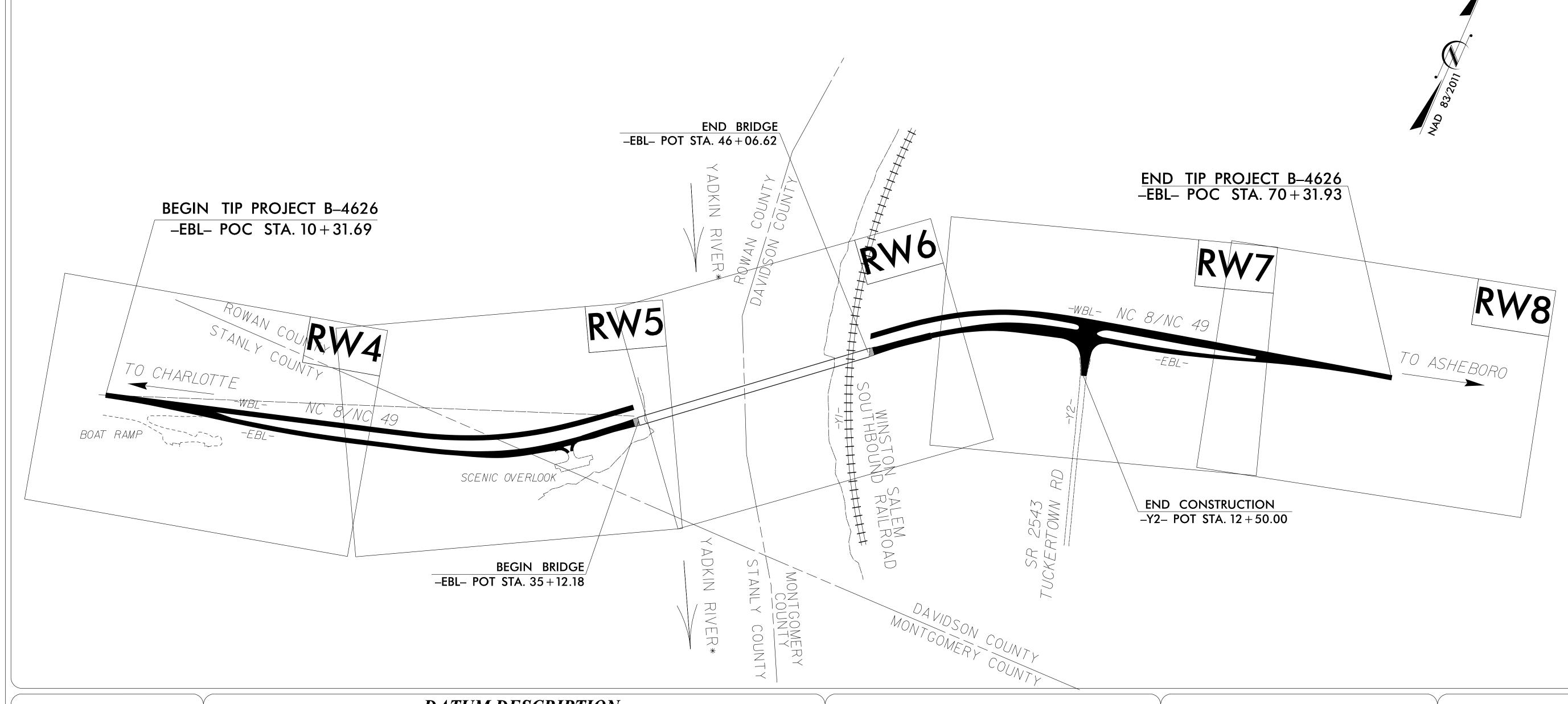
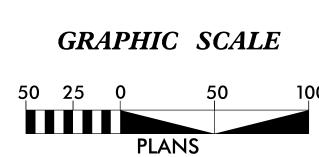
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

N.C. RW01 XX \mathbb{B} -4626

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

STANLY, ROWAN, AND DAVIDSON COUNTIES

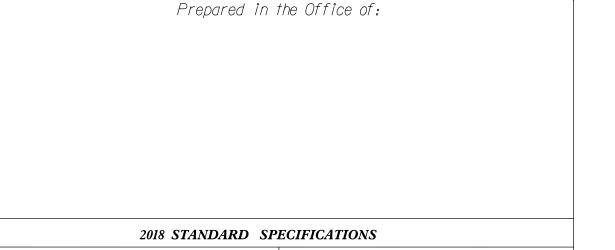




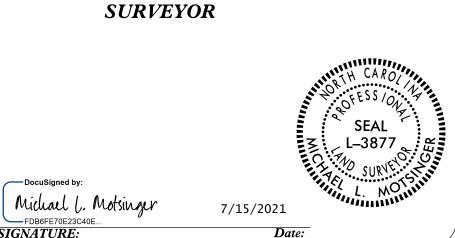
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B4626-GPS2" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 640,824.6882(ft) EASTING: 1,647,248.5700(ft) **ELEVATION:** 582.72(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99985926201

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4626-GPS2" TO -L- STATION 10+00.00 IS S 68°49'08.23" W 2452.39(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88



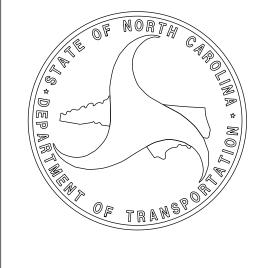
RIGHT OF WAY DATE: **LETTING DATE:** XX/XX/XXXX XX/XX/XXXX



PROFESSIONAL LAND

FDB6FE70E23C40

SIGNATURE:



UL-202113:14 Jnits\Div09\Winston\Ruth vinaton AT LS-312561

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.

B-4626

RW02C-1

Location and Surveys

INSERT CONSULTANT'S NAME

PROJECT SURVEYOR

THE CAROL

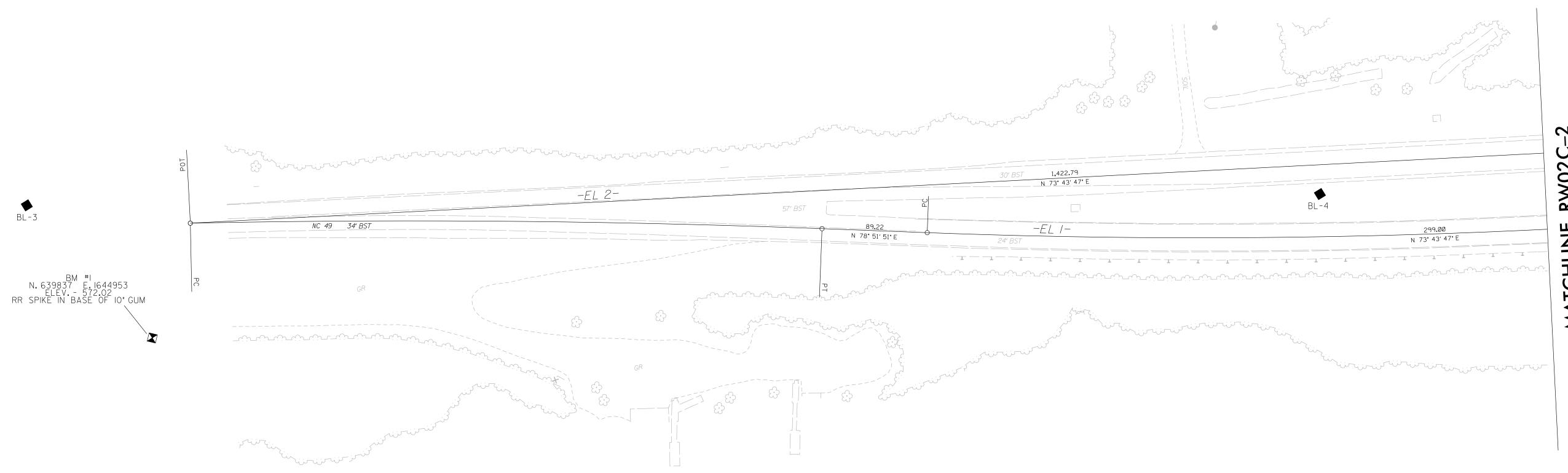
SEAL

L-3877

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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual 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: 03-02-2015

Datum/Epoch:NAD 1983/2011

Published/Fixed-control use: [Project Control if applicable, N/A for RTN]

Localized around: B4626-2

Northing:640824.6882

Easting:1647248.5700

Combined grid factor:0.999859262

Geoid model: G12NC

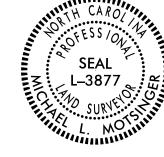
Units:US Survey Feet

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 from 6/15/2016 to 8/15/2016, 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 12th day of April, 2021_.

Michael Motsinger

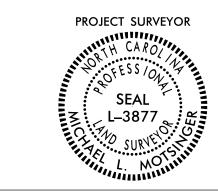
Professional Land Surveyor L-3877



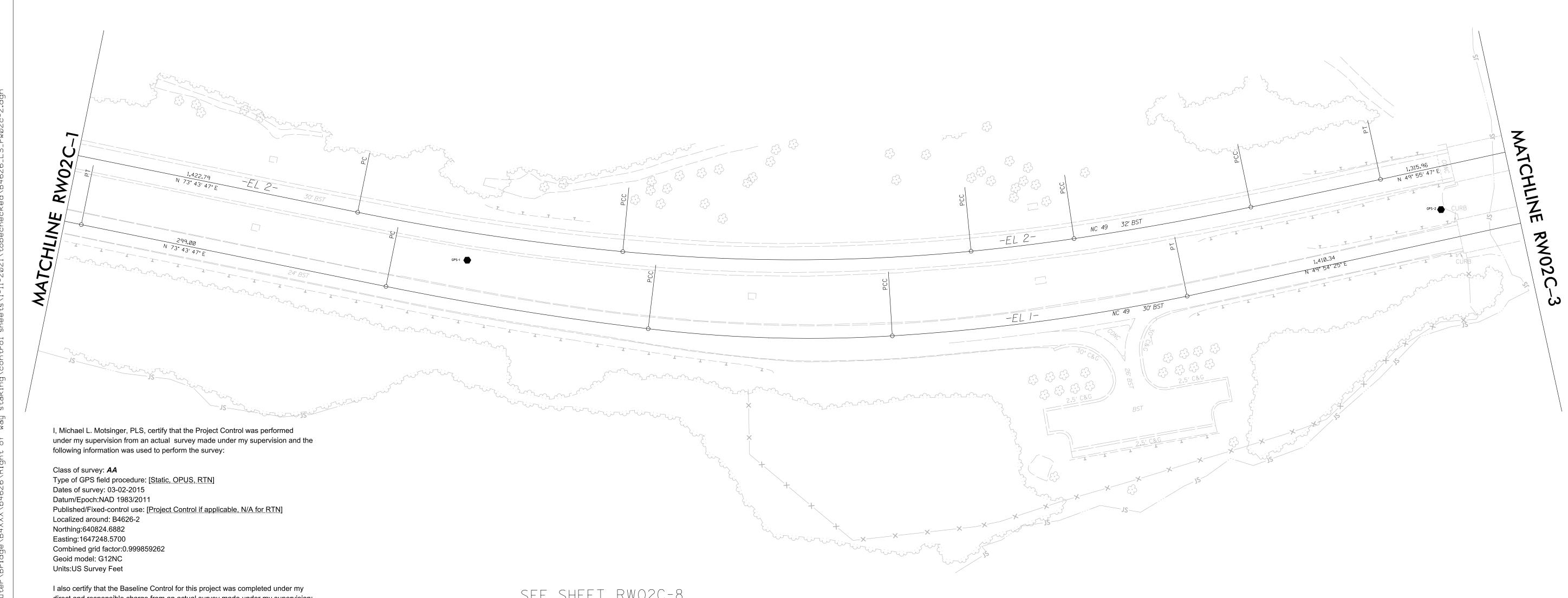
SEE SHEET RW02C-9 FOR FURTHER ALIGNMENT DETAILS

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PROJECT REFERENCE NO. Location and Surveys



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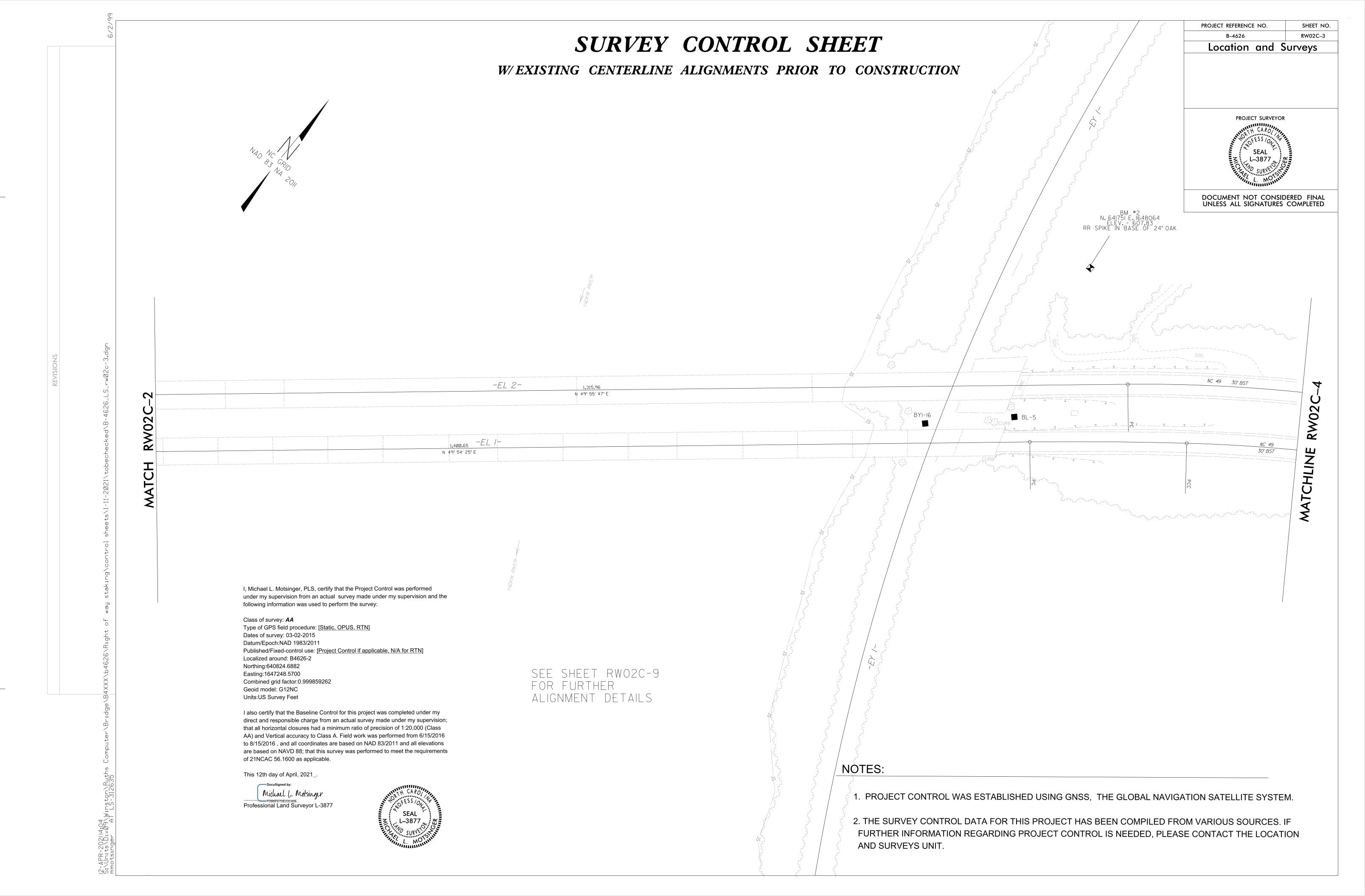
Michael L. Motsinger Professional Land Surveyor L-3877

This 12th day of April, 2021_.



SEE SHEET RWO2C-8 FOR FURTHER ALIGNMENT DETAILS

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PROJECT REFERENCE NO. SURVEY CONTROL SHEET Location and Surveys W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION PROJECT SURVEYOR DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED NC 49 54' BST I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual 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: 03-02-2015 Datum/Epoch:NAD 1983/2011 Published/Fixed-control use: [Project Control if applicable, N/A for RTN] Localized around: B4626-2 Northing:640824.6882 Easting:1647248.5700 Combined grid factor:0.999859262 BY2-20 Geoid model: G12NC 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; SEE SHEET RWO2C-9 FOR FURTHER ALIGNMENT DETAILS 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 6/15/2016 to 8/15/2016, 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 NOTES: of 21NCAC 56.1600 as applicable. This 12th day of April, 2021_.

DocuSigned by: 1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM. Michael L. Motsinger Professional Land Surveyor L-3877 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.

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO.

B-4626 RW02C-5

Location and Surveys

PROJECT SURVEYOR

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Localized around: B4626-2

Northing:640824.6882

Easting:1647248.5700

Combined grid factor:0.999859262

Geoid model: G12NC

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This 12th day of April, 2021_.

BL-8

Docusigned by:

Midwal L. Motsinger

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Professional Land Surveyor L-3877

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SEE SHEET RWO2C-9 FOR FURTHER ALIGNMENT DETAILS

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FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION

AND SURVEYS UNIT.

PROJECT REFERENCE NO.



/2/99

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. SHEET NO.

B-4626 RW02C-7

Location and Surveys

PROJECT SURVEYOR

CAROL

SEAL

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Easting:1647248.5700

Combined grid factor:0.999859262

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This 12th day of April, 2021_.

Michael L. Motsinger

Professional Land Surveyor L-3877



SEE SHEET RWO2C-9 FOR FURTHER ALIGNMENT DETAILS

BAI-12

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A CONTROLL OF THE CONTROL OF THE CO

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2/99

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL							
	POINT	DESC.	NORTH	EAST	ELEVATION	EBL STATION	OFFSET
3		BL-3	639921.3690	1644823.4720	577.17	OUTSIDE PROJEC	T LIMITS
4		BL - 4	640182.9960	1645887.7050	586.31	19+58.09	36.18 LT
1		GPS - 1	640345.4770	1646442.4080	583.73	25+38.30	39.50 LT
2		GPS-2	640824.6880	1647248.5700	582.72	34+99.18	27.18 LT
5		BL - 5	641550.9460	1648108.5780	606.26	46+24.82	28.89 LT
6		BL - 6	642013.4740	1648959.8480	640.85	55+89.62	42.31 LT
7		BL - 7	642207.5500	1649744.1320	668.85	64+00.29	19.52 LT
8		BL - 8	642409.2582	1650662.8707	675.52	OUTSIDE PROJEC	T LIMITS
BY1							
	POINT	DESC.	NORTH	EAST	ELEVATION	Y1 STATION	OFFSET
15		BY1-15	642370.5640	1647875.0170	573.17	11+69.27	18.93 RT
16		BY1-16	641475.2500	1648029.1400	573.38	20+76.20	14.90 RT
17		BY1-17	640755.1550	1648389.3180	573.90	28+79.71	15.61 RT
BY2							
DIZ	POINT	DESC.	NORTH	EAST	ELEVATION	Y2 STATION	OFFSET
A6		BL - 6	642013.4740	1648959.8480	640.85	10+29.22	39.81 RT
20		BY2-20	641663.8830	1649123.4550	630.55	OUTSIDE PROJEC	T LIMITS

BM#2 ELEVATION = 607.83' N 641751 E 1648064 Y1 STATION 18+17.00 95' LEFT RR SPIKE IN 24" OAK PROJECT REFERENCE NO.
B-4626

Location and Surveys

SHEET NO.

RW02C-8

PROJECT SURVEYOR

TH CAROL

OFESSION

SEAL

L-3877

L. MONITOR

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Docusigned by:

Michael J. Motsinger

FDB6FE70E23C40E...

Professional Land Surveyor L-3877



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 1 871dge\B $^{\prime}$ 4XXX\b4626\Right of way stakıng\control sheets\1-11-2021\tobechecked\B-4626

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/2/99

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL1									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	639938.598	1644961.849							
CURVE			N 77°11′11.6" E	535.37	Ø3°21′18.4"(RT)	ØØ°37′35.8"	535.44	267.80	9143.80
PT	640057.330	1645483.883							
LINE			N 78°51′50.9" E	89.22					
PC	640074.561	1645571.420							
CURVE			N 76°17′48.9" E	541.98	05°08′04.0"(LT)	ØØ°56′49.3"	542.16	271.26	6050.00
PT	640202.950	1646097.970							
LINE			N 73°43′46.9" E	299.00					
PC	640286.721	1646384.997	1, 7, 8, 1, 5, 8, 5		24027427	210 10 10 0 11		107.00	212122
CURVE	0.40000.400	10.10007.100	N 71°24′58.0" E	255.45	Ø4°37′37.7"(LT)	Ø1°48′39.1"	255.52	127.83	3164.00
PCC	640368.132	1646627.129	N 000FF/00 71 F	224.00	10001/50 01/1 5)	0.410.470.5.51	225 21	117.00	1000 00
CURVE	C 4 @ 4 71 000	1010000 007	N 63°55′Ø9.7" E	234.89	10°21′59.0"(LT)	Ø4°24′26.5"	235.21	117.92	1300.00
PCC	640471.396	1646838.097	N E 4°0 4/17 11 E	200.14	00°10/40 1#/LT)	010°E 4/2012	207.20	140 45	10.70 00
CURVE	640637.268	1647Ø71.255	N 54°34′17.1" E	286.14	Ø8°19′46.1"(LT)	Ø2°54′3Ø.3"	286.39	143.45	1970.00
LINE	640637.268	164/0/1.200	N 49°54′24.8" E	1400.65					
PC	641539.332	1648142.752	N 47 34 24.0 E	1400.00					
CURVE	64100 1.002	1040142.732	N 51°00′37.3" E	192.58	Ø2°12′25.2"(RT)	Ø1°Ø8′45.3"	192.60	96.31	5000.00
PCC	641660.502	1648292.440	N 31 00 37.3 L	1 72.00	02 12 23.2 (1(1)	01 00 43.3	1 72.00	70.31	3000.00
CURVE	071000.302	10402 12.440	N 56°36′17.6" E	313.21	Ø8°58′55.3"(RT)	Ø2°51′53.2"	313.53	157.09	2000.00
PCC	641832.896	1648553.938	10 30 30 17 60 E	515.21	20 30 33.3 ((())	V2 31 33.2	010:00	137.0	2000.00
CURVE	0 1100210 70	10100001700	N 66°30′49.9" E	151.07	10°50′09.3"(RT)	07°09′43.1"	151.30	75.88	800.00
PCC	641893.103	1648692.495		101107	12 33 2 713 11117	27 27 1011	101100	, 0100	000100
CURVE			N 74°25′32.Ø" E	339.38	Ø4°59′15.Ø"(RT)	Ø1°28′Ø8.8"	339.49	169.85	3900.00
PT	641984.223	1649Ø19.416							
LINE			N 76°55′Ø9.6" E	203.76					
PC	642030.339	1649217.890							
CURVE			N 76°Ø7′51.5" E	68.79	Ø1°34′36.2"(LT)	Ø2°17′3Ø.6"	68.80	34.40	2500.00
PCC	642046.830	1649284.679							
CURVE			N 73°Ø2′23.8" E	482.14	Ø4°36′19.3"(LT)	00°57′17.7"	482.27	241.27	6000.00
PCC	642187.473	1649745.851							
CURVE			N 73°42′25.3" E	636.34	Ø5°56′22.4"(RT)	ØØ°55′58.7"	636.63	318.60	6141.19
PT	642365.997	165Ø356.636							

EL2									
POINT	N	Е	BEARING	DIST	DELTA		L	T	R
POT	639938.598	1644961.849							
LINE			N 73°43′46.9" E	1422.79					
PC	640337.220	1646327.658							
CURVE			N 70°42′05.7" E	257.79	Ø6°Ø3′22.4"(LT)	Ø2°2Ø′53.5"	257.91	129.08	2440.00
PCC	64Ø422.417	1646570.963							
CURVE			N 62°10′54.2" E	334.96	10°59′00.6"(LT)	Ø3°16′26.6"	335.47	168.25	1750.00
PCC	64Ø578.731	1646867.211							
CURVE			N 55°15′37.6" E	99.79	Ø2°51′32.7"(LT)	Ø2°51′53.2"	99.80	49.91	2000.00
PCC	64Ø635.597	1646949.214							
CURVE			N 52°07′25.8" E	172.78	03°24′50.7"(LT)	Ø1°58′32.6"	172.80	86.43	2900.00
PCC	640741.675	1647Ø85.594							
CURVE			N 50°10′23.5" E	127.55	ØØ°29′13.9"(LT)	ØØ°22′55.1"	127.55	63.77	15000.00
PT	64Ø823.366	1647183.549							
LINE			N 49°55′46.5" E	1315.96					
PC	641670.489	1648190.596							
CURVE			N 54°49′53.4" E	319.58	Ø9°48′13.6"(RT)	03°03′50.2"	319.97	160.38	1870.00
PCC	641854.563	1648451.843							
CURVE			N 61°51′39.3" E	100.23	Ø4°15′18.2"(RT)	Ø4°14′38.9"	100.26	50.15	1350.00
PCC	6419Ø1.835	1648540.230							
CURVE			N 68°58′35.4" E	278.23	Ø9°58′34.1"(RT)	Ø3°34′51.6"	278.59	139.65	1600.00
PCC	642001.652	1648799.943							
CURVE			N 75°31′22.6" E	202.35	03°07′00.2"(RT)	Ø1°32′24.4"	202.37	101.21	3720.27
PT	642Ø52.237	1648995.866							
LINE			N 77°00′57.4"E	1396.47					
POT	642365.997	165Ø356.636							

EY1									
POINT	N	Е	BEARING	DIST	DELTA	D	L	T	R
POT	642539.920	1647897.627							
LINE			S Ø2°55′53.6" W	0.42					
PC	642539.505	1647897.606							
CURVE			S 16°38′14.0" E	1918.78	39°Ø8′15.2"(LT)	Ø2°ØØ′Ø1.Ø"	1956.60	1018.20	2864.38
PT	640701.049	1648446.974							
LINE			S 36°12′21.6" E	153.50					
POT	640577.190	1648537.645							

EY2									
POINT	N	Е	BEARING	DIST	DELTA	D	L	T	R
PC	642051.301	1648991.795							
CURVE			S 15°24′Ø9.2" E	217.16	Ø4°47′12.6"(LT)	Ø2°12′13.3"	217.22	108.67	2600.00
PT	641841.945	1649049.471							
LINE			S 17°47′45.5" E	814.26					
POT	641066.643	1649298.333							

PROJECT REFERENCE NO. SHEET NO.

B-4626 RW02C-9

Location and Surveys

PROJECT SURVEYOR

THE CAROL

OF ESS /ON

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L-3877

SURVEY

L. MORNING

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Geoid model: G12NC

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Midwal L. Motsinger

Professional Land Surveyor L-3877



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PROPOSED ALIGNMENT CONTROL SHEET

EAST

1644961.8493

1645483.8828

1645571.4195

1646097.9697

1646384.9974

1646627.1289

1646838.0973

1647062.5528

1648141.4641

1648347.7718

1648553.9382

1648692.4954

1649019.4159

1649217.8900

1649284.6793

1649745.8514

1650356.6360

1648537.6450

46+90.00

47+25.00

B-4626	RW02D-1
Location and S	Surveys

SHEET NO.

PROJECT REFERENCE NO.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT SURVEYOR	
SEAL SEAL	
SEAL L-3877 W	
SURVEY STRIP	

I, Michael L. Motsinger, certify that the right of way and permanent easement

monumentation for this project shown herein was completed under my direct and

STATION POT 639938.5977 10+00.00 1644961.8493 24+22.79 640337.2203 1646327.6584 PCC 26+80.70 640422.4169 1646570.9631 1646867.2110 30+16.17 640578.7315 1646949.2142 31+15.97 640635.5970 PCC 1647085.5940 32+88.78 640741.6746 34+16.33 640823.3657 1647183.5494 47+32.29 641670.4893 1648190.5963 50+52.26 641854.5634 1648451.8426 51+52.52 641901.8354 1648540.2300 PCC 54+31.11 642001.6522 1648799.9433 642052.2375 1648995.8659 56+33.48 POT 642365.9971 70+29.95 1650356.6360

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 6/15/2016 to 8/15/2016, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as This 12 th day of April, 2021. Michael L. Motsinger

Professional Land Surveyor L-3877



STATION 10+00.00 642539.9204 1647897.6271 10+00.42 642539.5050 1647897.6058 29+57.02 640701.0494 1648446.9739

640577.1903

639938.5977

640057.3296

640074.5605

640202.9498

640286.7212

640368.1316

640471.3956

640632.5555

641540.8618

641702.0386

641832.8961

641893.1027

641984.2233

642030.3391

642046.8295

642187.4726

642365.9971

STATION

10+00.00

15+35.44

16+24.66

21+66.82

24+65.82

27+21.34

29+56.55

32+33.14

46+43.48

49+05.34

51+49.69

53+00.98

56+40.47

58+44.23

59+13.03

63+95.30

70+31.93

31+10.52

PCC

PCC

PCC

PRC

		Y2	
TYPE	STATION	NORTH	EAST
PC	10+00.00	642051.3012	1648991.7947
PT	12+17.22	641841.9445	1649049.4711
POT	20+31.48	641066.6429	1649298.3330

1648077.7676

1648127.6196

RIGHT OF WAY CONTROL SHEET

-125.00

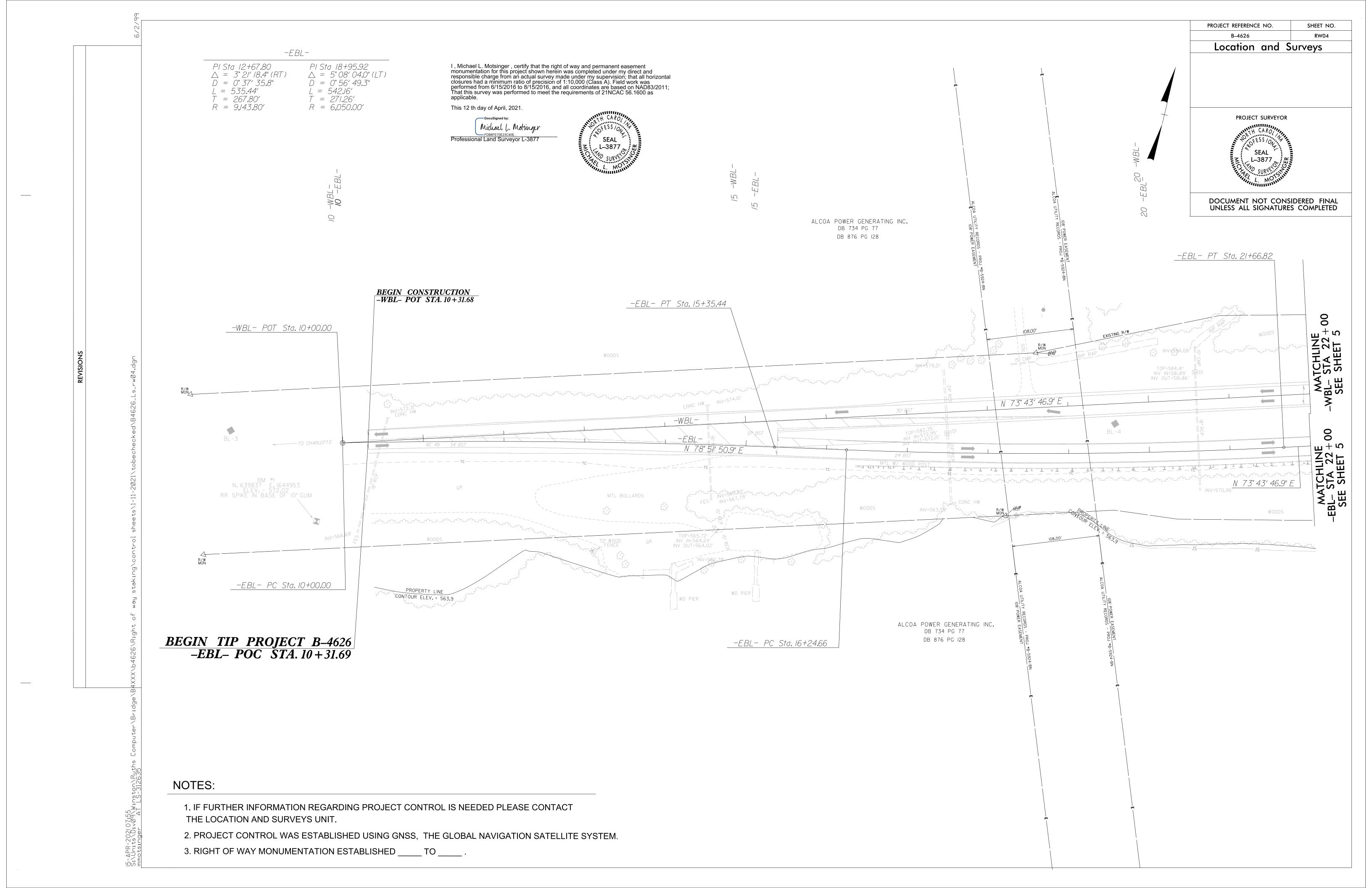
EX R/W 89.16'

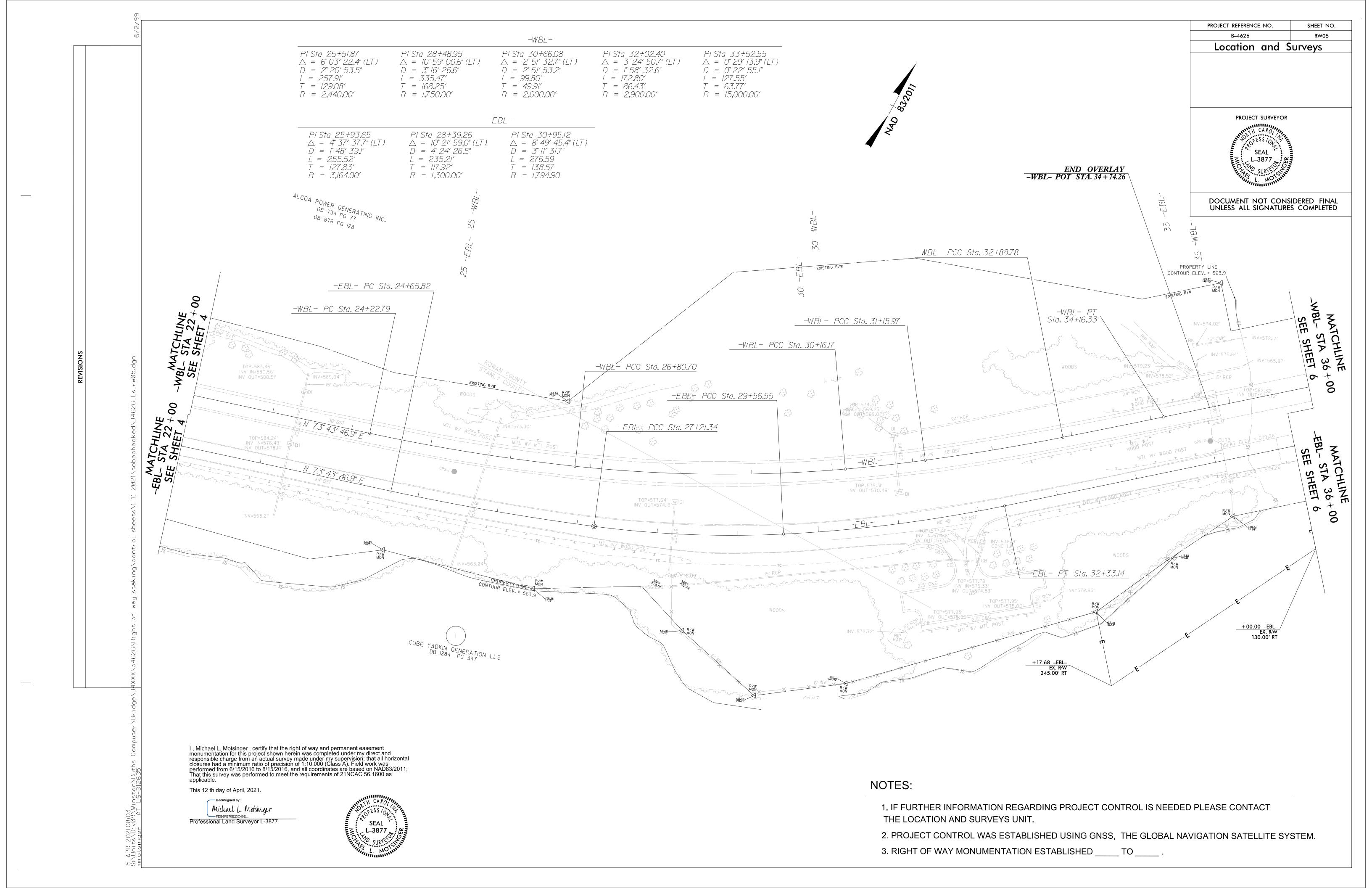
PERMANENT EASEMENT-E EAST STATION 46+56.28 -125.00 641717.2134 1648051.9598

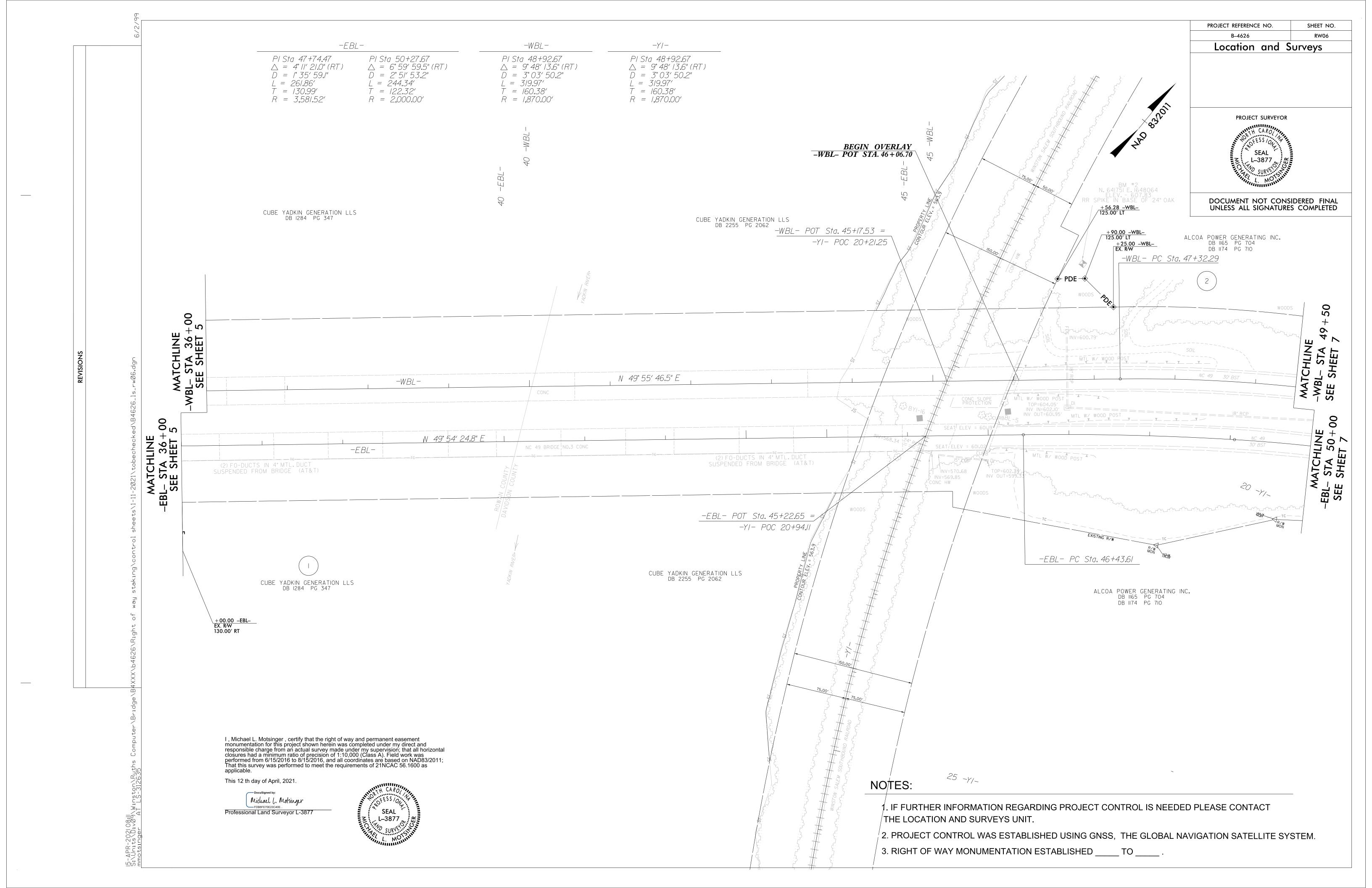
641738.9228

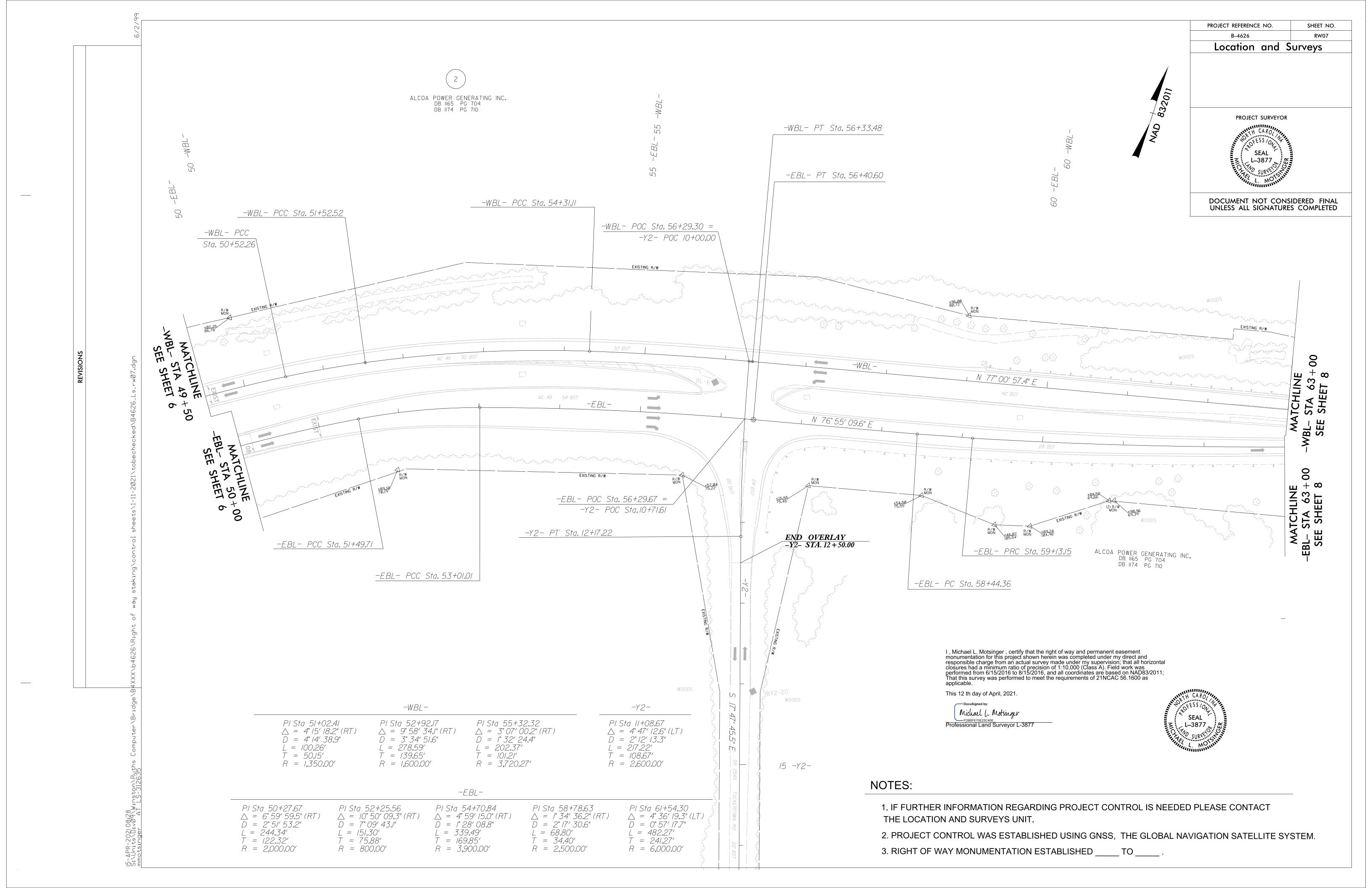
641734.0303

- 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 _____ TO _____ .









B-4626 Location and Surveys PROJECT SURVEYOR ALCOA POWER GENERATING INC.

DB 1165 PG 704

DB 1174 PG 710 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED -WBL- POT Sta. 70+29.95 = -EBL- PT Sta. 70+31.93 I, Michael L. Motsinger, 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 6/15/2016 to 8/15/2016, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as This 12 th day of April, 2021. END CONSTRUCTION END OVERLAY -WBL- POT STA. 70+29.95 Michael L. Motsinger Professional Land Surveyor L-3877 MATCHLINE
-WBL- STA 63+
SEE SHEET 7 N 77°00′57.4″E TO ASHEBORO ----NC 49 33' BST 00 END TIP PROJECT B-4626
-EBL- POC STA. 70+31.93 -EBL- PRC Sta. 63+95.33 -EBL-Pl Sta 61+54.30 △ = 4° 36′ 19.3″ (LT) D = 0° 57′ 17.7″ L = 482.27′ T = 241.27′ R = 6,000.00′ PI Sta 67+13.90 △ = 5° 56′ 22.4″ (RT) D = 0° 55′ 58.7″ L = 636.63′ T = 318.60′ R = 6,141.19′ 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 _____ TO ____ .

PROJECT REFERENCE NO.

SHEET NO.