

Bonneville Power Administration  
Geodetic Control Data Sheet

Station: WM005 (205)  
Project: Wallula-Smiths Harbor-McNary  
Section: NE 1/4 3                      Township: 7 North                      Range: 31 East                      Meridian: Willamette  
County: Walla Walla                      State: WA                      USGS Quad: Wallula, 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: U.S. Survey Feet  
Vertical Datum: NAVD88                      Linear Unit: U.S. Survey Feet

Latitude: N 46-07-26.92385	Longitude: W 118-55-10.52895
US State Plane Coordinate System: Washington South Zone - 4602	
Northing: 292,394.926	Easting 2,041,120.937
Orthometric Elevation: 402.79	Ellipsoid Height: 331.83
Combined Factor: 0.99993093	Convergence: - 1-08-53
Confidence: 95% Confidence ("1.96 Sigma") Values	
Northing-0.010	Easting-0.007                      Elevation-0.103

Monumentation: BPA 3/4-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.

Stamping: U.S.D.O.E. Bonneville Pwr. Adm., WM005 - FEC-01 - ATB - GPS

To-Reach Description:

Begin at Wallula Post Office at Wallula, Wa. 99363. Drive north on Columbia Way (County Road #1870) 0.2 miles to intersection of Columbia Way and Washington State Highway #12. Drive north on Washington State Highway #12, 3.8 miles to intersection of Highway #12 and Dodd-Iowa Beef Road. Turn right and drive east on Dodd-Iowa Beef Road 0.7 miles to intersection with the Union Pacific Railroad crossing (north-south). Drive south on Union Pacific Railroad right-of-way access road, running on east side of railroad tracks, 1.1 miles. Station is 150 feet east of centerline of railroad tracks, 75 feet south of railroad signal poles and 43 feet south of east west fence line.

Witness post is a yellow carsonite marker inscribed with BPA logo, bearing and distance to station.

RECEIVED BY  
Walla Walla County Survey  
Date \_\_\_\_\_  
Rec'd by \_\_\_\_\_  
No. 02-17-g