

Town of Plymouth Data Sheet

Station:	Point 166	Monks Hill		NGS PID#		ID#																																																													
Town:	Kingston		Quad: Plym																																																																
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																														
(Survey Ft)	2811705.329	867571.599	(Survey Ft)	351036.313	811270.143																																																														
(meters)	857009.498	264436.352	(meters)	106996.082	247275.634																																																														
						Order																																																													
Elevation	Vert. Datum f/m	Order	Stamping:																																																																
NAVD88	312.818/95.347		Sketch																																																																
NAVD29	313.631/95.595		Recov. Date:	August 10, 2010																																																															
Marked by:	Brass Disc																																																																		
Description:	Brass Disc in concrete base																																																																		
Reference Marks:																																																																			
Azimuth Data:																																																																			
Geodetic:	<p>FILE: 50372220.10o 000059245 2005 NOTE: The IGS precise and IGS rapid orbits were not available 2005 at processing time. The IGS ultra-rapid orbit was/will be used to 2005 process the data. 2005</p> <p style="text-align: center;">NGS OPUS SOLUTION REPORT =====</p> <p>All computed coordinate accuracies are listed as peak-to-peak values. For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy</p> <p>USER: RFIRTH@TOWNHALL.PLYMOUTH.MA.US DATE: August 10, 2010 RINEX FILE: 5037222n.10o TIME: 20:50:45 UTC SOFTWARE: page5 0909.08 master23.pl 081023 START: 2010/08/10 13:33:00 EPHEMERIS: igu15962.eph [ultra-rapid] STOP: 2010/08/10 19:43:00 NAV FILE: brdc2220.10n OBS USED: 11021 / 13447 : 82% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 91 / 118 : 77% ARP HEIGHT: 1.557528 OVERALL RMS: 0.019(m) REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.6074)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 5%;">X:</td> <td style="width: 20%;">1568153.737(m)</td> <td style="width: 10%;">0.022(m)</td> <td style="width: 20%;">1568152.969(m)</td> <td style="width: 10%;">0.022(m)</td> <td style="width: 5%;"></td> </tr> <tr> <td>Y:</td> <td>-4483639.269(m)</td> <td>0.069(m)</td> <td>-4483637.830(m)</td> <td>0.069(m)</td> <td></td> </tr> <tr> <td>Z:</td> <td>4242412.360(m)</td> <td>0.053(m)</td> <td>4242412.294(m)</td> <td>0.053(m)</td> <td></td> </tr> <tr> <td>LAT:</td> <td>41 57 38.89776</td> <td>0.045(m)</td> <td>41 57 38.93110</td> <td>0.045(m)</td> <td></td> </tr> <tr> <td>E LON:</td> <td>289 16 38.26110</td> <td>0.016(m)</td> <td>289 16 38.25025</td> <td>0.016(m)</td> <td></td> </tr> <tr> <td>W LON:</td> <td>70 43 21.73890</td> <td>0.016(m)</td> <td>70 43 21.74975</td> <td>0.016(m)</td> <td></td> </tr> <tr> <td>EL HGT:</td> <td>67.016(m)</td> <td>0.067(m)</td> <td>65.774(m)</td> <td>0.067(m)</td> <td></td> </tr> <tr> <td>ORTHO HGT:</td> <td>95.347(m)</td> <td>0.067(m)</td> <td colspan="3">[NAVD88 (Computed using GEOID09)]</td> </tr> </table> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"></td> <td style="width: 25%; text-align: center;">UTM (Zone 19)</td> <td style="width: 25%; text-align: center;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters]</td> <td style="text-align: center;">4646859.666</td> <td style="text-align: center;">857009.498</td> </tr> <tr> <td>Easting (X) [meters]</td> <td style="text-align: center;">357239.811</td> <td style="text-align: center;">264436.352</td> </tr> <tr> <td>Convergence [degrees]</td> <td style="text-align: center;">-1.15203286</td> <td style="text-align: center;">0.52213117</td> </tr> </table>							X:	1568153.737(m)	0.022(m)	1568152.969(m)	0.022(m)		Y:	-4483639.269(m)	0.069(m)	-4483637.830(m)	0.069(m)		Z:	4242412.360(m)	0.053(m)	4242412.294(m)	0.053(m)		LAT:	41 57 38.89776	0.045(m)	41 57 38.93110	0.045(m)		E LON:	289 16 38.26110	0.016(m)	289 16 38.25025	0.016(m)		W LON:	70 43 21.73890	0.016(m)	70 43 21.74975	0.016(m)		EL HGT:	67.016(m)	0.067(m)	65.774(m)	0.067(m)		ORTHO HGT:	95.347(m)	0.067(m)	[NAVD88 (Computed using GEOID09)]				UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4646859.666	857009.498	Easting (X) [meters]	357239.811	264436.352	Convergence [degrees]	-1.15203286	0.52213117
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To convert meters to US survey feet
 Multiply by 3.2808333333

	Point Scale	0.99985078	0.99997327
	Combined Factor	0.99984028	0.99996276
	US NATIONAL GRID DESIGNATOR: 19TCG5723946859(NAD 83)		
	BASE STATIONS USED		
	PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
	AF9520	WES2 WESTFORD CORS ARP	N423647.975 W0712935.968 96400.8
	DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 70398.3
	DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 45191.8
	NEAREST NGS PUBLISHED CONTROL POINT		
	LW4632	NICK ROCK 2	N415735.750 W0704257.856 557.7
	This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.		
Grid Azimuth:			



To convert meters to US survey feet
Multiply by 3.280833333