

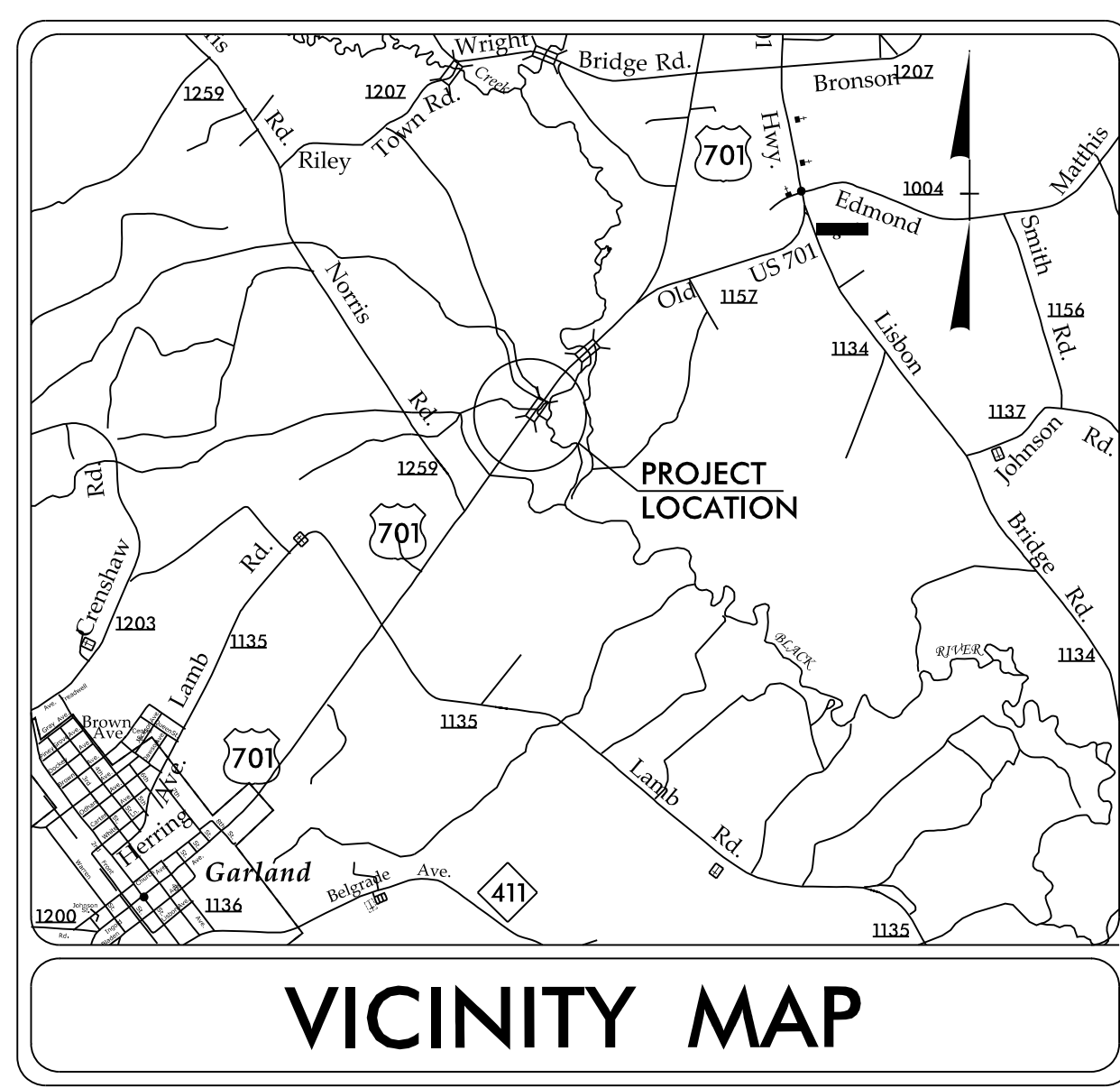
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0046	RW01	05

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

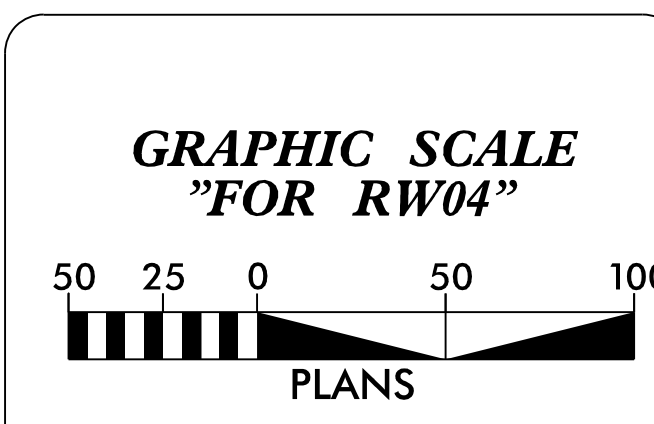
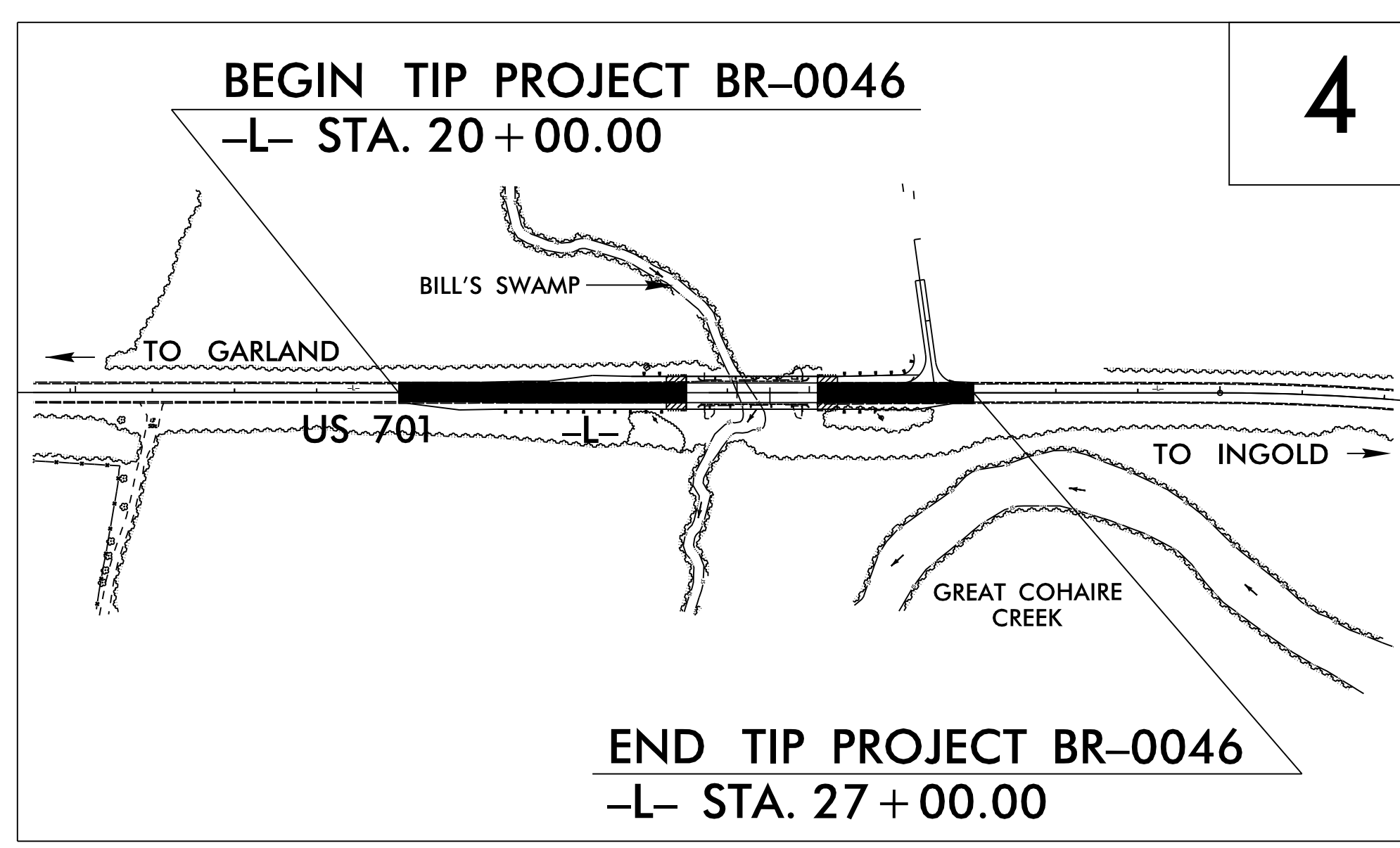
SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

SAMPSON COUNTY

BRIDGE NO. 22
ON US 701 OVER BILL'S SWAMP



TIP PROJECT: BR0046



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BR0046-2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 385,896.2845(ft) EASTING: 2,188,866.5299(ft) ELEVATION: 56.148(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999051146

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BR0046-2" TO -L- STATION 10+00.00 IS N 37-05'16" E 1,099.17(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

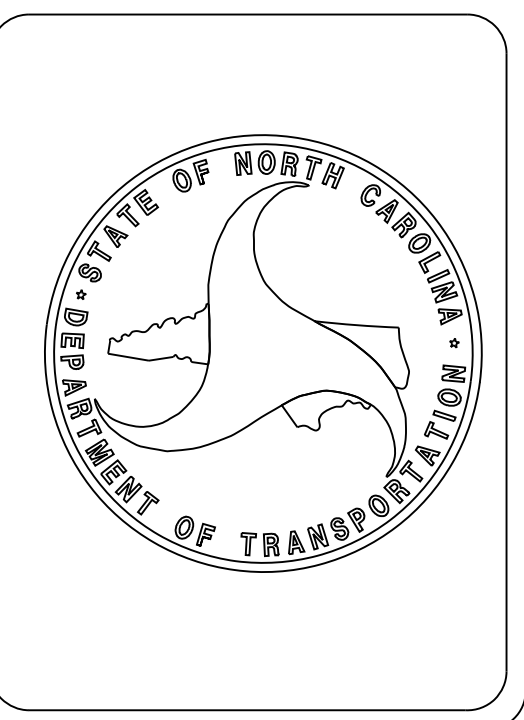
*Prepared in the Office of:
LOCATION & SURVEYS, DIV 3
5310 BARBADOS BLVD., SUITE 102
CASTLE HAYNE, N.C., 28429*

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: <u>JULY 14, 2022</u>	LETTING DATE: <u>DECEMBER 19, 2023</u>
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PROFESSIONAL LAND SURVEYOR


DocuSigned by:
Christopher J. Sawyer
09/20/2023



20-SEP-2023 16:44
S:\Units\Div03\Projects\BRIDG\BRIDG\BR-0046-0022\Working\50 series plans\BR0046-Rdy-tsh-rev.dgn
Individual AT LS-328725L

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. BR0046	SHEET NO. RW02C-1
Location and Surveys	
LOCATION & SURVEYS UNIT, DIVISION 3 5310 BARBADOS BLVD., SUITE 102 CASTLE HAYNE, N.C., 28429	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	


BL	POINT	DESC.	NORTH	EAST	ELEVATION
	BR00461	GPS CAP & REBAR	384921.1441	2188159.9640	65.42
	BR00462	GPS CAP & REBAR	385896.2845	2188866.5300	56.15
	BL1	TRV CAP & REBAR	387006.3826	2189669.0180	56.72
	BL2	TRV CAP & REBAR	387869.6419	2190298.2750	56.52
	BL3	TRV CAP & REBAR	388521.1226	2190771.6510	57.25
	BR00463	GPS CAP & REBAR	389136.2393	2191371.3700	56.90
	BR00464	GPS CAP & REBAR	389984.3379	2192235.8590	57.31

I, CHRISTOPHER J. SAWYER, 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:

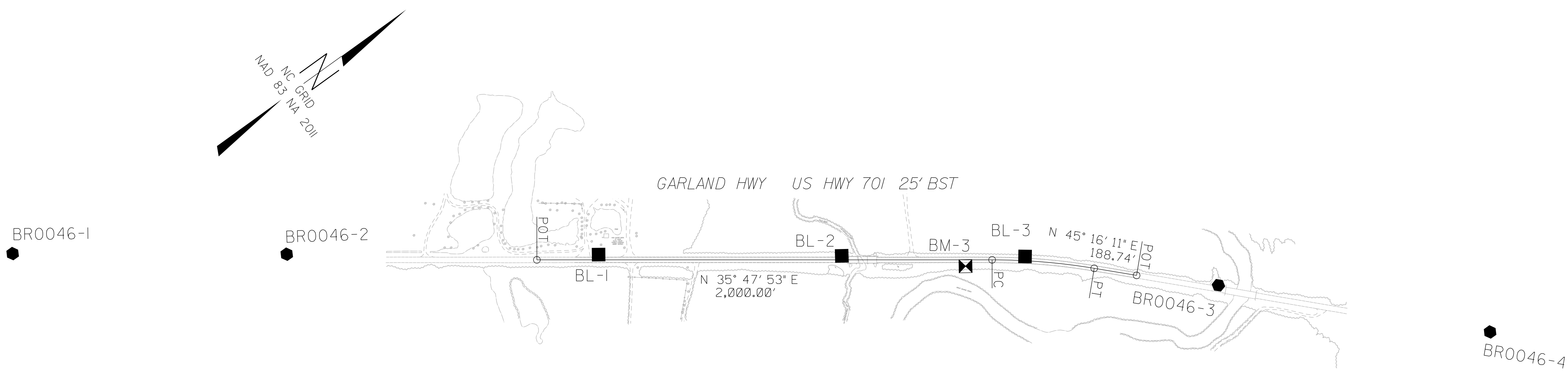
Class of survey: **AA**
 Type of GPS field procedure: [RTN]
 Date of survey: MARCH 2019
 Datum/Epoch: NAD 83/NA 2011
 Published/Fixed-control use: [N/A for RTN]
 Localized around: BR0046-2
 Northing: 385896.2845
 Easting: 2188866.5299
 Combined grid factor: 0.9999051146
 Geoid model: G12BNC
 Units: US SURVEY FEET

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 MARCH 2019, 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 20th day of September, 2023.


 CHRISTOPHER J. SAWYER
 Professional Land Surveyor L-4526

EL	POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
	POT	386773.107	2189529.371							
	LINE			N 35°47'53.4" E	2000.00					
	PC	388395.272	2190699.234							
	CURVE			N 40°32'02.3" E	450.09	09°28'17.9"(RT)	02°06'07.2"	450.60	225.82	2725.78
	PT	388737.349	2190991.747							
	LINE			N 45°16'11.3" E	188.74					
	POT	388870.178	2191125.833							

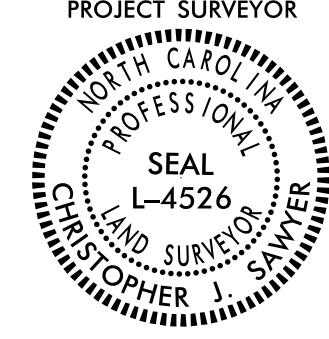


 BM3 ELEVATION = 54.76
 N 388284 E 2190654
 BM-3 SPIKE IN PP

NOTES:

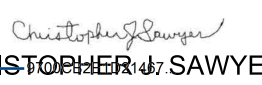
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. BR0046	SHEET NO. RW02D-1
Location and Surveys	
LOCATION & SURVEYS UNIT DIVISION 3 5310 BARBADOS BLVD., SUITE 102 CASTLE HAYNE, N.C., 28429	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, CHRISTOPHER J. SAWYER, 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 20TH day of September, 2023.

DocuSigned by:

CHRISTOPHER J. SAWYER
 Professional Land Surveyor L-4526

REVISIONS

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L

TYPE	STATION	NORTH	EAST
POT	10+00.00	386773.1069	2189529.3710
PC	30+00.00	388395.2722	2190699.2342
PT	34+50.60	388737.3493	2190991.7467
POT	36+39.34	388870.1785	2191125.8328

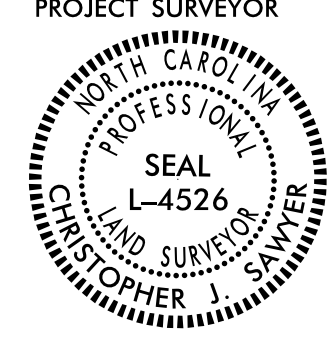
DR

TYPE	STATION	NORTH	EAST
POT	10+00.00	388202.2980	2190330.0610
POT	11+88.35	388114.2546	2190496.5717

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 AND PERMANENT EASEMENT CONTROL SHEET

PROJECT REFERENCE NO. BR0046	SHEET NO. RW03E-1
Location and Surveys	
LOCATION & SURVEYS UNIT, DIVISION 3 5310 BARBADOS BLVD., SUITE 102 CASTLE HAYNE, N.C., 28429	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP E

ALIGN	STATION	OFFSET	NORTH	EAST
L	20+90.00	-64.00	387694.62263	2190115.03716
L	20+90.00	50.00	387627.94042	2190207.50060
L	20+90.00	30.00	387639.63905	2190191.27895
L	20+90.00	-30.00	387674.73494	2190142.61399
L	22+76.00	50.00	387778.80179	2190316.29787
L	22+76.00	67.00	387768.85795	2190330.08628
L	26+00.00	50.00	388041.59256	2190505.81571
L	26+00.00	67.00	388031.64872	2190519.60411
L	27+00.00	-64.00	388189.38303	2190471.84543
L	27+00.00	-30.00	388169.49535	2190499.42226
L	27+00.00	50.00	388122.70082	2190564.30887
L	27+00.00	30.00	388134.39945	2190548.08721


ROW MARKER PERMANENT EASEMENT -E

ALIGN	STATION	OFFSET	NORTH	EAST
L	19+80.63	30.00	387550.93094	2190127.30498
L	19+80.63	44.20	387542.62860	2190138.82027
L	22+63.94	98.92	387740.40004	2190348.92187
L	22+65.04	83.33	387750.41368	2190336.92130
L	22+83.89	100.33	387755.75618	2190361.73549
L	22+84.99	84.74	387765.76982	2190349.73492
L	25+44.00	77.00	387980.37878	2190494.95877
L	25+44.00	67.00	387986.22809	2190486.84794
L	25+60.00	67.00	387999.20542	2190496.20685
L	25+60.00	77.00	387993.35610	2190504.31768
L	26+32.80	86.29	388046.96763	2190554.43636
L	26+34.57	101.59	388039.45412	2190567.88594
L	26+52.63	83.76	388064.53714	2190563.98361
L	26+54.57	99.89	388056.67069	2190578.20524
L	28+83.72	30.00	388283.41220	2190655.55131
L	28+83.72	43.29	388275.63919	2190666.33080

NAIL SET IN MAPLE ROOT

I, CHRISTOPHER J. SAWYER, 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 OCTOBER 6, 2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.


This 20~~TH~~TH day of September, 2023.


 CHRISTOPHER J. SAWYER
 Professional Land Surveyor L-4526

NOTES:

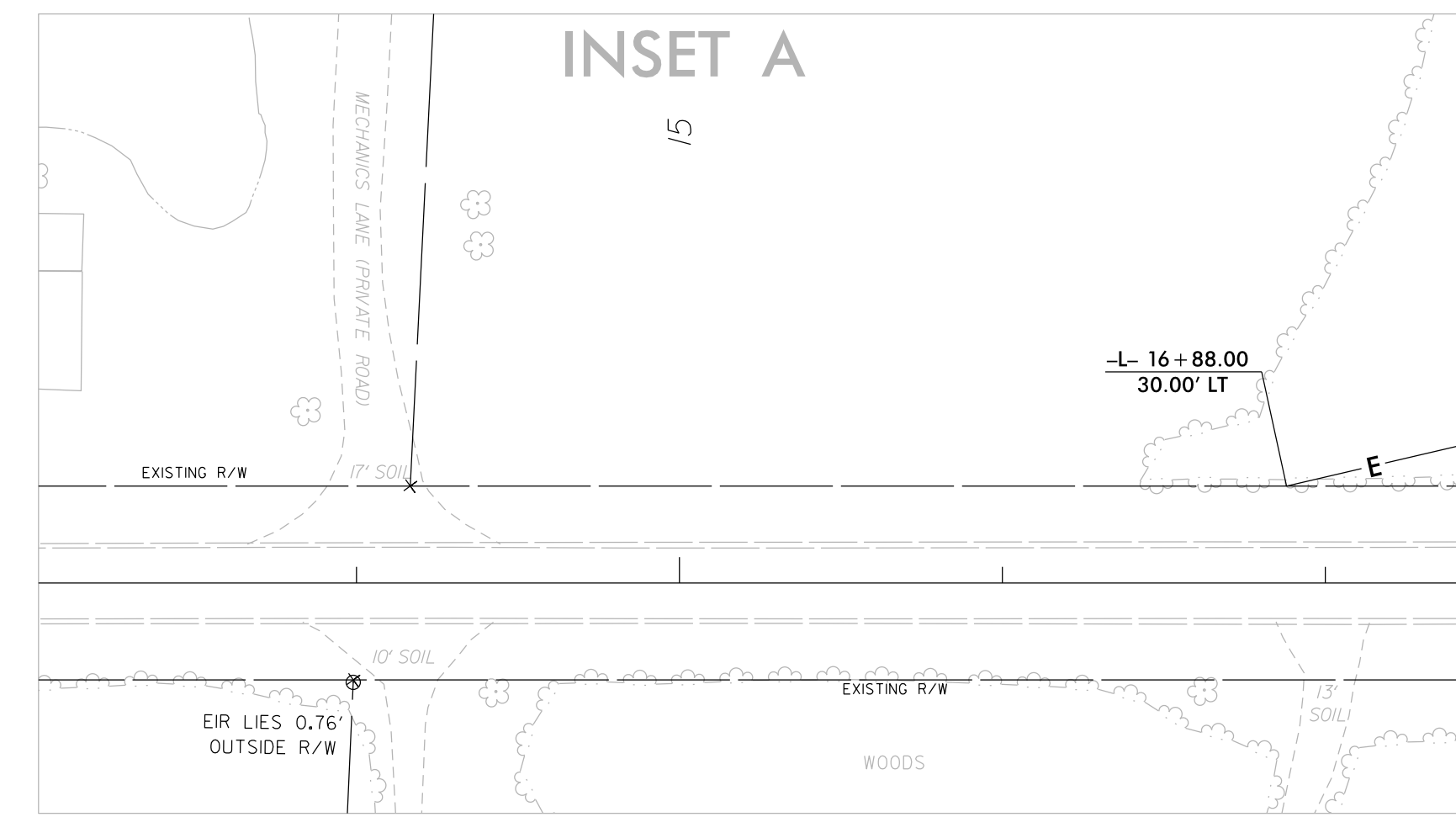
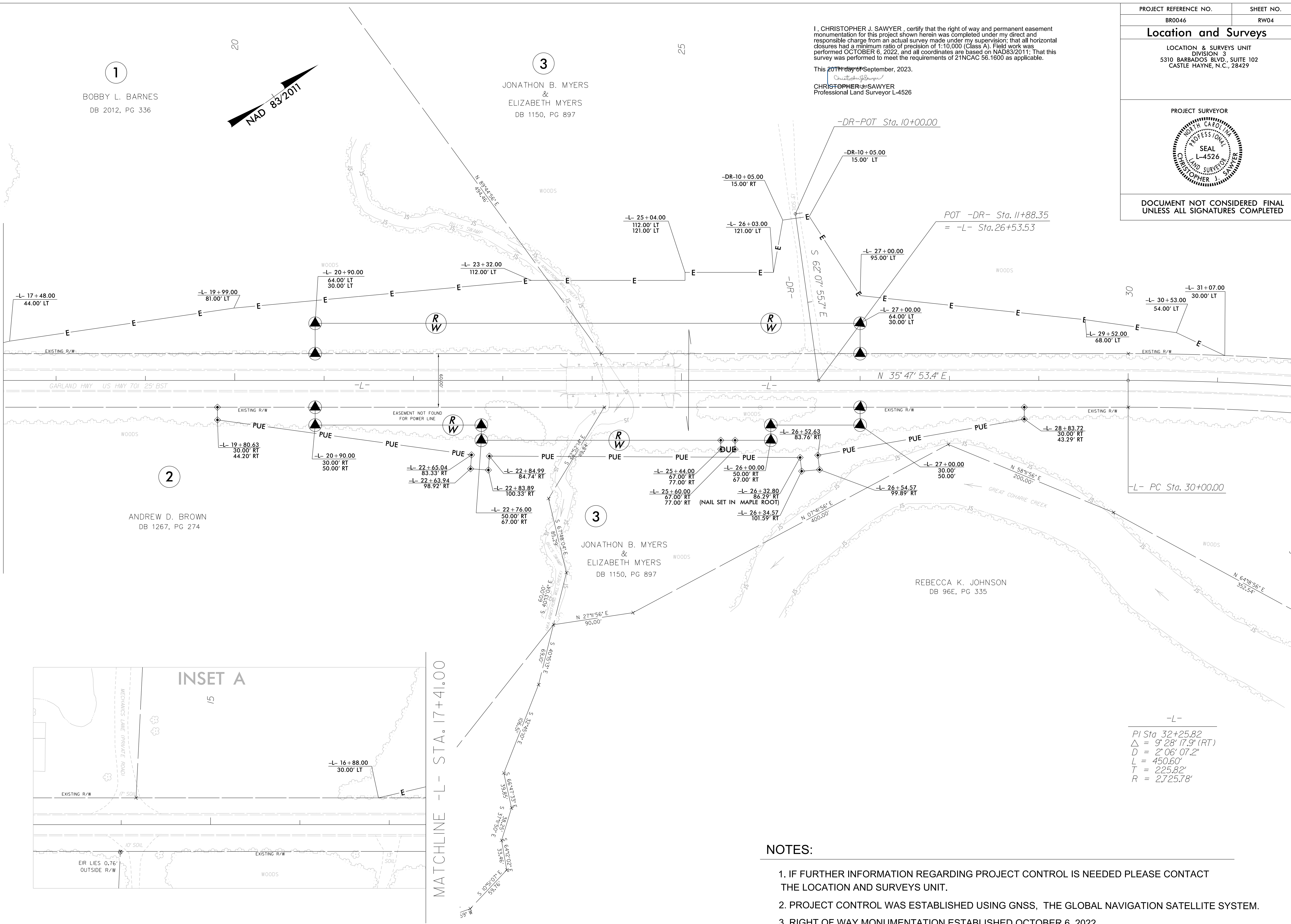
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED OCTOBER 6, 2022.

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
BR0046	RW04
Location and Surveys	
LOCATION & SURVEYS UNIT DIVISION 3 5310 BARBADOS BLVD., SUITE 102 CASTLE HAYNE, N.C., 28429	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, CHRISTOPHER J. SAWYER, 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 OCTOBER 6, 2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.
 This Survey was performed on September, 2023.
 CHRISTOPHER J. SAWYER
 Professional Land Surveyor L-4526

MATCHLINE -L- STA. 17+41.00
SEE INSET A



-L-
 PI Sta 32+25.82
 $\Delta = 9^{\circ}28'17.9"(RT)$
 $D = 2^{\circ}06'07.2"$
 $L = 450.60'$
 $T = 225.82'$
 $R = 2,725.78'$

- NOTES:**
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
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 3. RIGHT OF WAY MONUMENTATION ESTABLISHED OCTOBER 6, 2022.

REVISIONS