

Bonneville Power Administration  
Geodetic Control Data Sheet

Station: B340 (256)  
Project: Wallula-Smiths Harbor-McNary  
Section: NE 1/4 3 Township: 5 North Range: 28 East Meridian: Willamette  
County: Benton State: WA USGS Quad: Umatilla, Washington  
Surveyor: M R Heidecke Date Surveyed: July, 2001

Instrument:

The horizontal coordinates and orthometric elevation were established by GPS observations using six Trimble 4000 SSI dual frequency receivers with Compact L1/L2 antennae with ground plane.

Adjustment:

The Basis of Coordinates for this survey is the Washington State Coordinate System, South Zone, NAD 83 (1998). The horizontal component of the least squares adjustment was constrained by holding NGS Stations B 340 (A), B 502 (B), PENDLETON (B), STANFIELD EAST BASE RESET (B), and BURDEN (B). The vertical component of the least squares adjustment was constrained by holding NGS Benchmarks B 340 (First Order Class II), B 502 (First Order Class II), BURDEN (Second Order Class II), V 203 (Second Order Class 0), G 640 (First Order Class I). The elevation for point 106, 201, 249, and 255 were determined by differential leveling from G 640, D 502, E 525 and F 431 respectively and held.

Horizontal Datum: NAD83 (1998) Linear Unit: International Feet  
Vertical Datum: NAVD88 Linear Unit: U.S. Survey Feet

Latitude: N 45-56-40.23583	Longitude: W 119-18-01.31836
US State Plane Coordinate System:	Oregon North Zone - 3601
Northing: 832,734.892	Easting: 8,507,269.537
Orthometric Elevation: 364.32	Ellipsoid Height: 293.2
Combined Factor: 0.99997238	Convergence: - 0-51-03
Confidence: 95% Confidence ("1.96 Sigma") Values	
Northing-0.000	Easting-0.000
	Elevation-0.000

Monumentation: Brass Cap in Concrete Barricade Wall  
Stamping: U.S.C.&G.S., B340, 1951

To-Reach Description:

See NGS data sheet for this station.

RECEIVED BY  
Umatilla County Surveyor  
Date \_\_\_\_\_  
Rec'd By \_\_\_\_\_  
*[Signature]*