Welcome!

The purpose of this public meeting is to present the findings of the hydraulic analysis that was performed on the Mann Road area. We would also like to collect your comments on the potential project.

We invite you to:

• View exhibits
• Speak with individuals from Snohomish County Public Works Surface Water Management and Engineering Services teams about this project
• Ask questions
• Provide formal comments via the comment form provided and return it to the drop box tonight or mail it before February 28, 2017

Thank you for attending tonight. Please help yourself to the cookies and refreshments.
Who’s Here

- **Dave Lucas**
  Supervisor, Floodplain Services, Surface Water Management

- **Zach Brown**
  Project Manager, Surface Water Management

- **Max Phan**
  Design Engineering Manager, Engineering Services

- **Sam Filetti**
  Supervisor, Engineering Services

- **Brook Chesterfield**
  Engineer, Engineering Services

- **Michael McVey**
  Right of Way Supervisor, Engineering Services

- **Jean Greagor**
  Real Property Specialist, Engineering Services

- **Fay Lim**
  Communications Supervisor

- **Meghan Jordan**
  Communications Specialist
Snohomish County performed a hydraulic analysis of the study area to understand where the roads flood, to what extent, and how the levels of the Skykomish River correlate with the flooding.

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

- Ben Howard Road (Location A)
- Ben Howard Road (Location B)
- Mann Road at Devil’s Elbow
- 311th Avenue SE at Sky River Slough
Hydraulic Analysis Study Area

Water covering Ben Howard Road at Location A

Water inching towards Ben Howard Road at Location B

Water covering Mann Road at Devil’s Elbow
# Skykomish River Flow Characteristics
at USGS Gage Near Gold Bar, WA (Gage #12134500)

<table>
<thead>
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<th>Stage (feet) (water surface elevation)</th>
<th>Flow Rate (cubic feet/second)</th>
<th>Return Interval (years)</th>
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**Notes:**
- Flood frequency estimate source: Skykomish River Sloughs Hydraulic Modeling Final Report, nhc, 12/7/15
Flooding When River is at 35,000 cfs (cubic feet per second)
Flooding When River is at 60,000 cfs (cubic feet per second)
Flooding on 311th Avenue SE

- 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 can access their property via Ben Howard Road from Monroe.
Preliminary Project Details

• Ben Howard Road Location A:
  o Raise the road ~2 feet for ~400 linear feet
  o Maintain a 22 foot wide road width
  o Install two 48 inch culverts

• Ben Howard Road Location B:
  o Raise the road ~4.8 feet for ~600 linear feet
  o Maintain a 22 foot wide road width
  o Install one 48 inch culvert

• Mann Road at Devil’s Elbow:
  o Raise the road ~6 feet for ~700 linear feet
  o Maintain a 22 foot wide road width
  o Replace existing culvert with a 12 foot wide concrete box culvert and install two 48 inch culverts
Ben Howard Rd Location A Potential Road Improvements
Project Timeline

- Today
  - Snohomish County hosts a public meeting to share results of feasibility study and propose project plans

- 2017
  - Development of preliminary design

- 2018-2019
  - Development of final design
  - Environmental permitting process

- Spring 2020
  - Construction expected to begin

- Fall 2020
  - Construction targeted to be completed

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