

Town of Plymouth Data Sheet

Station:	Point 155	ROUTE 44		NGS PID#		ID#	
Town:	Plymouth		Quad: Plym				
NAD83	Northerly	Easterly	NAD 27	Northerly	Easterly		
(Survey Ft)	2810930.012	869010.954	(Survey Ft)	350260.984	812709.482		
(meters)	856773.181	264875.069	(meters)	106759.762	247714.346		
						Order	
Elevation	Vert. Datum f/m	Order	Stamping:				
NAVD88	213.533/65.085		Sketch				
NAVD29	214.347/65.333		Recov. Date:	Oct 6, 2009			
Marked by:	Stone Bound Drill Hole (<i>Mass Highway Bound</i>)						
Description:	Route 44 Mass Highway Bound.						
Reference Marks:							
Azimuth Data:							
Geodetic:	<p>FILE: 50372790.09o 000124370 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 USER: rfirth@townhall.plymouth.ma.us DATE: October 07, 2009 RINEX FILE: 5037279n.09o TIME: 11:44:00 UTC SOFTWARE: page5 0909.08 master40.pl 081023 START: 2009/10/06 13:47:00 EPHEMERIS: igu15522.eph [ultra-rapid] STOP: 2009/10/06 18:43:00 NAV FILE: brdc2790.09n OBS USED: 11076 / 11703 : 95% ANT NAME: TRM33429.00+GP NONE # FIXED AMB: 38 / 41 : 93% ARP HEIGHT: 1.557528 OVERALL RMS: 0.014(m)</p> <p>REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000) ITRF00 (EPOCH:2009.7635) X: 1568611.431(m) 0.012(m) 1568610.676(m) 0.012(m) Y: -4483625.557(m) 0.040(m) -4483624.117(m) 0.040(m) Z: 4242213.415(m) 0.019(m) 4242213.346(m) 0.019(m) LAT: 41 57 31.10852 41 57 31.14172 0.031(m) E LON: 289 16 57.21791 289 16 57.20761 0.012(m) W LON: 70 43 2.78209 70 43 2.79239 0.012(m) EL HGT: 36.753(m) 0.032(m) 35.511(m) 0.032(m)</p> <p>ORTHO HGT: 65.085(m) 0.041(m) [NAVD88 (Computed using GEOID03)]</p> <p style="text-align: center;">UTM COORDINATES STATE PLANE COORDINATES UTM (Zone 19) SPC (2001 MA M)</p> <p>Northing (Y) [meters] 4646610.664 856773.181 Easting (X) [meters] 357671.383 264875.069 Convergence [degrees] -1.14846205 0.52566835</p>						

To convert meters to US survey feet
Multiply by 3.2808333333

Point Scale	0.99984927	0.99997342
Combined Factor	0.99984351	0.99996766
US NATIONAL GRID DESIGNATOR: 19TCG5767146611(NAD 83)		
BASE STATIONS USED		
PID	DESIGNATION	LATITUDE LONGITUDE DISTANCE(m)
AF9520	WES2 WESTFORD CORS ARP	N423647.975 W0712935.968 96868.5
DI0964	FMTS MTS FRAM COOP CORS ARP	N421800.171 W0712630.865 70895.4
DI0966	XMTS MTS FOX COOP CORS ARP	N420350.018 W0711501.669 45675.4
NEAREST NGS PUBLISHED CONTROL POINT		
LW4632	NICK ROCK 2	N415735.750 W0704257.856 182.8
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