

GPS Calibration Report

Project : b3677_ctrlsheets

TIP Number	B-3677	Date & Time	10:12:56 AM 9/20/2007
User name	jjeffreys	Zone	North Carolina 3200
Coordinate System	US State Plane 1983		
Horizontal Datum	NAD 1983 (Conus)		
Vertical Datum	NAVD 88	Geoid Model	Geoid03 (Conus) NC Sub Grid
Coordinate Units	US survey feet		
Distance Units	US survey feet		
Height Units	US survey feet		

LOCAL SITE INFORMATION

Localized around	B3677-1
Latitude	N/A
Longitude	N/A
Site Scale Factor	N/A
Height	N/A

Datum Transformation Parameters

Warning: Datum parameter calculation did not converge

Method	Three Parameter
Translation along x axis	12.232sft
Translation along y axis	-80.558sft
Translation along z axis	57.146sft

Updated Default Projection (Transverse Mercator) Definition

Updated default projection not requested

Horizontal Adjustment Parameters

Northing coordinate of rotation center	519093.435sft
Easting coordinate of rotation center	1488753.623sft
Rotation about the center point	0°00'00"
Translation north	0.000sft
Translation east	0.000sft
Scale factor	1.00015858

Vertical Adjustment Parameters

Northing coordinate of origin point	520365.445sft
Easting coordinate of origin point	1494826.100sft
Vertical separation at origin	0.254sft
Slope north	0.209ppm
Slope east	0.210ppm

Geoid Model Definition

Geoid03 (Conus) NC Sub Grid

Residual Differences Between GPS (WGS84) And Local Coordinates

Summary

	Maximum error	Root Mean Square error	Point
Horizontal	0.004sft	0.001	M 048_GPS
Vertical	0.025sft	0.004	B3677-1_GPS
Three-dimensional	0.025sft	0.004	B3677-1_GPS

Point Residuals

WGS84 Coordinates		Calculated point FOR DISPLAY ONLY		Local Coordinates	
Point	B3677-1_GPS	Northing	520365.445sft	Point	B3677-1
Latitude	35°10'04.73530"N	Easting	1494826.100sft	Northing	520365.446sft
Longitude	80°41'25.70548"W	Elevation	672.545sft	Easting	1494826.102sft
Height	573.086sft	Horz error	0.002sft	Elevation	672.570sft
		Vert error	0.025sft	Utilized	Horz and Vert
		3D error	0.025sft	Quality	Survey quality
Point	B3677-2_GPS	Northing	521104.104sft	Point	B3677-2
Latitude	35°10'12.02990"N	Easting	1494767.867sft	Northing	521104.105sft
Longitude	80°41'26.55828"W	Elevation	694.699sft	Easting	1494767.865sft
Height	595.242sft	Horz error	0.002sft	Elevation	694.700sft
		Vert error	0.001sft	Utilized	Horz and Vert
		3D error	0.002sft	Quality	Survey quality
Point	M 099_GPS	Northing	494554.125sft	Point	M 099
Latitude	35°05'49.18169"N	Easting	1492981.579sft	Northing	494554.127sft
Longitude	80°41'42.60983"W	Elevation	770.861sft	Easting	1492981.580sft

Height	671.295sft
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Horz error	0.002sft
Vert error	0.012sft
3D error	0.012sft

Elevation	770.849sft
Utilized	Horz and Vert
Quality	Survey quality

Point	M 048 GPS
Latitude	35°14'17.58661"N
Longitude	80°40'17.44825"W
Height	645.307sft

Northing	545831.902sft
Easting	1500922.921sft
Elevation	744.837sft
Horz error	0.004sft
Vert error	0.012sft
3D error	0.013sft

Point	M 048
Northing	545831.899sft
Easting	1500922.923sft
Elevation	744.825sft
Utilized	Horz and Vert
Quality	Survey quality

Point	M 084 GPS
Latitude	35°08'51.93089"N
Longitude	80°48'20.36612"W
Height	578.772sft

Northing	513611.601sft
Easting	1460269.647sft
Elevation	678.371sft
Horz error	0.004sft
Vert error	0.002sft
3D error	0.004sft

Point	M 084
Northing	513611.599sft
Easting	1460269.644sft
Elevation	678.369sft
Utilized	Horz and Vert
Quality	Survey quality