

REVISIONS

27-MAR-2025 02:42 J:\23\0346-081-NC-9.CON_WHR DIV14\Geomatics\OUT\3-27-25 Contr-ol Sheets\NC9.LS.RW02C-3.dgn
3-23-0346-081-NC-9.CON_WHR AT WRI963
r.vondervalde

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	636107.277	1020442.592	N 13°36'01.0" E	222.17					
LINE									
PC	636323.221	1020494.836	N 11°07'26.4" E	262.17	04°57'09.4"(LT)	01°53'18.5"	262.25	131.21	3033.96
CURVE	636580.467	1020545.417	N 00°38'51.7" E	126.78					
PT	636705.801	1020564.479	N 08°10'56.8" E	16.24	00°55'49.7"(LT)	05°43'46.5"	16.24	8.12	1000.00
CURVE	636721.875	1020566.790	N 07°43'02.0" E	311.29					
LINE									
PC	637030.350	1020608.592	N 08°55'18.3" E	144.67	02°24'32.5"(RT)	01°39'54.2"	144.68	72.35	3441.08
CURVE	637173.271	1020631.028	N 10°07'34.5" E	275.57					
PT	637444.547	1020679.478	N 11°45'47.4" E	222.21	03°16'25.8"(RT)	01°28'23.1"	222.24	111.15	3889.54
CURVE	637662.094	1020724.780	N 18°37'53.3" E	120.43	10°27'46.0"(RT)	08°40'33.0"	120.60	60.47	660.41
PCC	637776.212	1020763.255	N 27°26'46.4" E	128.98	07°10'00.2"(RT)	05°33'09.6"	129.07	64.62	1031.86
CURVE	637890.678	1020822.706	N 31°01'46.5" E	127.81					
PT	638000.200	1020888.590	N 27°34'32.8" E	150.01	06°54'27.5"(LT)	04°36'06.9"	150.10	75.14	1245.04
CURVE	638133.171	1020958.034	N 20°13'48.8" E	219.09	07°47'00.4"(LT)	03°32'59.4"	219.26	109.80	1614.05
PCC	638338.749	1021033.795	N 16°20'18.6" E	107.87					
CURVE	638442.261	1021064.140	N 23°29'29.6" E	207.58	14°18'21.9"(RT)	06°52'25.9"	208.12	104.61	833.53
LINE									
PC	638632.639	1021146.885	N 37°39'08.6" E	172.78	14°00'56.2"(RT)	08°05'29.1"	173.22	87.04	708.11
CURVE	638769.437	1021252.433	N 52°15'38.3" E	153.93	15°12'03.2"(RT)	09°50'46.1"	154.38	77.65	581.91
PCC	638863.654	1021374.163	N 67°51'45.1" E	204.54	16°00'10.3"(RT)	07°47'53.9"	205.21	103.28	734.72
CURVE	638940.732	1021563.628	N 75°51'50.2" E	203.03					
PT	638990.318	1021760.511	N 68°23'25.5" E	131.07	14°56'49.5"(LT)	11°22'18.2"	131.44	66.10	503.84
CURVE	639038.587	1021882.367	N 43°23'49.6" E	190.38	35°02'22.2"(LT)	18°07'09.3"	193.38	99.82	316.22
PCC	639176.922	1022013.170	N 14°12'35.8" E	154.23	23°20'05.5"(LT)	15°01'31.6"	155.30	78.74	381.33
CURVE	639326.434	1022051.030	N 02°32'33.0" E	130.16					
PT	639456.469	1022056.804	N 09°50'49.9" E	267.49	14°36'33.7"(RT)	05°26'48.6"	268.22	134.84	1051.91
CURVE	639720.019	1022102.551	N 19°29'53.4" E	165.27	04°41'33.4"(RT)	02°50'18.9"	165.31	82.70	2018.46
PCC	639875.810	1022157.714	N 21°50'40.1" E	106.23					
CURVE	639974.413	1022197.241	N 27°53'19.2" E	97.52	12°05'18.3"(RT)	12°22'20.2"	97.71	49.03	463.10
LINE									
PC	640060.611	1022242.859	N 48°04'14.0" E	151.35	28°16'31.2"(RT)	18°29'34.6"	152.90	78.04	309.83
CURVE	640161.746	1022355.459	N 83°09'19.4" E	191.26	41°53'39.5"(RT)	21°25'09.2"	195.59	102.40	267.50
PCC	640184.541	1022545.360	S 61°29'52.0" E	168.16	28°47'57.7"(RT)	16°56'48.3"	169.94	86.81	338.09
CURVE	640104.297	1022693.136	S 42°41'29.0" E	75.09	08°48'48.4"(RT)	11°43'29.5"	75.17	37.66	488.67
PCC	640049.101	1022744.054	S 38°17'04.8" E	92.90					
CURVE	639976.179	1022801.613	S 41°36'53.0" E	81.52	06°39'36.4"(LT)	08°09'53.8"	81.57	40.83	701.73
LINE									
PC	639915.230	1022855.754	S 56°30'50.8" E	101.29	23°08'19.1"(LT)	22°41'19.3"	101.98	51.70	252.53
CURVE	639859.344	1022940.234	S 71°06'47.1" E	86.78	06°03'33.4"(LT)	06°58'44.7"	86.82	43.45	820.97
PCC	639831.253	1023022.342	S 89°41'34.8" E	111.79	31°06'02.0"(LT)	27°28'52.2"	113.17	58.02	208.49
CURVE	639830.654	1023134.126	N 62°07'17.9" E	133.06	25°16'12.6"(LT)	18°50'19.2"	134.14	68.18	304.14
PCC	639892.870	1023251.739	N 19°16'06.9" E	285.26	60°26'09.6"(LT)	20°13'04.6"	298.92	165.06	283.39
CURVE	640162.147	1023345.873	N 21°29'16.5" W	134.01	21°04'37.1"(LT)	15°38'20.5"	134.77	68.16	366.36
PCC	640286.845	1023296.784	N 32°01'35.0" W	112.41					
CURVE	640382.149	1023237.170	N 28°04'50.7" W	160.98	07°53'28.6"(RT)	04°53'53.0"	161.11	80.68	1169.77
LINE									
PC	640524.182	1023161.393	N 18°55'38.7" W	76.05	10°24'55.5"(RT)	13°40'35.3"	76.16	38.18	418.94
CURVE	640596.121	1023136.724	N 07°37'33.5" W	182.31	12°11'14.9"(RT)	06°40'21.3"	182.65	91.67	858.67
PCC	640776.814	1023112.531	N 01°31'56.1" W	193.06					
CURVE	640969.805	1023107.369	N 05°15'09.3" W	107.27	07°26'26.4"(LT)	06°55'54.6"	107.34	53.75	826.56
LINE									
PC	641076.619	1023097.549	N 13°48'54.0" W	116.17	09°41'02.9"(LT)	08°19'33.5"	116.31	58.30	688.16
CURVE	641189.433	1023069.808	N 24°30'14.1" W	97.90	11°41'37.2"(LT)	11°55'24.4"	98.07	49.21	480.53
PCC	641278.518	1023029.202	N 35°10'35.6" W	167.93	09°39'05.8"(LT)	05°44'25.9"	168.13	84.26	998.09
CURVE	641415.783	1022932.457	N 40°00'08.5" W	129.87					
PT	641515.263	1022848.975	N 37°12'03.2" W	118.89	05°36'10.7"(RT)	04°42'39.1"	118.94	59.52	1216.25
CURVE	641609.961	1022777.094	N 27°27'57.7" W	149.53	13°52'00.2"(RT)	09°15'03.0"	149.90	75.32	619.36
PCC	641742.638	1022708.126	N 17°19'58.1" W	119.91	06°23'59.1"(RT)	05°20'04.2"	119.97	60.05	1074.06
CURVE	641857.100	1022672.404	N 12°16'07.3" W	290.56	03°43'42.4"(RT)	01°16'58.7"	290.61	145.35	4465.82
PCC	642141.020	1022610.662	N 04°57'38.2" W	249.72	10°53'15.8"(RT)	04°21'12.6"	250.09	125.42	1316.08
CURVE	642389.799	1022589.068	N 07°20'40.9" E	447.29	13°43'22.4"(RT)	03°03'38.4"	448.36	225.26	1872.01
PCC	642833.423	1022646.250	N 21°43'26.2" E	176.83	15°02'08.2"(RT)	08°28'42.6"	177.34	89.18	675.78
CURVE	642997.694	1022711.701	N 31°08'55.8" E	201.23	03°48'51.1"(RT)	01°53'42.3"	201.27	100.67	3023.40
PT	643169.912	1022815.790	N 33°03'21.4" E	1328.70					
CURVE	644283.547	1023540.540	N 31°30'42.5" E	149.86	03°05'17.7"(LT)	02°03'37.7"	149.88	74.96	2780.70
PCC	644411.310	1023618.869	N 26°47'25.6" E	129.22	06°21'16.1"(LT)	04°54'54.7"	129.28	64.71	1165.69
CURVE	644526.656	1023677.110							
PT									

BM1 ELEVATION = 2058.51
N 644025 E 1023397
BL STATION 17+74.00 33 LEFT
BM TIE IN BASE OF 16"POPLAR

BM2 ELEVATION = 2020.65
N 641998 E 1022697
BL STATION 40+52.00 53 LEFT
BM TIE IN BASE OF 12"POPLAR

BM3 ELEVATION = 1765.06
N 640066 E 1022207
BL STATION 56+83.00 1079 RIGHT
BM TIE IN BASE OF 14"OAK

BM4 ELEVATION = 1599.56
N 638582 E 1021161
BL STATION 95+08.00 45 LEFT
BM TIE IN BASE OF 26"SYCAMORE

BM5 ELEVATION = 1506.28
N 636945 E 1020617
BL STATION 112+88.00 36 LEFT
BM TIE IN BASE OF 24"SYCAMORE

BL	POINT	DESC.	NORTH	EAST	ELEVATION
WR1		NC9-1	645204.2871	1023759.3455	2092.34
WR2		NC9-2	644580.8090	1023730.8930	2082.43
WR101		BL-101	644115.9240	1023410.1520	2056.94
WR102		BL-102	643647.8250	1023147.1110	2033.45
WR103		BL-103	643214.0930	1022819.5220	2038.31
WR104		BL-104	642757.0780	1022614.1380	2045.13
WR105		BL-105	642191.1250	1022586.7980	2030.24
WR106		BL-106	641591.4780	1022757.2360	1988.05
WR107		BL-107	641155.7930	1023094.4320	1944.66
WR108		BL-108	640595.5620	1023152.9350	1901.80
WR109		BL-109	640088.4190	1023373.4670	1864.82
WR3		NC9-3	639858.8121	1022988.5647	1823.70
WR4		NC9-4	640209.0650	1022514.9310	1781.66
WR110		BL-110	640057.5280	1022221.2820	1756.67
WR111		BL-111	639573.3790	1022052.0400	1717.52
WR112		BL-112	639158.6850	1022022.7570	1685.47
WR113		BL-113	638971.8300	1021751.0450	1660.77
WR114		BL-114	638865.5380	1021347.2620	1628.21
WR115		BL-115	638559.2000	1021081.2400	1595.62
WR116		BL-116	638108.0270	1020972.4230	1563.31
WR117		BL-117	637795.2500	1020745.5090	1540.60
WR118		BL-118	637190.1320	1020621.2900	1509.62
WR119		BL-119	636425.1600	1020491.4850	1503.63
WR5		NC9-5	636159.7280	1020109.4860	1499.26
WR6		NC9-6	635770.6590	1019522.8660	1505.63

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.

NC-9

SHEET NO.

RW02C-3

Location and Surveys

WITHERSRAVENEL, INC

84 COXE AVE.

ASHEVILLE, NC 28801

OFFICE #: (919)238-0317

LICENSE #: F-1479

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

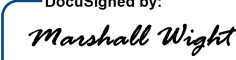
I, MARSHALL G. WIGHT, PLS, certify that the Project Control was PERFORMED under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: AA
Type of GPS field procedure: RTN
Dates of survey: OCTOBER 21-22, 2024 (GPS-1)
Dates of survey: JANUARY 27-30, 2025 (NC9-1 - NC9-6)
Datum/Epoch: NAD 83/2011
Published/Fixed-control use: N/A
Localized around: GPS-1
Northing: 635,261.4264'
Easting: 1,020,928.4126'
Combined grid factor: 0.999810061 (GROUND TO GRID)
Geoid model: GEOID18
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 1/27/2025 to 1/30/2025 , 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 27TH day of MARCH, 2025.

DocuSign by:


60273F441B864C1

Professional Land Surveyor L-5146