PROJECT REFERENCE NO.	SHEET NO.
U-3302	1E
LOCATION & SURVEYS	

SURVEY CONTROL SHEET

BY

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
10	BY1-10	691695.2175	942915.0184	2180.68	12+78.18	128.50 LT
60	NOT SET	691621.7220	942941.7620	UNKNOWN	12+66.13	51.23 LT
61	NOT SET	691529.5860	942975.2890	UNKNOWN	12+51.02	45.65 RT
12	BY2-12	691446.5855	943005.4907	2203.17	12+37.41	132.92 RT

BY1

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
43	BY1-10	691695.2175	942915.0184	2180.68	12+78.18	128.50 LT
11	BY1-11	691980.6530	943309.2684	2148.76	17+61.24	188.19 LT
16	BY5-16	692119.4094	943548.5740	2125.23	20+37.80	194.21 LT

BY2

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
44	BY2-12	691446.5855	943005.4907	2203.17	12+37.41	132.92 RT
13	BY2-13	691611.2322	943552.7801	2166.26	17+96.19	252.89 RT
14	BY5-14	691434.4805	943762.9527	2146.00	18+94.95	509.13 RT

BY5

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
17	BY5-17	692426.2341	943358.4030	2110.95	20+19.34	554.71 LT
45	BY5-16	692119.4094	943548.5740	2125.23	20+37.80	194.21 LT
62	NOT SET	691981.6530	943622.1940	UNKNOWN	20+35.78	38.02 LT
63	NOT SET	691901.2570	943665.1600	UNKNOWN	20+34.60	53.13 RT
15	BY5-15	691802.3953	943717.9936	2137.67	20+33.16	165.21 RT
46	BY5-14	691434.4805	943762.9527	2146.00	18+94.95	509.13 RT

BY7

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
21	BY7-21	692757.1643	943970.4264	2151.93	25+58.72	603.10 LT
20	BY7-20	692439.5620	943793.9750	2123.17	23+80.94	359.58 LT
19	BY7-19	692230.5451	943709.3188	2125.50	22+32.22	213.95 LT
64	NOT SET	692028.6540	943733.7800	UNKNOWN	21+56.19	25.33 LT
65	NOT SET	691943.7680	943744.0650	UNKNOWN	21+24.23	53.98 RT
18	BY7-18	691893.0104	943750.2145	2141.43	21+05.11	101.40 RT
24	BY9-24	691523.5605	944132.7185	2178.99	22+61.79	609.59 RT

BY8

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
47	BY7-20	692439.5620	943793.9750	2123.17	23+80.94	359.58 LT
22	BY8-22	692604.9644	943598.6565	2122.35	23+15.09	595.28 LT

BY9

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
48	BY5-14	691434.4805	943762.9527	2146.00	18+94.95	509.13 RT
23	BY9-23	691479.8694	943956.1946	2163.25	20+86.10	562.65 RT
49	BY9-24	691523.5605	944132.7185	2178.99	22+61.79	609.59 RT
25	BY9-25	691661.5986	944366.6754	2171.27	28+71.54	532.66 RT
30	BY15-30	691732.9532	944820.6705	2155.66	OUTSIDE PROJECT LIMITS	

BY11

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
68	BY9-24	691523.5605	944132.7185	2178.99	22+61.79	609.59 RT
26	BY11-26	691245.9737	944155.2546	2184.63	21+47.54	863.58 RT

BY12

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
69	BY7-20	692439.5620	943793.9750	2123.17	23+80.94	359.58 LT
27	BY12-27	692370.9285	944150.1174	2142.18	26+28.63	188.72 LT
28	BY12-28	692316.6053	944423.2249	2150.35	28+60.80	124.74 LT
31	BY15-31	692240.4475	944926.6373	2150.50	OUTSIDE PROJECT LIMITS	

BY13

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
29	BY13-29	691901.6324	944227.9340	2153.81	26+31.47	286.97 RT
70	BY9-25	691661.5986	944366.6754	2171.27	28+71.54	532.66 RT

BY15

POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
71	BY15-31	692240.4475	944926.6373	2150.50	OUTSIDE PROJECT LIMITS	
66	NOT SET	692193.7210	944916.8810	UNKNOWN	OUTSIDE PROJECT LIMITS	
67	NOT SET	692095.1770	944896.3040	UNKNOWN	OUTSIDE PROJECT LIMITS	
72	BY15-30	691732.9532	944820.6705	2155.66	OUTSIDE PROJECT LIMITS	

BM1 ELEVATION = 2187.40
N 691276 E 944190
Y1 STATION 21+43
S 27° 18' 04.1" E DIST 301.36
PAINTED BOLT ON FIRE HYDRANT

BM2 ELEVATION = 2184.47
N 691486 E 942654
L STATION 10+00
N 64° 27' 40.5" W DIST 87.54
RR SPIKE SET IN BASE OF 18" OAK

BM3 ELEVATION = 2136.00
N 691992 E 943721
L STATION 21+27 Ø RIGHT
PAINTED SQUARE ON BASE OF STREET LAMP

BM4 ELEVATION = 2163.67
N 692189 E 944969
L STATION 32+87
N 72° 11' 32.5" E DIST 139.89
CHISELED SQUARE ON NE END BENT OF I-240 BRIDGE

BM5 ELEVATION = 2151.07
N 692771 E 943910
Y1 STATION 10+00
N 10° 36' 33.2" E DIST 199.09
CHISELED SQUARE ON TOP OF CONCRETE WALL

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U3302-2" WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 692242.4410(ft) EASTING: 944241.3399(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99979803
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U3302-2" TO -L- STATION 10+00.00 IS S 62°13'47.3" W 1704.212
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

NOTES

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 Control Data at http://www.doh.dot.state.nc.us/preconstruct/highway/location/project/

   The files to be found are as follows:

   u3302_ls_gpscalib_03070l.html
   u3302_ls_wgs84_03070l.txt
   u3302_ls_local_03070l.txt
   u3302_ls_control_03070l.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.