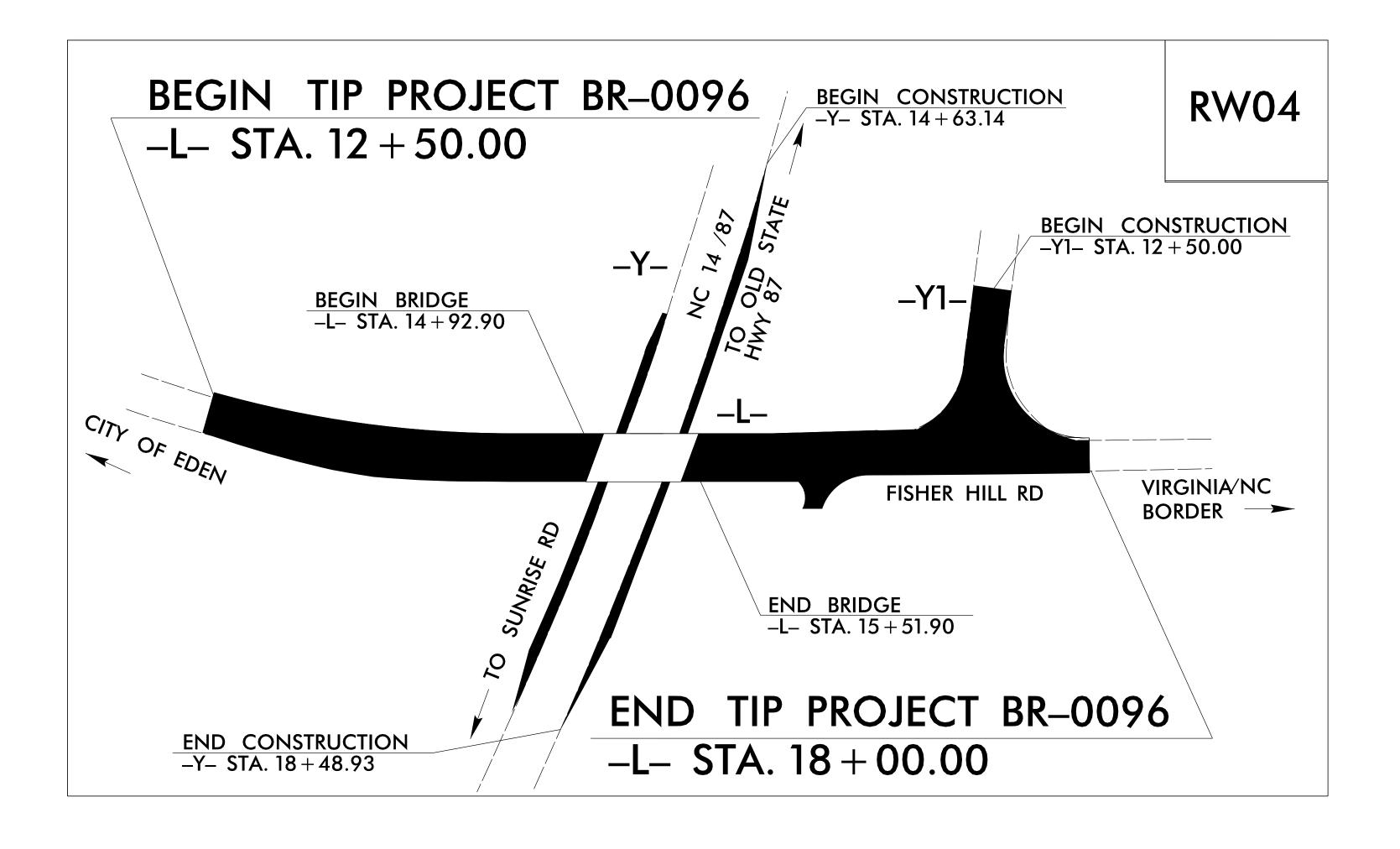
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

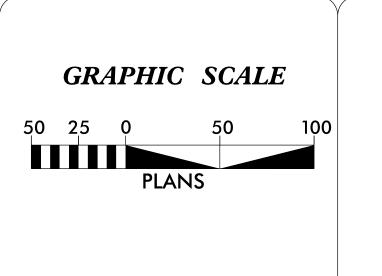
STATE STATE PROJECT REFERENCE NO. SHEET NO. SHEETS NO. BR = 0096 RW01 7

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

ROCKINGHAM COUNTY



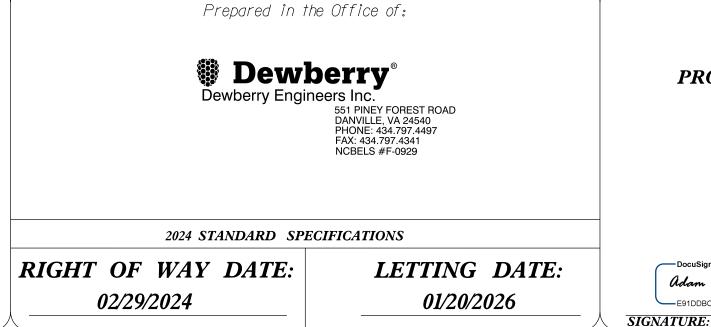




DATUM DESCRIPTION

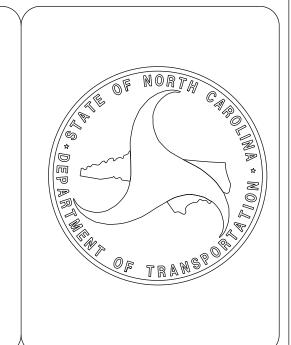
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BR0044-2"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 1012258.796(ft) EASTING: 1773751.701(ft) ELEVATION: 612.29(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.00009707
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM

"BR0096-1" TO -L- STATION 10+00.00 IS N 06-51'51" E 447.23(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88 / GEOID 12B



PROFESSIONAL LAND
SURVEYOR

SEAL
L-4980
SURVERING
SURVER



SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, ROBERT H. BENGTSON, PLS, 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 03/19/20 to 03/27/20, 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 5th day of November, 2021.

DocuSigned by:

Robert H. Bengtion

EA79E7CA33894F1...

Professional Land Surveyor L-3453

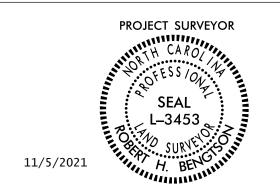
Location and Surveys

Dewberry

Dewberry Engineers Inc.

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

SHEET NO.
RW02C-1



PROJECT REFERENCE NO.

BR0096

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

FOR FURTHER ALIGNMENT DETAILS

SEE SHEET RWO2C-3

NOTES:

™ BMI

- 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.

T Z S C W J K

/2/99

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BR0096	RW02C-2
Location and S	urveys
Dewberry Dewberry Engineers Inc. 551 PINEY DANVILLE, PHONE: 43 FAX: 434.73 NCBELS #	FOREST ROAD VA 24540 4.797.4497 97.4341
SEAL L-3453	
DOCUMENT NOT CONSIEUNLESS ALL SIGNATURES	

SHEET NO.

PROJECT REFERENCE NO.

L POINT	DESC.	NORTH	EAST	ELEVATION
	BRØØ96_1	1012506.4123	1771200.6462	759.91
	BRØØ96-2	1013326.7892	1771305.5903	731.44
	BL - 3	1013884.0542	1771266.1856	729.24

I, ROBERT H. BENGTSON, PLS, 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 03/19/20 to 03/27/20, 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 5th day of November, 2021.

Pocusigned by:

Robert H. Bengts

EA79E7CA33894F1...

Professional Land Surveyor L-3453

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.

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, ROBERT H. BENGTSON, PLS, 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 03/19/20 to 03/27/20, 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.

PROJECT REFERENCE NO.	SHEET NO.
BR0096	RW02C-3
Location and S	urveys
Dewberry Dewberry Engineers Inc. 551 PINEY F DANVILLE, PHONE: 43 FAX: 434.79 NCBELS #F	FOREST ROAD VA 24540 4.797.4497 7.4341
SEAL L-3453 11/5/2021 H. BENTILLIA	MWWIIIII.
DOCUMENT NOT CONSIDUNLESS ALL SIGNATURES	

This 5th day of November, 2021.

DocuSigned by:

Robert H. Bengtson

Professional Land Surveyor L-3453

EL									
POINT	N	E	BEARING	DIST	DELTA		L	T	R
POT	1012950.442	1771254.098							
LINE			N 15°49′22.9" E	161.15					
PC	1013105.484	1771298.Ø38							
CURVE			N Ø4°16′27.4" E	277.45	23°Ø5′51.Ø"(LT)	Ø8°16′33.4"	279.09	141.59	692.92
PT	1013382.160	1771318.716							
LINE			N Ø7°16′28.1" W	187.41					
PC	1013568.065	1771294.986							
CURVE			N 07°40′03.7" W	145.61	ØØ°47′11.2"(LT)	ØØ°32′24.3"	145.61	72.81	10608.85
PT	1013712.377	1771275.557							
LINE			N Ø8°Ø3′39.3" W	144.01					
PC	1013854.962	1771255.363							
CURVE			N Ø5°47′53.6" W	119.45	Ø4°31′31.3"(RT)	Ø3°47′17.2"	119.46	59.77	1512.79
PCC	1013973.804	1771243.295							
CURVE			N Ø2°Ø2′Ø8.2" E	77.15	11°Ø8′32.4"(RT)	14°27′25.7"	77.07	38.76	397.37
PT	1014050.910	1771246.036							

EY									
POINT	N	Е	BEARING	DIST	DELTA		L	T	R
PC	1013537.510	1770657.829							
CURVE			S 81°13′Ø4.4" E	885.31	17°27′1Ø.4"(RT)	Ø1°57′49.9"	888.7Ø	447.84	2917.65
PT	1013402.343	1771532.765							

EY1				
POINT	N	E	BEARING	DIST
POT	1Ø13665.Ø57	1771282.150		
LINE			N 89°35′22.7" W	203.29
POT	1Ø13666.513	1771Ø78.866		

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.

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PROPOSED ALIGNMENT CONTROL SHEET

		L	
TYPE	STATION	NORTH	EAST
POT	10+00.00	1012950.4415	1771254.0980
PC	11+61.15	1013105.4842	1771298.0380
PT	14+40.48	1013382.1601	1771318.7164
PC	16+27.90	1013568.0653	1771294.9856
PT	17+73.51	1013712.3774	1771275.5567
PC	19+17.52	1013854.9622	1771255.3631
PT	20+37.00	1013973.8038	1771243.2953

		Y	
TYPE	STATION	NORTH	EAST
PC	10+00.00	1013537.5105	1770657.8292
PT	18+88.75	1013402.3429	1771532.7648

		Y 1	
TYPE	STATION	NORTH	EAST
POT	10+00.00	1013667.6045	1770926.4268
POT	13+55.73	1013665.0566	1771282.1498

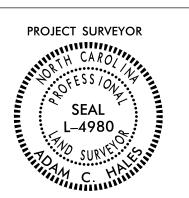
PROJECT REFERENCE NO.

Location and Surveys

SHEET NO.
RW02D-1

Dewberry
Dewberry Engineers Inc.

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



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Adam C. Hales, 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 25th day of July, 2024.

DocuSigned by:

Adam Hales

Professional Land Surveyor L-4980

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.

NEVISION NEVISION

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RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. SHEET NO.

BR-0096 RW03E-1

Location and Surveys

Dewberry

Dewberry Engineers Inc.

551 PINEY FOREST ROAD
DANVILLE, VA 24540
PHONE: 434.797.4497
FAX: 434.797.4341
NORELS #E-0020



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I , Adam C. Hales , 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 7/1/24 to 7/16/24, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This-1941s days of July, 2024. I Lam Hales

Professional Land Surveyor L-4980

ROW MARKER PERMANENT FASEMENT-F

	I \ U W I I H I	IN LINIMINE	_INI LHOLITLINI L	
ALIGN	STATION	OFFSET	NORTH	EAST
L	12+39.28	-25.00	1013185.7661	1771290.3968
L	12+46.70	-34.49	1013194.2713	1771282.1437
L	12+50.00	25.00	1013188.6007	1771341.4521
L	12+63.59	34.63	1013201.3122	1771352.9387
L	12+99.80	38.95	1013238.8077	1771361.1249
L	13+12.67	56.38	1013251.3612	1771379.4341
L	13+16.56	50.22	1013255.8838	1771373.5174
L	13+26.92	68.65	1013266.3064	1771392.4277
L	13+34.41	33.22	1013275.4544	1771357.2641
L	13+34.41	57.22	1013274.8257	1771381.2606
L	13+68.00	33.18	1013310.6527	1771357.2947
L	13+68.00	25.00	1013310.4698	1771349.1144
L	13+71.00	-25.00	1013312.2429	1771299.0560
L	13+71.00	-57.48	1013311.3763	1771266.5897
L	13+71.00	-65.00	1013311.1756	1771259.0702
L	14+21.26	58.19	1013368.8203	1771378.7945
L	14+63.56	-57.83	1013397.7280	1771258.4271
L	15+78.94	62.76	1013527.4482	1771363.4403
L	16+35.38	51.08	1013581.9915	1771344.7028
L	16+35.38	25.00	1013578.6705	1771318.8320
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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 3/18/24 TO 4/26/24.

|8-JUL-2024 |4;29 |P:\50181878\CAD\Survey\microstation\e sheets\BF |bpowell AT PF4BBTV7

