**Project Description**

Study of the Interstate 84 (Columbia River Highway) westbound bridge over Union Pacific Railroad in Hood River to determine the most appropriate and cost-effective method to ensure the long-term usability and safety of the I-84 bridge over the railroad.

**Purpose And Need**

Several elements of this bridge require significant maintenance. The bridge deck, or surface, has required continual patching, bridge joints need maintenance and the guardrail needs maintenance. The shoulders on this structure are narrow. The structure could be repaired or replaced, but more information is needed to make a decision.

**Proposed Solutions**

- Conduct a study to collect information and help determine the next steps to repair the bridge and conduct necessary maintenance or replace the entire structure.

**Anticipated Benefits**

- Increased knowledge of the bridge's condition and the most appropriate and cost-effective method for resolving the bridge's deterioration.

**Cost**

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge</td>
<td>$500,000</td>
</tr>
<tr>
<td>Estimated Total Cost</td>
<td>$500,000</td>
</tr>
</tbody>
</table>


*www.Oregon.gov/ODOT/STIP Draft 2021-2024 Oregon Statewide Transportation Improvement Program*
Project Description
Repairs the Ruckel Creek culvert under Interstate 84 (Columbia River Highway) to extend the life of the structure and reduce future damage and maintenance needs.

Purpose And Need
The existing corrugated metal pipe culvert with a concrete-line bottom has deteriorated and needs repairs. At the outlet of the culvert, more material is needed to help address a change in height from the stream to the culvert.

Proposed Solutions
• Repair the culvert, including replacing a concrete culvert liner that is damaged and cracking.
• Address scour at the culvert’s outlet to aid in the flow of the stream and enhance fish passage.

Anticipated Benefits
• Extended lifespan of the culvert and increased safety of I-84 through repairs.

Cost
<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Culvert</td>
<td>$1,381,051</td>
</tr>
<tr>
<td>Estimated Total Cost</td>
<td>$1,381,051</td>
</tr>
</tbody>
</table>

Concrete in need of repair inside the Ruckel Creek Culvert.
Purpose And Need

Along these rural highways there are areas where the grade of the road makes it difficult for drivers to see a signal, stop sign, or intersection ahead. Bringing increased visibility to these areas will reduce crashes and increase safety.

Proposed Solutions

• Install lighting, signals, signs and stop bars where appropriate to increase visibility and safety.

Anticipated Benefits

• Increased safety and reduced crashes by increasing visibility of signals, intersections and vehicles entering the highway.

Funding

| All Roads Transportation Safety | $970,616 |
| Estimated Total Cost            | $970,616 |
Additional projects in Hood River County:

- I-84: Corbett Interchange - East Hood River Interchange Phase 2 (21780)
- I-84: Multnomah Falls - Cascade Locks (21766)
- US30: Sandy River - OR35 (21613)
- Portland Metro and Surrounding Areas Traffic Monitoring and Control (21600)
- Portland Metro and Surrounding Areas Variable Message Signs (21601)
- Portland Metro and Surrounding Areas Traffic Signal Upgrades (21603)
- Portland Metro and Surrounding Areas Traffic Pavement Marking (21604)
- Portland Metro and Surrounding Areas Signal Detection (21605)
- Portland Metro and Surrounding Areas Traffic Monitoring (21609)
- Portland Metro and Surrounding Areas Rockfall Mitigation (21610)
- Portland Metro and Surrounding Areas Operations (21611)
- Portland Metro and Surrounding Areas Audible Crosswalk Signals (21618)
- Portland Metro and Surrounding Areas Safety Reserve (21715)

View more information on each project in the Various/Multiple Counties section.