

09/08/99

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0060	RW01	

TIP PROJECT: BR-0060

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

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

**ALAMANCE COUNTY**

NC GRID  
NAD 83 NA 2011

BEGIN STATE TIP PROJECT BR-0060  
-L- STA 12+16.55

BEGIN CONSTRUCTION  
-L- STA 11+49.63

TO LEWIS RD

BEGIN BRIDGE  
-L- STA 20+04.00

END BRIDGE  
-L- STA 22+34.00

-DR1- POT Sta. 10+00.00

4

-DR1- PC Sta. 11+89.48

-DR1- PT  
Sta. 12+68.02

-DR1- POT Sta. 12+87.02  
-L- POT Sta. 26+50.00

END STATE TIP PROJECT BR-0060  
-L- STA 34+64.00

END CONSTRUCTION  
-L- STA 35+16.10

TO GREENHILL RD

5

GRAPHIC SCALE



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BR0060-2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 776,674.268(ft) EASTING: 1,912,588.913(ft) ELEVATION: 432.52(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99991740 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BR0060-2" TO -L- STATION 12+16.55 IS N 32° 51' 53.9" W Distance 1,344.57(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

**Dewberry**  
Dewberry Engineers Inc.

551 PINEY FOREST ROAD  
DANVILLE, VA 24540  
PHONE: 434.797.4497  
FAX: 434.797.4341  
NCBELS #F-0929

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
3/27/2023

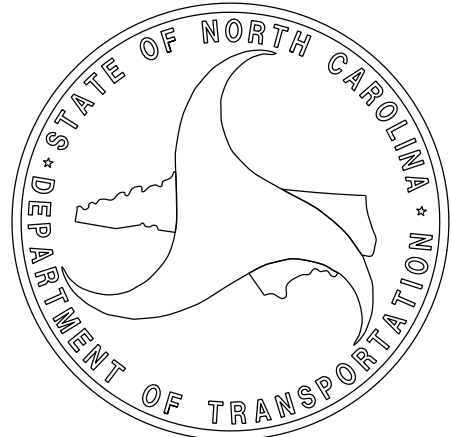
LETTING DATE:  
2/17/26

PROFESSIONAL LAND  
SURVEYOR



Signed by:  
W. B. Powell  
SIGNATURE:

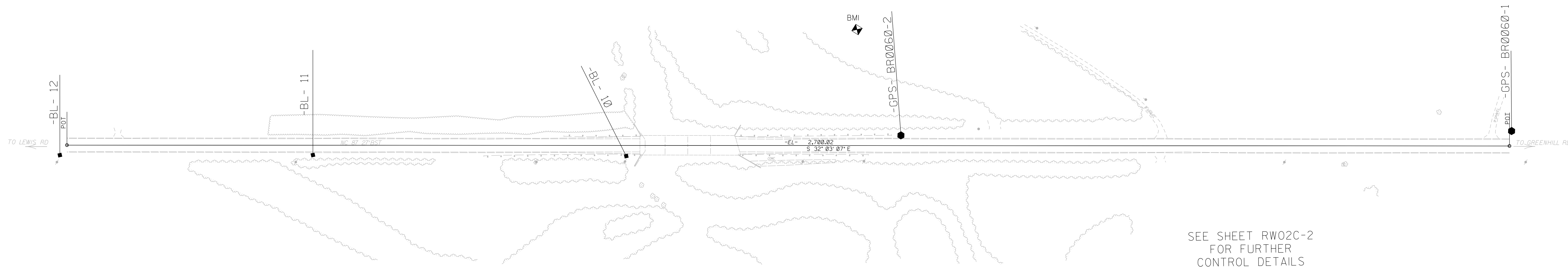
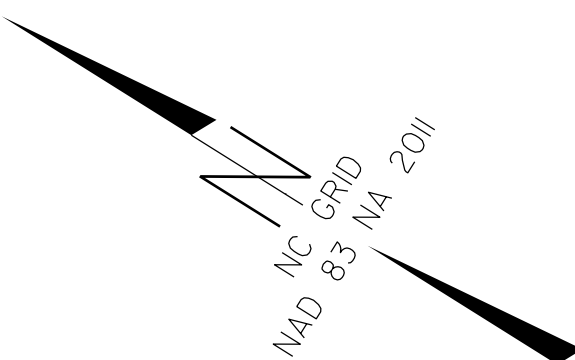
12/1/2025  
Date:





01-DEC-2025 08:39  
P:\5086879\CADD\Survey\br-0060\_ls\_rw01\_250310.dgn  
caddkins AT BFTW94



***SURVEY CONTROL SHEET***  
***W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION***



PROJECT REFERENCE NO.	SHEET NO.
BR-0060	RW02C-1
<h1>Location and Surveys</h1>	
 <b>Dewberry</b> <sup>®</sup>	
Dewberry Engineers Inc.	
551 PINEY FOREST ROAD DANVILLE, VA 24540 PHONE: 434.797.4497 FAX: 434.797.4341 NCBEL #F-0929	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, William B. Powell, 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: MARCH 2025  
Datum/Epoch: NAD 83/ NA 2011  
Published/Fixed-control use: N/A  
Localized around: BR0060-2  
Northing: 776674.27  
Easting: 1912588.91  
Combined grid factor: 0.99991740  
Geoid model: G12ANC  
Units: SURVEY FT

It also certifies 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 3/3/25 to 3/7/25, 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 10th day of March, 2025.

Signed by:  
  
 A1C58B2AFABA4A0...  
 Professional Land Surveyor L- 5664

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.
BR-0060	RW02C-2
<h1>Location and Surveys</h1>	
<div style="display: flex; align-items: center; justify-content: center;"> <div> <h2 style="margin: 0;">Dewberry®</h2> <p style="margin: 0;">Dewberry Engineers Inc.</p> </div> </div> <div style="margin-top: 10px; text-align: center;"> <p>551 PINEY FOREST ROAD              DANVILLE, VA 24540              PHONE: 434.797.4497              FAX: 434.797.4341              NCBELS #F-0929</p> </div>	
<p>PROJECT SURVEYOR</p>	
<p>DOCUMENT NOT CONSIDERED FINAL              UNLESS ALL SIGNATURES COMPLETED</p>	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
12		BL - 12	777988.4629	1911721.4155	451.11
11		BL - 11	777587.2300	1911973.1724	441.23
10		BL - 10	777089.3153	1912283.0256	434.79
2		BR0060-2	776674.2680	1912588.9130	432.49
1		BR0060-1	775710.1800	1913202.9330	480.73

I, William B. Powell, 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: MARCH 2025  
Datum/Epoch:NAD 83/ NA 2011  
Published/Fixed-control-use: N/A  
Localized around: BR0060-2  
Northing:776674.27  
Easting:1912588.91  
Combined grid factor:0.99991740  
Geoid model:G12ANC  
Units:SURVEY FT

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 3/3/25 to 3/7/25 , 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 10th day of March, 2025.

Signed by:  
W.B. Powell  
A1C58B2AFAA4A0

Professional Land Surveyor L- 5664

[illegible]

BM1 ELEVATION = 430.60

N 776849                      E 1912713

BL STATION 20+09.00 203 LEFT

RAILROAD SPIKE IN A 15" OAK

[illegible]

EL				
POINT	N	E	BEARING	DIST
POT	777987.186	1911744.345		
LINE			S 32°03'06.6" E	2700.02
POT	775698.736	1913177.207		

NOTES:

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



REVISIONS

PROPOSED ALIGNMENT CONTROL SHEET

L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	777987.1858	1911744.3451
POT	37+00.02	775698.7360	1913177.2071

DET			
TYPE	STATION	NORTH	EAST
POT	10+00.00	777987.1858	1911744.3451
PC	13+20.17	777715.8215	1911914.2539
PRC	17+21.94	777393.0840	1912152.8819
PT	19+81.55	777184.5460	1912307.0723
PC	28+99.25	776406.7383	1912794.0793
PRC	31+37.32	776193.7861	1912899.6428
PT	34+15.07	775945.3419	1913022.8003
POT	37+06.02	775698.7360	1913177.2071

DR1			
TYPE	STATION	NORTH	EAST
POT	10+00.00	776828.2931	1912551.3694
PC	11+89.48	776667.6937	1912651.9251
PT	12+68.02	776598.7809	1912636.0810
POT	12+87.02	776588.6979	1912619.9772


NOTES:

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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.

PROJECT REFERENCE NO.  
BR-0060

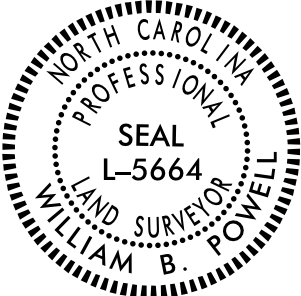
SHEET NO.  
RW02D-1

Location and Surveys

**Dewberry**<sup>®</sup>  
Dewberry Engineers Inc.

551 PINEY FOREST ROAD  
DANVILLE, VA 24540  
PHONE: 434.797.4487  
FAX: 434.797.4341  
NCBELS #F-0929

PROJECT SURVEYOR

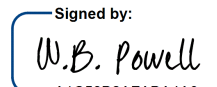


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

I, William B. Powell, 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 10th day of May, 2025.

Signed by:



Professional Land Surveyor L-5664



REVISIONS

RIGHT OF WAY CONTROL SHEET


ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L	12+10.00	-30.00	777825.1170	1911881.2162
L	12+10.00	-50.00	777835.7307	1911898.1676
L	13+67.24	30.00	777660.0058	1911913.8061
L	13+90.68	45.00	777632.1782	1911913.5322
L	19+70.00	-50.00	777191.5787	1912301.4891
L	19+70.00	-70.00	777202.1925	1912318.4404
L	21+80.00	45.00	776963.1742	1912332.4142
L	21+80.00	70.00	776949.9070	1912311.2250
L	30+57.09	-70.00	776280.8071	1912895.3454
L	30+57.09	-30.00	776259.5796	1912861.4427
L	31+00.00	70.00	776170.1441	1912799.4562
L	31+00.00	45.00	776183.4112	1912820.6454
L	34+75.00	45.00	775865.5731	1913019.6527
L	34+75.00	30.00	775873.5334	1913032.3662

ROW MARKER PERMANENT EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
L	26+07.00	-70.00	776662.2914	1912656.4875
L	26+07.00	-88.00	776671.8437	1912671.7437
L	27+48.24	-88.00	776552.1352	1912746.6966
L	27+48.24	-70.00	776542.5828	1912731.4404

PROJECT REFERENCE NO.  
BR-0060

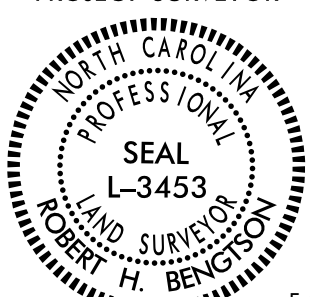
SHEET NO.  
RW03E-1

Location and Surveys

**Dewberry**<sup>®</sup>  
Dewberry Engineers Inc.

551 PINEY FOREST ROAD  
DANVILLE, VA 24540  
PHONE: 434.797.4487  
FAX: 434.797.4341  
NCBELS #F-0929

PROJECT SURVEYOR



5/23/2023

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

I, Robert H. Bengtson, 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 5/8/2023 to 5/11/2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23rd day of May, 2023.

DocuSigned by:  
  
EAY18ETCA33894E1  
Professional Land Surveyor L-3453

NOTES:

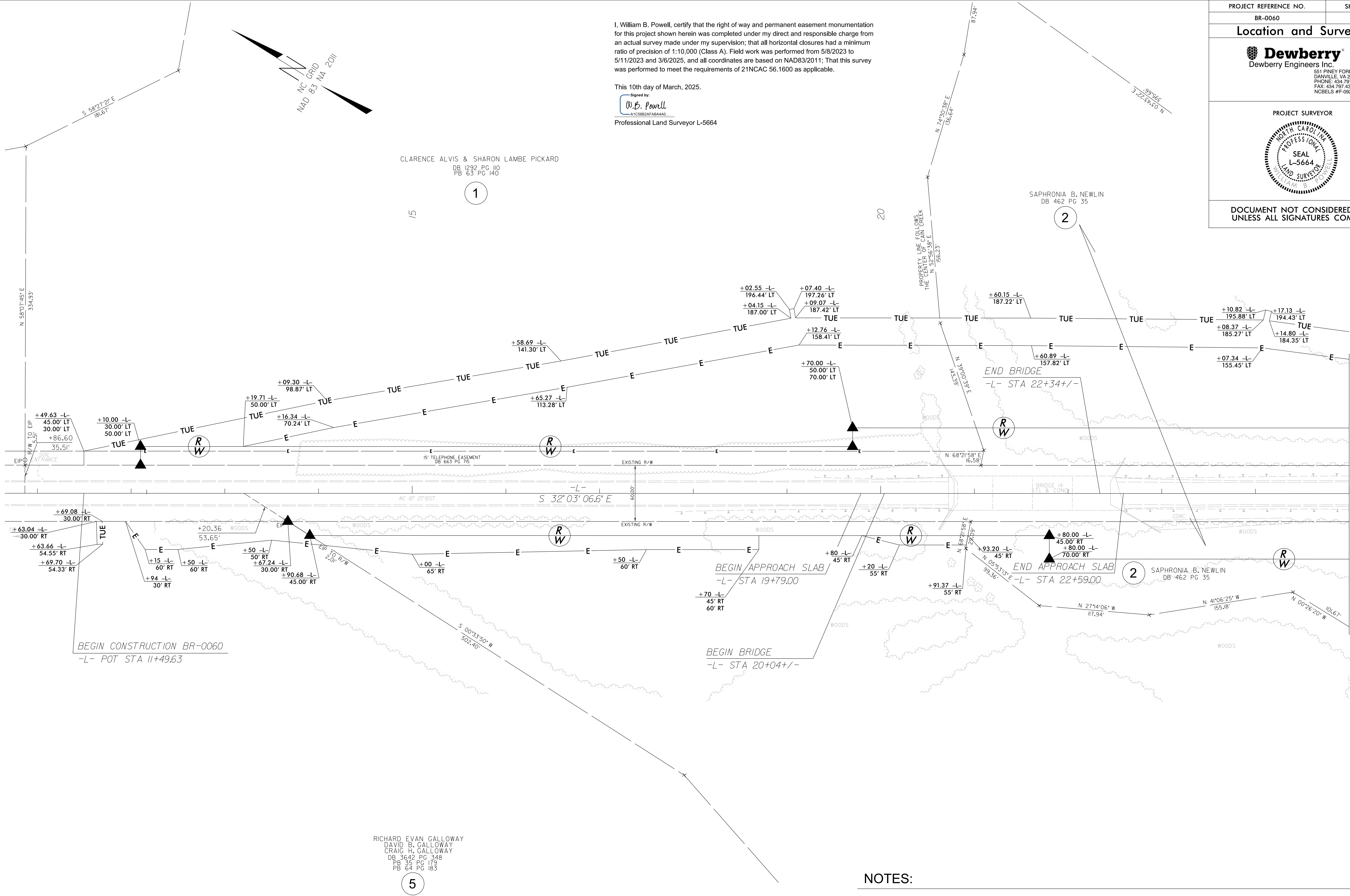
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 5/8/2023 TO 5/11/2023.



6/2/99



I:\MAY-2025 0801 Surveys\br-0060.1s.rw04\_250310.dgn  
P:\016889\0801 Surveys\br-0060.1s.rw04\_250310.dgn  
Powell

REVISIONS



I, William B. Powell, 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 5/8/2023 to 5/11/2023 and 3/6/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of March, 2025.  
Signed by:  
*W.B. Powell*  
Professional Land Surveyor L-5664

PROJECT REFERENCE NO.	SHEET NO.
BR-0060	RW04
Location and Surveys	
 Dewberry Engineers Inc. 551 PINEY FOREST ROAD DANVILLE, VA 24040 PHONE: 434.797.4497 FAX: 434.797.4341 NCBELS #F-0929	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	


NOTES:

1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 5/8/2023 TO 5/11/2023 AND 3/6/2025.



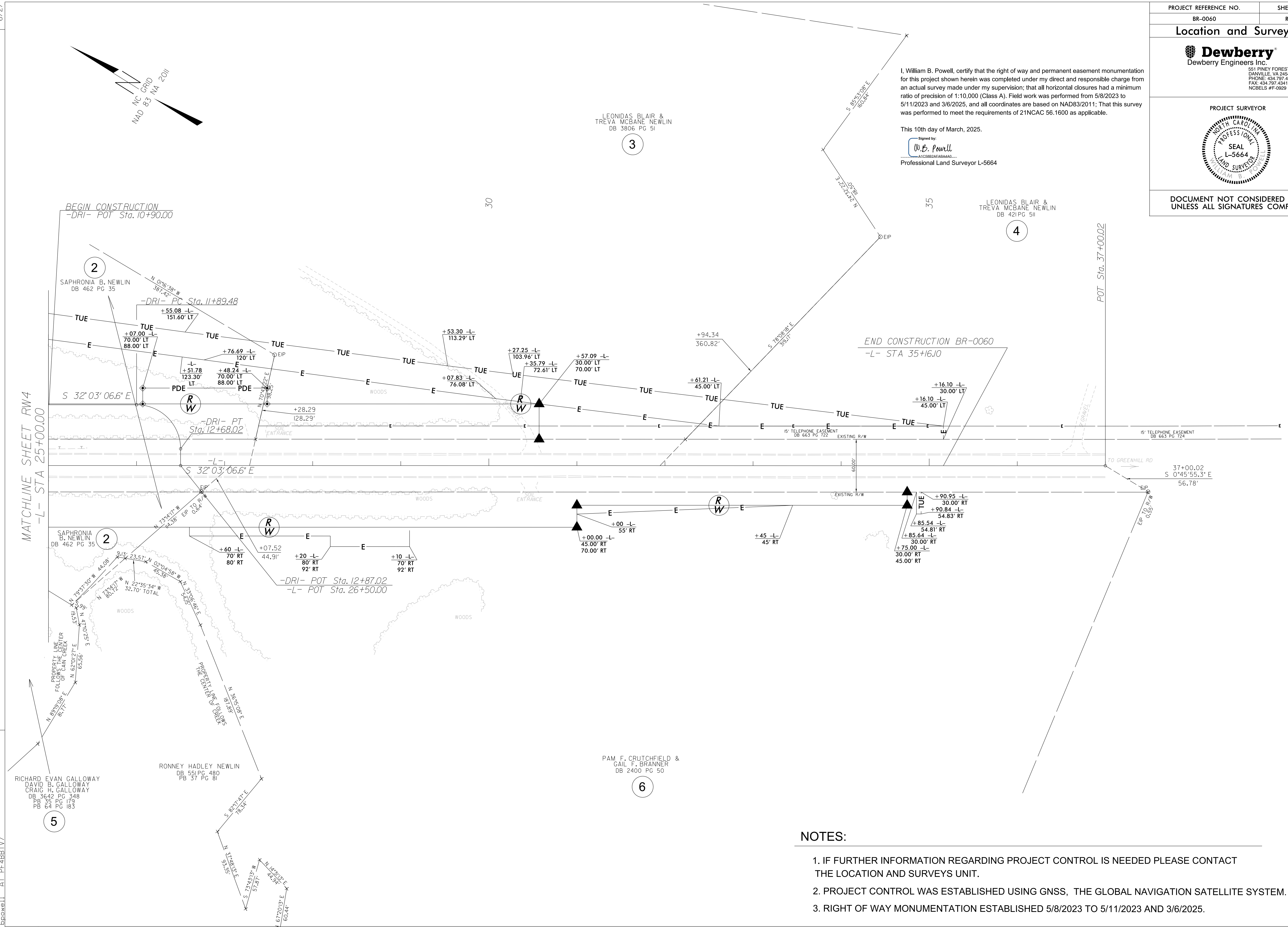
I, William B. Powell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 5/8/2023 to 5/11/2023 and 3/6/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of March, 2025.

Signed by:  
  
 A1C58B2AF8A4A0  
 Professional Land Surveyor L-5664



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## REVISIONS

6/2/99

10-MAR-2025 08:44  
P:\50186879\CAD\Survey\br-0060\_ls-rw05\_250310.dgn  
bpowell AT PF4BBTV7