



# Public Works Department San Juan County

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## POINT LAWRENCE ROAD CULVERT REPLACEMENT PROJECT INFORMATION

*Objectives: Replace undersized culverts under Point Lawrence Road at Cascade Creek with 22.5 foot span bridge.*

### Basic Facts

- Culverts are undersized to convey flood and fish passage flows.
- Flooding has buried shellfish beds with eroded road shoulder and base material.
- Hard armored bulkhead shows erosion around the east side due to wave refraction
- Utilities are buried in the existing road prism.
- Archeological sites are in the area of construction
- Project Site is remote with a small lay down area available for material storage.
- One lane of traffic must be maintained due to lack of detour and construction on singular traffic access for east orcas.
- Fish work windows and daytime low tides necessitate summer tourist season construction of final bridge improvements. Much of the bridge work may be accomplished in the dry.

### Proposed improvements

- Install new precast 34 foot wide concrete bridge that will provide a minimum of 18 feet clear for the Cascade Creek channel as it flows into Buck Bay.
- Realign 20 foot roadway to connect to new 34 foot bridge alignment.
- Relocate utilities under bridge inside of inverted channel shaped precast sections in conduit or insulated casings. This is to avoid potential damage or snagging due to creek or tidal debris.

### Schedule & Cost

- Where are we now? Final Design.
- What will happen next?
  - 2010: Prepare design drawings, submit for permits, design wetland and shoreline mitigation (as required), plan for temporary and permanent utility work.
  - 2011: Bid project, perform utility temporary relocations, construct bridge (assume in water work window is July 16-October 16).
- How much will it cost?: \$800,000 (52.5% SRFB funds and 47.5% county Road Funds)

Questions: Dan Vekved, PE, Project Manager, Tel. 370-0504 danv@sjcpublicworks.org

34' WIDR TO MAINTAIN 1 LANE DURING CONST