

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5737	RW01	4

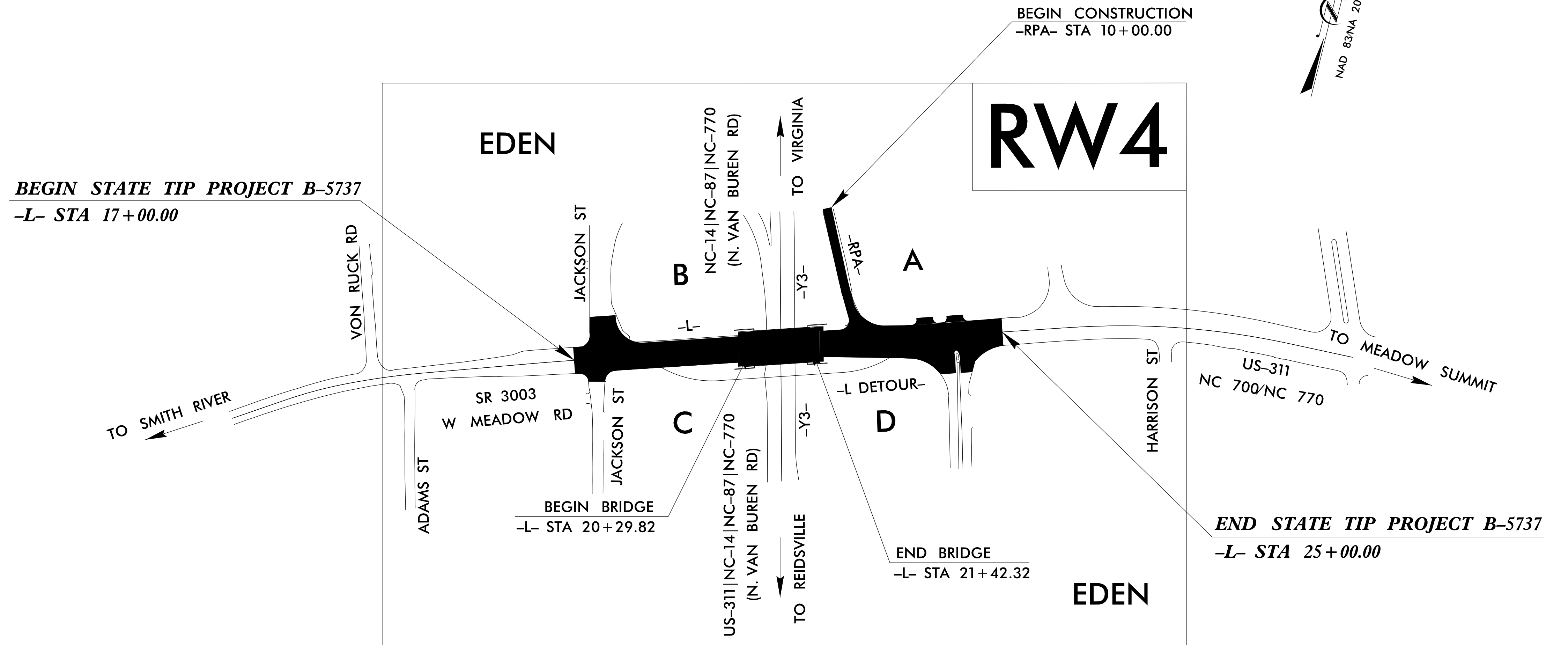
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

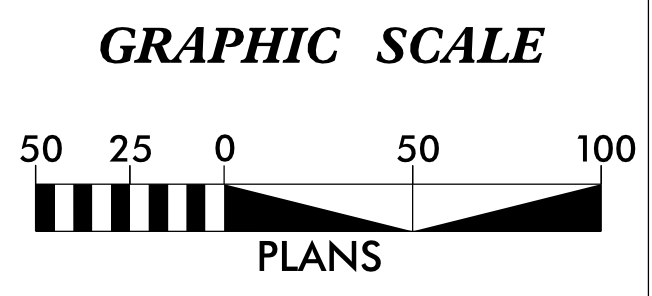
ROCKINGHAM COUNTY

**LOCATION: REPLACE BRIDGE NO. 108 OVER US 311 / NC 14 / NC 87 / NC 770
ON US 311 / NC 700 / NC 770, SR 3003 (W. MEADOW RD)
TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE**

TIP PROJECT: B-5737



04-FEB-2022 10:42
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F.vanderVelde AT WR1701



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B5737-1" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 1004602.010(ft) EASTING: 1782219.292(ft) ELEVATION: 660.59(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999133268
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B5737-1" TO -L- STATION 10+00 IS N 72°08'32" E 2,283.07'(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

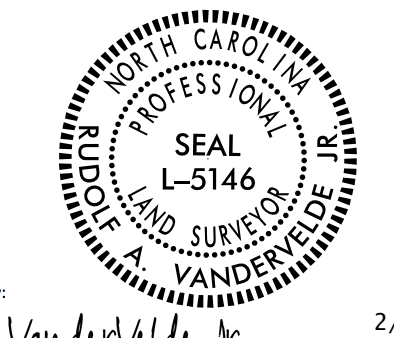


2018 STANDARD SPECIFICATIONS

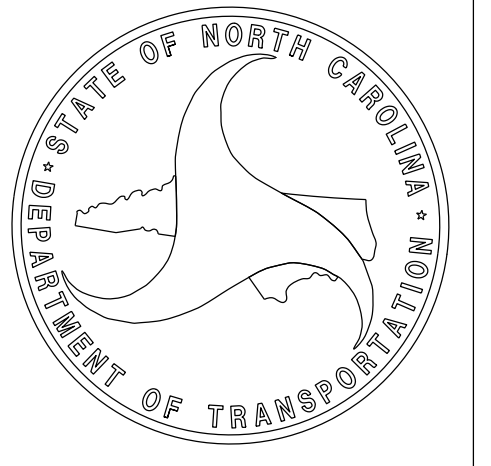
RIGHT OF WAY DATE:
JULY 6, 2021

LETTING DATE:
MARCH 15, 2022

PROFESSIONAL LAND SURVEYOR



DocuSigned by:
Rudolf A. VanderVelde Jr.
SIGNATURE: _____ Date: 2/4/2022



PROJECT REFERENCE NO.	SHEET NO.
B-5737	RW02C-1
Location and Surveys	
INSERT CONSULTANT'S NAME	

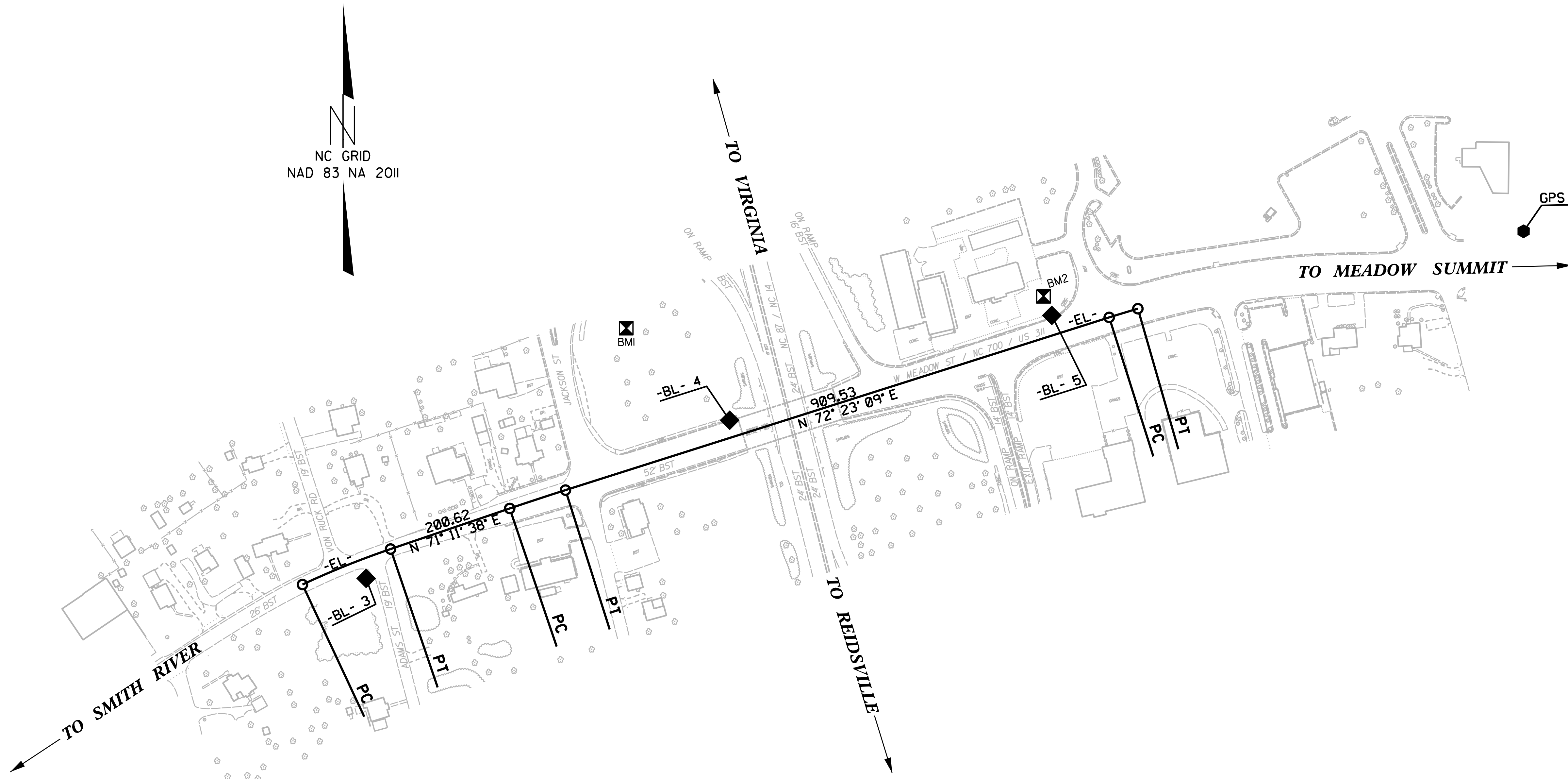
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



GPS B5737-2
(NOT TO SCALE)

GPS B5737-1



REVISIONS

27-SEP-2021 11:23
S:\Units\0580\Bridges\B5737\control-sheet\B5737-1.s-rw02c-1-210923.dgn
semakinnay AT LS-312551

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.

PROJECT REFERENCE NO.	SHEET NO.
B-5737	RW02C-2
Location and Surveys	
INSERT CONSULTANT'S NAME	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
3		BL -3	1004048.8630	1780373.8050	655.96
4		BL -4	1004300.9000	1780953.4880	659.61
5		BL -5	1004467.9330	1781467.0300	660.81
1		B5737-1	1004602.0100	1782219.2920	660.60
2		B5737-2	1004829.9700	1782972.0590	663.92

 BM1 ELEVATION = 656.51
 N 1004448 E 1780789
 SPIKE IN 18" MAPLE

 BM2 ELEVATION = 661.32
 N 1004499 E 1781454
 SOUTHEAST BOLT IN OLD SIGN BASE

NOTES:

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REVISIONS

6/2/99

REVISIONS

09-SEP-2021 15:55
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semakinnay AT LS-312551

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



PROJECT REFERENCE NO.	SHEET NO.
B-5737	RW02C-3
Location and Surveys	
INSERT CONSULTANT'S NAME	

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	1004039.089	1780272.434							
CURVE			N 68°03'43.0" E	151.44	06°15'49.1(RT)	04°08'02.3"	151.52	75.83	1385.97
PT	1004095.668	1780412.909							
LINE			N 71°11'37.6" E	200.62					
PC	1004160.342	1780602.821							
CURVE			N 71°47'23.3" E	93.62	01°11'31.5(RT)	01°16'23.7"	93.63	46.81	4499.99
PT	1004189.600	1780691.756							
LINE			N 72°23'09.0" E	909.53					
PC	1004464.830	1781558.648							
CURVE			N 73°09'23.1" E	47.74	01°32'28.1(RT)	03°13'40.5"	47.74	23.87	1775.01
PT	1004478.664	1781604.343							

NOTES:

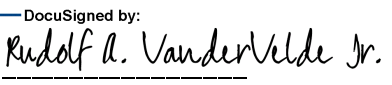
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. B-5737	SHEET NO. RW02D-1
Location and Surveys	
 WithersRavenel Engineers Planners Surveyors	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Rudolf A. VanderVelde Jr., 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 30 day of August, 2021.


 8/30/2021
 Professional Land Surveyor L-5146

DET

TYPE	STATION	NORTH	EAST
POT	10+00.00	1003901.8956	1780046.2185
PC	11+56.50	1003986.7198	1780177.7422
PCC	12+64.80	1004039.0890	1780272.4344
PT	14+16.31	1004095.6679	1780412.9092
PC	16+16.93	1004160.3422	1780602.8211
PT	17+10.56	1004189.6000	1780691.7558
PC	17+67.80	1004206.9198	1780746.3080
PRC	18+72.17	1004210.4445	1780849.3257
PT	19+76.53	1004213.9678	1780952.3390
PC	22+08.88	1004284.2707	1781173.7901
PRC	23+13.26	1004340.8211	1781259.9819
PT	24+17.64	1004397.3702	1781346.1695
PC	26+40.57	1004464.8301	1781558.6478
PCC	26+88.31	1004478.6642	1781604.3429
PT	30+57.66	1004535.3685	1781968.3231
POT	31+79.57	1004538.8507	1782090.1833

RPA

TYPE	STATION	NORTH	EAST
POT	10+00.00	1004572.3224	1781068.3127
PC	11+29.73	1004456.1677	1781126.0877
PT	11+74.50	1004416.6321	1781147.0751
POT	12+54.82	1004346.7074	1781186.6002

Y3

TYPE	STATION	NORTH	EAST
POT	10+00.00	1004547.4200	1780987.8314
POT	15+02.99	1004059.8192	1781111.2837

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	1003901.8956	1780046.2185
PC	11+56.50	1003986.7198	1780177.7422
PCC	12+64.80	1004039.0890	1780272.4344
PT	14+16.31	1004095.6679	1780412.9092
PC	16+16.93	1004160.3422	1780602.8211
PT	17+10.56	1004189.6000	1780691.7558
PC	26+20.09	1004464.8301	1781558.6478
PCC	26+67.84	1004478.6642	1781604.3429
PT	30+37.19	1004535.3685	1781968.3231
POT	31+59.10	1004538.8507	1782090.1833



REVISIONS

30-AUS-2021-1455
 KY-2020-0628
 R. VanderVelde
 Stakeout\Geomatics\NCDOT\Drawings\RW_Sheets\Drawings\B5737_1s_rw02d-1.dgn
 AT: RAV


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

PROJECT REFERENCE NO. B-5737	SHEET NO. RW03E-1
Location and Surveys	
 WithersRavenel Engineers Planners Surveyors	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Rudolf A. VanderVelde Jr., PLS., 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 8/17/21 and 8/25/21, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 31th day of August, 2021.
 Designed by

 Professional Land Surveyor L-5146
 8/31/2021

ROW MARKER PERMANENT EASEMENT - E

ALIGN	STATION	OFFSET	NORTH	EAST
L	15+73.00	25.23	1004122.2959	1780569.3656
L	15+74.00	-29.93	1004174.8321	1780552.5309
L	15+74.00	-44.00	1004188.1526	1780547.9946
L	15+75.00	59.00	1004090.9737	1780582.1452
L	16+03.00	25.84	1004131.3933	1780597.9594
L	16+05.00	58.00	1004101.5914	1780610.2213
L	16+80.00	26.94	1004154.6281	1780670.9883
L	16+80.00	38.00	1004144.1142	1780674.4052
L	16+87.00	39.00	1004145.3027	1780681.3155
L	16+90.00	56.00	1004130.0373	1780689.3639
L	17+04.00	-53.00	1004238.1022	1780669.3934
L	17+08.79	149.00	1004047.0662	1780735.2087
L	17+14.45	59.00	1004134.5439	1780713.3191
L	17+25.46	-100.00	1004289.4220	1780675.7016
L	19+85.00	181.00	1004100.1331	1781008.1008
L	19+89.00	108.00	1004170.9210	1780989.8230
L	19+92.07	59.00	1004218.5529	1780977.9221
L	19+99.54	186.00	1004099.7664	1781023.4688
L	22+71.72	-59.99	1004416.5913	1781208.4568
L	23+45.00	-35.44	1004415.3680	1781285.7251
L	23+47.00	-44.00	1004424.1273	1781285.0425

NOT SET

REVISIONS

3 AUG 2021 15:55
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 AT WR1701
 r.vandervelde

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 8/17/21 TO 8/25/21 .

