

Town of Plymouth Data Sheet

Station:	Point 157	Old Colony Estates		NGS PID#		ID#																																																		
Town:	Plymouth		Quad: Plym																																																					
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																			
(Survey Ft)	2800979.104	869214.378	(Survey Ft)	340310.176	812912.762																																																			
(meters)	853740.138	264937.072	(meters)	103726.749	247776.305																																																			
						Order																																																		
Elevation	Vert. Datum f/m	Order	Stamping:																																																					
NAVD88	173.658/52.931		Sketch																																																					
NAVD29	174.471/53.179		Recov. Date:	Oct 19, 2009																																																				
Marked by:	CD/Dh																																																							
Description:	CB at southeasterly corner of Montgomery and Filmore.																																																							
Reference Marks:																																																								
Azimuth Data:																																																								
Geodetic:	<p>FILE: 50372930.09o 000132092 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: www.ngs.noaa.gov/OPUS/Using_OPUS.html#accuracy</p> <p>USER: rfirth@townhall.plymouth.ma.us DATE: October 20, 2009 RINEX FILE: 5037293m.09o TIME: 19:11:12 UTC SOFTWARE: page5 0909.08 master28.pl 081023 START: 2009/10/20 12:30:00 EPHEMERIS: igu15542.eph [ultra-rapid] STOP: 2009/10/20 17:29:00 NAV FILE: brdc2930.09n OBS USED: 10940 / 11250 : 97% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 43 / 43 : 100% ARP HEIGHT: 1.60934400 OVERALL RMS: 0.013(m)</p> <p>REF FRAME: NAD_83 (CORS96) (EPOCH:2002.0000) ITRF00 (EPOCH:2009.8017)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 15%;">1569310.291(m)</td> <td style="width: 15%;">0.024(m)</td> <td style="width: 15%;">1569309.535(m)</td> <td style="width: 15%;">0.024(m)</td> </tr> <tr> <td>Y:</td> <td>-4485519.646(m)</td> <td>0.071(m)</td> <td>-4485518.206(m)</td> <td>0.071(m)</td> </tr> <tr> <td>Z:</td> <td>4239948.923(m)</td> <td>0.065(m)</td> <td>4239948.854(m)</td> <td>0.065(m)</td> </tr> <tr> <td>LAT:</td> <td>41 55 52.78670</td> <td>0.013(m)</td> <td>41 55 52.81988</td> <td>0.013(m)</td> </tr> <tr> <td>E LON:</td> <td>289 16 58.70129</td> <td>0.039(m)</td> <td>289 16 58.69096</td> <td>0.039(m)</td> </tr> <tr> <td>W LON:</td> <td>70 43 1.29871</td> <td>0.039(m)</td> <td>70 43 1.30904</td> <td>0.039(m)</td> </tr> <tr> <td>EL HGT:</td> <td>24.549(m)</td> <td>0.091(m)</td> <td>23.306(m)</td> <td>0.091(m)</td> </tr> <tr> <td>ORTHO HGT:</td> <td>52.931(m)</td> <td>0.094(m)</td> <td>[NAVD88 (Computed using GEOID03)]</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%; text-align: center;">UTM (Zone 19)</td> <td style="width: 30%; text-align: center;">SPC (2001 MA M)</td> </tr> <tr> <td>Northing (Y) [meters]</td> <td style="text-align: center;">4643577.484</td> <td style="text-align: center;">853740.138</td> </tr> <tr> <td>Easting (X) [meters]</td> <td style="text-align: center;">357644.770</td> <td style="text-align: center;">264937.072</td> </tr> </table>							X:	1569310.291(m)	0.024(m)	1569309.535(m)	0.024(m)	Y:	-4485519.646(m)	0.071(m)	-4485518.206(m)	0.071(m)	Z:	4239948.923(m)	0.065(m)	4239948.854(m)	0.065(m)	LAT:	41 55 52.78670	0.013(m)	41 55 52.81988	0.013(m)	E LON:	289 16 58.70129	0.039(m)	289 16 58.69096	0.039(m)	W LON:	70 43 1.29871	0.039(m)	70 43 1.30904	0.039(m)	EL HGT:	24.549(m)	0.091(m)	23.306(m)	0.091(m)	ORTHO HGT:	52.931(m)	0.094(m)	[NAVD88 (Computed using GEOID03)]			UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4643577.484	853740.138	Easting (X) [meters]	357644.770	264937.072
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To convert meters to US survey feet
Multiply by 3.2808333333

Convergence [degrees]	-1.14757771	0.52594513
Point Scale	0.99984937	0.99997554
Combined Factor	0.99984552	0.99997169
US NATIONAL GRID DESIGNATOR: 19TCG5764443577(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DF9215	ZBW1 BOSTON WAAS 1 CORS ARP	N424408.559 W0712849.518 109277.5
DI0876	ACU5 ACUSHNET 5 CORS ARP	N414436.796 W0705313.027 25183.2
DI0884	ACU6 ACUSHNET 6 CORS ARP	N414435.676 W0705311.720 25195.0
NEAREST NGS PUBLISHED CONTROL POINT		
LW4619	160 L MAGS 1941	N415554.047 W0704210.596 1167.0
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