

# SURVEY CONTROL SHEET R-2915C

Longitude	81°31'55.59073"W	Elevation	3078.5171sft	Easting	1254245.9770sft
Height	2976.0465sft	Horz error	0.015sft	Elevation	3078.5190sft
		Vert error	0.002sft	Utilized	Horz and Vert
		3D error	0.016sft	Quality	Survey quality

Point	R2915-15_WGS84	Northing	954880.7882sft	Point	R2915-15_Local
Latitude	36°20'50.57260"N	Easting	1254012.3126sft	Northing	954880.7810sft
Longitude	81°31'59.23136"W	Elevation	3097.5370sft	Easting	1254012.2870sft
Height	2995.1423sft	Horz error	0.027sft	Elevation	3097.5210sft
		Vert error	0.016sft	Utilized	Horz and Vert
		3D error	0.031sft	Quality	Survey quality

Point	R2915-16_WGS84	Northing	955689.2599sft	Point	R2915-16_Local
Latitude	36°20'58.40190"N	Easting	1253372.2604sft	Northing	955689.2700sft
Longitude	81°32'07.30385"W	Elevation	3139.7336sft	Easting	1253372.2370sft
Height	3037.3781sft	Horz error	0.025sft	Elevation	3139.6930sft
		Vert error	0.041sft	Utilized	Horz and Vert
		3D error	0.048sft	Quality	Survey quality

Point	R2915-17_WGS84	Northing	960732.3214sft	Point	R2915-17_Local
Latitude	36°21'50.14423"N	Easting	1260924.8880sft	Northing	960732.3040sft
Longitude	81°30'36.58112"W	Elevation	3355.9956sft	Easting	1260924.8760sft
Height	3253.5217sft	Horz error	0.021sft	Elevation	3356.0160sft
		Vert error	0.020sft	Utilized	Horz and Vert
		3D error	0.029sft	Quality	Survey quality

Point	R2915-18_WGS84	Northing	959689.5169sft	Point	R2915-18_Local
Latitude	36°21'39.95242"N	Easting	1261385.6028sft	Northing	959689.4970sft
Longitude	81°30'30.62882"W	Elevation	3396.5313sft	Easting	1261385.5910sft
Height	3294.0193sft	Horz error	0.023sft	Elevation	3396.5580sft
		Vert error	0.027sft	Utilized	Horz and Vert
		3D error	0.035sft	Quality	Survey quality

Point	R2915-19_WGS84	Northing	967060.7220sft	Point	R2915-19_Local
Latitude	36°22'54.39872"N	Easting	1267779.1405sft	Northing	967060.7040sft
Longitude	81°29'14.75578"W	Elevation	3005.2191sft	Easting	1267779.1370sft
Height	2902.6651sft	Horz error	0.018sft	Elevation	3005.2590sft
		Vert error	0.040sft	Utilized	Horz and Vert
		3D error	0.044sft	Quality	Survey quality

Point	R2915-20_WGS84	Northing	966821.8373sft	Point	R2915-20_Local
Latitude	36°22'52.19547"N	Easting	1268416.6439sft	Northing	966821.8150sft
Longitude	81°29'06.89021"W	Elevation	3001.8897sft	Easting	1268416.6390sft
Height	2899.3121sft	Horz error	0.023sft	Elevation	3001.9300sft
		Vert error	0.040sft	Utilized	Horz and Vert
		3D error	0.046sft	Quality	Survey quality

Point	R2915-21_WGS84	Northing	972084.6876sft	Point	R2915-21_Local
Latitude	36°23'44.52005"N	Easting	1269660.6108sft	Northing	972084.6700sft
Longitude	81°28'53.29316"W	Elevation	3132.4940sft	Easting	1269660.6140sft
Height	3029.9808sft	Horz error	0.018sft	Elevation	3132.5390sft
		Vert error	0.045sft	Utilized	Horz and Vert
		3D error	0.048sft	Quality	Survey quality

Point	R2915-22_WGS84	Northing	973156.5253sft	Point	R2915-22_Local
Latitude	36°23'55.25041"N	Easting	1270213.4941sft	Northing	973156.5140sft

Longitude	81°28'46.86125"W	Elevation	3163.2767sft	Easting	1270213.5010sft
Height	3060.7659sft	Horz error	0.013sft	Elevation	3163.3260sft
		Vert error	0.049sft	Utilized	Horz and Vert
		3D error	0.051sft	Quality	Survey quality

Point	R2915-23_WGS84	Northing	981712.8608sft	Point	R2915-23_Local
Latitude	36°25'21.32188"N	Easting	1276325.1593sft	Northing	981712.8790sft
Longitude	81°27'34.73217"W	Elevation	2903.7232sft	Easting	1276325.1910sft
Height	2801.1821sft	Horz error	0.037sft	Elevation	2903.6430sft
		Vert error	0.080sft	Utilized	Horz and Vert
		3D error	0.088sft	Quality	Survey quality

Point	R2915-24_WGS84	Northing	980994.0668sft	Point	R2915-24_Local
Latitude	36°25'14.17430"N	Easting	1276148.6155sft	Northing	980994.0780sft
Longitude	81°27'36.67335"W	Elevation	2878.9461sft	Easting	1276148.6390sft
Height	2776.3983sft	Horz error	0.026sft	Elevation	2878.8920sft
		Vert error	0.054sft	Utilized	Horz and Vert
		3D error	0.060sft	Quality	Survey quality

## DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R2915-15" WITH NAD 83/CORS STATE PLANE GRID COORDINATES OF  
 NORTHING: 954880.7810(ft) EASTING: 1254012.2870(ft)  
 ELEVATION: 3097.5210(ft)  
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99991292  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R2915-15" TO -L- STATION 254+36.94 IS  
 S 27°41'53" E 21307.8051  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88

### NOTES:

- THE SITE CALIBRATION SHOWN IS BASED UPON A NETWORK TIED TO THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD 83/95 ADJUSTMENT. THIS CALIBRATION WILL ALLOW THE END USER TO WORK WITHIN THE SAME COORDINATE SYSTEM WHEN USING RTK (REAL TIME KINEMATIC) GPS AND A LOCAL BASE STATION. IF ANOTHER SYSTEM SUCH AS VRS (VIRTUAL REFERENCE STATION) IS USED, ADDITIONAL FIELD TIES MAY BE NEEDED TO REDUCE POSSIBLE ERRORS, OR BIASES.
  - THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:  
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION](https://connect.ncdot.gov/resources/location)  
 THE FILES TO BE FOUND ARE AS FOLLOWS:  
 R2915C\_LS\_GPSCALIB.HTML  
 R2915C\_LS\_WGS84.TXT  
 R2915C\_LS\_LOCAL.TXT  
 R2915C\_LS\_CONTROL.TXT  
 THE WGS84 AND LOCAL FILES ARE COMMA DELIMITED AND CAN BE USED TO REPRODUCE THE SITE CALIBRATION FOR THE END USER'S GPS EQUIPMENT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- © INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.  
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.  
 SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

NOTE: DRAWING NOT TO SCALE

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