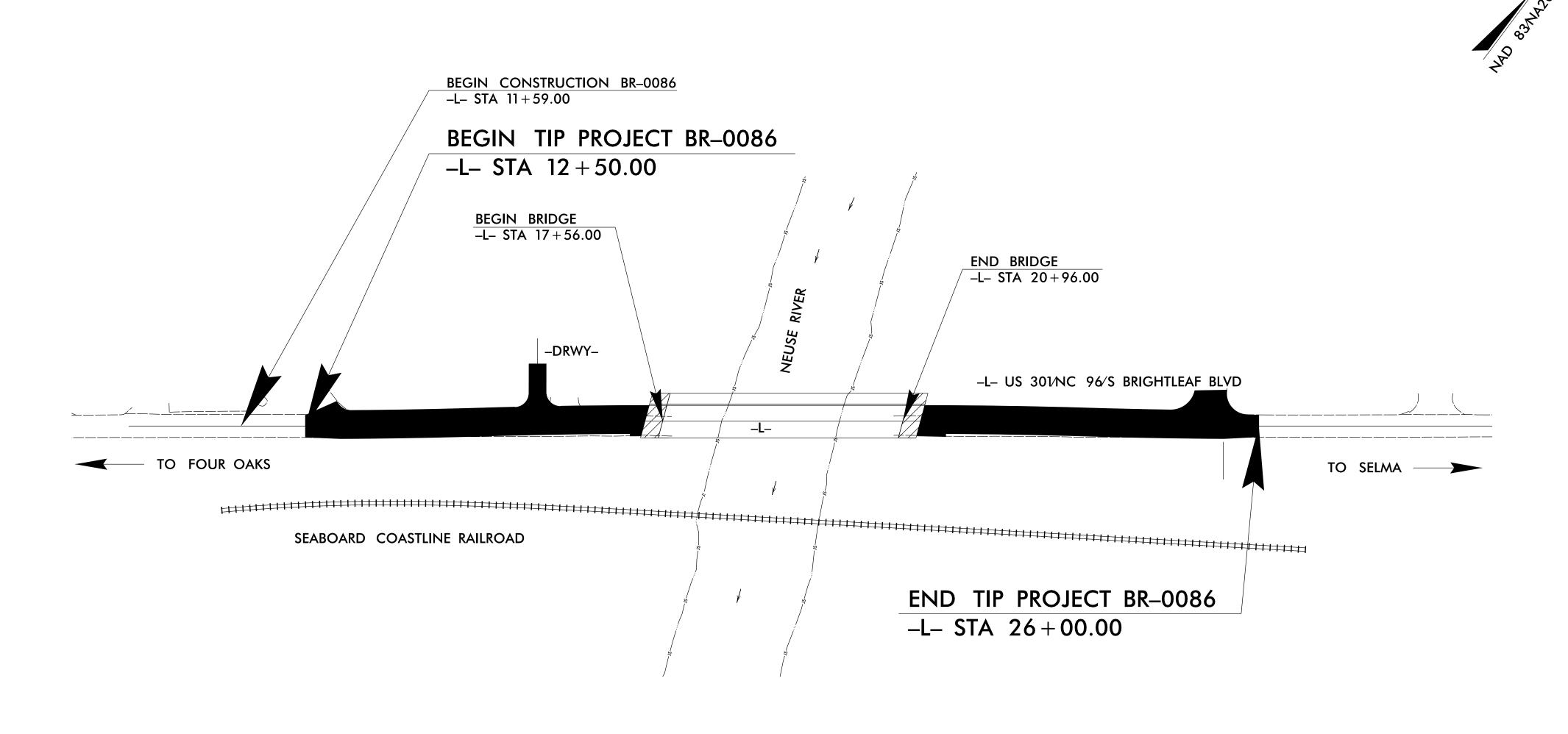
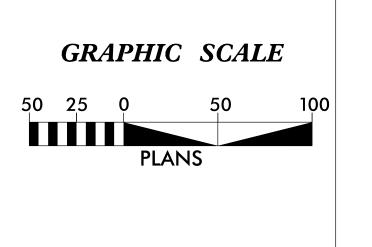
STATE STATE PROJECT REFERENCE NO. SHEET NO. SHEETS NO. $\mathbb{R} \mathbb{R} = 0.086$ $\mathbb{R} = 0.086$

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

JOHNSTON COUNTY





DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BR0086-2"
WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 630,468.879(ft) EASTING: 2,187,221.866(ft) ELEVATION: 126.437(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987986
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BR0086-2" TO -L- STATION 11+59.00 IS S 51-09'25" W 573.17(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

VERTICAL DATUM USED IS NAVD 88



Prepared in the Office of:

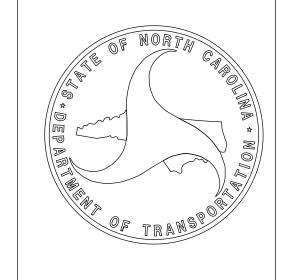
NC License No: C–4923 8000 Regency Parkway, Suite 110 Cary, NC 27518 PHONE: (919) 650 1038

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE: 01/21/2025





SIGNATURE:

JUL-2023 13:44 Projec†s23\23-0107.001_br nambliss AT CAR-CCHAMB SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO.
BR-0086 RW02C-1

Location and Surveys

Withers Ravenel
Engineers | Planners | Surveyors



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Rudolf A. VanderVelde Jr., PLS, certify that the Project Control was (performed/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: (Static, OPUS, RTN)
Dates of survey: March 3, 2020
Datum/Epoch: NAD83/NA 2011
Published/Fixed-control used: (Control Utilized)
Localized around: BR0086-2
Northing: 630,468.8787
Easting: 2,187,221.8656
Combined grid factor: 0.99987986 (ground to grid)
Geoid model: NAVD 88/GEOID G12NC

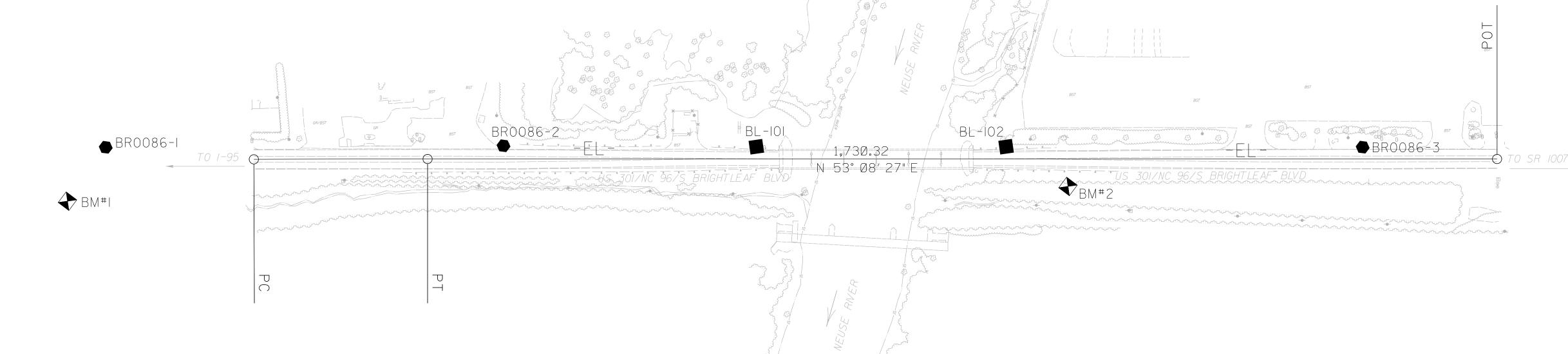
"I also certify that the baseline control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and vertical accuracy to Class A. Field work was performed from 3-9-2020 to 3-12-2020, 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 17th day of April, 2020.

Rudolf l. Vander Vilde Jr.

20203705E8FE436.

Professional Land Surveyor L-5146



NOTES:

- I. 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.

)20 |2:52 |0090\|9095.26-BR-0086 Bridge 500070 |location\Geomatic

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

Location and	Survevs
BR-0086	RW02C-2
PROJECT REFERENCE NO.	SHEET NO.





DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Rudolf A. VanderVelde Jr., PLS, certify that the Project Control was (performed/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: (Static, OPUS, RTN) Dates of survey: March 3, 2020 Datum/Epoch: NAD83/NA 2011 Published/Fixed-control used: (Control Utilized) Localized around: BR0086-2 Northing: 630,468.8787 Easting: 2,187,221.8656 Combined grid factor: 0.99987986 (ground to grid) Geoid model: NAVD 88/GEOID G12NC

"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 3-9-2020 to 3-12-2020, 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 9th day of April, 2020.

Rudolf d. VanderVilde Jr.

Professionabland Surveyor L-5146

4/9/2020

BL				
POINT	DESC.	NORTH	EAST	ELEVATION
1	BRØØ86-1	630080.8707	21867Ø8.4Ø22	140.65
2	BRØØ86-2	630468.8787	2187221.8656	126.44
1 Ø 1	BL-101	630712.9890	2187550.0340	128.27
102	BL-102	630955.4320	2187873.2950	128.90
3	BRØØ86-3	631300.8922	2188335.4051	130.40
4	BRØØ86 - 4	631655.2946	2188803.5343	133.66
N 629974 BL STATION 5+0 S Ø1*29'28.8" RR SPIKE IN BA ***********************************	E DIST 106.77 ASE OF 12" PINE ************************************			
	E 2187992 57.00 64 RIGHT			

RR SPIKE IN BASE OF 14" POPLAR

POINT	N	E	BEARING	DIST	DELTA			T	R
PC	630209.079	2186911.823							
CURVE			N 53°02′01.9" E	281.Ø8	ØØ°12′49.5"(RT)	ØØ°Ø4′33.8"	281.Ø8	140.54	75342.48
PT	63Ø378.1Ø7	2187136.4Ø6							
LINE			N 53°Ø8′26.7" E	1730.32					
POT	631416.Ø42	2188520.855							

NOTES:

- I. 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.

PROPOSED ALIGNMENT CONTROL SHEET

I, Steven C Bailey, 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 14th day of July, 2023.

SEAL SURVEY CONTRACTOR OF THE PROPERTY OF THE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.

Location and Surveys

SHEET NO.

STEVEN C BAILEY L-4493

TYPE	STATION	NORTH	EAST
POT	10+00.00	630258.1368	2186976.3841
PC	12+61.53	630415.0138	2187185.6345
PRC	15+00.45	630561.1993	2187374.6015
PT	17+39.37	630707.3847	2187563.5684
PC	21 + 17 . 47	630934.1892	2187866.0916
PRC	23+56.38	631074.5902	2188Ø59.3875
PT	25+95.30	631214.9913	2188252.6836
POT	29+30.47	631416.0421	2188520.8551

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.

RIGHT OF WAY CONTROL SHEET

I, Steven C Bailey, 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 June to July 2023, revisions made October 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 23th day of October, 2023.

STEVEN C BAILEY L-4493

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1111	NIIIII A CA FESS	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			

Location and Surveys

SHEET NO.

RW03E-1

PROJECT REFERENCE NO.

BR-0086

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER IRON PIN AND CAP-E

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ALIGN	STATION	OFFSET	NORTH	EAST
L	12+94.00	-29.93	63Ø458.4226	2187193.5228
L	12+94.00	-45.00	630470.4402	2187184.4357
L	13+80.00	-80.00	630550.0705	2187230.9475
L	15+10.00	-86.00	630634.4366	2187328.5Ø87
L	15+99.00	-38.00	63Ø652.1861	2187428.6816
L	15+99.00	-84.50	63Ø688.8898	2187400.1319
L	16+32.00	-56.00	630686.7439	2187443.9051
L	16+32.00	-38.00	630672.4899	2187454.8971
L	16+84.00	-85.00	630741.6678	2187467.9221
L	17+00.00	37.13	630654.0968	2187554.5475
L	17+00.00	49.71	630644.0692	2187562.1437
L	21+04.00	-135.00	631034.1249	2187774.3350
L	21+34.00	73.91	630884.8649	2187923.5381
L	21+45.00	-97.00	631028.4785	218783Ø.2334
L	21+45.00	-28.00	63Ø973.1269	2187871.43Ø5
L	26+00.00	30.00	631193.8Ø84	2188274.4413
L	26+00.00	-30.00	631241.8152	2188238.45Ø2
L	26+00.00	45.00	631181.8Ø68	2188283.439Ø
L	26+00.00	-35.00	631245.8155	2188235.45Ø6

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	21+58.00	-42.08	63Ø992.2163	2187873.5145
L	21+58.00	-85.00	631026.6887	2187847.9454
L	26+00.00	-50.00	631257.8174	2188226.4531

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 JUNE 2023 TO JULY 2023. REVISIONS MADE OCTOBER 2023.

