

MEMO

TO: Kathleen Ramsay, Town Manager
FROM: Dan Werner, Director of Public Works Planning
DATE: October 17, 2018
RE: Follow-up to October 9, 2018 Selectboard Inquiries about Creek Road

As a follow-up to the Selectboard's discussion of Creek Road at its October 9, 2018 Meeting, I offer the following:

State Aid

State Highway Aid on Class III roads is currently \$1,522/mile. Creek Road from VTrans south to 3-Mile Br Rd = 12,490 feet or 2.37 miles. 2.37 miles @ \$1,522/mile = \$3,607.

Stabilization of River Bank from VTrans Garage to Bingham's driveway.

A few of the alternatives proposed in Pathway's 2017 report positioned a northern terminus of closure near the Bingham driveway (even if it was a trail). This would still involve approximately 1,000 feet of stabilization from this point north to the VTrans facility. Based on engineers' 2018 estimates of bank stabilization on Shard Villa Road at \$545 per foot of stabilization, the estimated cost of stabilizing this section of the river bank is \$545,000. The Shard Villa Road bank stabilization project is due to be put out to bid shortly, which should provide reliable, current-day cost estimates for similar work.

Since the bus tour of Creek Road last week, the section of river bank south of the 2015 repair near the Bingham driveway has cracked and settled even more. It probably won't be long before this falls in. Maintaining access to the Bingham's and Perrin's will become difficult. We should soon begin a conversation with these owners about alternative access.

Pathways Cost Estimate for Bank Stabilization

Pathways 2017 Study Option 3 estimate of \$1.2M included the cost of 2,200 lineal feet of river bank stabilization. Staff estimates that the current distance of bank stabilization needed is 7,300 feet. Based on engineers' 2018 estimates of the cost of bank stabilization on Shard Villa Road at \$545 per foot of stabilization, the cost of stabilizing 7,300 feet of river bank is \$3,978,500.

Therefore moving the road is a better long-term solution than armoring.

Shifting Road 25 Feet Away from River

Pathways 2017 Report estimated the cost of shifting 8,320 feet of Creek Road, 25 feet away from the river at \$1,285,000. However, shifting road 25 feet away from the river was not supported by state and federal regulators and grant funding agencies, who believe the distance between the river and the road should be greater.

Note: moving the road will not eliminate the need for a culvert structure just south of Perrin's at an estimated cost of \$70,000 +/-, nor eliminate the work needed at the north end (VTrans). At some point even agricultural equipment will not be able to cross this culvert.

Engineering - Cost Estimate for Reference

In order to obtain state and federal permits for bank stabilization work, stamped engineering plans will be required. For reference, I have attached the scope of work from DuBois & King's proposal for 210' of bank stabilization on Shard Villa Road. Although the D & K scope includes a minimal effort on road paving, it provides a current reference for the cost of engineering for this type of work.