



RESIDENTIAL ROADWAY REHABILITATION PROJECTS NEW BERLIN, WISCONSIN

Application: Residential streets within five neighborhoods of New Berlin, an incorporated city within the metropolitan Milwaukee area, were resurfaced with asphalt concrete during the summer of 2008.

The Challenge: Each site needed to remain open to neighborhood traffic during road preparation, installation of the GlasGrid System and resurfacing. Despite low-volume traffic counts, coordination of these paving sequences was critical.

Site Conditions: Pavement conditions were poor, with extensive cracking caused by several

typical failure mechanisms that included traffic and thermal loading.

Alternative Solutions: Alternatives included installing a waterproofing fabric or a thicker surface overlay, which would have increased future maintenance costs due to ongoing crack sealing and repair. However, a successful installation of the GlasGrid System in 2003 made this the preferred solution.

The Solution: Road rehabilitation in the five subdivisions took place in two phases. Crews from Payne & Dolan, Inc., general contractor, first placed a hot mix asphalt leveling course. Road Fabrics, Inc., subcontractor, then installed the GlasGrid mesh with two crews, each with one tractor operator and two laborers. The Operations Manager, Mike Kosey, stated the product “was installed quickly, with little inconvenience to residents.” This step was followed by laying down a 2-in. surface course. Tensar International and Road Fabrics sponsored an “open house” during the August GlasGrid System installation, inviting public works officials from neighboring municipalities to view the roadwork.

“In 2003, we installed the GlasGrid System along 2.5 miles of Lincoln Avenue, a major arterial road. In 2008, I could count the cracks on one hand,” noted JP Walker, P.E., city engineer. “All of the 220



The GlasGrid® System was installed quickly and with minimal inconvenience to residents.

PROJECT HIGHLIGHTS

Project:
Residential Street Resurfacing Projects

Location:
New Berlin, Wisconsin

Installation:
July–August, 2008

Product/System:
GlasGrid® 8501 Complete Road System

Quantity:
68,436 square yards

Design Engineer:
City of New Berlin

Consulting Engineer:
Crispell-Snyder, Inc.

General Contractor:
Payne & Dolan, Inc.

Subcontractor/Materials Supplier:
Road Fabrics, Inc.

CASE STUDY



REINFORCED ASPHALT OVERLAY

CASE STUDY

miles of roads under city jurisdiction are asphalt. The GlasGrid System has enabled us to increase roadway rehabilitation work from four to five miles a year — a 25 percent increase — within the budget. We're concentrating now on our residential areas. Installations have had very little impact on our residents — an important factor when analyzing cost/benefits.”

“The GlasGrid System does what it says: extend road life up to 200 percent,” Walker continued. “We estimate it will increase road life here from four or five years to ten. We expect great returns and will use the GlasGrid System in the foreseeable future.”

The GlasGrid Advantage: The GlasGrid System is the leading reinforcement interlayer system for pavement overlay design. It has been successfully used within asphalt overlays on highways, airport aprons, runways and parking lots across the world to combat reflective cracking initiated by several different causes, including thermal loading, lane widening and asphalt construction joints among many others.

With the spiraling cost of asphalt, municipalities can save with reduced maintenance for treating reflective cracking in new overlays. Properly installed, the GlasGrid System can extend pavement life up to 200%, dramatically reducing both maintenance and life cycle costs.



Municipalities can reduce maintenance costs by installing the GlasGrid System.

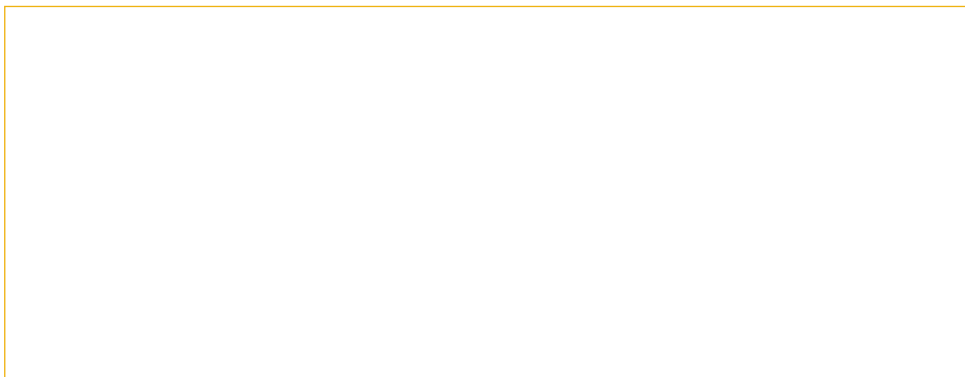
Additional Information and Services:

Tensar International Corporation, the leader in geosynthetic soil reinforcement, offers a variety of solutions for foundation and roadway projects. Our products and technologies, backed by the most thorough quality assurance practices, are at the forefront of the industry. Highly adaptable, cost-effective and installation friendly, they provide exceptional, long-term performance under the most demanding conditions. Our support services include site evaluation, design consulting and site construction assistance.

For innovative solutions to your engineering challenges, rely on the experience, resources and expertise that have set the industry standard for more than two decades.

For more information on the GlasGrid Pavement Reinforcement System or other Tensar Systems, call **800-TENSAR-1**, e-mail info@tensarcorp.com or visit www.tensar-international.com.

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