math></p>	<p>PI Sta 11+87.43  <math>\Delta = 60^{\circ} 50' 49.3''</math> (LT)  <math>D = 38^{\circ} 11' 49.9''</math>  <math>L = 159.30'</math>  <math>T = 88.09'</math>  <math>R = 150.00'</math></p>

MATCHLINE -L- STA. 37+00.00  
SEE SHEET RW04

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 11/18/24 TO 11/20/24. REVISED 3/31/2025.

-L-	-DR4-	-DR4-
PI Sta 34+61.05	PI Sta 11+71.77	PI Sta 12+80.57
$\Delta = 3^{\circ} 43' 32.2''$ (RT)	$\Delta = 45^{\circ} 56' 44.7''$ (LT)	$\Delta = 13^{\circ} 15' 15.6''$ (LT)
D = 0' 28' 38.9"	D = 63' 39' 43.1"	D = 38' 11' 49.9"
L = 780.29'	L = 72.17'	L = 34.70'
T = 390.28'	T = 38.15'	T = 17.43'
R = 12,000.00'	R = 90.00'	R = 150.00'
V = 50 MPH	V = 15 MPH	
SE = NC	SE = RC	
-DR6-	-MUP-	
PI Sta 10+65.12	PI Sta 10+22.88	PI Sta 11+87.43
$\Delta = 68^{\circ} 40' 38.3''$ (RT)	$\Delta = 41^{\circ} 44' 23.4''$ (RT)	$\Delta = 60^{\circ} 50' 49.3''$ (LT)
D = 88' 08' 50.5"	D = 95' 29' 34.7"	D = 38' 11' 49.9"
L = 77.9'	L = 43.71'	L = 159.30'
T = 44.40'	T = 22.88'	T = 88.09'
R = 65.00'	R = 60.00'	R = 150.00'
V = 15 MPH		
SE = RC		

MAD 83/NA 2011

PROJECT REFERENCE NO. B-6051U-6143 SHEET NO. RW05A

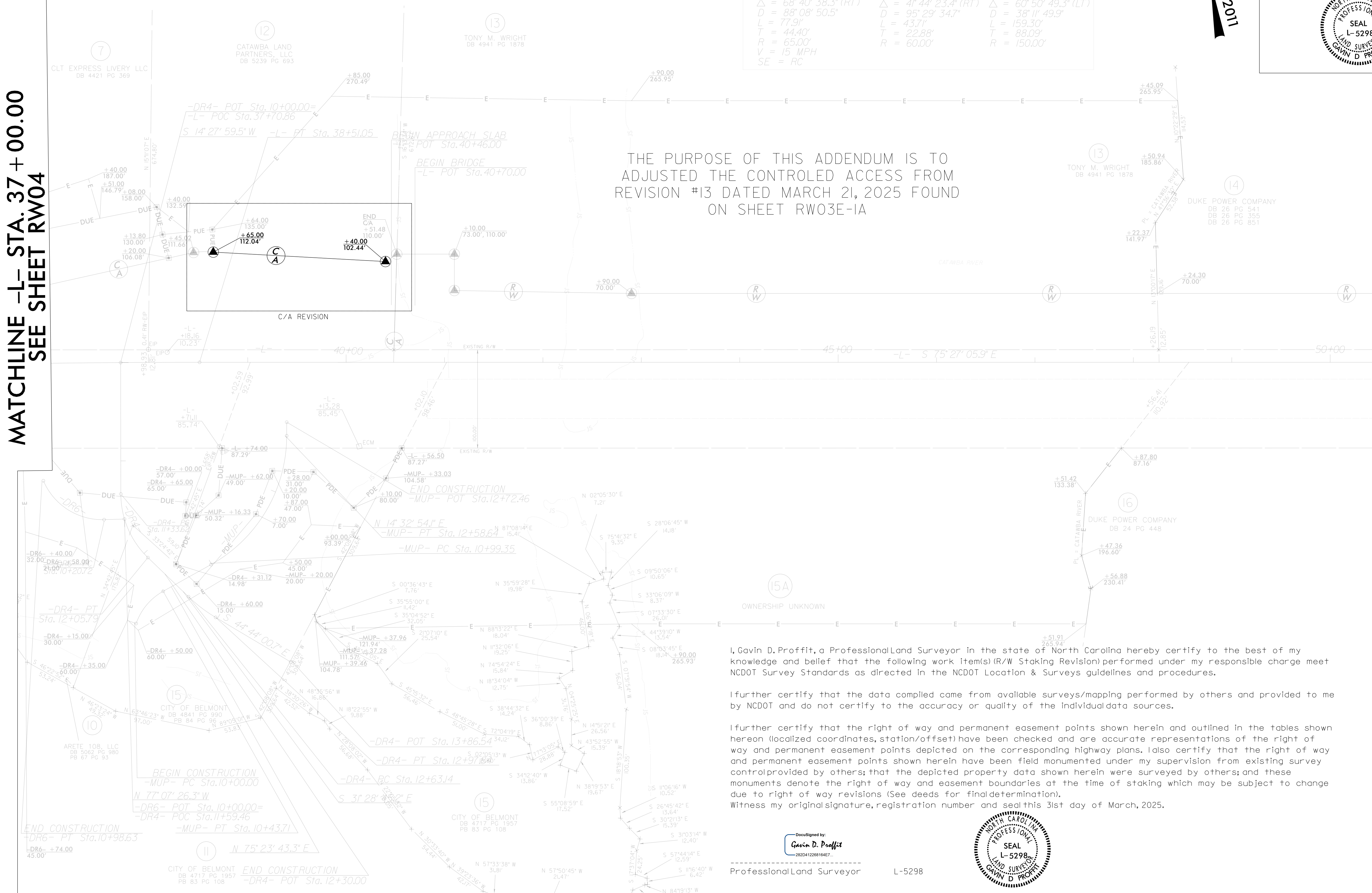
**Location and Surveys**

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION 12 LOCATION AND SURVEYS  
2312 KINGS ROAD EXTENSION  
SHELBY NC 28150

PROJECT SURVEYOR

PROFESSIONAL SEAL  
L-5298  
GAVIN D. PROFFIT

DocuSigned by:  
Gavin D. Proffit  
282041228164E7...



THE PURPOSE OF THIS ADDENDUM IS TO ADJUSTED THE CONTROLLED ACCESS FROM REVISION #13 DATED MARCH 21, 2025 FOUND ON SHEET RW03E-IA

I, Gavin D. Proffit, 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) (R/W Staking Revision) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

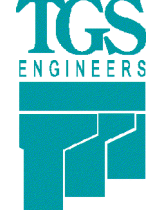


I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).  
Witness my original signature, registration number and seal this 31st day of March, 2025.

DocuSigned by:  
Gavin D. Proffit  
282041228164E7...



MATCHLINE -L- STA. 50+50.00 SEE SHEET RW06

PROJECT REFERENCE NO. B-6051U-6143	SHEET NO. RW06
<b>Location and Surveys</b>	
 <b>TGS ENGINEERS</b> 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
DocuSigned by:  EBO08F11473E475... 8/15/2023	
	

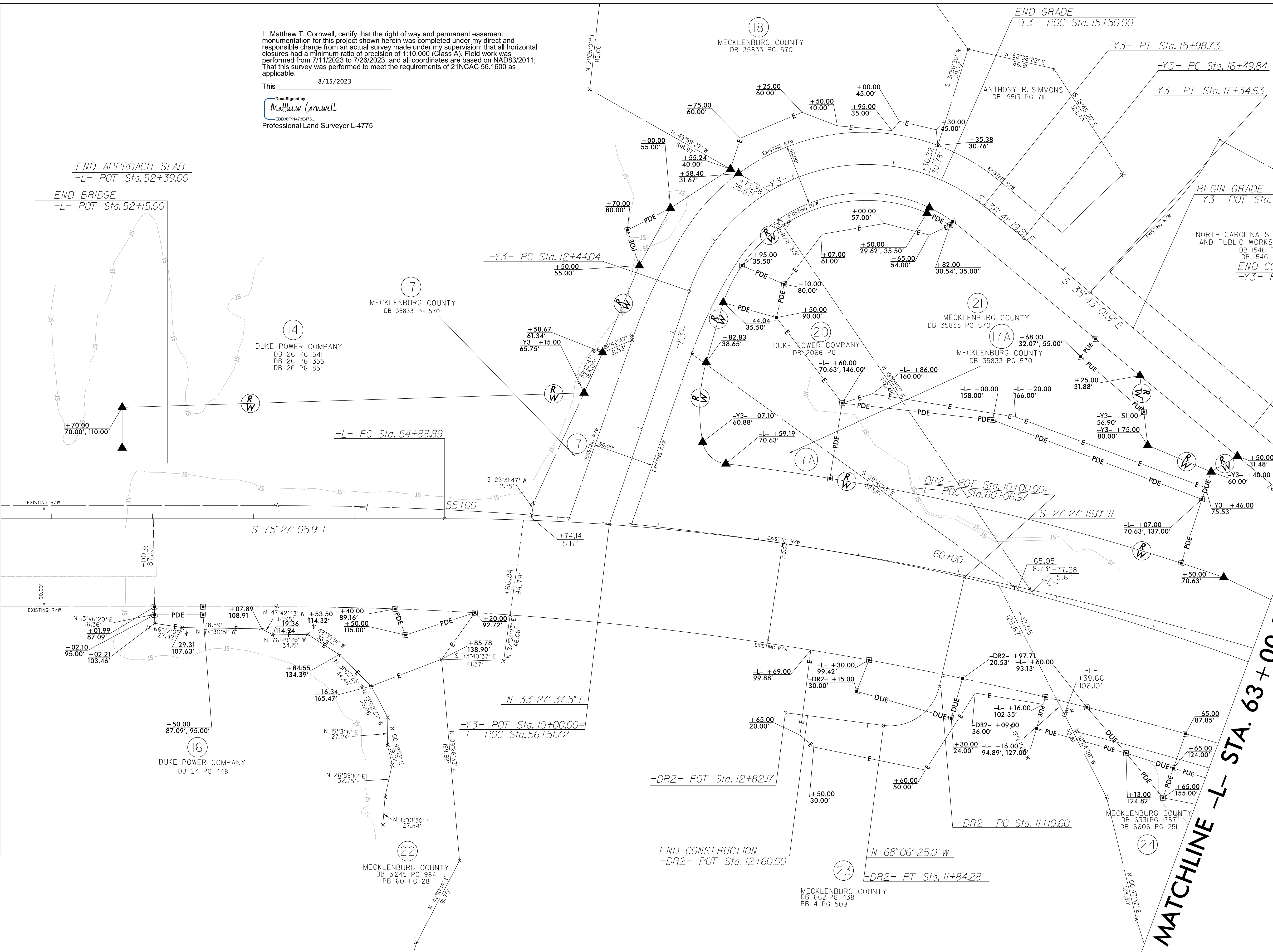
I, Matthew T. Cornwell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 7/11/2023 to 7/26/2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8/15/2023

DocuSigned by:  
 Matthew Cornwell  
 EBO08F11473E475...  
 Professional Land Surveyor L-4775

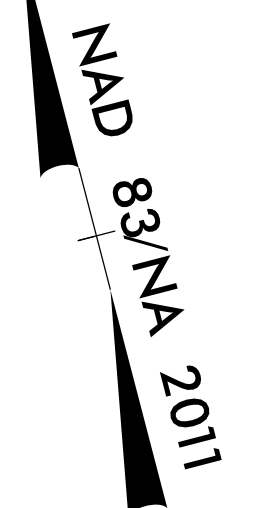
MATCHLINE -L- STA. 50 + 50.00 SEE SHEET RW05

MATCHLINE -L- STA. 63 + 00.00 SEE SHEET RW07



NORTH CAROLINA STATE HIGHWAY AND PUBLIC WORKS COMMISSION  
 DB 1546 PG 46  
 DB 1546 PG 4  
 END CONSTRUCTION  
 -Y3- POT Sta. 19+43.53

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



-L-	-Y3-	-DR2-
PI Sta 61+42.81	PI Sta 15+07.52	PI Sta 11+55.96
$\Delta = 3^\circ 44' 32.4''$ (RT)	$\Delta = 109^\circ 51' 02.8''$ (RT)	$\Delta = 84^\circ 26' 19.0''$ (RT)
D = 2' 29' 28.0"	D = 30' 58' 14.5"	D = 114' 35' 29.6"
L = 1,274.22'	L = 354.69'	L = 73.69'
T = 653.92'	T = 263.48'	T = 45.37'
R = 2,300.00'	R = 185.00'	R = 50.00'
V = 50 MPH	V = 25 MPH	V = 15 MPH
SE = .03	SE = .04	SE = RC

**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 7/11/2023 TO 7/26/2023.

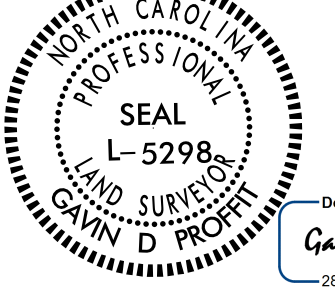
REVISIONS

15-AUG-2023 17:18  
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 Matthew T. Cornwell

Location and Surveys

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
DIVISION 12 LOCATION AND SURVEYS  
2312 KINGS ROAD EXTENSION  
SHELBY NC 28150

PROJECT SURVEYOR



DocuSigned by:  
Gavin D. Proffitt  
282D412268164E7...

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

I, Gavin D. Proffitt, 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 10/7/2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of October, 2024

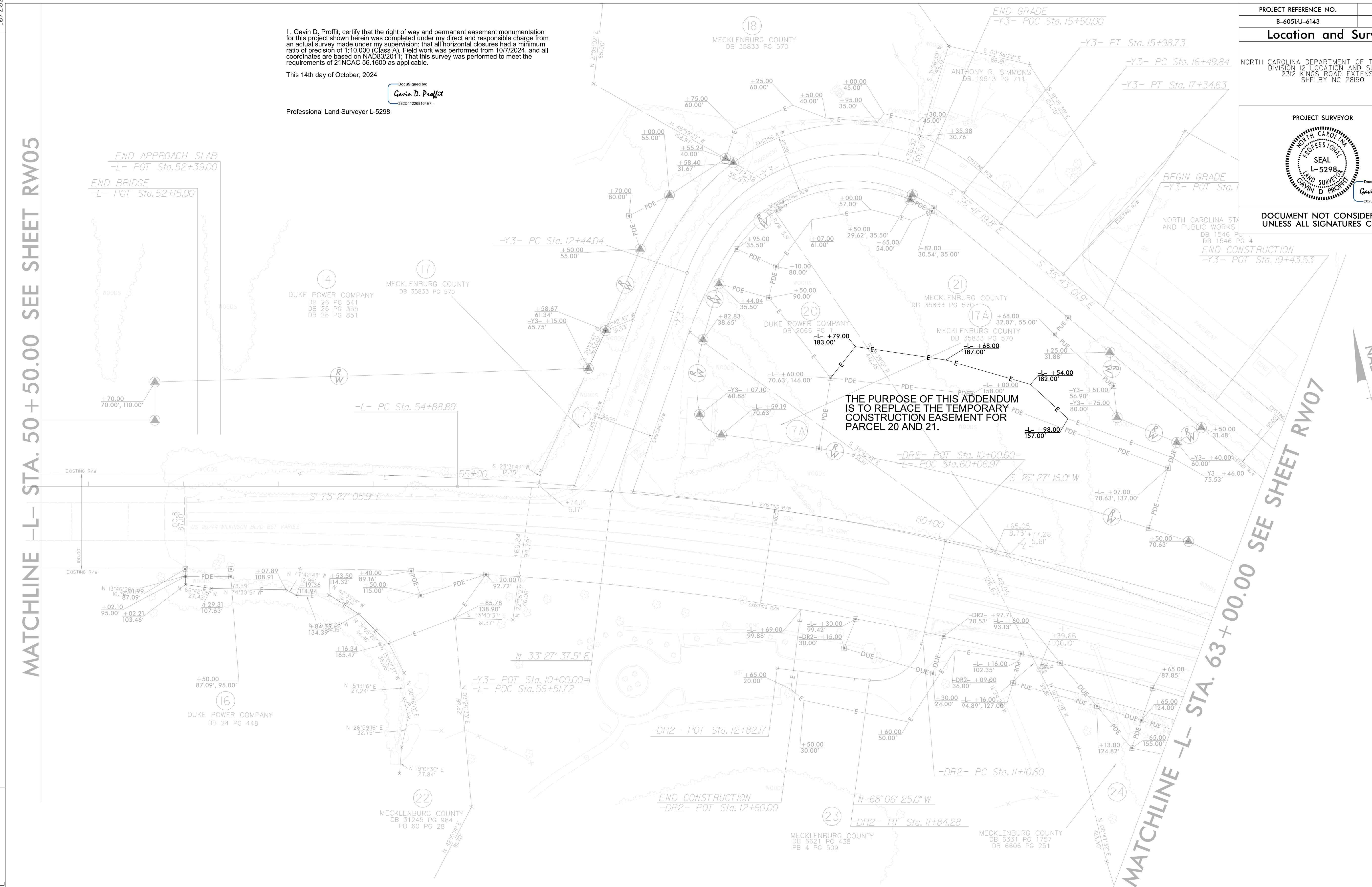
DocuSigned by:  
Gavin D. Proffitt  
282D412268164E7...

Professional Land Surveyor L-5298

MATCHLINE -L- STA. 50 + 50.00 SEE SHEET RW05

MATCHLINE -L- STA. 63 + 00.00 SEE SHEET RW07

THE PURPOSE OF THIS ADDENDUM IS TO REPLACE THE TEMPORARY CONSTRUCTION EASEMENT FOR PARCEL 20 AND 21.



REVISIONS

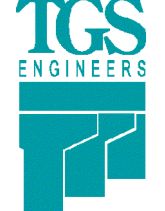


RIGHT OF WAY REVISION 9-23-2024 - TCE UPDATED FOR PARCEL 20 & PARCEL 21

I:\01-2024\_06577\1\Desktop\Working Folder\B-6051\Gavin\6051.Ls.rw06A.dgn  
C:\Users\gdp\OneDrive\AT LS-296521  
gdp\off.t

-L-	-Y3-	-DR2-
PI Sta 61+42.81	PI Sta 15+07.52	PI Sta 11+55.96
Δ = 31' 44" 32.4" (RT)	Δ = 109' 51" 02.8" (RT)	Δ = 84' 26" 19.0" (RT)
D = 2' 29" 28.0"	D = 30' 58" 14.5"	D = 114' 35" 29.6"
L = 1,274.22'	L = 354.69'	L = 73.69'
T = 653.92'	T = 263.48'	T = 45.37'
R = 2,300.00'	R = 185.00'	R = 50.00'
V = 50 MPH	V = 25 MPH	V = 15 MPH
SE = .03	SE = .04	SE = RC

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 10/7/2024.

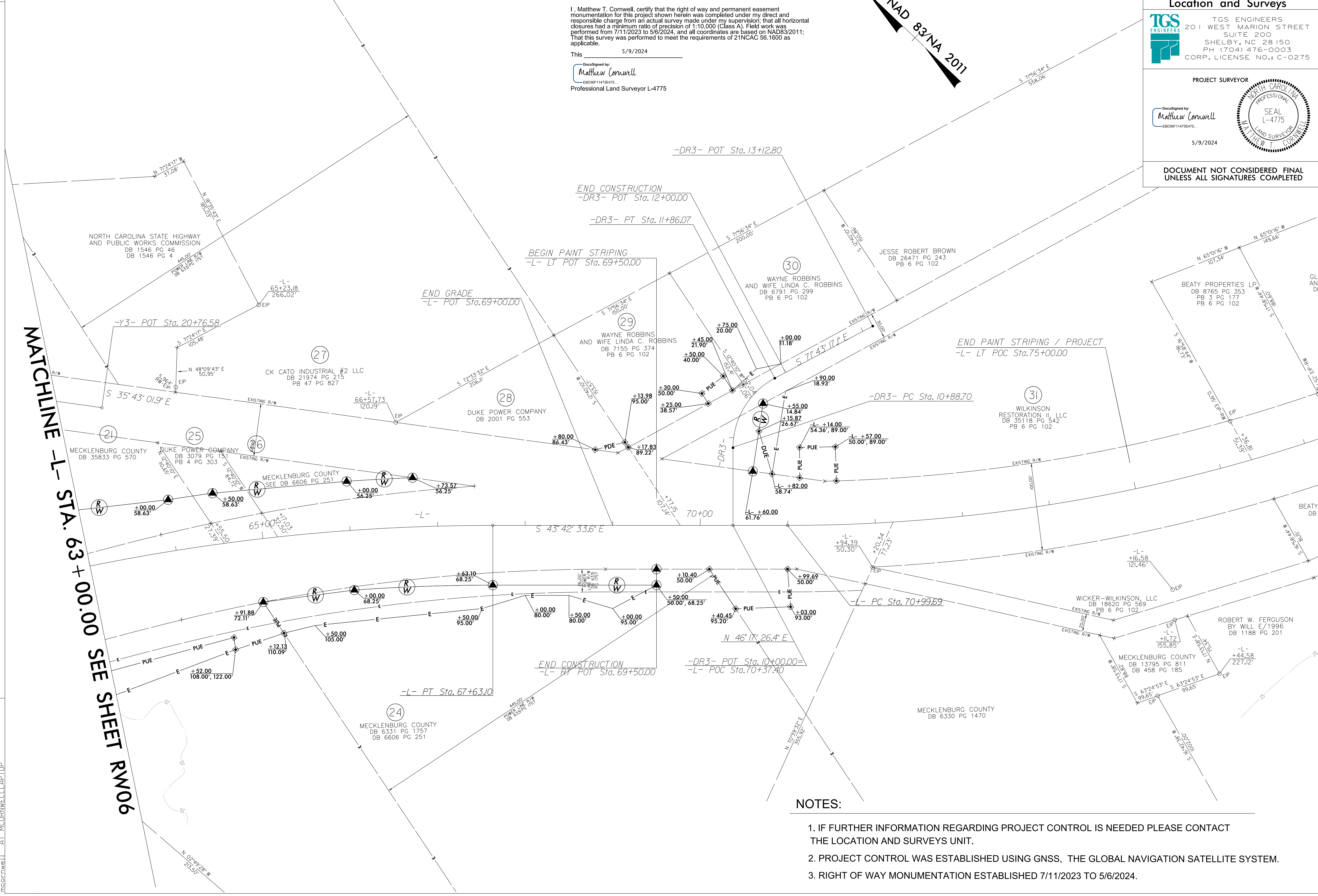
PROJECT REFERENCE NO. B-6051U-6143	SHEET NO. RW07
<b>Location and Surveys</b>	
 <b>TGS ENGINEERS</b> 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
DocuSigned by:  E80296F1473E475... 5/9/2024	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, 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 7/11/2023 to 5/6/2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 5/9/2024  
 DocuSigned by:  
 Matthew Cornwell  
 E80296F1473E475...  
 Professional Land Surveyor L-4775

NAD 83/NA 2011

REVISIONS  
 RIGHT OF WAY REVISION 5-5-2023 - ROW/EASEMENTS ADJUSTED PER RECEIVING DUKE'S PUE'S. REVISED FOR PARCELS 24 AND 31.  
 RIGHT OF WAY REVISION 8-11-2023 - ROW/EASEMENT FLAGS PREVIOUSLY CALLING OUT "EX ROW" WHERE TYPING TO EXISTING ROW LINE FROM FS FILE HAVE BEEN UPDATED TO SHOW OFFSET DISTANCE IN FEET.  
 RIGHT OF WAY REVISION 8-11-2023 - MISSING PROPERTY LINE ADDED TO ENCLOSE PARCEL 28 ADJACENT TO PARCEL 27.  
 RIGHT OF WAY REVISION 8-11-2023 - PARCEL 31 OWNER IDENTIFICATION TEXT UPDATED. PARCEL OWNER NOW - WILKINSON RESTORATION II, LLC.  
 RIGHT OF WAY REVISION 12-14-2023 - RIGHT OF WAY ADDED -DR3- RT, DUE ADJUSTED TO THE INTO NEW RIGHT OF WAY LINE.



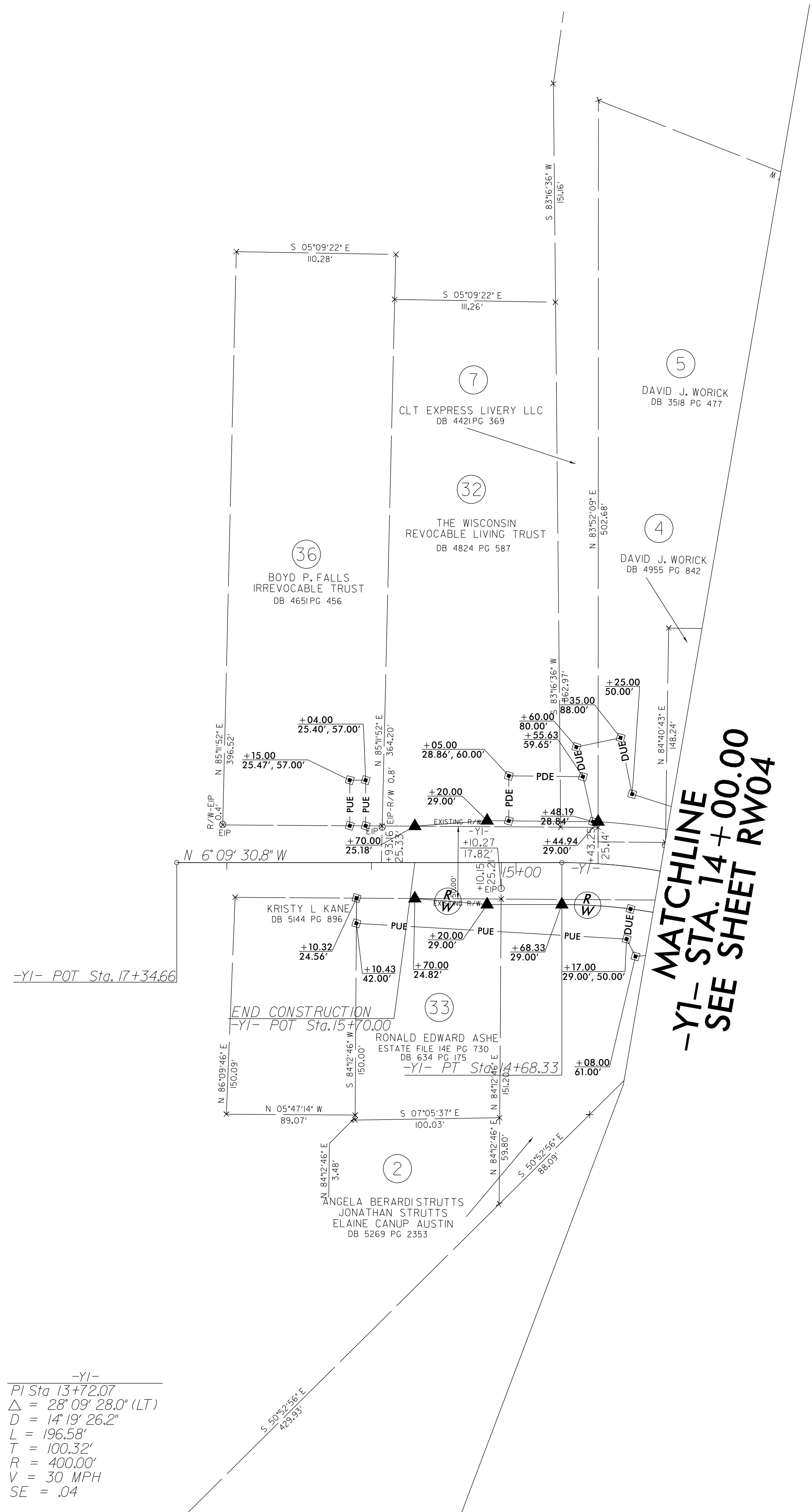
**NOTES:**

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 7/11/2023 TO 5/6/2024.

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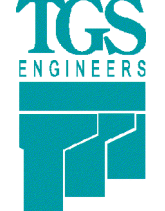


REVISIONS

15-AUG-2023 17:07  
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A:\McORNEWELL\TOP




-YI-  
 PI Sta 13+72.07  
 $\Delta = 28^{\circ} 09' 28.0''$  (LT)  
 $D = 14' 19'' 26.2''$   
 $L = 196.58'$   
 $T = 100.32'$   
 $R = 400.00'$   
 $V = 30$  MPH  
 $SE = .04$

NAD 83/NA 2011

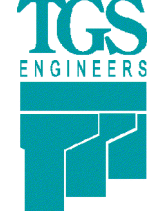


PROJECT REFERENCE NO. B-6051U-6143	SHEET NO. RW08
<b>Location and Surveys</b>	
 TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
DocuSigned by:  E8D36F11473E475...	
8/15/2023	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, 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 7/11/2023 to 7/26/2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8/15/2023  
 DocuSigned by:  
  
 E8D36F11473E475...  
 Professional Land Surveyor L-4775

NOTES:

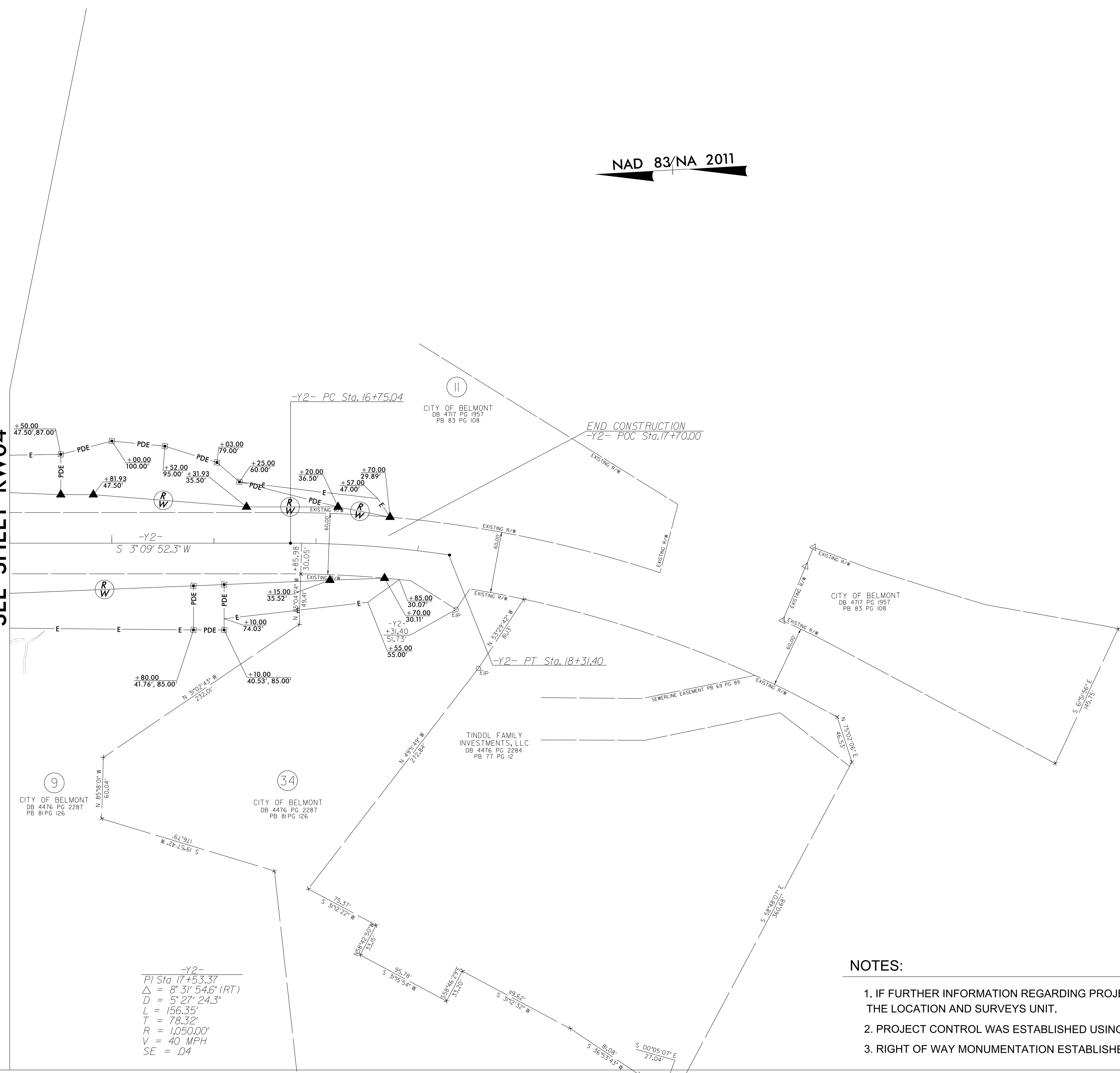
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 7/11/2023 TO 7/26/2023.

PROJECT REFERENCE NO. B-6051U-6143	SHEET NO. RW09
<b>Location and Surveys</b>	
 TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
DocuSigned by:  EBD38F11473E475...	
8/15/2023	
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REVISIONS

MATCHLINE  
-Y2- STA. 14 + 00.00  
SEE SHEET RW04




-Y2-  
 PI Sta 17+53.37  
 $\Delta = 8' 31'' 54.6'' (RT)$   
 $D = 5' 27'' 24.3''$   
 $L = 156.35'$   
 $T = 78.32'$   
 $R = 1,050.00'$   
 $V = 40 MPH$   
 $SE = .04$

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15-AUG-2023 17:13  
 S:\S\Projects\ncdot\B-6051\2023 RW Spiking\MTC-REVISED\_230814\6051.Ls\_rw09.dgn  
 Matthew T. Cornwell