

SURVEY CONTROL SHEET R-2514B

Longitude	77°12'55.46485"W	Elevation	27.784sft	Easting	2534234.852sft
Height	-94.092sft	Horz error	0.010sft	Elevation	27.782sft
		Vert error	0.002sft	Utilized	Horz and Vert
		3D error	0.010sft	Quality	Adjusted quality

Point	R2514-15 GPS	Northing	477274.384sft	Point R2514-15	
Latitude	35°02'53.82459"N	Easting	2532367.167sft	Northing	477274.392sft
Longitude	77°13'16.08227"W	Elevation	37.069sft	Easting	2532367.176sft
Height	-84.670sft	Horz error	0.012sft	Elevation	37.071sft
		Vert error	0.002sft	Utilized	Horz and Vert
		3D error	0.012sft	Quality	Adjusted quality

Point	R2514-16 GPS	Northing	478923.276sft	Point R2514-16	
Latitude	35°03'09.71350"N	Easting	2534716.028sft	Northing	478923.284sft
Longitude	77°12'47.47979"W	Elevation	34.233sft	Easting	2534716.038sft
Height	-87.520sft	Horz error	0.013sft	Elevation	34.234sft
		Vert error	0.001sft	Utilized	Horz and Vert
		3D error	0.013sft	Quality	Adjusted quality

Point	R2514-17 GPS	Northing	488782.056sft	Point R2514-17	
Latitude	35°04'45.44499"N	Easting	2544527.004sft	Northing	488782.073sft
Longitude	77°10'47.32099"W	Elevation	35.852sft	Easting	2544527.040sft
Height	-85.910sft	Horz error	0.039sft	Elevation	35.869sft
		Vert error	0.017sft	Utilized	Horz and Vert
		3D error	0.043sft	Quality	Control quality

Point	R2514-18 GPS	Northing	486820.575sft	Point R2514-18	
Latitude	35°04'25.95814"N	Easting	2545021.401sft	Northing	486820.591sft
Longitude	77°10'41.80660"W	Elevation	35.889sft	Easting	2545021.430sft
Height	-85.910sft	Horz error	0.033sft	Elevation	35.889sft
		Vert error	0.000sft	Utilized	Horz and Vert
		3D error	0.033sft	Quality	Adjusted quality

BL2_REV POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET	
R25142	R2514-2	408945.4340	2520708.0290	43.51	10+25.62	8.51 RT	BM12 ELEVATION - 45.83
BL10	BL-10	409746.1609	2521535.9401	44.24	21+75.60	55.86 LT	N 410544 E 2522372
BL11	BL-11	410130.6557	2521980.8440	44.82	27+63.63	55.79 LT	L STATION 33+30.00 113 LEFT
BL12	BL-12	410506.8228	2522415.7341	45.99	33+38.63	55.98 LT	12' PINE RRSPK
BL13	BL-13	410885.7836	2522854.6906	46.45	39+18.54	55.62 LT	.....
BL14	BL-14	411266.3581	2523293.6746	46.02	45+03.78	37.00 LT	.....
BL15	BL-15	411654.3761	2523742.3383	45.47	50+86.88	64.06 RT	BM15 ELEVATION - 45.65
BL16	BL-16	412040.9405	2524189.7197	44.69	56+29.05	245.87 RT	N 411675 E 2523676
MS2	BL2-2	412509.2156	2524382.5573	41.40	61+07.04	231.57 RT	L STATION 50+66.00 2 LEFT
MS3	BL2-3	413276.1539	2524624.4976	37.14	68+67.68	264.32 RT	18' PINE RRSPK
MS4	BL2-4	413917.2406	2524694.1693	38.47	75+10.31	219.13 RT	.....
MS5	BL2-5	414524.3656	2524719.1404	42.23	81+12.24	136.03 RT	.....
MS6	BL2-6	414851.6572	2524858.6348	41.96	84+59.08	215.27 RT	BM39 ELEVATION - 37.28
MS7	BL2-7	415626.5034	2524797.3020	40.94	92+10.77	17.48 RT	N 424814 E 2528275
MS8	BL2-8	416179.9603	2524892.5475	36.57	97+72.34	13.06 RT	L STATION 190+00.00 426 RIGHT
MS9	BL2-9	416430.3593	2524933.4633	27.20	100+26.20	6.06 RT	15' PINE RRSPK
MS10	BL2-10	416925.9444	2524988.8136	34.77	105+20.40	51.80 RT	.....
MS11	BL2-11	417414.4150	2525198.6476	33.36	110+46.88	15.25 RT	.....
GPS4	NCDOT GPS R2514	417924.7020	2525342.2530	39.04	115+76.12	15.82 LT	BM50 ELEVATION - 30.16
MS13	BL2-13	418515.2033	2525596.5747	39.75	122+18.45	6.10 LT	N 416479 E 2525138
MS14	BL2-14	419158.3718	2525876.2367	30.95	129+19.78	9.06 LT	L STATION 101+17.00 196 RIGHT
MS15	BL2-15	420248.3050	2526333.2970	19.14	141+01.49	29.50 LT	RR SPIKE IN 24' GUM TREE
MS16	BL2-16	420794.7930	2526559.7010	19.81	146+92.08	42.29 LT	.....
MS17	BL2-17	420942.2274	2526638.7842	13.57	148+59.68	29.25 LT	.....
MS18	BL2-18	421373.9485	2526857.9751	15.65	153+43.09	2.85 RT	BM53 ELEVATION - 20.01
MS19	BL2-19	422110.4258	2527136.3715	17.28	161+30.43	0.03 RT	N 420521 E 2526272
MS20	BL2-20	422716.9473	2527332.3048	17.86	167+67.94	5.77 LT	L STATION 145+10.00 221 RIGHT
MS21	BL2-21	422959.5321	2527402.9986	11.74	170+20.71	8.52 LT	RR SPIKE IN 18' GUM
MS22	BL2-22	423413.2928	2527542.8599	12.06	174+95.45	4.17 RT	.....
MS23	BL2-23	423771.0829	2527633.6629	16.38	178+64.49	4.91 RT	.....
MS24	BL2-24	423821.3040	2527647.6100	32.91	179+16.55	6.85 RT	BM54 ELEVATION - 14.59
MS25	BL2-25	424135.0100	2527713.5230	40.26	182+36.99	1.96 RT	N 422935 E 2527612
MS26	BL2-26	424882.5434	2527872.1185	33.62	190+00.64	17.05 RT	L STATION 170+56.00 198 RIGHT
MS27	BL2-27	425489.7967	2527910.9796	36.62	196+07.35	33.79 LT	RR SPIKE IN 20' GUM TREE
MS28	BL2-28	425990.8763	2527924.9013	36.36	201+08.48	76.86 LT	.....
BL42	-BL42	426798.7978	2528061.4935	34.15	209+26.26	0.01 LT	.....
BL43	BL-43	427550.3348	2528094.4940	35.40	216+78.52	0.27 LT	BM55 ELEVATION - 38.17
BL44	BL-44	428188.9728	2528145.7675	35.19	223+20.44	11.96 RT	N 423693 E 2527782
BL45	BL-45	428591.2499	2528248.7669	37.34	227+38.19	0.07 RT	L STATION 178+24.00 167 RIGHT
BL106	BL-106	428946.4757	2528442.6383	38.07	231+43.22	1.01 LT	RR SPIKE SET IN 20' HW

BY POINT	DESC.	NORTH	EAST	ELEVATION	Y2 STATION	OFFSET	
GPS3	NCDOT GPS R2514	418524.5330	2523780.1960	41.64	OUTSIDE PROJECT LIMITS		
GPS4	NCDOT GPS R2514	417924.7020	2525342.2530	39.04	22+35.22	34.21 RT	
BY60	BY-60	417574.7775	2525841.6328	26.21	28+44.68	24.83 RT	
BY61	BY-61	417270.3141	2526375.4151	29.73	34+57.80	16.79 RT	
BY62	BY-62	417056.7791	2526916.4147	39.88	OUTSIDE PROJECT LIMITS		
BY63	BY-63	416735.3283	2527548.2720	30.90	OUTSIDE PROJECT LIMITS		
BY64	BY-64	416458.9575	2528143.0370	39.89	OUTSIDE PROJECT LIMITS		
EQ3		416384.4151	2528525.9499	41.79	OUTSIDE PROJECT LIMITS		

BY4 POINT	DESC.	NORTH	EAST	ELEVATION	Y3 STATION	OFFSET	
BY477	BY4-77	428114.0446	2527386.1065	35.94	OUTSIDE PROJECT LIMITS		
ABL43		427550.3348	2528094.4940	35.40	18+08.66	9.81 LT	
BY478	BY4-78	427185.5067	2528430.3417	37.77	23+04.38	14.11 RT	
BY479	BY4-79	426818.3647	2528751.7854	38.48	27+92.71	15.23 RT	
BY480	BY4-80	426275.6086	2529244.0006	36.68	OUTSIDE PROJECT LIMITS		

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R2514-9"

WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF
 NORTHING: 451335.4480 (ft) EASTING: 2526812.771 (ft)
 ELEVATION: 38.950 (ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999887960

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS R2514-9" TO -L- STATION 12+00.00 IS
 S08°03'00.79"W 42,690.224'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE

6/2/09
 16-MAR-2015 07:20 R2514B.LS.IC-3.dgn
 11:53:01 USER: JMW