

InterAx geogrid reduced section thickness, saved time and money compared to chemical stabilization.



Pecos Street Widening

Denver, Colorado

CHALLENGE

Adams County needed to increase the capacity of Pecos Street due to increased vehicle and truck traffic. In addition, the roadway alignment ran through an old undocumented landfill site. In order to address the poor soil conditions of the undocumented fill, engineers designed a thick section that required chemical treatment of the subgrade. This solution, however, interfered with utilities in the area. Adams County needed a solution that would avoid these utilities and provide superior performance for increasing vehicle and truck traffic.

TENSAR SOLUTION

Tensar designed a pavement section using Tensar+ software with two layers of high performing InterAx® NX750 geogrid to address these concerns. Utilizing the NX750 geogrid minimized excavation which reduced the risk of encountering utilities. It also mitigated the risk of building on undocumented fill. The second layer of geogrid achieved this by creating a stiffened aggregate layer that behaves like a slab and reduces risk of any differential settlement. Utilizing geogrid in the section also reduced the risk of full-depth failure as compared to chemically treated subgrade. In addition to resolving the difficulties of the project, InterAx geogrid provided cost and schedule savings.

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PROJECT DETAILS

Owner

Adams County

Installation

2024

Product

InterAx NX750 geogrid



InterAx stabilized section (left) compared to an unstabilized section (right). This output from Tensar+ software shows the reduction in section thickness and increase in performance

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