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## **19305 OR-99W ACCESS IMPROVEMENTS Preliminary Cost Estimate**

**Date:** April 19, 2019  
**To:** Christine Clair, Willamette Valley Vineyards  
**From:** Jason Wuertz, PE  
**Subject:** 19305 OR-99W Access Improvements Preliminary Cost Estimate

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### **Background:**

Access improvements along highway OR-99W include the extension of a two way left turn lane, the installation of a right turn lane, and associated improvements. The project is located between the Oregon Department of Transportation (ODOT) mileposts 28.39 and 28.70.

### **Preliminary Construction Cost Estimate Summary:**

The design includes an approximate 600-LF extension of a 14-FT two way left turn lane to accommodate left turns onto the property from northbound traffic. A southbound right turn lane is proposed.

Drainage is provided by the installation of a low-profile mountable curb and associated stormwater infrastructure. Due to the drainage basin of the adjacent property, a ditch is proposed north of the highway to intercept all offsite flows. Water quality treatment will be provided by the installation of a water quality swale north of the project site. This swale will be oversized to treat additional runoff area equal to the area at the southern end of the project that is not able to be treated due to existing stormwater infrastructure.

The summary of the rough order of magnitude cost of engineering and construction is \$1,348,000. Additional details can be seen in the attached detailed cost estimate.

### **Preliminary Cost Estimate Assumptions and Exclusions:**

1. 50% engineering design has been completed for the roadway improvements. 30% engineering design has been completed for the stormwater improvements. The cost estimate is based on several assumptions and should be considered preliminary. Full ODOT design review and approval has not been completed. A contingency of 15% is included.
2. Units that are in L.F., S.F., or S.Y. are based on 1-dimensional (linear) or 2-dimensional (horizontal plan) measurements. Units are not 3-dimensional (slope) measurements.
3. This estimate does not include:
  - a. City, County, State, or Federal Permit Fees
  - b. Hard Rock/Boulder Excavation
4. Volumes and quantities listed are approximate and based on preliminary plans for use to support grant application.
5. All quantities and volumes are based on 'in-place' measurements.
6. Estimate is based on BOLI wage rate 2019 dry weather construction.
7. Excess clean fill will be distributed on the adjacent vineyard property.

B.O. 19-198



Engineer's Estimate - 04/19/2019

Project: 5557 - 19305 OR99W Access Improvements

Estimate By: JAW

Item No.	Description	Qty	Unit	Unit Price	Total
1	MOBILIZATION	1	L.S.	\$75,000	\$75,000
2	TEMPORARY WORK ZONE TRAFFIC CONTROL, COMPLETE	1	L.S.	\$65,000	\$65,000
3	EROSION CONTROL	1	L.S.	\$5,000	\$5,000
4	CONSTRUCTION SURVEY WORK	1	L.S.	\$10,000	\$10,000
5	CLEARING AND GRUBBING	1.5	Acre	\$8,000	\$12,000
6	TREE REMOVAL	5	Ea.	\$3,500	\$17,500
7	GENERAL EXCAVATION	5500	C.Y.	\$20	\$110,000
8	ASPHALT PAVEMENT SAW CUTTING	3200	L.F.	\$3.00	\$9,600
9	COLD PLN PVMT REMV 2 INCH DEPTH	1136	S.Y.	\$13.00	\$14,768
10	3/4 INCH - 0 AGGREGATE BASE	2700	Ton	\$35	\$94,500
11	LEVEL 3, 3/4 INCH ACP MIXTURE	1900	Ton	\$130	\$247,000
12	CONCRETE CURBS, LOW PROFILE MOUNTABLE CURB	1600	L.F.	\$30	\$48,000
13	SUBSURFACE DRAIN OUTLETS	3	Ea.	\$1,750	\$5,250
14	12 INCH STORM SEWER PIPE, 5 FT DEPTH	1050	L.F.	\$120	\$126,000
15	CONCRETE STORM SEWER MANHOLES	2	Ea.	\$5,500	\$11,000
16	CONCRETE INLETS, TYPE CG-2	6	Ea.	\$3,500	\$21,000
17	CONCRETE INLETS, TYPE D	3	Ea.	\$4,000	\$12,000
18	SIGNAGE	1	L.S.	\$3,000	\$3,000
19	PERMANENT SEEDING - HYDROSEEDING	1.5	Acre	\$4,000	\$6,000
20	STRIPING (LEGENDS AND PAVEMENT MARKINGS)	1	L.S.	\$19,000	\$19,000
21	RELOCATE EXISTING POWER POLES	7	Ea.	\$7,500	\$52,500
22	WATER QUALITY SWALE	150	L.F.	\$100	\$15,000
23	DRAINAGE DITCH GRADING	1500	L.F.	\$10	\$15,000
24	STRIPE REMOVAL	775	L.F.	\$4	\$3,100

Subtotal: \$998,000  
 Contingency (15%): \$150,000  
 Engineering, Bidding, Inspection & Material Testing: \$200,000  
**Grand Total: \$1,348,000**

Accepted by Yamhill County  
 Board of Commissioners on  
6/20/19 by Board Order  
 # 19-198