Town of Plymouth Data Sheet

Station:	Point 199	**Long Beach 1**		**NGS PID#**		**ID#**	
Town:	Plymouth		**Quad:** Plym				
NAD83	**Northerly**	**Easterly**	**NAD 27**	**Northerly**	**Easterly**		
(Survey Ft)	2814423.215	889003.175	**(Survey Ft)**	353753.883	832701.689		
(meters)	857837.912	270968.710	**(meters)**	107824.399	253807.982		
						Order	
Elevation	**Vert. Datum f/m**	**Order**	**Stamping:**				
NAVD88	13.986/4.263		**Sketch**				
NAVD29	14.816/4.516		**Recov. Date:**	January 4,20012			
Marked by:	Drill Hole						
Description:	Drill Hole in Wall Found						
Reference Marks:							
Azimuth Data:							

Geodetic:

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FILE: 50370040.12o OP1325713120199
 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

                            NGS OPUS SOLUTION REPORT
                            ========================
All computed coordinate accuracies are listed as peak-to-peak values.
For additional information: http://www.ngs.noaa.gov/OPUS/about.html#accuracy
      USER: rfirth@townhall.plymouth.ma.us          DATE: January 04, 2012
RINEX FILE: 5037004o.12o                            TIME: 21:40:26 UTC
  SOFTWARE: page5  1108.09 master.pl 0607113       START: 2012/01/04  14:06:00
 EPHEMERIS: igu16693.eph [ultra-rapid]              STOP: 2012/01/04  20:13:30
  NAV FILE: brdc0040.12n                       OBS USED: 13716 / 13881   :  99%
  ANT NAME: TRM33429.00+GP  NONE             # FIXED AMB:    58 /    62   :  94%
ARP HEIGHT: 0.981456                         OVERALL RMS: 0.009(m)
 REF FRAME: NAD_83(CORS96)(EPOCH:2002.0000)            ITRF00 (EPOCH:2012.0101)
         X:      1574133.974(m)   0.008(m)           1574133.184(m)   0.008(m)
         Y:     -4480928.750(m)   0.032(m)          -4480927.313(m)   0.032(m)
         Z:      4242921.002(m)   0.005(m)           4242920.940(m)   0.005(m)
       LAT:   41 58  3.71981      0.022(m)        41 58  3.75338      0.022(m)
     E LON:  289 21 22.28306      0.010(m)       289 21 22.27137      0.010(m)
     W LON:   70 38 37.71694      0.010(m)        70 38 37.72863      0.010(m)
    EL HGT:          -23.933(m)   0.023(m)               -25.178(m)   0.023(m)
 ORTHO HGT:            4.263(m)   0.041(m) [NAVD88 (Computed using GEOID09)]
                        UTM COORDINATES    STATE PLANE COORDINATES
                         UTM (Zone 19)         SPC (2001 MA M)
Northing (Y) [meters]     4647496.774           857837.912
Easting (X)  [meters]      363792.710           270968.710
Convergence  [degrees]    -1.09940354           0.57512720
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To convert meters to US survey feet
Multiply by 3.2808333333

	Point Scale 0.99982829 0.99997277 Combined Factor 0.99983204 0.99997653 US NATIONAL GRID DESIGNATOR: 19TCG6379247496(NAD 83) BASE STATIONS USED PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m) URIL 90752.2 ACU5 32053.6 XMTS 51372.7 NEAREST NGS PUBLISHED CONTROL POINT LW4570 LONG BEACH NORTH 1934 N415802.772 W0703836.933 34.4 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 3.2808333333