

Town of Plymouth Data Sheet

Station:	Point 173	American Legion		NGS PID#		ID#																																										
Town:	Plymouth		Quad: Plym																																													
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																											
(Survey Ft)	2798095.983	872893.353	(Survey Ft)	337427.029	816591.682																																											
(meters)	852861.361	266058.426	(meters)	102847.964	248897.643																																											
						Order																																										
Elevation	Vert. Datum f/m	Order	Stamping:																																													
NAVD88	128.097/39.044		Sketch																																													
NAVD29	128.911/39.292		Recov. Date:	Sept. 15,2010																																												
Marked by:	Spike																																															
Description:	Spike Set in Crack																																															
Reference Marks:																																																
Azimuth Data:																																																
Geodetic:	<p>FILE: 50372580.10o 000080049</p> <p>2005 NOTE: The IGS precise and IGS rapid orbits were not available</p> <p>2005 at processing time. The IGS ultra-rapid orbit was/will be used to</p> <p>2005 process the data.</p> <p>2005</p> <p style="text-align: center;">NGS OPUS SOLUTION REPORT</p> <p style="text-align: center;">=====</p> <p>All computed coordinate accuracies are listed as peak-to-peak values.</p> <p>For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy</p> <p>USER: rfirth@townhall.plymouth.ma.us DATE: September 16, 2010</p> <p>RINEX FILE: 5037258o.10o TIME: 14:19:12 UTC</p> <p>SOFTWARE: page5 0909.08 master.pl 1009103 START: 2010/09/15 14:05:00</p> <p>EPHEMERIS: igu16013.eph [ultra-rapid] STOP: 2010/09/15 20:20:00</p> <p>NAV FILE: brdc2580.10n OBS USED: 12795 / 13325 : 96%</p> <p>ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 49 / 49 : 100%</p> <p>ARP HEIGHT: 1.594104 OVERALL RMS: 0.012(m)</p> <p>REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2010.7061)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 35%;">1570553.851(m)</td> <td style="width: 15%;">0.027(m)</td> <td style="width: 15%;">1570553.081(m)</td> <td style="width: 20%;">0.027(m)</td> </tr> <tr> <td>Y:</td> <td>-4485702.931(m)</td> <td>0.017(m)</td> <td>-4485701.492(m)</td> <td>0.017(m)</td> </tr> <tr> <td>Z:</td> <td>4239278.140(m)</td> <td>0.014(m)</td> <td>4239278.074(m)</td> <td>0.014(m)</td> </tr> <tr> <td>LAT:</td> <td>41 55 23.96831</td> <td>0.008(m)</td> <td>41 55 24.00164</td> <td>0.008(m)</td> </tr> <tr> <td>E LON:</td> <td>289 17 47.01656</td> <td>0.030(m)</td> <td>289 17 47.00566</td> <td>0.030(m)</td> </tr> <tr> <td>W LON:</td> <td>70 42 12.98344</td> <td>0.030(m)</td> <td>70 42 12.99434</td> <td>0.030(m)</td> </tr> <tr> <td>EL HGT:</td> <td>10.682(m)</td> <td>0.014(m)</td> <td>9.438(m)</td> <td>0.014(m)</td> </tr> </table> <p>ORTHO HGT: 39.044(m) 0.026(m) [NAVD88 (Computed using GEOID09)]</p> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES</p> <p style="text-align: center;">UTM (Zone 19) SPC (2001 MA M)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">Northing (Y) [meters]</td> <td style="width: 30%;">4642666.451</td> <td style="width: 30%;">852861.361</td> </tr> <tr> <td>Easting (X) [meters]</td> <td>358739.842</td> <td>266058.426</td> </tr> </table>							X:	1570553.851(m)	0.027(m)	1570553.081(m)	0.027(m)	Y:	-4485702.931(m)	0.017(m)	-4485701.492(m)	0.017(m)	Z:	4239278.140(m)	0.014(m)	4239278.074(m)	0.014(m)	LAT:	41 55 23.96831	0.008(m)	41 55 24.00164	0.008(m)	E LON:	289 17 47.01656	0.030(m)	289 17 47.00566	0.030(m)	W LON:	70 42 12.98344	0.030(m)	70 42 12.99434	0.030(m)	EL HGT:	10.682(m)	0.014(m)	9.438(m)	0.014(m)	Northing (Y) [meters]	4642666.451	852861.361	Easting (X) [meters]	358739.842	266058.426
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To convert meters to US survey feet
Multiply by 3.2808333333

Convergence [degrees]	-1.13842779	0.53496034
Point Scale	0.99984554	0.99997620
Combined Factor	0.99984387	0.99997453
US NATIONAL GRID DESIGNATOR: 19TCG5873942666(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
DH5837	CTPU PUTNAM CORS ARP	N415358.888 W0715320.889 98391.8
DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 74023.2
DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 47926.8
NEAREST NGS PUBLISHED CONTROL POINT		
LW4620	MICAJAH	N415544.512 W0704208.789 642.6
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