InterAx® geogrid keeps the project on track after unexpected soil conditions are encountered.

Intermodal Way Extension

Manteca, CA

CHALLENGE

With an assumed subgrade R-value of 50, the initial pavement section design of 7 inches of asphalt concrete (AC) and 8.5" inches of aggregate base (AB) were sufficient to meet the required Traffic Index (TI) of 11 for this critical commercial roadway. However, prior to construction, the engineer performed verification R-value tests. The test results showed that the subgrade soils had R-values less than 50. The new pavement section design with the lower R-Value would require an additional 7 inches of AB to meet the required TI. The new pavement section was not constructable due to shallow utilities within the roadway.

TENSAR SOLUTION

Tensar proposed a solution using InterAx NX750 geogrid. Adding NX750 geogrid at the interface between the subgrade and AB creates a stiff, mechanically stabilized base layer that reduces stresses on the subgrade. This allowed the project team to construct the pavement section as originally planned, eliminating the need for the the additional 7 inches of aggregate.

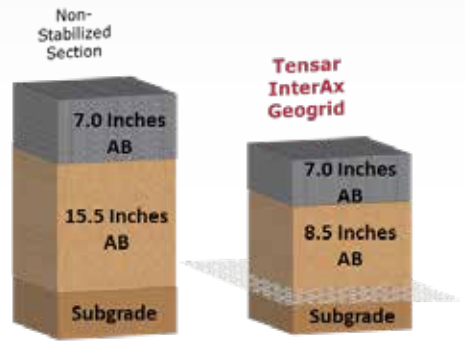
Tensar®
A Division of CMC

PROJECT DETAILS

Contractor
Knife River Construction

Installation
September 2022

Product
InterAx NX750 geogrid



The InterAx-stabilized solution eliminated the need for the additional 7 inches of aggregate that were not in the original design.

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CMC

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