
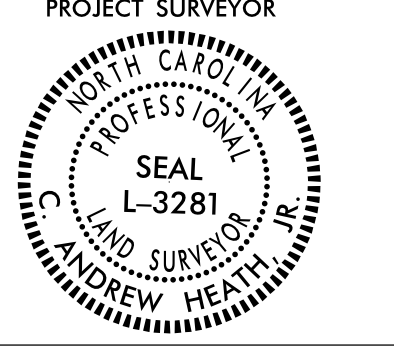


# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5930	RW02C-5
<b>Location and Surveys</b>	
 <small>NV5 ENGINEERS &amp; CONSULTANTS, INC. 6750 TRYON ROAD DURHAM, NC 27715 P: 919.851.1912 www.nv5.com NC License # P-1233 Formerly C&amp;A Engineers &amp; Consultants</small>	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

I, C. Andrew Heath, Jr., PLS, certify that the Project Control was performed 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  
 Dates of survey: 3/01/2020 - 3/09/2020  
 Datum/Epoch: nad83 (2011)  
 Published/Fixed-control use: N/A  
 Localized around: R5930-1  
 Northing: 721,723.517  
 Easting: 1,956,011.32  
 Combined grid factor: 0.999868290  
 Geoid model: 12B (Conus)  
 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 3/11/2020 to 4/22/2020, 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 Sheet was originally submitted to NCDOT on 5/12/2020 without this certification as which was not required or requested at that time. This certification is to the date of original submittal of 5/12/2020.

Witness my hand and seal,

This 14th day of June, 2023.

*C. Andrew Heath Jr.*  
 23061489929747E

Professional Land Surveyor L-3281

ELA POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	721081.228	1955752.031							
CURVE			N 18°34'01.3" E	324.10	19°38'35.6"(RT)	06°01'52.1"	325.70	164.46	950.00
PT	721388.463	1955855.230							
LINE			N 28°23'19.1" E	1201.04					
POT	722445.068	1956426.264							

ELB POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	733510.644	1952632.343							
LINE			N 39°14'00.0" W	90.13					
PC	733580.457	1952575.337							
CURVE			N 63°51'02.0" W	123.00	49°14'04.0"(LT)	38°48'27.9"	126.87	67.65	147.64
PT	733634.665	1952464.926							
LINE			N 88°28'04.0" W	165.17					
PC	733639.082	1952299.818							
CURVE			N 86°28'21.2" W	114.78	03°59'25.7"(RT)	03°28'33.3"	114.80	57.42	1648.36
PCC	733646.144	1952185.256							
CURVE			N 72°03'40.4" W	290.68	24°49'55.9"(RT)	08°28'33.9"	292.97	148.82	675.97
PCC	733735.673	1951908.707							
CURVE			N 58°13'42.9" W	244.14	02°49'59.2"(RT)	01°09'37.2"	244.16	122.11	4937.85
PT	733864.219	1951701.153							
LINE			N 56°48'43.3" W	153.33					
PC	733948.152	1951572.830							
CURVE			N 67°04'41.3" W	286.26	20°31'55.9"(LT)	07°08'03.0"	287.80	145.46	803.12
PCC	734059.645	1951309.171							
CURVE			N 78°45'35.0" W	162.11	02°49'51.6"(LT)	01°44'46.4"	162.12	81.08	3281.15
PCC	734091.243	1951150.175							
CURVE			N 72°56'16.3" W	227.92	14°28'28.8"(RT)	06°20'02.3"	228.52	114.87	904.58
PT	734158.116	1950932.289							
LINE			N 65°42'01.9" W	277.63					
POT	734272.365	1950679.251							

EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	723485.655	1954723.002							
LINE			S 38°38'51.1" E	721.83					
PC	722921.904	1955173.804							
CURVE			S 44°35'47.9" E	2726.26	11°53'53.6"(LT)	00°26'08.3"	2731.17	1370.51	13151.93
PT	720980.621	1957087.946							
LINE			S 50°32'44.7" E	1909.70					
POT	719767.079	1958562.486							

EY1LPA POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	722420.136	1956412.789							
LINE			S 49°52'56.9" E	246.30					
PC	722261.434	1956601.138							
CURVE			S 18°49'55.6" E	293.87	61°29'04.7"(RT)	19°55'58.0"	308.46	170.96	287.44
PCC	721983.294	1956695.998							
CURVE			S 47°51'10.4" W	317.72	71°53'14.0"(RT)	21°10'15.7"	339.55	196.22	270.63
PCC	721770.094	1956460.435							
CURVE			N 72°39'25.2" W	227.77	47°05'34.8"(RT)	20°05'53.5"	234.31	124.23	285.08
PT	721837.992	1956243.016							
LINE			N 49°06'37.7" W	66.74					
POT	721881.682	1956192.561							

EY1RPA POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	722445.068	1956426.264							
LINE			S 49°52'56.9" E	260.30					
PC	722277.341	1956625.323							
CURVE			S 37°21'58.6" E	183.06	25°01'56.7"(RT)	13°33'57.0"	184.53	93.76	422.35
PCC	722131.849	1956736.425							
CURVE			S 18°56'37.2" E	160.05	11°48'46.1"(RT)	07°22'02.7"	160.34	80.45	777.69
PCC	721980.463	1956788.385							
CURVE			S 10°18'23.3" E	114.31	05°27'41.6"(RT)	04°46'33.5"	114.36	57.22	1199.67
PT	721867.995	1956808.836							
LINE			S 07°34'32.5" E	195.60					
PC	721674.105	1956834.623							
CURVE			S 29°02'04.2" E	875.57	42°55'03.6"(LT)	04°47'16.4"	896.38	470.39	1196.68
PT	720908.572	1957259.568							

EY1LPD POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	721332.270	1955827.219							
LINE			S 56°33'51.3" E	336.26					
PC	721146.987	1956107.834							
CURVE			S 62°31'29.9" E	74.12	11°55'17.1"(LT)	16°03'21.5"	74.25	37.26	356.85
PCC	721112.793	1956173.590							
CURVE			N 47°56'04.6" E	406.22	127°09'34.1"(LT)	25°15'47.1"	503.34	456.47	226.80
PCC	721384.950	1956475.158							
CURVE			N 31°10'55.6" W	160.62	31°04'26.3"(LT)	19°06'36.7"	162.60	83.36	299.82
PT	721522.363	1956391.996							

EY1RPD POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	721299.519	1955812.963							
LINE			S 56°26'41.7" E	332.56					
PC	721115.699	1956090.105							
CURVE			S 72°29'11.7" E	218.80	32°05'00.1"(LT)	14°28'21.2"	221.68	113.83	395.89
PT	721049.856	1956298.762							
LINE			S 88°31'41.8" E	239.89					
PC	721043.694	1956538.573							
CURVE			S 69°30'38.9" E	759.29	38°02'05.7"(RT)	04°55'04.0"	773.42	401.56	1165.07
PT	720777.919	1957249.831							

EY2 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	723590.233	1954853.781							
LINE			S 38°39'40.7" E	1047.06					
PC	722772.636	1955507.893							
CURVE			S 65°05'37.0" E	404.71	52°51'52.5"(LT)	12°36'14.2"	419.43	225.98	454.59
PT	722602.198	1955874.963							
LINE			N 88°28'26.8" E	173.66					
PC	722606.822	1956048.559							
CURVE			S 70°42'15.1" E	336.69	41°38'36.3"(RT)	12°05'53.1"	344.21	180.11	473.59
PT	722495.565	1956366.334							
LINE			S 49°52'56.9" E	78.37					
POT	722445.068	1956426.264							

EY3 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	732348.872	1951784.096							
CURVE			N 33°49'31.3" E	192.29	01°23'10.6"(LT)	00°43'15.2"	192.30	96.15	7947.91
PT	732508.618	1951891.140							
LINE			N 33°07'56.0" E	754.64					
PC	733140.567	1952303.608							
CURVE			N 36°16'16.0" E	214.24	06°16'40.0"(RT)	02°55'43.9"	214.34	107.28	1956.25
PCC	733313.289	1952430.351							
CURVE			N 50°24'09.7" E	494.23	21°59'07.4"(RT)	04°25'16.4"	497.27	251.73	1295.93
PCC	733628.302	1952811.174							
CURVE			N 63°55'50.7" E	204.17	05°04'14.6"(RT)	02°28'58.2"	204.23	102.18	2307.69
PT	733718.024	1952994.568							
LINE			N 66°27'58.0" E	375.44					
PC	733867.934	1953338.779							
CURVE			N 65°21'43.1" E	195.50	02°12'29.9"(LT)	01°07'46.2"	195.51	97.77	5072.63
PCC	733949.433	1953516.478							
CURVE			N 49°38'55.9" E	1158.49	29°13'04.5"(LT)	02°29'41.4"	1171.14	598.60	2296.58
PT	734699.521	1954399.353							

EY4 POINT	N	E	BEARING	DIST	DELTA
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