



Product

Route 263 Floor Repair
Witehouse Station, NJ

Manufacturer:

Bethlehem Precast,
Inc.
Bethlehem, PA

Product:

LondonBoulder

Wall Contractor:

H.C. Constructors
Witehouse Station, NJ

Wall Design Engineer:

Civil Solutions Group
Minneapolis MN

Wall Dimensions:

Varying heights
1,524 sq ft

Site/Wall Contractor:

H.C. Constructors
Witehouse Station, NJ



The Challenge:

With the trout fishing season fast approaching and Route 623 in need of significant flood repair, the local municipality began searching for a long-lasting, aesthetically pleasing, efficiently built retaining wall system - one that could keep Route 623 from crumbling back into the stream during future high-water events.

The Solution:

Early considerations were given to a competing product whose design called for roughly 40 steel manta ray anchors to be placed beneath the road surface. With a price tag of around \$40,000 all by themselves, these anchors became a prohibitively expensive alternative.

With a limited budget and an even more limited time frame, Hazen, New Jersey's Route 623 Flood Repair project went out for bid.

Using a little ingenuity, Bethlehem Precast teamed up with Civil Solutions Group to design a LondonBoulder Retaining Wall that could eliminate the need for the expensive anchors, allowing them to maintain the attractive natural aesthetics of the streambed while saving significant money and installation time.

To accomplish this, the LondonBoulder keyway was lined with a 1" X 1" X 9" long shim to create a permanent one-inch setback. This setback amount was just enough to provide the stability needed to remove the anchors from the design, but not so much that it would reduce valuable space at the top of the wall already occupied by the paved road. Built in tight quarters with cars passing by just above the worksite, only 17 workdays were needed to complete this relatively complicated 1,524 square foot retaining wall.

