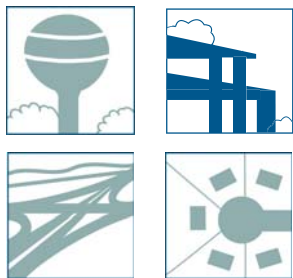


PICKWICK RESERVOIR OUTLET STABILIZATION



The Historic Pickwick Mill is located in Homer Township, Winona County, MN. A reservoir exists above the mill along Pickwick creek, and its primary outlet is the dam at the Mill. After the flood of 1980, a secondary, emergency outlet was created for the reservoir, which consisted of a 36' wide weir and twin box culverts placed under Township Road 8. The record flood of 2007 caused severe damage at the downstream end of the secondary outlet, and Homer Township received funding through the Natural Resource Conservation Service to repair the outlet and create a stilling basin to minimize erosion from any future flood events.

Client:

Homer Township

Contact:

Harlan Larsen, Board Chairman
(507) 452-1423

Location:

Homer Township (Pickwick), MN

Construction Cost:

\$220,000

Services Provided:

- Topographic Survey
- Hydraulic Analysis
- Structural Analysis
- Design
- Project Management
- Project Observation

Yaggy Colby Associates was hired to perform engineering services for the outlet repair project. The services included topographic surveying, soils investigation, hydraulic analysis, structural analysis of the culvert, design for the bank stabilization, stilling basin and culvert repair, project management, and project observation.

The Project was completed in October 2009. Several design solutions were explored, and the final project included a large rip-rap lined stilling basin, toe walls reinforced with sheet piling, bank stabilization extending 250' downstream, and reconstruction of the collapsed box culverts' apron sections.

