

## **Replace aging single lane bridge over Rink Creek with two lane bridge.**

### ***Purpose and Need:***

Rink Creek Road is a principal roadway maintained by the City of Gustavus. Its 6 mile length connects the center of town to several neighborhoods and business, including our electric utility (the Falls Creek hydroelectric project), and it is the only thoroughfare through the entire eastern sector of Gustavus, providing essential access for residents and businesses and delivery of City services such as fire and emergency response. Rink Creek Bridge is a single lane bridge of timber frame construction, built around 1981 or 1982. It is the only bridge that crosses Rink Creek.

Although the David Hawes Rink Creek Bridge inspection of May 22, 2006, and the subsequent report issued June 14, 2007, states the timber frame bridge “was heavily built and its members are in good condition”, it did not actually survey the deck because of a railroad flat car placed directly on top of the bridge by the hydroelectric project contractor who was concerned the heavy equipment could not safely cross the bridge. The contractor plans to remove the steel flat car at the completion of the project. Mr. Dawes recommended the bridge be load-rated. Also of concern are the approaches to the original bridge. They dip down below the level of the road, and visibility is poor coming around the corner to the bridge. Frequently cars have to pull aside suddenly to avoid a collision from oncoming traffic. In the winter, the approaches are often slippery with ice and cars sometimes lose traction trying to get up the other side. The approaches to the bridge have washed out as recently as 2005, making the bridge impassable, with flowing water covering the bridge.

### ***Request:***

The City of Gustavus is asking the Alaska State Legislature for assistance in providing funds necessary to construct a bridge to meet current standards. This would be two 11-foot lanes plus 4-foot shoulder (30' wide top) and about 60 feet long with 1 ½:1 slopes up from a 20 foot streambed at flow line. This includes approaches on each side of the bridge, plus the survey, permitting/environmental, ROW, design, advertising, award, construction administration and inspection. This would increase safety for the citizens of Gustavus, enhance emergency services access to businesses, residences, and the Falls Creek hydroelectric project, and reduce the possibility of the bridge being closed due to flooding or washing away.

### ***Location:***

This project will be located at Mile 4.7 Wilson/Rink Creek Road. With approach work and the bridge construction, the area to be impacted will be less than ¼ acre. Most of the work will take place within the dedicated City right-of-way.

**Plans:**

Improvement to Wilson/Rink Creek Road was identified as a priority in the Gustavus Strategic Plan. The City of Gustavus passed Resolution No. 2004-05, *A Resolution of the City of Gustavus in Support of a Proposal to Improve Wilson/Rink Creek Road in Gustavus.*

**Business Plan:**

The City of Gustavus will solicit bids from an engineering firm to design a bridge including the approach roadway on each side of the bridge and prepare a scope of work statement. Based on this package the City of Gustavus will prepare a request-for-quotes and solicit bids from responsible contractors to do all necessary surveys, plus permitting/environmental, ROW, design, advertising, award, construction, administration and inspection. The City of Gustavus will be the owner of the bridge when completed, and will be responsible for all maintenance and upkeep.

**Budget:**

For a two-lane bridge, 30'W including shoulders, and 60' long with approaches

Category	Description	Cost
Structure	60x30x\$300	\$540,000
Approaches		\$200,000
Survey, permits/environmental, ROW, design, advertising, award, construction administration, inspection		\$110,000
Total		\$850,000

**Good River Culvert Replacement****Purpose and Need:**

Good River Road is a principal roadway maintained by the City of Gustavus. It has many side streets that have no other access. Two tenths of a mile from its beginning at Mountain View Drive, a pair of three foot culverts cross Good River. These are about half full of sediment and have no headwalls. The road is sloughing off into the river due to no headwalls. The roadway is getting narrower as time goes by and is creating a public safety concern.

**Request:**

The City of Gustavus is asking the Alaska State Legislature for assistance in providing funds necessary to replace undersized culverts, install headwalls, and all other necessary work to complete this project.

**Location:**

The crossing is located two tenths of a mile from the intersection of good River Road and Mountain View Dr.

**Business Plan:**

The City of Gustavus will solicit bids from an engineering firm to design a drainage, culvert, and road plan and prepare a scope of work statement. Based on this package, the City of Gustavus will prepare a request for quotes and solicit bids from responsible contractors to do all necessary earth work and install two six foot culverts with headwalls. The City of Gustavus will be the owner of the culverts when completed and will be responsible for all maintenance and upkeep.

**Budget:**

Two culverts side by side, 6' diameter, 30' long

Category	Description	Cost
Culverts with headwalls	66'x\$600/ft	\$40,000
Approaches	Both sides of culverts	\$25,000
Survey, permitting/environmental, ROW, design, advertising, award, construction administration, inspection		\$15,000
<b>Total</b>		<b>\$80,000</b>