6/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-2707F	1C-11
Location and Surveys	

SURVEY CONTROL SHEET

DESIGN ALIGNMENTS (FROM R-2707B)

L

TYPE	STATION	NORTH	EAST
POT	206+63.80	576906.6470	1219182.3540
PC	275+55.52	578920.7065	1225773.2074
PT	303+96.22	579580.6084	1228534.3252
TS	328+14.65	579996.0155	1230916.8161
SC	330+14.65	580031.4625	1231113.6473
CS	332+78.71	580086.8388	1231371.8160
ST	334+78.71	580135.2352	1231565.8696
TS	335+25.50	580146.8085	1231611.2007
SC	337+25.50	580195.1540	1231805.2667
CS	343+94.94	580311.0452	1232464.2099
ST	345+94.94	580331.8152	1232663.1258
TS	346+96.72	580341.7960	1232764.4145
SC	348+96.72	580362.5660	1232963.3304
CS	351+23.01	580393.1152	1233187.5346
ST	353+23.01	580426.3213	1233384.7560
PC	357+87.39	580506.0876	1233842.2410
PT	366+97.53	580715.3954	1234727.4288
POT	366+97.53	580715.3954	1234727.4288
PC	381+28.48	581126.9913	1236097.9084
PT	393+07.39	581377.7980	1237248.6277
POT	419+08.25	581734.1388	1239824.9615

RPA1

TYPE	STATION	NORTH	EAST
POT	0+00.00	581075.5952	1235763.3759
TS	3+34.56	581002.6126	1235436.8684
SC	5+74.56	580955.4275	1235201.5998
CS	13+05.67	580989.4569	1234476.1992
SRS	15+45.67	581058.4598	1234246.3811
SC	17+45.67	581111.6149	1234053.7380
PT	17+90.69	581118.3559	1234009.2304
EQB	21+31.85	581159.2988	1233670.5369
EQA	0+00.00	581159.2988	1233670.5369

RPB

TYPE	STATION	NORTH	EAST
TS	10+00.00	577621.1180	1221359.5801
SC	13+00.00	577721.1441	1221642.1713
CS	16+80.23	577932.7792	1221955.9570
ST	19+80.23	578157.3088	1222154.5759
TS	21+88.34	578319.0522	1222285.5360
SC	23+88.34	578468.6269	1222418.0662
PT	25+38.95	578560.3906	1222537.1751
POT	27+03.88	578647.4419	1222677.2555

RPC

TYPE	STATION	NORTH	EAST
POT	10+00.00	577544.4385	1221430.3020
TS	10+22.41	577550.1223	1221451.9791
SC	13+22.41	577616.0057	1221744.5055
CS	16+55.22	577627.8033	1222076.3625
ST	19+55.22	577582.8587	1222372.8288
TS	22+78.66	577523.2501	1222690.7221
SC	25+78.66	577497.7530	1222988.4339
PT	29+57.95	577673.2947	1223314.4434
POT	32+42.43	577891.3165	1223497.1746

RPD1

TYPE	STATION	NORTH	EAST
TS	0+00.00	580891.2915	1235476.5050
SC	2+40.00	580817.2382	1235248.2642
CS	10+19.40	580398.6736	1234597.8463
SRS	12+59.40	580221.6216	1234435.8885
SC	14+59.40	580077.1491	1234297.8081
PT	22+15.98	579916.9748	1233589.9833
EQB	24+04.31	579968.1525	1233408.7403
EQA	0+00.00	579968.1525	1233408.7403

Y1

TYPE	STATION	NORTH	EAST
POT	10+00.00	582264.1692	1233673.6746
TS	11+43.33	582121.3856	1233686.1555
SC	12+48.33	582016.7467	1233694.8461
PCC	18+13.03	581452.5049	1233697.3263
CS	29+90.03	580294.1431	1233500.7149
ST	30+40.03	580246.0050	1233487.1977
PC	36+79.85	579630.2586	1233313.3290
PT	38+00.10	579514.3104	1233281.4627
TS	39+84.08	579336.5776	1233233.9508
SC	40+34.08	579288.2551	1233221.1084
CS	44+25.51	578906.5638	1233134.6753
ST	44+75.51	578857.4228	1233125.4473
POT	46+58.19	578677.8338	1233091.9933

LPA1

TYPE	STATION	NORTH	EAST
CS	0+00.00	580578.3827	1233975.3486
SC	1+60.00	580626.2177	1234127.2239
CS	7+04.81	581069.0710	1234109.1086
ST	8+64.81	581104.8969	1233953.9171
EQB	11+52.63	581139.4392	1233668.1714
EQA	0+00.00	581139.4392	1233668.1714

LPB

TYPE	STATION	NORTH	EAST
TS	10+00.00	578095.6237	1222912.3633
SC	13+00.00	578066.9767	1222618.5290
PT	17+01.54	578388.6436	1222457.4384
CS	17+01.54	578388.6436	1222457.4384
ST	20+01.54	578606.7774	1222656.3776
POT	20+39.53	578629.2203	1222687.0295

LPC

TYPE	STATION	NORTH	EAST
TS	10+00.00	578055.9739	1223104.2619
SC	12+50.00	577943.2581	1222884.6555
PT	18+70.07	577564.7894	1223135.2766
CS	18+70.07	577564.7894	1223135.2766
ST	21+20.07	577722.9788	1223324.7704
POT	23+54.55	577902.6822	1223475.3857

LPD1

TYPE	STATION	NORTH	EAST
TS	0+00.00	580410.5099	1233567.6993
SC	1+60.00	580421.0221	1233726.6250
CS	8+97.36	579923.9830	1233701.1088
ST	10+57.36	579950.7143	1233544.0950
EQB	11+92.36	579987.3999	1233414.1752
EQA	0+00.00	579987.3999	1233414.1752

1. 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 MAYBE NEEDED TO REDUCE POSSIBLE ERRORS, OR BIASES.
2. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT DATA AT HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/. THE FILES TO BE FOUND ARE AS FOLLOWS: R2707B_LS_GPSCALIB_100909.HTM R2707B_LS_WGS84_100909.TXT R2707B_LS_CONTROL_100909.TXT R2707B_LS_LOCAL_100909.TXT THE WGS84 AND LOCAL FILES ARE COMMA DELIMITED AND CAN BE USED TO REPRODUCE THE SITE CALIBRATION FOR THE END USER'S EQUIPMENT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION & SURVEYS UNIT.

NOTES

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "M 77"
WITH NAD 83/95 STATE PLANE GRID COORDINATES OF
NORTHING: 573127.522(ft) EASTING: 124297.658(ft)
ELEVATION: 852.279'(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99984410
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "M 77" TO -L- L STATION 215+00.00 IS
N 80 07 30 W 23,380.7581'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE

08-DEC-2017 13:47
\Roadway\Proj\R2707F_ls_1C-11.dgn
jnitz