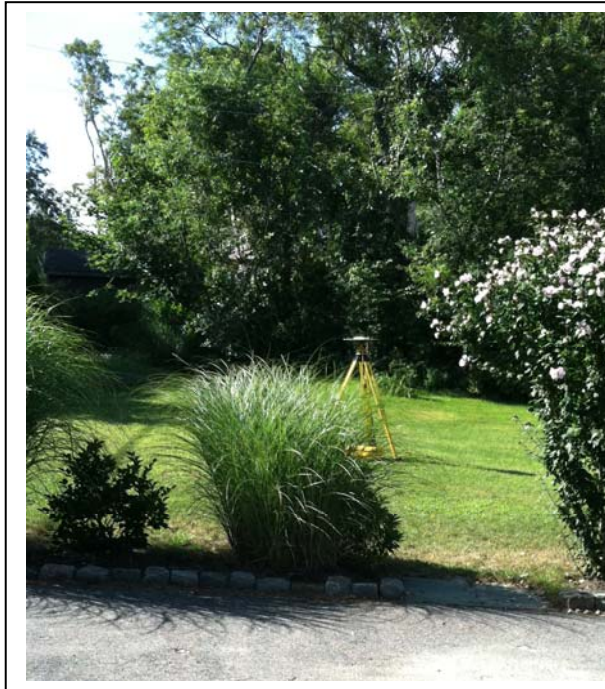


Town of Plymouth Data Sheet

Station:	Point 218	GEORGE ST		NGS PID#		ID#																																																					
Town:	Plymouth		Quad: SAG																																																								
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly																																																						
(Survey Ft)	2761889.305	916546.297	(Survey Ft)	301219.849	860243.934																																																						
(meters)	841825.544	279363.870	(meters)	91811.993	262202.875																																																						
						Order																																																					
Elevation	Vert. Datum f/m	Order	Stamping:																																																								
NAVD88	130.62/39.813		Sketch																																																								
NAVD29	131.466/40.071		Recov. Date:	Aug. 7, 2013																																																							
Marked by:																																																											
Description:	Galvanized Bolt set flush																																																										
Reference Marks:																																																											
Azimuth Data:																																																											
Geodetic:	<p>FILE: 50372190.13o OP1375907089317 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.jsp#accuracy</p> <p>USER: rfirth@townhall.plymouth.ma.us DATE: August 07, 2013 RINEX FILE: 5037219n.13o TIME: 20:26:10 UTC SOFTWARE: page5 1209.04 master50.pl 072313 START: 2013/08/07 13:20:00 EPHEMERIS: igu17523.eph [ultra-rapid] STOP: 2013/08/07 19:30:00 NAV FILE: brdc2190.13n OBS USED: 14556 / 15363 : 95% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 56 / 64 : 88% ARP HEIGHT: 1.545336 OVERALL RMS: 0.016(m)</p> <p>REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2013.5991)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">X:</td> <td style="width: 30%;">1585472.627(m)</td> <td style="width: 15%;">0.041(m)</td> <td style="width: 15%;">1585471.797(m)</td> <td style="width: 15%;">0.041(m)</td> </tr> <tr> <td>Y:</td> <td>-4488361.817(m)</td> <td>0.030(m)</td> <td>-4488360.375(m)</td> <td>0.030(m)</td> </tr> <tr> <td>Z:</td> <td>4230959.678(m)</td> <td>0.048(m)</td> <td>4230959.656(m)</td> <td>0.048(m)</td> </tr> <tr> <td>LAT:</td> <td>41 49 21.86175</td> <td>0.011(m)</td> <td>41 49 21.89658</td> <td>0.011(m)</td> </tr> <tr> <td>E LON:</td> <td>289 27 19.08068</td> <td>0.030(m)</td> <td>289 27 19.06758</td> <td>0.030(m)</td> </tr> <tr> <td>W LON:</td> <td>70 32 40.91932</td> <td>0.030(m)</td> <td>70 32 40.93242</td> <td>0.030(m)</td> </tr> <tr> <td>EL HGT:</td> <td>11.532(m)</td> <td>0.060(m)</td> <td>10.298(m)</td> <td>0.060(m)</td> </tr> <tr> <td>ORTHO HGT:</td> <td>39.813(m)</td> <td>0.103(m)</td> <td colspan="2">[NAVD88 (Computed using GEOD12A)]</td> </tr> </table> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"></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>4631248.768</td> <td>841825.544</td> </tr> <tr> <td>Easting (X) [meters]</td> <td>371715.459</td> <td>279363.870</td> </tr> <tr> <td>Convergence [degrees]</td> <td>-1.03018968</td> <td>0.64170253</td> </tr> </table>							X:	1585472.627(m)	0.041(m)	1585471.797(m)	0.041(m)	Y:	-4488361.817(m)	0.030(m)	-4488360.375(m)	0.030(m)	Z:	4230959.678(m)	0.048(m)	4230959.656(m)	0.048(m)	LAT:	41 49 21.86175	0.011(m)	41 49 21.89658	0.011(m)	E LON:	289 27 19.08068	0.030(m)	289 27 19.06758	0.030(m)	W LON:	70 32 40.91932	0.030(m)	70 32 40.93242	0.030(m)	EL HGT:	11.532(m)	0.060(m)	10.298(m)	0.060(m)	ORTHO HGT:	39.813(m)	0.103(m)	[NAVD88 (Computed using GEOD12A)]			UTM (Zone 19)	SPC (2001 MA M)	Northing (Y) [meters]	4631248.768	841825.544	Easting (X) [meters]	371715.459	279363.870	Convergence [degrees]	-1.03018968	0.64170253
X:	1585472.627(m)	0.041(m)	1585471.797(m)	0.041(m)																																																							
Y:	-4488361.817(m)	0.030(m)	-4488360.375(m)	0.030(m)																																																							
Z:	4230959.678(m)	0.048(m)	4230959.656(m)	0.048(m)																																																							
LAT:	41 49 21.86175	0.011(m)	41 49 21.89658	0.011(m)																																																							
E LON:	289 27 19.08068	0.030(m)	289 27 19.06758	0.030(m)																																																							
W LON:	70 32 40.91932	0.030(m)	70 32 40.93242	0.030(m)																																																							
EL HGT:	11.532(m)	0.060(m)	10.298(m)	0.060(m)																																																							
ORTHO HGT:	39.813(m)	0.103(m)	[NAVD88 (Computed using GEOD12A)]																																																								
	UTM (Zone 19)	SPC (2001 MA M)																																																									
Northing (Y) [meters]	4631248.768	841825.544																																																									
Easting (X) [meters]	371715.459	279363.870																																																									
Convergence [degrees]	-1.03018968	0.64170253																																																									

To convert meters to US survey feet
Multiply by 3.2808333333

	Point Scale	0.99980251	0.99998618
	Combined Factor	0.99980070	0.99998437
	US NATIONAL GRID DESIGNATOR: 19TCG7171531248(NAD 83)		
	BASE STATIONS USED		
	PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
	DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 64363.2
	DH5837	CTPU PUTNAM CORS ARP	N415358.888 W0715320.889 111954.0
	DI0884	ACU6 ACUSHNET 6 CORS ARP	N414435.676 W0705311.720 29761.7
	NEAREST NGS PUBLISHED CONTROL POINT		
	LW1525	TT K 5 USGS	N414905.96 W0703308.33 800.5
	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