

Town of Plymouth Data Sheet

Station:	Point 3	GURNET 3		NGS PID#		ID#																																																
Town:	Plymouth		Quad: Dux																																																			
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																	
(Survey Ft)	2828196.232	900790.416	(Survey Ft)	367526.657	844489.102																																																	
(meters)	862035.936	274561.468	(meters)	112022.349	257400.793																																																	
						Order																																																
Elevation	Vert. Datum f/m	Order	Stamping:																																																			
NAVD88	39.455/12.026		Sketch																																																			
NAVD29	40.292/12.281		Recov. Date:	August 24, 2011																																																		
Marked by:	Concrete Bound																																																					
Description:																																																						
Reference Marks:																																																						
Azimuth Data:																																																						
Geodetic:	<p>FILE: 50372360.11o 000306038 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>WARNING, BETA PRODUCT: The results should be used with caution. 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 24, 2011 RINEX FILE: 5037236n.11o TIME: 19:22:52 UTC SOFTWARE: page5 1108.09 master10.pl 060711 START: 2011/08/24 13:16:00 EPHEMERIS: igul6503.eph [ultra-rapid] STOP: 2011/08/24 17:44:00 NAV FILE: brdc2360.11n OBS USED: 8840 / 8997 : 98% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 39 / 39 : 100% ARP HEIGHT: 1.38684 OVERALL RMS: 0.012(m)</p> <p>REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2011.6456)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">X:</td> <td style="width: 25%;">1576642.269(m)</td> <td style="width: 25%;">0.035(m)</td> <td style="width: 25%;">1576641.484(m)</td> <td style="width: 25%;">0.035(m)</td> </tr> <tr> <td>Y:</td> <td>-4477102.121(m)</td> <td>0.014(m)</td> <td>-4477100.684(m)</td> <td>0.014(m)</td> </tr> <tr> <td>Z:</td> <td>4246019.113(m)</td> <td>0.021(m)</td> <td>4246019.051(m)</td> <td>0.021(m)</td> </tr> <tr> <td>LAT:</td> <td>42 0 18.58028</td> <td>0.027(m)</td> <td>42 0 18.61384</td> <td>0.027(m)</td> </tr> <tr> <td>E LON:</td> <td>289 24 0.23481</td> <td>0.030(m)</td> <td>289 24 0.22338</td> <td>0.030(m)</td> </tr> <tr> <td>W LON:</td> <td>70 35 59.76519</td> <td>0.030(m)</td> <td>70 35 59.77662</td> <td>0.030(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-16.032(m)</td> <td>0.015(m)</td> <td>-17.275(m)</td> <td>0.015(m)</td> </tr> </table> <p>ORTHO HGT: 12.026(m) 0.028(m) [NAVD88 (Computed using GEOID09)]</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"></td> <td style="text-align: center;">UTM COORDINATES</td> <td style="text-align: center;">STATE PLANE COORDINATES</td> </tr> <tr> <td></td> <td style="text-align: center;">UTM (Zone 19)</td> <td style="text-align: center;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters]</td> <td style="text-align: center;">4651587.377</td> <td style="text-align: center;">862035.936</td> </tr> <tr> <td>Easting (X) [meters]</td> <td style="text-align: center;">367506.085</td> <td style="text-align: center;">274561.468</td> </tr> </table>							X:	1576642.269(m)	0.035(m)	1576641.484(m)	0.035(m)	Y:	-4477102.121(m)	0.014(m)	-4477100.684(m)	0.014(m)	Z:	4246019.113(m)	0.021(m)	4246019.051(m)	0.021(m)	LAT:	42 0 18.58028	0.027(m)	42 0 18.61384	0.027(m)	E LON:	289 24 0.23481	0.030(m)	289 24 0.22338	0.030(m)	W LON:	70 35 59.76519	0.030(m)	70 35 59.77662	0.030(m)	EL HGT:	-16.032(m)	0.015(m)	-17.275(m)	0.015(m)		UTM COORDINATES	STATE PLANE COORDINATES		UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4651587.377	862035.936	Easting (X) [meters]	367506.085	274561.468
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To convert meters to US survey feet
Multiply by 3.2808333333

Convergence [degrees]	-1.07082782	0.60459962
Point Scale	0.99981601	0.99997034
Combined Factor	0.99981852	0.99997286
US NATIONAL GRID DESIGNATOR: 19TCG6750651587(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
AF9520	WES2 WESTFORD CORS ARP	N423647.975 W0712935.968 99944.5
DI0876	ACU5 ACUSHNET 5 CORS ARP	N414436.796 W0705313.027 37576.4
DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 76913.6
NEAREST NGS PUBLISHED CONTROL POINT		
MY3956	GURNET DAT 1940 RM 1 RES	N420017.302 W0703558.726 46.2
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