

Project Profile

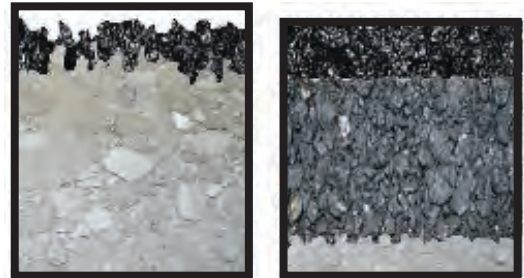
General Project Information

Project Location: Chisago County, Minnesota CSAH 86
Road Owner/Contact: Chisago County, MN / Mic Dalberg, County Engineer
Date Placed: August, 2000

Chisago county is a growing area on the outskirts of Minneapolis-St. Paul. As the twin cities are expanding, there is growing interest in the recreational activities located in the county. The county has many miles of gravel roads and a limited budget. An overlay placed on this road failed within the first year because of a weak aggregate base. The Fortress® full depth reclamation process is a cost-effective way to build structure down into the pavement and prepare the roads for future stage construction as the traffic continues to increase.

Cross-Sections

- Before:**
- ◆ 2" fatigued overlay
 - ◆ gravel / silty sand fill
- After:**
- ◆ 2" HMA overlay
 - ◆ 6" Fortress® stabilized base



Before

After

Construction Information

Contractor: WB Miller

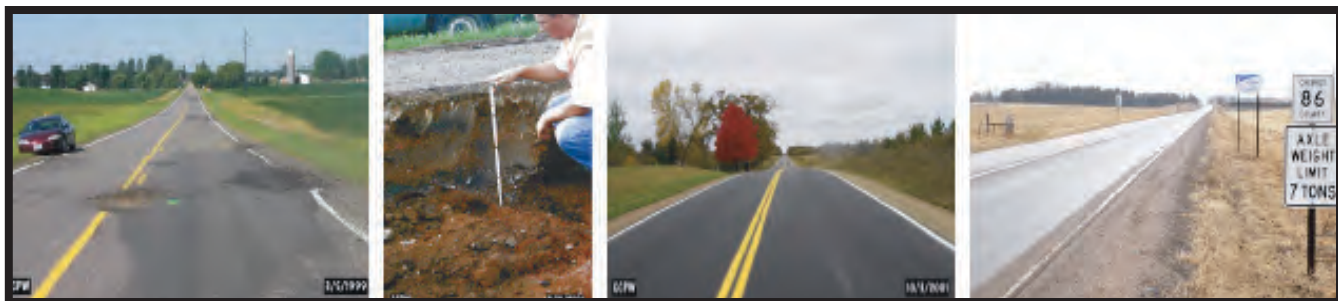
Equipment Used: Cat 350 reclaimer

Construction Notes: By using the Fortress® process to build the structure down into the pavement, the geometry and grade level for the roads were maintained. Rock was added in some of the weak areas to improve the gradation and base strength.

Traffic Return: Traffic was returned to the roads immediately after final compaction.

Surfacing: 2" HMA overlay

Photos



Before

Subgrade Correction

Fortress® Stabilized Road

CSAH After 3 Years

Design, Testing & Performance Information

After three years, the country is very pleased with the Fortress® process, and has completed several other projects.

For more information on this project, on the Fortress® process, or other solutions available in your area for your paving needs, contact your local Road Science™ representative.

