Tensar
A Division of CMC

PROJECT PROFILE

The City of Elkhorn went from excessive rutting...

To a smooth, paved street without expensive undercutting.

The City of Elkhorn saves money and time with Tensar® InterAx® geogrid compared to conventional construction solution

CLIENT'S CHALLENGE

Wright Street was experiencing alligator cracking which indicated poor subgrade support and was overall in poor condition. Foth Infrastructure, the design consultant for the project, reviewed the soil information and concluded that thick deposits of weak fill material were present. It was estimated that 3 ft. of material would need to be excavated from the site which would prove to be very expensive.

TENSAR SOLUTION

Instead of conventional excavate and replace, Foth proposed a design using Tensar InterAx geogrid to stabilize the subgrade. This innovative solution saved the City money and the contractor time off the construction schedule. The Asphalt road module in Tensar+™ design software was used to determine the traffic capacity and adequate design section. Ultimately a design section with 4 inch asphalt and 11 inch aggregate over InterAx NX850 geogrid with no additional undercut was selected. To ensure this design would be an adequate construction platform for asphalt paving operations, constructability checks were done in the "Pass a Proof Roll" and Unpaved Road modules of Tensar+ software.

Wright Street

Elkhorn, Wisconsin

City of Elkhorn
Owner

Foth Infrastructure
Engineer

Installation: 2023
Product: NX850

Over 4,000 cubic yards of material and more than 350 standard dump truck trips were eliminated with the InterAx geogrid solution.