

**Project Name:**

Charlotte Intermodal Facility

Location:

Charlotte, NC

Owner:

Norfolk Southern Corporation

Date:

October 2012

Product:

AllianceGeo BX Type 2 (300,000 SY)

Civil Engineer:

Patrick Engineering

Geotechnical Engineer:

N/A

Contractor:

Milord Company

**Application/Problem Description:**

Use of BX geogrids to reduce the thickness of a roller compacted concrete (RCC) pavement.

Solution:

The pavements adjacent to the railway lines at this intermodal facility are required to carry the extremely heavy axle loads imposed by various container lifting equipment. Placement of a geogrid at the bottom of the unbound aggregate layer enabled the RCC thickness to be reduced by 3 inches. The geogrid also helped to mitigate the effects of a silty subgrade prone to significant rutting following periods of heavy rainfall.



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