

Town of Plymouth Data Sheet

Station:	Point 182	Billington Sea 1		NGS PID#		ID#																																																		
Town:	Plymouth		Quad: Plym																																																					
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																			
(Survey Ft)	2802542.420	879795.921	(Survey Ft)	341873.320	823494.291																																																			
(meters)	854216.638	268162.333	(meters)	104203.196	251001.562																																																			
						Order																																																		
Elevation	Vert. Datum f/m	Order	Stamping:																																																					
NAVD88	83.094/25.327		Sketch																																																					
NAVD29	83.914/25.577		Recov. Date:	March 23, 2011																																																				
Marked by:	Iron Rod																																																							
Description:	3' Iron Rod set.																																																							
Reference Marks:																																																								
Azimuth Data:																																																								
Geodetic:	<p>FILE: 50370820.11o 000186973 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: March 23, 2011 RINEX FILE: 5037082o.11o TIME: 19:46:07 UTC SOFTWARE: page5 1009.28 master29.pl 121510 START: 2011/03/23 14:43:00 EPHEMERIS: igu16283.eph [ultra-rapid] STOP: 2011/03/23 18:59:30 NAV FILE: brdc0820.11n OBS USED: 5714 / 8390 : 68% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 56 / 69 : 81% ARP HEIGHT: 1.575816 OVERALL RMS: 0.020(m)</p> <p>REF FRAME: NAD_83 (CORS96) (EPOCH:2002.0000) ITRF00 (EPOCH:2011.2239)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 35%;">1572253.104(m)</td> <td style="width: 15%;">0.128(m)</td> <td style="width: 15%;">1572252.326(m)</td> <td style="width: 20%;">0.128(m)</td> </tr> <tr> <td>Y:</td> <td>-4484151.348(m)</td> <td>0.008(m)</td> <td>-4484149.910(m)</td> <td>0.008(m)</td> </tr> <tr> <td>Z:</td> <td>4240262.430(m)</td> <td>0.078(m)</td> <td>4240262.365(m)</td> <td>0.078(m)</td> </tr> <tr> <td>LAT:</td> <td>41 56 7.24698</td> <td>0.081(m)</td> <td>41 56 7.28038</td> <td>0.081(m)</td> </tr> <tr> <td>E LON:</td> <td>289 19 18.88991</td> <td>0.121(m)</td> <td>289 19 18.87869</td> <td>0.121(m)</td> </tr> <tr> <td>W LON:</td> <td>70 40 41.11009</td> <td>0.121(m)</td> <td>70 40 41.12131</td> <td>0.121(m)</td> </tr> <tr> <td>EL HGT:</td> <td>-2.975(m)</td> <td>0.044(m)</td> <td>-4.219(m)</td> <td>0.044(m)</td> </tr> <tr> <td>ORTHO HGT:</td> <td>25.327(m)</td> <td>0.075(m)</td> <td>[NAVD88 (Computed using GEOID09)]</td> <td></td> </tr> </table> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;"></td> <td style="width: 30%;">UTM (Zone 19)</td> <td style="width: 30%;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters]</td> <td>4643959.532</td> <td>854216.638</td> </tr> <tr> <td>Easting (X) [meters]</td> <td>360882.145</td> <td>268162.333</td> </tr> </table>							X:	1572253.104(m)	0.128(m)	1572252.326(m)	0.128(m)	Y:	-4484151.348(m)	0.008(m)	-4484149.910(m)	0.008(m)	Z:	4240262.430(m)	0.078(m)	4240262.365(m)	0.078(m)	LAT:	41 56 7.24698	0.081(m)	41 56 7.28038	0.081(m)	E LON:	289 19 18.88991	0.121(m)	289 19 18.87869	0.121(m)	W LON:	70 40 41.11009	0.121(m)	70 40 41.12131	0.121(m)	EL HGT:	-2.975(m)	0.044(m)	-4.219(m)	0.044(m)	ORTHO HGT:	25.327(m)	0.075(m)	[NAVD88 (Computed using GEOID09)]			UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4643959.532	854216.638	Easting (X) [meters]	360882.145	268162.333
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To convert meters to US survey feet
Multiply by 3.2808333333

Convergence [degrees]	-1.12163033	0.55210311
Point Scale	0.99983815	0.99997521
Combined Factor	0.99983862	0.99997568
US NATIONAL GRID DESIGNATOR: 19TCG6088243959(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DE6262	URIL U OF RI COOP CORS ARP	N412920.158 W0713139.778 86359.4
DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 75039.5
DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 49525.1
NEAREST NGS PUBLISHED CONTROL POINT		
LW5766	10329	N415632.196 W0704020.849 901.3
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