Summary
The Metropolitan Nashville Airport Authority (MNAA) has laid out its vision for the expansion of the Nashville International Airport (BNA) to accommodate the region’s booming population growth to meet the needs to the airport’s passenger increases. To accompany the sizable additions to airport facilities, critical infrastructure around the facility needed to be updated to account for increased traffic flow. Once such project, located near the airport’s Consolidated Services Facility, required the use of gabions to construct a retaining wall.

Problem
Ambitious expansion plans, laid out by MNAA, for BNA require a substantial amount of critical infrastructure to support the new facilities. The road located near the Consolidated Services Facility on the campus required a much needed expansion to support larger truck, thus the slope located at the back of the property required a retaining wall for adequate support.

Client:
METROPOLITAN NASHVILLE AIRPORT AUTHORITY

Main Contractor:
MIKO, INC.

Designer:
THOMAS MILLER AND PARTNERS

Products used:
GABION

Date of Construction:
DECEMBER 2016 - JANUARY 2017
Solution
Groundwater in the area and the grade needed for the wall made it difficult to come to a solution that was both cost effective and could support the additional weight or large box trucks adequately. Gabions were selected for this application to allow for free flowing water in the area. The project’s engineers, familiar with gabions, know that the hexagonal, double-twist wire mesh was superior to the comparable welded wire gabion.

Plan overview of the gabion gravity wall installed onsite

Click here to contact our technical department for assistance on your project.

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