

**SURVEY NARRATIVE – Sheet 1 of 2**

**To:** Morrow County Surveyor  
Stephen K. Haddock, P.L.S., CFedS  
P.O. Box G, Pilot Rock, Oregon 97868

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

**RE:** K19785 - ODOT I-84 Cable Median Barrier Project in Morrow County, Oregon  
Post-Construction Monument Restoration – NW 1/4, Sec. 14, T. 4 N., R. 24 E., W.M.

**Date:** August 5, 2020

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

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**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 Morrow 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 Morrow County, two monuments were found to have been destroyed. A separate Survey Narrative will be filed for each point in Morrow County Survey Records. This Survey Narrative details the re-monumentation effort in the Northwest One-Quarter of Section 14, Township 4 North, Range 24 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), Columbia River East Zone, NAD83(2011) Epoch 2010 (EPSG Code 6807 for reference) was used for the portion of the project in Morrow 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 Morrow 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. 14, T. 4 N., R. 24 E., W.M. is described in detail as follows:

**History of Original Centerline Monument**

The ODOT Centerline Monument set on Oregon State Highway Department Relocated Line Drawing Number 7B-2-11 Part 2 of 3 Parts dated August 1950 describes "Set Brass Disk - Conc. Post" at the record Centerline Station of 1199+99.35.

**Description of Monument Found**

Found a 2-3/4" diameter brass cap set in concrete, flush with the ground, stamped "STATE HIGHWAY DEPARTMENT REFERENCE" and a steel post with a metal highway right of way paddle stamped "POT 1199+99.35" 2.8' southeasterly 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 1199+99.35" 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 Columbia River East Zone, NAD83(2011) Epoch2010, (EPSG Code 6807 for reference) Expressed in International Feet**

Northing	Easting
159176.49	675126.26

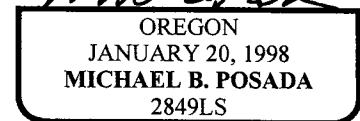
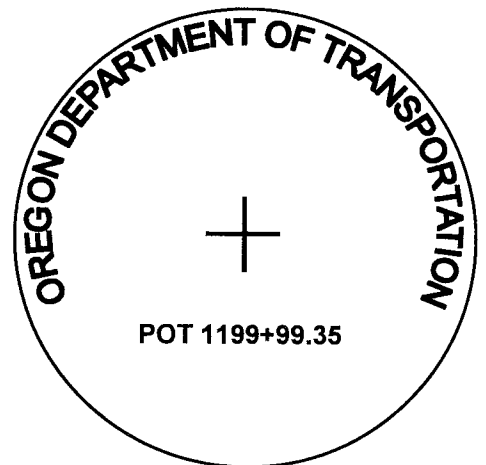
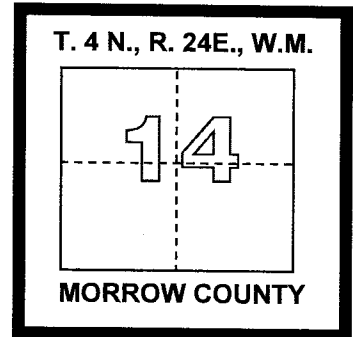
I hereby certify that the above monument position was perpetuated as hereon described on August 5, 2020.

Witnesses: Casey Boyd and Ryan Hays

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**NW 1/4 SECTION 14**



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