TO AYERSVILLE

BEGIN TIP PROJECT BR-0093

-L-STA.13+00.00

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

8/23/2023 BEGIN BRIDGE -L-STA.16+40.52**BEGIN CONSTRUCTION** END CONSTRUCTION -L-STA. 12 + 50.00-L-STA. 23+25.00TO STONEVILLE -L- NC 770 END BRIDGE -L-STA.19+30.52END TIP PROJECT BR-0093 -L-STA.22+00.00

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BR0093 GPS-1" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 992,052.253(ft) EASTING: 1,721,529.085(ft) **ELEVATION:** 692.981(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.0000715288 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BR0093 GPS-1" TO -L- STATION 10+00.00 IS S 72°56'04.2" W 1925.43(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES **VERTICAL DATUM USED IS NAVD88 (GEIOD 18)**

2024 STANDARD SPECIFICATIONS RIGHT OF WAY DATE:

7/14/2023

LETTING DATE: 6/18/2023

BR-0093

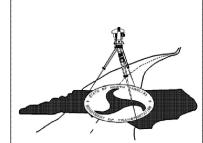
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR

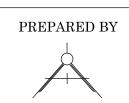
Clinton B. Osborne

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PREPARED FOR



LOCATION AND SURVEYS UNIT



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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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

SHEET NO.

PROJECT REFERENCE NO.



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I, Clinton B. Osborne, PLS, certify that the Project Control was performed 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: 10-25-2021 to 11-16-2021

Datum/Epoch: NAD83/NA2011

Published/Fixed-control use: NCGS VRS-RTN

Localized around: BR0093 GPS-1

Northing: 992052.253(ft)

Easting: 1721529.085(ft)

Combined grid factor: 1.0000715288

Geoid model: 18

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 10-25-2021 to 12-08-2021, 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 21th day of December, 2021.

Clinton B. Oslorne

OA6F6B085F6449B...

Professional Land Surveyor L-3834

BR0093 GPS-2

SEE SHEET RW02C-3
FOR FURTHER ALIGNMENT DETAIL

NOTES:

BRO093 GPS-I

TO STONEVILLE

- 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.

TO AYERSVILLE

NC HWY 770

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO.

BR-0093 RW02C-2

Location and Surveys

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



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Docusigned by:

Clinton B. Osborne

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12/21/2021

BL					
	POINT	DESC.	NORTH	EAST	ELEVATION
3		BL-3	991471.2005	1719697.3275	710.28
4		BL - 4	991691.8082	1720281.7377	678.66
5		BL - 5	991871.6870	1720826.3425	670.75
1		BRØØ93 GPS-1	992052.2530	1721529.0850	692.98
2		BRØØ93 GPS-2	992010.2422	1722244.5814	714.13

BM1 ELEVATION = 721.47 N 991565 E 1719661

BL STATION 5+00.00

N 20*56'04.3" W DIST 100.51 Railroad spike in 24"poplar

RAILROAD SPIKE IN 24"POPLAR

NOTES:

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO.

BR-0093 RW02C-3

Location and Surveys

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WINSTON SALEM, NC 27103
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DocuSigned by:
Clinton B. Osborne
0A6F6B085F6449B...

12/21/2021

EL									
POINT	N	Е	BEARING	DIST	DELTA		L	T	R
POT	991487.207	1719688.432							
LINE			N 75°55′28.7" E	53.02					
PC	991500.102	1719739.862							
CURVE			N 73°41′45.4" E	256.66	Ø4°27′26.6"(LT)	Ø1°44′10.4"	256.73	128.43	3300.00
PT	991572.156	1719986.203							
LINE			N 71°28′Ø2.1" E	1099.76					
PC	991921.712	1721028.935							
CURVE			N 73°27′31.6" E	229.36	Ø3°58′58.9"(RT)	Ø1°44′1Ø.4"	229.41	114.75	3300.00
PT	991987.012	1721248.8Ø3							

NOTES:

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PROPOSED ALIGNMENT CONTROL SHEET

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 23 day of August, 2023.

Obcusigned by:
Clinton B. Osbor

Professional Land Surveyor L-3834

		_	
TYPE	STATION	NORTH	EAST
POT	10+00.00	991487.2074	1719688.4321
PC	10+53.02	991500.1023	1719739.8623
PT	13+09.75	991572.1562	1719986.2032
PC	24+09.51	991921.7120	1721028.9347
PT	26+38.92	991987.0120	1721248.8029

DWY1								
TYPE	STATION	NORTH	EAST					
PC	10+00.00	991872.6963	1720604.5697					
PT	10+61.63	991871.3808	1720664.3185					
PC	10+81.22	991862.8576	1720681.9638					
PT	11+04.43	991861.4270	1720704.5477					
POT	11+34.09	991870.8560	1720732.6745					

DWY2								
TYPE	STATION	NORTH	EAST					
POT	10+00.00	992000.1481	1720660.7348					
POT	11+94.70	991830.0144	1720755.3992					

				PROPOSED A	LIGNMENT NAME:L				
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	Т	R
POT	991487.2074	1719688.4321							
LINE			N75°55'28.7"E	53.0222					
PC	991500.1023	1719739.8623							
CURVE					04°27'26.6" Left	01°44'10.4"	256.727	128.428	3300.000
PT	991572.1562	1719986.2032							
LINE			N71°28'02.1"E	1099.7628					
PC	991921.7120	1721028.9347							
CURVE					03°58'58.9" Right	01°44'10.4"	229.406	114.749	3300.000

				1					
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
PC	991872.6963	1720604.5697							
CURVE					49°02'29.3" Right	79°34'38.9"	61.627	32.844	72.000
PT	991871.3808	1720664.3185							
LINE			S64°13'04.9"E	19.5960					
PC	991862.8576	1720681.9638							
CURVE					44°18'53.0" Left	190°59'09.4"	23.203	12.217	30.000
PT	991861.4270	1720704.5477							
LINE			N71°28'02.1"E	29.6652					
POT	991870.8560	1720732.6745							

	PROPOSED ALIGNMENT NAME:DWY2									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	Т	R	
POT	992000.1481	1720660.7348								
LINE			S29°05'31.6"E	194.6967						
POT	991830.0144	1720755.3992								

NOTES:

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R/W 02D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR

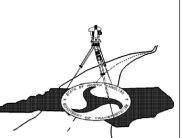
SEAL

L-3834

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TIP PROJECT: BR-0093
County: ROCKINGHAM

PREPARED FOR



LOCATION AND SURVEYS UNIT

PREPARED BY

RIGHT OF WAY CONTROL SHEET

PERMANENT EASEMENT MARKER IRON PIN AND CAP: L								
STATION	OFFSET	NORTH	EAST					
12+75.00	-75.00	991632.6427	1719930.1100					
12+75.00	-115.00	991670.7002	1719917.7962					
13+09.75	-115.00	991681.1926	1719949.6508					
15+20.00	-115.00	991748.0200	1720148.9984					
15+30.00	-75.00	991713.2728	1720171.1937					
15+65.00	-75.00	991724.3974	1720204.3787					
15+95.00	-100.00	991757.6364	1720224.8768					
16+71.58	-75.00	991758.2720	1720305.4271					
16+71.58	-100.00	991781.9756	1720297.4809					
20+10.00	95.00	991704.6549	1720680.3358					
20+10.00	75.00	991723.6178	1720673.9789					
20+35.00	75.00	991731.5640	1720697.6825					
20+35.00	95.00	991712.6011	1720704.0394					

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 from 8/21/23 to 8/22/23, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23 day of August, 2023

DocuSigned by: Clinton B. Osborne

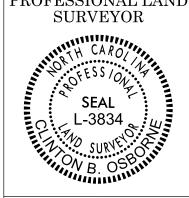
Professional Land Surveyor L-3834

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL LAND SURVEYOR



PREPARED FOR



LOCATION AND SURVEYS UNIT

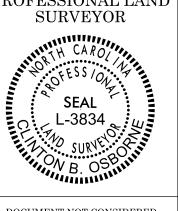
PREPARED BY

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BR-0093

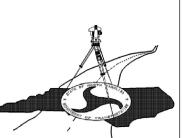
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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LOCATION AND SURVEYS UNIT

