Item 11: Request to Seek Quotes on Ditch 57 134th Bank Stabilization Project

COON CREEK WATERSHED DISTRICT
Request for Board Action

MEETING DATE: October 14, 2019
AGENDA NUMBER: 11
ITEM: Request to Seek Quotes on Ditch 57 134th Bank Stab

FISCAL IMPACT: $56,000
POLICY IMPACT: Policy

REQUEST
Authorize staff to seek quotes for project

BACKGROUND
In 2014 Staff completed a routine inspection of Ditch 57. Severe erosion was identified along a shaded outside bend of Ditch 57 near the intersection of Crooked Lake Blvd and 134th Lane NW. The inspection determined that the erosion was significant but appeared to be occurring gradually over time. The bank was surveyed and photographed to monitor the rate of erosion. The site was added to the Districts list of potential bank stabilization projects.

As part of the Comprehensive and Capital Improvement planning process, the Ditch 57 134th Bank Stabilization project was prioritized and budgeted $56,000 for work in 2019 as part of the District Bank Stabilization Program.

On September 10, 2018 the Board approved the 2019 budget including $56,000 for the Ditch 57 134th Bank Stabilization project.

In January 2019 Staff contacted the 3 property owners along the project area to discuss the bank stabilization project and obtain permission to survey the site for a detailed design.

In February 2019 Staff surveyed the site to determine current conditions for design.

In March 2019 Wenck provided a preliminary design and engineers estimate for a class II riprap design.

In September 2019 Staff communicated with the property owner to review the project and finalize the design.

ISSUES/CONCERNS
Project budget: $56,000

Engineers estimate: $35,680. The estimate utilizes higher than expected costs and includes a 10% contingency.
Failure: The eroded bank is located along a long gradual outside bend of Ditch 57 where water flow has, and continues to, gradually erode the bank toe over time. Additionally, trees routinely fall into the channel which obstruct and divert flow accelerating the rate of erosion.

Water quality: The existing gradual erosion is contributing approximately 80 tons TSS/yr and 32 lbs TP/yr (NRCS estimation method). An in-channel floating silt curtain will be installed during construction to prevent construction material from drifting downstream.

High water: Water levels in Coon Creek were high in the spring delaying the project timeline. Water levels have returned to normal.

Properties: There are 3 affected properties for this project. Cooperators agreements will be executed prior to issuing a notice to proceed.

RECOMMENDATION
Authorize staff to seek quotes from pre-qualified contractors
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Engineers Estimate

Coon Creek Watershed District
PAN 19-08 CD57 Bank Stabilization from 75+70 to 78+00

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Subtotal $32,435

10% Cont. $3,245

Total Quote $35,680

Total Quote in Words: ________________________________

Company Name: ________________________________________________________

Signature: _____________________________________________________________

Name Printed: __________________________________________________________

Phone Number: _____________________________  Date:_______________________

** MN DOT spec 3601. No limestone rip rap allowed.