


# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO. BR-0139	SHEET NO. RW02C-4
<b>Location and Surveys</b>	
WITHERSRAVENEL INC 115 MACKENAN DR CARY NC 27511 OFFICE #: 919-469-3340 LICENSE#: F-1479	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
BL -2		TRV CAP & REBAR	130925.3290	2311102.4680	22.52
BL -3		TRV CAP & REBAR	130208.1740	2311418.0020	21.64
BL -4		TRV CAP & REBAR	126710.9480	2313312.7220	25.09
BL -5		TRV CAP & REBAR	125974.5080	2313636.5590	20.26

I, RUDOLF A. VANDERVELDE JR., PLS, certify that the Baseline Control (BL2, BL3, BL4, BL5) 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 10/25/2021 to 11/12/2021, 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 29TH day of FEBRUARY, 2024.

DocuSigned by:  
 2/29/2024  
 2C200785E8FD436

Professional Land Surveyor L-5146

DATUM DESCRIPTION, GPS 1, GPS2, GPS3 AND BL1 PROVIDED BY NCDOT: (SEE DATUM DESCRIPTION BELOW)

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE NAD 1983/NA 2011 STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR GPS MONUMENT "GPS2" WITH A NORTHING OF 128194.280; EASTING OF 2312445.227; ELEVATION OF 15.128'. THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS 1.0000786326. ALL LINEAR DISTANCES ARE LOCALIZED HORIZONTAL DISTANCES. THE VERTICAL DATUM IS NAVD 88.

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	130953.117	2311067.159							
LINE			S 26°40'58.7" E	511.49					
PC	130496.102	2311296.844							
CURVE			S 26°34'04.9" E	40.12	00°13'47.6"(RT)	00°34'22.6"	40.12	20.06	10000.00
PT	130460.215	2311314.789							
LINE			S 26°27'11.1" E	354.42					
PC	130142.906	2311472.670							
CURVE			S 26°19'45.2" E	21.62	00°14'51.8"(RT)	01°08'45.3"	21.62	10.81	5000.00
PT	130123.531	2311482.258							
LINE			S 26°12'19.3" E	75.79					
PC	130055.534	2311515.724							
CURVE			S 26°22'23.7" E	29.30	00°20'08.8"(LT)	01°08'45.3"	29.30	14.65	5000.00
PT	130029.282	2311528.740							
LINE			S 26°32'28.1" E	844.01					
PC	129274.223	2311905.877							
CURVE			S 26°37'52.9" E	15.75	00°10'49.6"(LT)	01°08'45.3"	15.75	7.87	5000.00
PT	129260.147	2311912.935							
LINE			S 26°43'17.7" E	164.40					
PC	129113.304	2311986.858							
CURVE			S 26°30'44.9" E	36.50	00°25'05.5"(RT)	01°08'45.3"	36.50	18.25	5000.00
PT	129080.647	2312003.149							
LINE			S 26°18'12.2" E	123.22					
PC	128970.185	2312057.751							
CURVE			S 26°37'55.5" E	392.74	00°39'26.7"(LT)	00°10'02.6"	392.74	196.37	34229.07
PCC	128619.111	2312233.802							
CURVE			S 28°54'45.0" E	433.08	03°54'12.3"(LT)	00°54'04.1"	433.17	216.67	6358.19
PT	128240.007	2312443.187							
LINE			S 30°51'51.1" E	803.91					
PC	127549.946	2312855.594							
CURVE			S 28°31'03.9" E	557.57	04°41'34.4"(RT)	00°50'29.1"	557.73	279.02	6809.35
PT	127060.023	2313121.797							
LINE			S 26°10'16.7" E	330.39					
PC	126763.504	2313267.519							
CURVE			S 26°20'16.8" E	29.09	00°20'00.1"(LT)	01°08'45.3"	29.09	14.55	5000.00
PT	126737.432	2313280.425							
LINE			S 26°30'16.8" E	293.72					
PC	126474.579	2313411.506							
CURVE			S 26°23'45.5" E	18.97	00°13'02.7"(RT)	01°08'45.3"	18.97	9.49	5000.00
PT	126457.583	2313419.941							
LINE			S 26°17'14.1" E	165.15					
PC	126309.515	2313493.080							
CURVE			S 26°07'18.9" E	28.85	00°19'50.3"(RT)	01°08'45.3"	28.85	14.43	5000.00
PT	126283.608	2313505.784							
LINE			S 25°57'23.8" E	242.66					
POT	126065.429	2313611.993							

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 BM2 ELEVATION = 22.60  
 N 129680 E 2311618  
 RR SPIKE IN BASE OF 18" PINE  
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 BM3 ELEVATION = 17.17  
 N 128118 E 2312257  
 RR SPK IN BASE OF 14" PINE  
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 BM4 ELEVATION = 20.34  
 N 126003 E 2313675  
 RR SPK IN BASE OF 24" POPLAR  
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### 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.

REVISIONS

29-FEB-2024 08:06  
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 R.vandervelde AT WRI963