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RECONSTRUCTION REPORT OF THE ZAC GUNTER TILE ARM OF PLUNGE CREEK

The Kosciusko County Drainage Board has instructed me to prepare a reconstruction report for the **Zac Gunter tile arm of Plunge Creek**. This reconstruction is proposed to take place from where the Zac Gunter tile arm empties into the open ditch (near the East line of the W1/2 of the NW1/4 of Sec.33-31-7) and ends 450' north of CR900S near the east r/w line of CR400E.

This reconstruction is designed to improve drainage further north of the reconstruction site and to alleviate flooding on CR400E north of CR900S. Also, this project will solve the issue of numerous tile breakdowns immediately north of CR900S that have occurred since the 1980s. Based on previous investigations by myself and the two previous county surveyors, it has been determined that the current tile size is inadequate in capacity to handle the volume of runoff water generated within the shed area. In the past (80s, 90s & 2000s) the landowners felt the cost to reconstruct said drain was too high and did not proceed after an estimate was determined by the Kosciusko County Surveyor's Office.

The current Kosciusko County Drainage Board, the Kosciusko County Surveyor and the Kosciusko County Commissioners have determined that a reconstruction should be pursued to reduce the amount of damages to properties within the shed area AND to eliminate the threat to the public due to frequent flooding of CR400E. The County Commissioners have agreed to contribute \$92,820.00 to the estimated total cost of the project which is \$168,409.80. The balance (168,409.80 - \$92,820.00 = \$75,589.80) will be paid by the owners of the lands within the shed area of this project IF the project is approved by the Kosciusko County Drainage Board at the May 23, 2019 public hearing. The shed map is a part of this report. Assessments for each tract of land will be based on the benefitted acres (area within the shed boundary).

The current pipe size within the project area ranges from 12"-18".

The proposed reconstruction project consists of approx:

3250' of 30" double-walled plastic tile (including installation)

300' of 24" " " " " " "

Bedded in stone through deep cut

Removal of old tile

Hookup of all laterals

One 5' diameter manhole on the north side of CR900S

Five 12" risers, includes on both sides of CR400E (in two places) and on the south side of CR900S

Reimbursement of crop loss due to construction (approx. 10 acres)

Incidentals (approx. 10%)

TOTAL ESTIMATE: \$168,409.80

If approved, the Surveyor's Office would have a starting date of summer 2019 (during the dry season).

Michael Kissinger
 Kosciusko County Surveyor