

What role could precast concrete trench drains, manholes, vaults and leveling pads possibly play at Baltimore-Washington International (BWI) Airport? This networked system of products was installed for the purposes of glycol reclamation resulting from the process of aircraft de-icing.

Terre Hill Concrete Products manufactured 2,295 LF of trench drains for this \$1.23 million dollar project which were placed along the north and south sides of a multimillion dollar de-icing pad. Additionally, a series of 24-inch pipe was installed to connect the trenches to 14 manholes measuring 5-ft in diameter and three glycol diversion vaults. Each of the 20-ft long, 18-inch wide drains were 60-inches deep, with 12-inch walls and a 9-inch floor. The three vaults, which measured 9-feet wide and 18-feet long with an inside diameter of 7-feet, 6-inches, each weighed approximately 167,000 lbs.

Tight tolerances required Terre Hill Concrete Products to also manufacture 230 leveling pads to aid the contractor in setting the sections of trench. An average of 120 feet of trench was delivered to the site daily, allowing the project to be completed in three weeks. In the end, precast concrete was the ideal solution for the project thanks to its minimal disruption and speedy installation.

PRECAST CASE STUDY

PROJECT:
BWI AIRPORT GLYCOL
RECLAMATION PROJECT

LOCATION:
BALTIMORE, MD.

PRECAST MANUFACTURER
TERRE HILL CONCRETE
PRODUCTS
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