

SURVEY NARRATIVE – Sheet 1 of 2

To: Baker County Surveyor
Tom Hanley, P.L.S.
2043 Main St, Baker City, OR 97814

From: Anderson Perry & Associates, Inc.
1901 N. Fir Street, La Grande, Oregon 97850

RE: K19785 - ODOT I-84 Cable Median Barrier Project in Baker County, Oregon
Post-Construction Monument Restoration – NW 1/4, Sec. 16, T. 10 S., R. 41 E., W.M.

Date: August 11, 2020

Job/File No.: 863-158 (070.4)

Purpose, Approach, and Equipment

During the ODOT I-84 Cable Median Barrier Project, Anderson Perry & Associates, Inc. (AP) was tasked with recovering ODOT I-84 centerline brass cap monuments that mark and control the right of way alignment of the I-84 corridor through Baker County, Oregon. The pre-construction monument recovery survey was completed in 2018 in preparation for project construction. The newly constructed cable median barriers divide the east-bound from the west-bound travel lanes of I-84 for enhanced safety. A post-construction monument recovery survey was started in fall 2019 and completed during summer 2020, after construction was complete, to determine if any of the monuments in question had been disturbed or destroyed. In Baker County, five monuments were found to have been destroyed. A separate Survey Narrative will be filed for each point in Baker County Survey Records. This Survey Narrative details the re-monumentation effort in the Northwest One-Quarter of Section 16, Township 10 South, Range 41 East, Willamette Meridian.

Along the entire project corridor, which extended through five counties in eastern Oregon, 287 monuments were searched for and 244 monuments were recovered. The monuments were located with GPS in real-time kinematic (RTK) mode utilizing the Oregon Real Time GNSS Network (ORGN) administered by ODOT. The Oregon Coordinate Reference System (OCRS), Baker Zone, NAD83(2011) Epoch 2010 (EPSG Code 6787 for reference) was used for the portion of the project in Baker County. For each monument location, an additional ORGN observation was completed as a double check on the original monument location. The results of the double checks were compared to the original locations and used to verify that positional accuracies were adequate to meet the project specifications. The monument recovery was accomplished using Trimble R10 or R2 dual frequency GPS receivers in RTK mode.

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Monument Restoration – Sheet 2 of 2

For the monument restoration portion of the project, the available ODOT survey records were researched for each existing centerline monument within the project footprint in Baker County, specifically, their origin, type, size, and character and other relevant information, in preparation for setting the replacement monuments, in the event that they were disturbed or destroyed. That information for the monument in the NW 1/4, Sec. 16, T. 10 S., R. 41 E., W.M. is described in detail as follows:

History of Original Centerline Monument

The ODOT Centerline Monument set on Oregon State Highway Department located Line Drawing Number 8B-9-5 Part 2 of 3 Parts dated April 1958 describes "Set Conc Mon" at the record Centerline Station of 443+22.71.

Description of Monument Found

Found a 2-3/4" diameter brass cap set in concrete, 0.1' above the ground, stamped "STATE HIGHWAY DEPARTMENT REFERENCE WB 443+22.71 50.16" and a steel post with a metal highway right of way paddle stamped "POT WB 443+22.71 50.16" 2.35' east of the monument.

Description of Monument Established to Perpetuate the Original Position

The original monument has been destroyed by construction activities. At the position of the original monument, AP set a 3-1/2" diameter aluminum cap with a 3" long post, in an 8" diameter x 2' long concrete base, set flush with the ground. The aluminum cap is stamped "POT WB 443+22.71 50.16" and marked as shown. A piece of 5/8" diameter rebar was also placed inside the concrete base to aid in recovery.

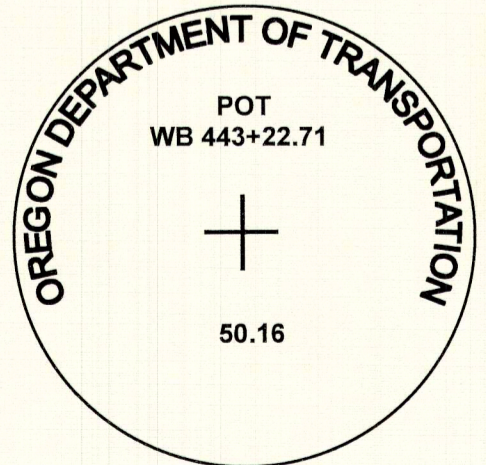
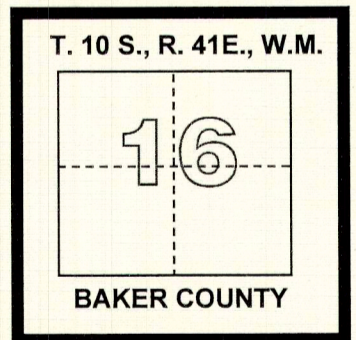
Horizontal Coordinate System Used

OCRS BAKER Zone, NAD83(2011) Epoch2010, (EPSG Code 6787 for reference) Expressed in International Feet

Northing	Easting
72832.63	165216.15

I hereby certify that the above monument position was perpetuated as hereon described on August 11, 2020.
Witnesses: Casey Boyd and Ryan Hays

NW 1/4 SECTION 16



REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON
JANUARY 20, 1998
MICHAEL B. POSADA
2849LS

EXPIRES: 12-31-2020
SIGNED: 09-10-2020

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