Overview

Mann Road is the only access point for hundreds of homes south of the City of Sultan. During the fall and winter, flooding in the area is caused by the Skykomish River, the south slough, and streams draining the hills to the south. Multiple points along Mann Road, Ben Howard Road, and 311th Avenue SE are susceptible to flooding during these events. Road closures due to flooding disrupt residents from accessing their homes and impacts school bus routes, emergency services, and more.

Feasibility Study

In February 2015, Snohomish County committed to performing a hydraulic analysis of the area to understand where the roads flood, to what extent, and how the levels of the Skykomish River correlate with the flooding.

Snohomish County Public Works used hydraulic river modeling and the United States Geological Survey (USGS) Skykomish River gage near Gold Bar to understand how the river flows influence the road flooding in this area.

The results of the study identified four locations susceptible to flooding at or less than a two-year recurrence interval.

Potential Project Plans

Two locations on Ben Howard Road (A & B) and one on Mann Road at Devil’s Elbow have been identified as potential spots for raising the road elevation. Culverts would be installed on Ben Howard Road at the two locations. At Devil’s Elbow, the existing culvert would be replaced with a 12 foot wide concrete box culvert and two smaller culverts.

Due to the widespread flooding on 311th Avenue SE, it is not feasible to raise the entire one-mile stretch of road. This would likely block the water flow and potentially have unintentional consequences to the surrounding area.

If 311th Avenue SE is flooded, residents could access their property via Ben Howard Road from Monroe.
Benefits

• By raising the roads and installing culverts to allow the water to pass under the road, the roads would remain passable during regional flooding up to approximately a five-year flood event.

• The potential project would allow the roads to accommodate the 60,000 cubic feet per second (cfs) flow of the Skykomish River as measured at the USGS gage at Gold Bar. The 60,000 cfs correlates to approximately a five-year flood event. This will reduce the average number of hours per year the road is covered with 12 inches or more of water (level at which the county closes the road).

• The reduction in flood potential for Mann Road and Ben Howard Road would greatly increase access to the area during times of heavy rain and river flow.

Cost & Funding

This project is estimated to cost $1.9 million. Snohomish County Public Works has applied for a grant to cover some of the cost.

More Information

For more information, visit snohomishcountywa.gov/3759. Sign up on the project webpage to receive email updates when information changes.

Estimated Timeline for Next Steps

Note: Timeline is contingent upon approval of permits and funding availability.

<table>
<thead>
<tr>
<th>Today</th>
<th>2017</th>
<th>2018-2019</th>
<th>Spring 2020</th>
<th>Fall 2020</th>
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<tbody>
<tr>
<td>• Snohomish County hosts a public meeting to share results of feasibility study and propose project plans</td>
<td>• Development of preliminary design</td>
<td>• Development of final design</td>
<td>• Construction expected to begin</td>
<td>• Construction targeted to be completed</td>
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All project details are subject to change as the design progresses.