

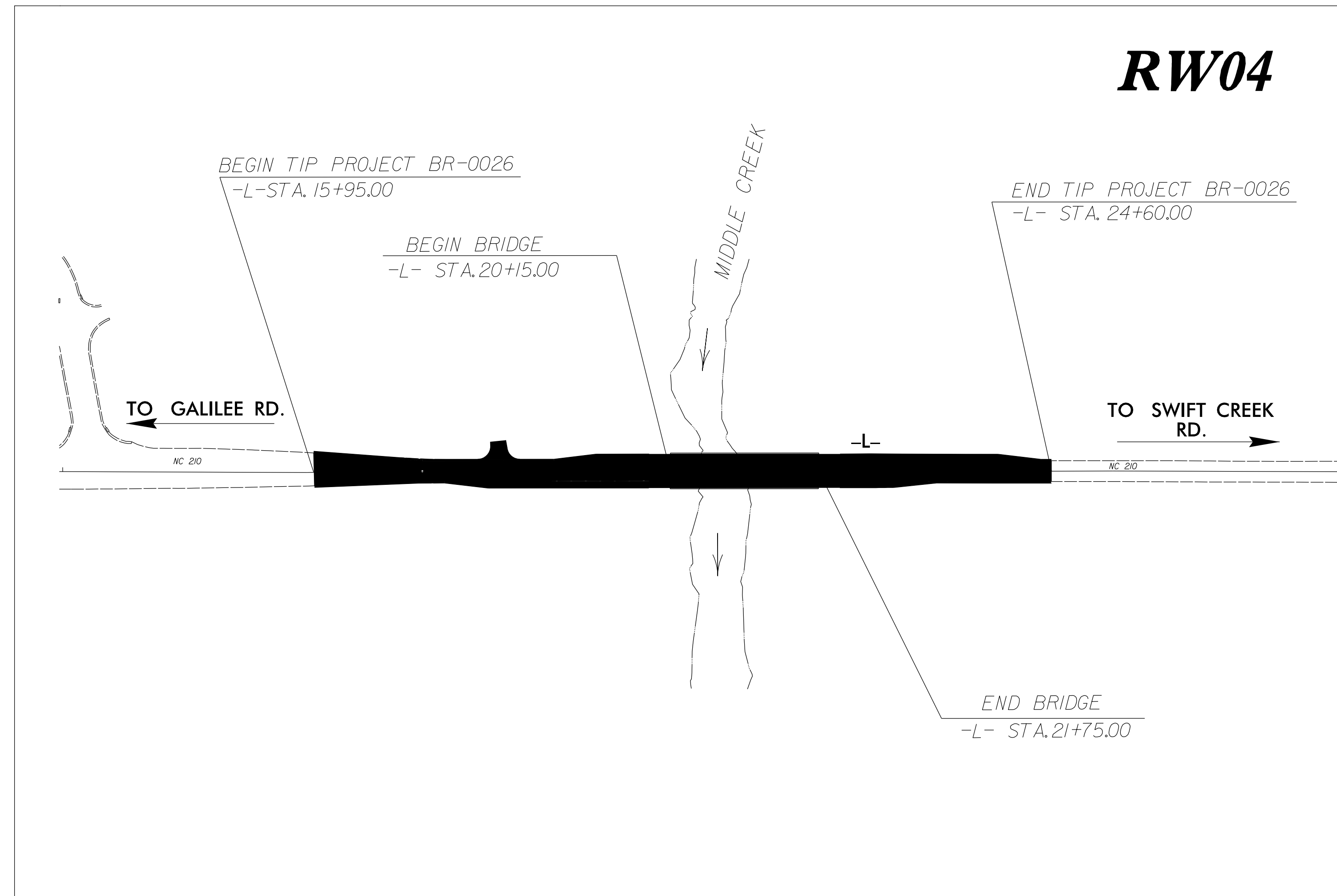
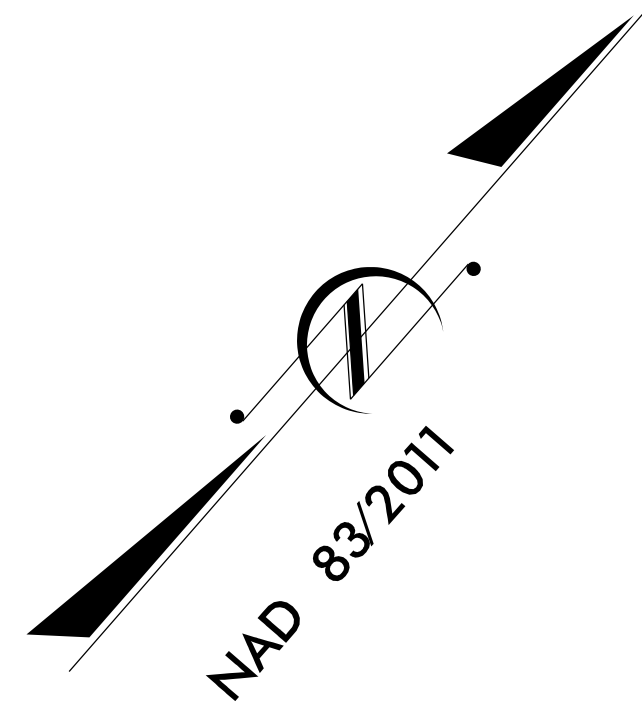
TIP PROJECT: BR-0026

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0026	RW01	

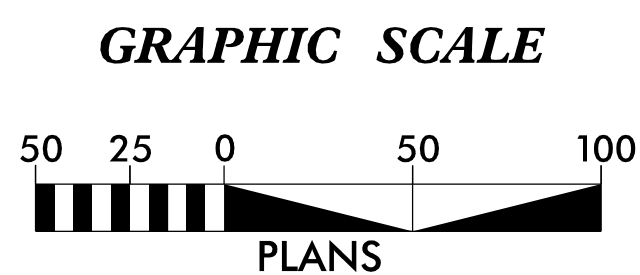
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

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

**JOHNSTON COUNTY**



28 JUN-2022 10:24  
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debbby.cole AT CLT-E-1198



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "W5601BX-2" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 638,148.350(ft) EASTING: 2,175,450.355(ft) ELEVATION: 197.789(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9998779769 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM W-5601BX-2 TO -L- STATION 15+95 IS N 51°42'55.8" E 2911.97(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD (88)

Prepared in the Office of:

COLLIERS ENGINEERING & DESIGN  
5275 PARKWAY PLAZA BOULEVARD,  
SUITE 100  
CHARLOTTE, NC 28217

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
04/26/2022

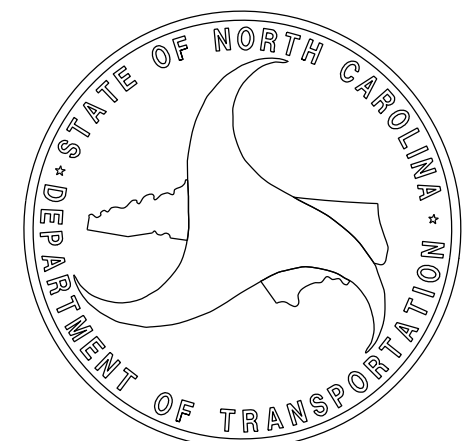
**LETTING DATE:**  
01/16/2024

PROFESSIONAL LAND  
SURVEYOR



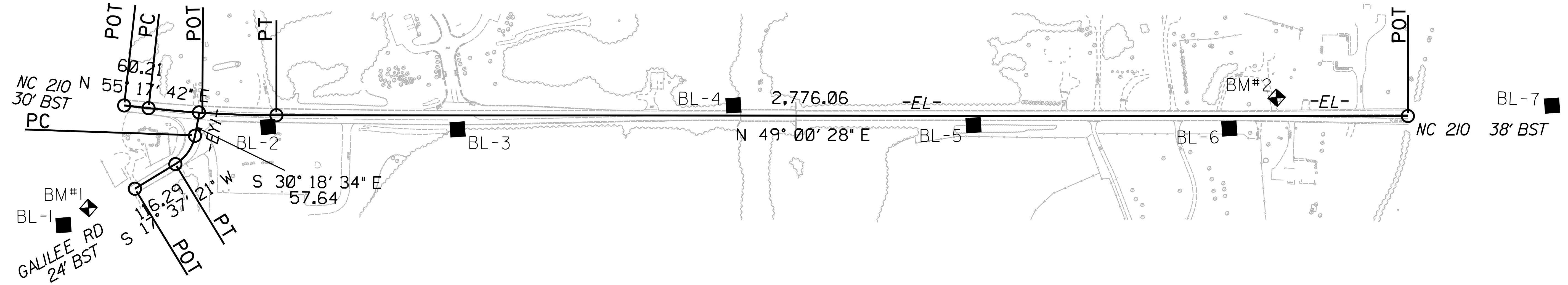
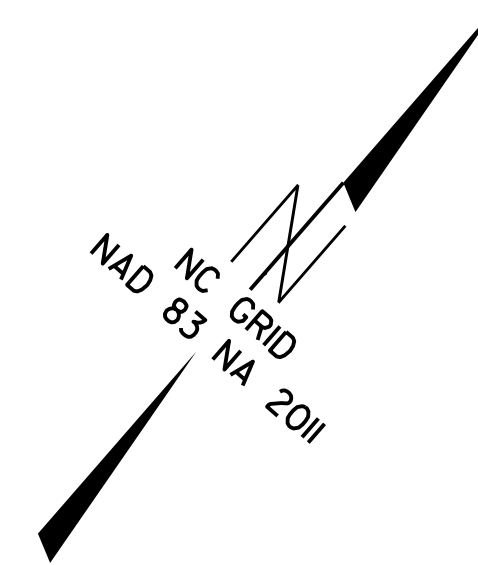
*Chris E. Morelli*  
SIGNATURE:

06/30/2022  
Date:



# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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

**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.

6/2/09  
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6/2/99

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. BR0026	SHEET NO. RW02C-2
Location and Surveys	

BL POINT	DESC.	NORTH	EAST	ELEVATION
101	BR0026 BL-101	638945.2650	2176988.5550	197.39
102	BR0026 BL-102	639456.7340	2177209.0560	179.55
103	BR0026 BL-103	639761.9660	2177559.7050	151.65
104	BR0026 BL-104	640244.0120	2178045.6150	126.01
105	BR0026 BL-105	640600.6020	2178504.8740	124.53
106	BR0026 BL-106	641004.9410	2178971.6040	127.34
107	BR0026 BL-107	641564.4310	2179550.4640	129.47

\*\*\*\*\*  
 BM1 ELEVATION = 197.89  
 N 639017 E 2177007  
 BL STATION 5+74.00 11 LEFT  
 BENCHNAIL IN BASE OF 24" OAK  
 \*\*\*\*\*  
 \*\*\*\*\*  
 BM2 ELEVATION = 132.51  
 N 641135 E 2179029  
 BL STATION 35+37.00 54 LEFT  
 BENCHNAIL IN BASE OF 18" OAK  
 \*\*\*\*\*

REVISIONS

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	639264.614	2176908.188							
LINE			N 55°17'41.9" E	60.21					
PC	639298.895	2176957.688							
CURVE			N 52°09'05.2" E	314.20	06°17'13.4"(LT)	02°00'00.0"	314.35	157.33	2864.79
PT	639491.678	2177205.787							
LINE			N 49°00'28.5" E	2776.06					
POT	641312.650	2179301.160							

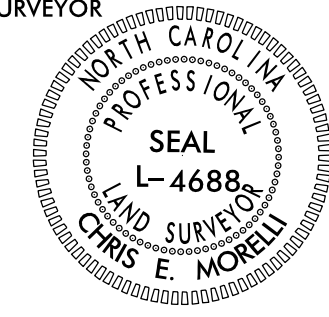
EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	639372.405	2177059.025							
LINE			S 30°18'33.6" E	57.64					
PC	639322.644	2177088.113							
CURVE			S 06°20'36.1" E	84.63	47°55'54.9"(RT)	55°00'00.0"	87.15	46.31	104.17
PT	639238.533	2177097.464							
LINE			S 17°37'21.3" W	116.29					
POT	639127.697	2177062.257							

NOTES:

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- 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.

6/2/99

# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. BR-0026	SHEET NO. RW02D-1
<b>Location and Surveys</b>	
COLLIERS ENGINEERING & DESIGN 5275 PARKWAY PLAZA BOULEVARD, SUITE 100 CHARLOTTE, NC 28217	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS


TYPE	STATION	L	
		NORTH	EAST
POT	10+00.00	639561.9925	2177286.6975
POT	36+68.87	641312.6501	2179301.1604

**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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REVISIONS


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debbys@le AT CT-E-1798

PROJECT REFERENCE NO.	SHEET NO.
BR-0026	RW03E-1
<b>Location and Surveys</b>	
COLLIERS ENGINEERING & DESIGN 5275 PARKWAY PLAZA BOULEVARD, SUITE 100 CHARLOTTE, NC 28217	
PROJECT SURVEYOR	
	
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NOTES:

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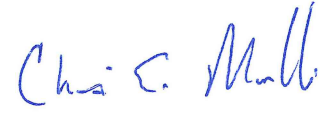
# PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO. BR-0026	SHEET NO. RW03E-2
Location and Surveys	
COLLIERS ENGINEERING & DESIGN 5275 PARKWAY PLAZA BOULEVARD, SUITE 100 CHARLOTTE, NC 28217	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Chris E. Morelli, 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) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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 1st day of July, 2022.

  
 \_\_\_\_\_  
 Professional Land Surveyor      PLS      L-4688      Seal

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	15+40.00	30.00	639893.5641	2177713.9683
L	15+40.00	40.00	639886.0161	2177720.5278
L	15+95.00	70.00	639899.4496	2177781.7205
L	16+50.00	70.00	639935.5271	2177823.2345
L	17+00.00	-50.00	640058.9009	2177782.2599
L	17+00.00	-65.00	640070.2229	2177772.4206
L	17+45.00	-50.00	640088.4189	2177816.2259
L	17+50.00	60.00	640008.6706	2177892.1549
L	17+57.00	-68.00	640109.8767	2177813.4763
L	18+05.00	-55.00	640131.5501	2177858.2341
L	18+05.00	-50.00	640127.7761	2177861.5139
L	18+05.00	-70.00	640142.8721	2177848.3948
L	18+50.00	-80.00	640179.9381	2177875.8013
L	18+50.00	-55.00	640161.0681	2177892.2002
L	18+50.00	70.00	640066.7181	2177974.1945
L	19+50.00	-85.00	640249.3076	2177948.0015
L	19+50.00	100.00	640109.6696	2178069.3532
L	19+90.00	-90.00	640279.3198	2177974.9138
L	21+35.00	75.00	640249.8912	2178192.5923
L	22+15.00	55.00	640317.4636	2178239.8572
L	22+15.00	-78.00	640417.8520	2178152.6153
L	22+15.00	-50.00	640396.7176	2178170.9820
L	22+15.00	75.00	640302.3676	2178252.9763

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

REVISIONS

Location and Surveys

COLLIERS ENGINEERING & DESIGN  
5275 PARKWAY PLAZA BOULEVARD,  
SUITE 100  
CHARLOTTE, NC 28217

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

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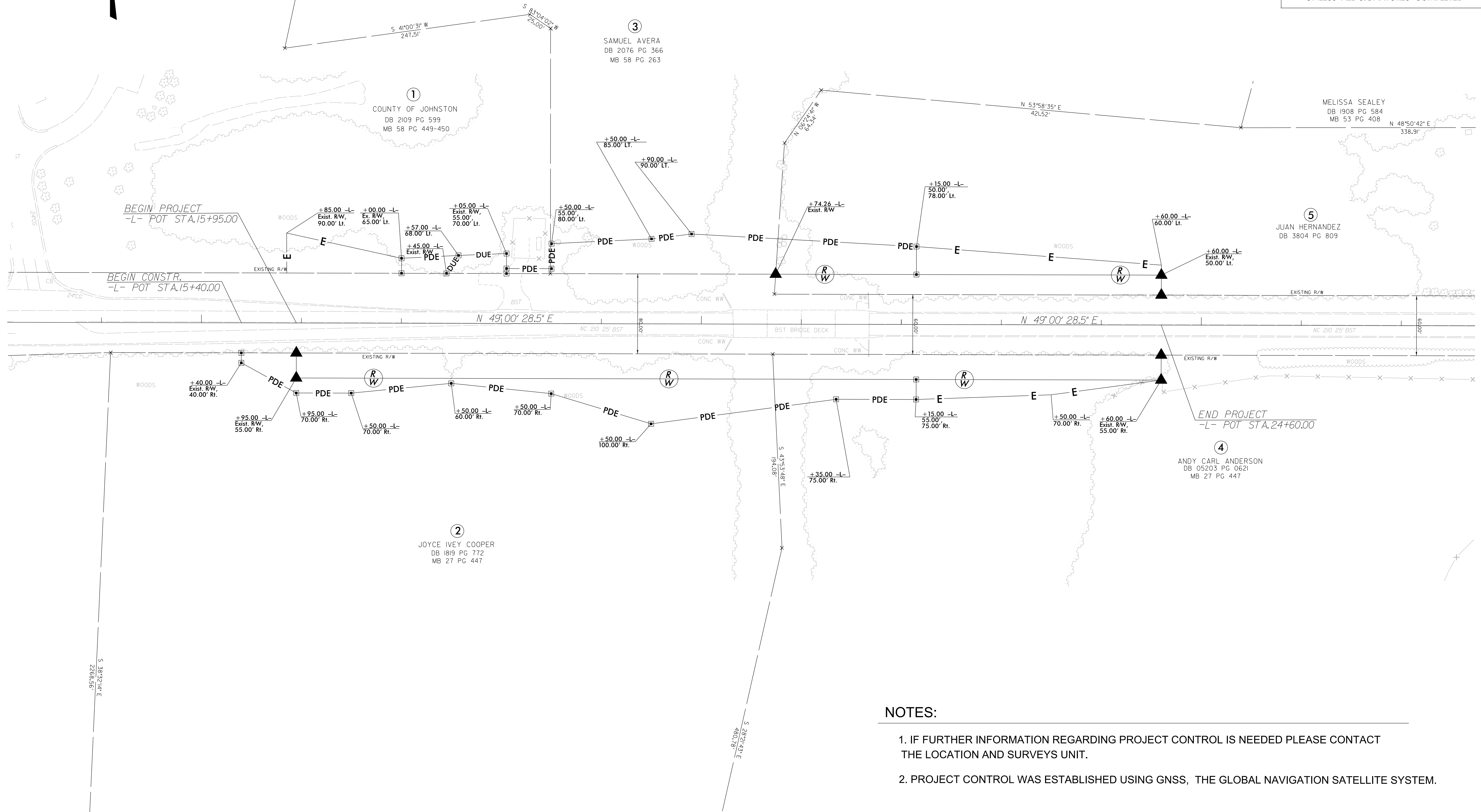
Professional Land Surveyor PLS

L-4688

Seal



REVISIONS



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