

GPS Calibration Report

Project : b4296

TIP Number	B-4296	Date & Time	3:13:09 PM 11/28/2006
User name	tblowder	Zone	North Carolina 3200
Coordinate System	US State Plane 1983		
Horizontal Datum	NAD 1983 (Conus)		
Vertical Datum	NAD 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	B4296-2
Latitude	N/A
Longitude	N/A
Site Scale Factor	N/A
Height	N/A

Datum Transformation Parameters

Method	Three Parameter
Translation along x axis	13.218sft
Translation along y axis	-80.714sft
Translation along z axis	57.211sft

Updated Default Projection (Transverse Mercator) Definition

Updated default projection not requested

Horizontal Adjustment Parameters

Northing coordinate of rotation center	444145.882sft
Easting coordinate of rotation center	1474800.174sft
Rotation about the center point	0°00'00"
Translation north	0.000sft
Translation east	0.000sft
Scale factor	1.00013967

Vertical Adjustment Parameters

Northing coordinate of origin point	443862.766sft
Easting coordinate of origin point	1473383.199sft
Vertical separation at origin	0.158sft
Slope north	2.078ppm
Slope east	-1.118ppm

Geoid Model Definition

Geoid03 (Conus) NC Sub Grid

Residual Differences Between GPS (WGS84) And Local Coordinates

Summary

	Maximum error	Root Mean Square error	Point
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Horizontal	0.000sft	0.000	B4296-1_GPS
Vertical	0.014sft	0.002	B4296-2_GPS
Three-dimensional	0.014sft	0.002	B4296-2_GPS

Point Residuals

WGS84 Coordinates		Calculated point FOR DISPLAY ONLY		Local Coordinates	
Point	B4296-1_GPS	Northing	443862.766sft	Point B4296-1	
Latitude	34°57'24.41529"N	Easting	1473383.199sft	Northing	443862.766sft
Longitude	80°45'27.65212"W	Elevation	558.753sft	Easting	1473383.199sft
Height	458.926sft	Horz error	0.000sft	Elevation	558.749sft
		Vert error	0.004sft	Utilized	Horz and Vert
		3D error	0.004sft	Quality	Survey quality
Point	P2_GPS	Northing	444372.834sft	Point P2	
Latitude	34°57'29.57668"N	Easting	1474053.521sft	Northing	444372.834sft
Longitude	80°45'19.70887"W	Elevation	550.980sft	Easting	1474053.521sft
Height	451.161sft	Horz error	0.001sft	Elevation	550.977sft
		Vert error	0.003sft	Utilized	Horz and Vert
		3D error	0.003sft	Quality	Survey quality
Point	B4296-2_GPS	Northing	443992.958sft	Point B4296-2	
Latitude	34°57'25.85131"N	Easting	1474232.210sft	Northing	443992.958sft
Longitude	80°45'17.48184"W	Elevation	531.274sft	Easting	1474232.210sft
Height	431.456sft	Horz error	0.001sft	Elevation	531.288sft
		Vert error	0.014sft	Utilized	Horz and Vert
		3D error	0.014sft	Quality	Survey quality
Point	P1_GPS	Northing	443646.475sft	Point P1	
Latitude	34°57'22.40659"N	Easting	1474127.327sft	Northing	443646.475sft
Longitude	80°45'18.66806"W	Elevation	520.292sft	Easting	1474127.327sft
Height	420.472sft	Horz error	0.000sft	Elevation	520.288sft
		Vert error	0.004sft	Utilized	Horz and Vert
		3D error	0.004sft	Quality	Survey quality
Point	P3_GPS	Northing	444568.477sft	Point P3	
Latitude	34°57'31.71064"N	Easting	1475193.955sft	Northing	444568.477sft
Longitude	80°45'06.05173"W	Elevation	507.222sft	Easting	1475193.955sft
Height	407.414sft	Horz error	0.000sft	Elevation	507.221sft
		Vert error	0.001sft	Utilized	Horz and Vert
		3D error	0.001sft	Quality	Survey quality
Point	P4_GPS	Northing	444652.104sft	Point P4	
Latitude	34°57'32.72547"N	Easting	1476271.408sft	Northing	444652.104sft
Longitude	80°44'53.12721"W	Elevation	568.406sft	Easting	1476271.408sft
Height	468.608sft	Horz error	0.000sft	Elevation	568.405sft
		Vert error	0.001sft	Utilized	Horz and Vert
		3D error	0.001sft	Quality	Survey quality
Point	P5_GPS	Northing	443925.557sft	Point P5	
Latitude	34°57'25.55248"N	Easting	1476339.596sft	Northing	443925.557sft
Longitude	80°44'52.15446"W	Elevation	553.344sft	Easting	1476339.596sft
Height	453.546sft	Horz error	0.001sft	Elevation	553.343sft
		Vert error	0.001sft	Utilized	Horz and Vert
		3D error	0.001sft	Quality	Survey quality