6900 BR-PROJECT

TIP

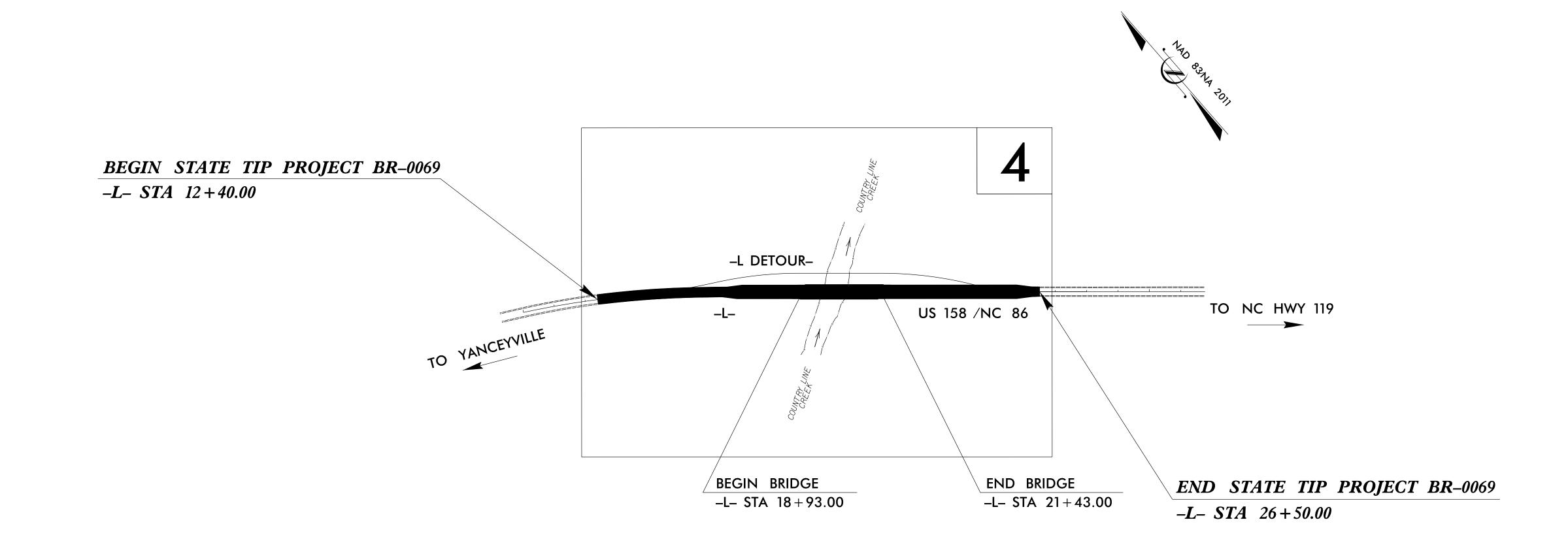
GRAPHIC SCALE PLANS

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

STATE PROJECT REFERENCE NO. N.C.RW01 04 BR-0069

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

CASWELL COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "160117 GPS-1" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 965741.568(ft) EASTING: 1912943.535(ft) **ELEVATION: 427.375(ft)** THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0000589820

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "160117 GPS-1" TO -L- STATION 10+00.00 IS N 51°44'18.8" W 1768.58'(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD88



2018 STANDARD SPECIFICATIONS

Prepared in the Office of:

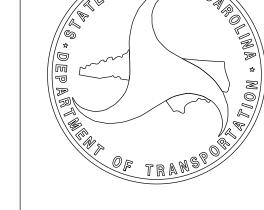
RIGHT OF WAY DATE: **MARCH** 15, 2023

LETTING DATE: FEBRUARY 20, 2024

C-2198

PROFESSIONAL LAND **SURVEYOR**





Clinton B. Osborne

5/1/2023

SIGNATURE:

I-MAY-2023 14:08 :\Projects\PA230320\d wner AT OWNER-PC

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO. 67069.1.1 RW2C-1

Location and Surveys

ALLIED ASSOCIATES, P.A. 4720 KESTER MILL ROAD WINSTON SALEM, NC 27103 (336) 765–2377 C–2198

PROJECT SURVEYOR

CAROL

SEAL

L-3834

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Clinton B. Osborne, PLS, certify that the Project Control was preformed 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: 10/02/2018

Datum/Epoch: NAD83-2011

Published/Fixed-control use: NCGS VRS-RTN

Localized around: GPS 160117-1

Northing: 965741.568

Easting: 1912943.535

Combined grid factor: 1.0000589820

Geoid model:12A

Units: US Survey Foot

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 4/7/2021 to 4/8/2021, 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 26th day of May, 2021.

—DocuSigned by:
Linton Oshorne

> SEE SHEET RW2C-3 FOR FURTHER ALIGNMENT DETAIL

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

PROJECT REFERENCE NO. SHEET NO. 67069.1.1 RW2C-2

Location and Surveys

ALLIED ASSOCIATES, P.A. 4720 KESTER MILL ROAD WINSTON SALEM, NC 27103 (336) 765–2377 C–2198

PROJECT SURVEYOR

SEAL

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Docusigned by:

Clinton Oshoru

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5/26/2021

DL					
	POINT	DESC.	NORTH	EAST	ELEVATION
3		BL-3	966868.0264	1911537.6163	463.53
4		BL - 4	966601.0409	1911950.0123	455.31
5		BL - 5	966150.4643	1912473.0195	434.25
1		16Ø117-GPS1	965741.5680	1912943.5350	427.38
2		16Ø117-GPS2	965329.8805	1913420.6990	436.59

BM1 ELEVATION = 455.91 N 966919 E 1911525 BL STATION 5+00.00 N 14*11'25.8" W DIST 52.20 RR SPIKE IN 18" GUM

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.

Owner AT OWNER-PC

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

Location and S	urveys
67069.1.1	RW2C-3
PROJECT REFERENCE NO.	SHEET NO.

ALLIED ASSOCIATES, P.A.
4720 KESTER MILL ROAD
WINSTON SALEM, NC 27103
(336) 765–2377
C–2198

PROJECT SURVEYOR

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L-3834

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Docusigned by:
Clinton Oshorue

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5/19/2021

EL									
POINT	N	Е	BEARING	DIST	DELTA	D	L	T	R
PC	966836.764	1911554.856							
CURVE			S 56°Ø1′Ø6.7" E	511.03	10°28′18.0"(RT)	Ø2°Ø2′46.6"	511.74	256.59	2800.00
PCC	966551.137	1911978.612							
CURVE			S 49°53′43.9" E	170.32	Ø1°46′27.7"(RT)	Ø1°Ø2′3Ø.3"	170.33	85.17	5500.00
PT	966441.419	19121Ø8.885							
LINE			S 49°00′30.0" E	1495.26					
POT	965460.606	1913237.514							

ΕY									
POINT	N	E	BEARING	DIST	DELTA		L	T	R
POT	965575.011	1912798.382							
LINE			S 69°17′23.3" E	89.72					
PC	965543.282	1912882.305							
CURVE			S 66°11′59.5" E	116.43	Ø6°1Ø′47.7"(RT)	Ø5°18′18.6"	116.49	58.30	1080.00
PT	965496.297	1912988.835							
LINE			S 63°Ø6′35.6" E	44.17					
PC	965476.322	1913028.225							
CURVE			S 60°29′07.5" E	45.79	Ø5°14′56.4"(RT)	11°27′33 . Ø"	45.81	22.92	500.00
PCC	965453.763	1913Ø68.Ø73							
CURVE			S 55°22′5Ø.9" E	164.43	Ø4°57′36.7"(RT)	03°00′56.0"	164.49	82.29	1900.00
PT	965360.345	1913203.394							

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

PROJECT REFERENCE NO. SHEET NO.

Location and Surveys

RW02D-1

ALLIED ASSOCIATES, P.A.
4720 KESTER MILL ROAD
WINSTON SALEM, NC 27103
WWW.ALLIEDAPA.COM C-2198
(336)765-2377



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Clinton b. Osborne, 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 1st day of May, 2023.

Clinton B. Osborne 0A6F6B085F6449B... Professional Land Surveyor L-3834

		_	
TYPE	STATION	NORTH	EAST
PC	10+00.00	966836.7644	1911554.8560
PCC	15+11.74	966551.1368	1911978.6120
PT	16+82.07	966441.4192	1912108.8852
POT	31+77.33	965460.6056	1913237.5137

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.

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RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO. SHEET NO.

BR-0069 RW03E-1

Location and Surveys

ALLIED ASSOCIATES, P.A.
4720 KESTER MILL ROAD
WINSTON SALEM, NC 27103
WWW.ALLIEDAPA.COM C-2198
(336)765-2377

PROJECT SURVEYOR

THE CAROL

SEAL

L-3834

L-3834

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Clinton B. Osborne, 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 on 4/17/23, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of May, 2023.

Clinton B. Oslorne

OAGF6B085F6449B...

Professional Land Surveyor L-3834

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
	15+49.94	-98.40	966602.6850	1912070.8601
	18+00.00	-103.00	966441.8075	1912265.4627
L	19+81.21	-102.95	966322.9032	1912402.2070

ROW MARKER PERMANENT FASEMENT-F

ALIGN	STATION	OFFSET	NORTH	EAST				
L	16+30.00	105.66	966394.9840	1912000.8734				
L	16+60.00	177.00	966321.7971	1911976.6318				
L	16+80.00	105.46	966363.1474	1912038.1750				
L	16+90.00	170.00	966307.9005	1912003.3596				

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 ON 4/17/2023.

