

27-JAN-2025 16:58
u:\23\0346-074-B-5985 ROW Staking Div6\Geomatics\NCDOT\RW SHEETS\B5985B_Is_rw01.dgn
rvanderVelde AT WR1963

09/08/99

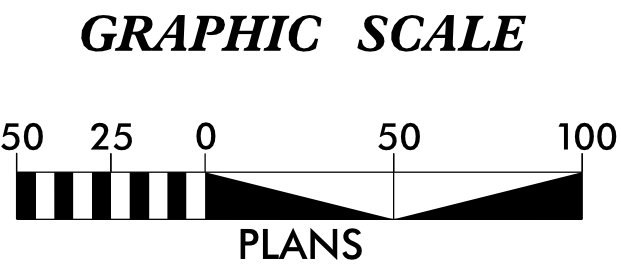
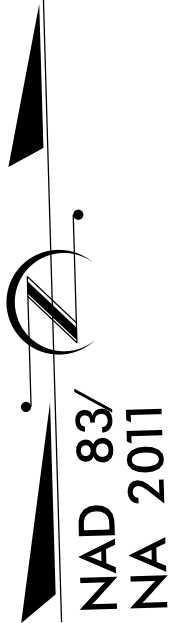
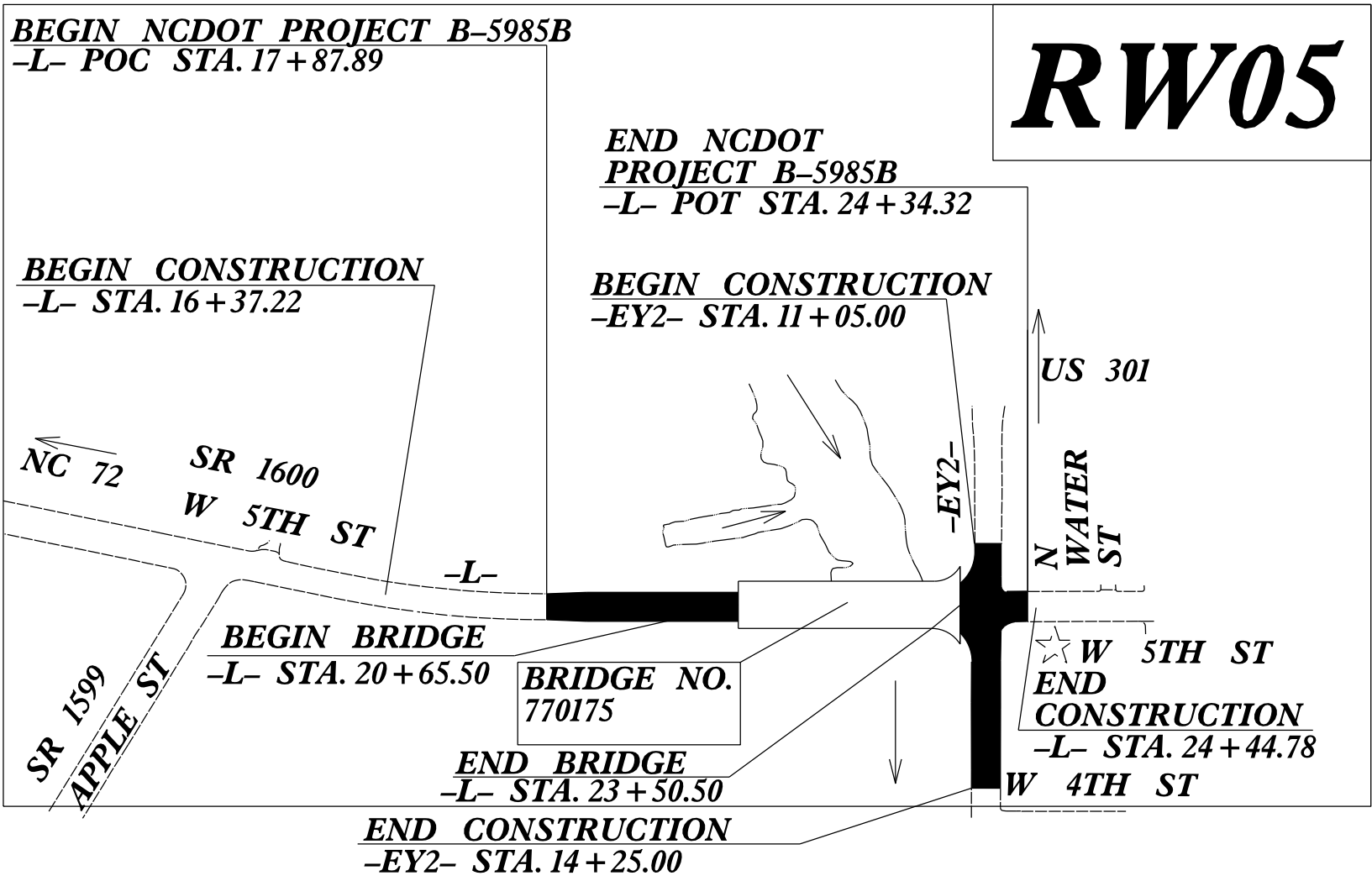
TIP PROJECT: B-5985B

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5985B	RW01	7

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

ROBESON COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U-5524 BL1" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 317,571.352(ft) EASTING: 1,997,005.351(ft) ELEVATION: 136.89(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999931234029 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U-5524 BL1" TO -L- STATION 10+00.00 IS S 64-24'04" W 1599.72(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

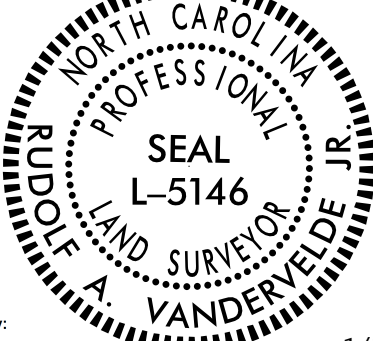
**WithersRavenel**
Engineers | Planners | Surveyors

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
01/27/2022

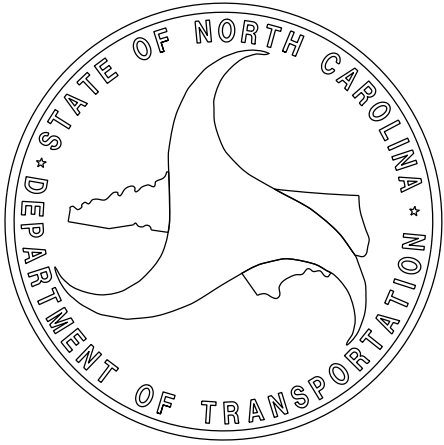
LETTING DATE:
05/20/2025

PROFESSIONAL LAND SURVEYOR



DocuSigned by:
Rudolf A. Vandervelde Jr.
SIGNATURE

1/27/2025
Date:



W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

NAD 83/
NA 2011



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.

REVISIONS

07-JUL-2022 14:21
\\01V06-314142\Projects\Control Sheets\B5985\work\c.b5985.LS.rw02c-2.dgn
Jenorris AT LSD6-312626

SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
B-5985	RW02C-2
Location and Surveys	
NCDOT LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
8		B5985 BL -8	316847.6532	1995532.0070	117.11
102		B5985 GPS -10	316753.6819	1996006.3321	117.27
1		B5985 BL -1	316689.1078	1996440.9032	120.40
105		U5524 BL -5	316667.9917	1996964.1310	132.98

BY	POINT	DESC.	NORTH	EAST	ELEVATION
7		B5985 BL -7	316617.9309	1995326.5584	119.20
101		B5985 GPS -10	316380.0360	1995670.5558	119.56
6		B5985 BL -6	316127.2449	1995942.4984	120.70
5		B5985 BL -5	315937.8593	1996408.5622	123.40
4		B5985 BL -4	315863.3428	1996876.2969	121.57

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
50		U5524 BL -5	316667.9917	1996964.1310	132.98
2		B5985 BL -2	316399.7516	1996896.6706	126.83
3		B5985 BL -3	316136.7629	1996933.8089	118.57
40		B5985 BL -4	315863.3428	1996876.2969	121.57

BM1 ELEVATION = 118.49
N 316724 E 1996085
RR SPIKE IN BASE OF 20" OAK

BM2 ELEVATION = 124.25
N 316000 E 1996394
RR SPIKE IN BASE OF 10" PEAR

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.

REVISIONS

Q7-JUL-2022 14:23
\\01V06-314142-projects\Control Sheets\B5985\work\c.b5985_LS-rw02c-3.dgn
Jenorris AT LSD6-312626

SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
B-5985	RW02C-3
Location and Surveys	
NCDOT LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348	

EL									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	316880.165	1995562.652							
LINE			S 76°47'56.4" E	508.69					
POT	316763.997	1996057.899							
LINE			S 76°47'56.4" E	72.87					
PC	316747.356	1996128.842							
CURVE			S 82°33'58.9" E	255.90	11°32'05.1"(LT)	04°30'00.0"	256.33	128.60	1273.24
PT	316714.249	1996382.587							
LINE			S 88°20'01.5" E	549.70					
POT	316698.265	1996932.054							
LINE			S 88°20'01.5" E	197.42					
POT	316692.524	1997129.389							

EY									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	316533.147	1995391.479							
LINE			S 55°32'25.3" E	461.06					
POT	316272.266	1995771.637							
LINE			S 55°32'25.3" E	85.75					
PC	316223.748	1995842.337							
CURVE			S 71°57'15.9" E	1079.37	32°49'41.4"(LT)	03°00'00.0"	1094.27	562.61	1909.86
PT	315889.390	1996868.608							
LINE			S 88°22'06.6" E	38.05					
POT	315888.306	1996906.646							
LINE			S 88°22'06.6" E	220.87					
POT	315882.018	1997127.426							

EY1				
POINT	N	E	BEARING	DIST
POT	316781.781	1995982.083		
LINE			S 33°23'35.4" W	539.28
POT	316331.531	1995685.275		

EY2				
POINT	N	E	BEARING	DIST
POT	316898.157	1996938.324		
LINE			S 01°47'48.3" W	1182.36
POT	315716.383	1996901.253		

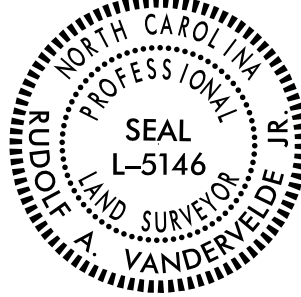
NOTES:

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.

REVISIONS

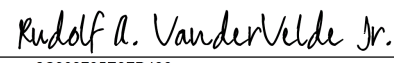
27 JAN 2025 16:55
C:\Users\rvandervelde\OneDrive\Documents\Projects\B5985B\B5985B_ROW_Staking_Div6\Geometrics\NCDOT\RW_SHEETS\B5985B_Ls-rw02d-1.dgn
r.vandervelde
AT WR1963

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
B-5985B	RW02D-1
Location and Surveys	
WITHERSRAVENEL INC.	
PROJECT SURVEYOR 	
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 27th of January, 2025.

DocuSigned by:
 1/27/2025
Professional Land Surveyor L-5146

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	316880.1650	1995562.6523
PC	15+81.56	316747.3558	1996128.8425
PT	18+37.89	316714.2486	1996382.5871
POT	25+85.00	316692.5244	1997129.3890

EY2

TYPE	STATION	NORTH	EAST
POT	10+00.00	316898.1575	1996938.3242
POT	21+82.36	315716.3826	1996901.2528

NOTES:

- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 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.

REVISIONS

RIGHT OF WAY CONTROL SHEET

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	17+87.89	45.00	316671.7881	1996329.5804
L	17+87.89	-50.00	316766.5663	1996336.0685
L	17+87.89	-30.00	316746.6130	1996334.7026
L	17+87.89	30.00	316686.7531	1996330.6049
L	18+56.50	45.00	316668.7263	1996399.8890
L	18+65.00	-50.00	316763.4391	1996411.1436
L	19+12.00	45.00	316667.1126	1996455.3614
L	19+50.00	-50.00	316760.9675	1996496.1076
L	19+50.00	-70.00	316780.9591	1996496.6892
L	20+00.00	80.00	316629.5686	1996542.3064
L	21+00.00	-70.00	316776.5974	1996646.6258
L	21+00.00	-45.00	316751.6080	1996645.8988
L	21+00.00	45.00	316661.6461	1996643.2819
L	21+00.00	80.00	316626.6609	1996642.2642
L	21+90.31	-45.00	316748.9819	1996736.1750
L	21+92.06	-30.00	316733.9376	1996737.4791
L	21+97.80	30.00	316673.7961	1996741.4729
L	22+00.73	45.00	316658.7171	1996743.9685
L	22+91.16	-45.00	316746.0494	1996836.9830
L	22+95.93	-30.00	316730.9172	1996841.3116
L	23+09.85	30.00	316670.5378	1996853.4819
L	23+10.00	45.00	316655.5398	1996853.1931
L	23+13.95	-45.00	316745.3870	1996859.7551
L	23+37.33	110.00	316589.7725	1996878.6258
L	23+37.38	90.00	316609.7627	1996879.2528
L	23+39.73	-110.00	316809.6097	1996887.4223
L	23+60.33	110.00	316589.1037	1996901.6161
L	23+60.83	-110.00	316808.9961	1996908.5131
L	24+14.46	55.56	316641.9493	1996957.3004
L	24+44.78	27.00	316669.6132	1996988.4391

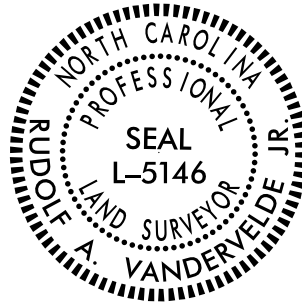
ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	16+37.22	-30.00	316765.3122	1996188.8584
L	17+09.56	-30.00	316754.1793	1996258.6086
L	17+87.89	70.00	316646.8465	1996327.8731
L	17+87.89	-65.00	316781.5313	1996337.0929
L	17+87.89	-60.00	316776.5430	1996336.7514
L	18+26.81	69.61	316645.0547	1996368.8924
L	18+27.58	-104.74	316819.2546	1996376.1756
L	18+56.21	70.00	316643.7455	1996398.8641
L	18+65.00	-65.00	316778.4328	1996411.5798
L	18+65.00	-80.49	316793.9165	1996412.0302
L	20+16.00	-70.00	316779.0399	1996562.6613
L	20+16.00	-85.00	316794.0336	1996563.0975
L	20+46.00	-70.00	316778.1676	1996592.6486
L	20+46.00	-85.00	316793.1613	1996593.0848
L	21+53.24	-159.25	316864.2610	1996702.4378
L	21+67.70	-131.25	316835.8580	1996716.0746

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 01/14/2025 to 01/17/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This is the day of JANUARY, 2025.
Rudolf A. Vandervelde Jr.
Professional Land Surveyor L-5146

1/27/2025

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

NOT SET, FELL IN WATER

NOT SET, FELL IN WATER

NOT SET, FELL IN WATER

NOT SET, FELL IN WATER

NOT SET, FELL IN WATER

NOT SET, FELL IN WATER

NOT SET, FELL IN WATER

NOT SET, FELL IN WATER

NOT SET, FELL IN WATER

NOT SET, FELL IN WATER

NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED 01/14/2025 TO 01/17/2025 .

REVISIONS

6/2/29

27-MN-2025-1856
31-23-00346-0147
B-5985 ROW Staking Div6 Geomatics\NCD01\RW SHEETS\B5985B-1s-rw05.dgn
R. VanderVelde
AT WR 1963

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 01/14/25 TO 01/17/25 .

-L-
PI Sta 17+10.16
 $\Delta = 11^{\circ} 32' 05.1''$ (LT)
 $D = 4^{\circ} 30' 00.0''$
 $L = 256.33'$
 $T = 128.60'$
 $R = 1,273.24'$
 $SE = .025$ NC
 $RO = SEE$ PLANS
 $DS = 40$ MPH



PROJECT REFERENCE NO.	SHEET NO.
B-5985B	RW05
Location and Surveys	
WITHERSRAVENEL INC.	
PROJECT SURVEYOR	
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 1/14/25 to 1/17/25, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21 NCAC 56.1800 as applicable.

This 27th day of JANUARY, 2025.

Rudolf A. VanderVelde, Jr.
Professional Land Surveyor L-5146
1/27/2025

