

PROJECT DESCRIPTION

U.S. Rt. 219 Bridge Backstay Anchor Design

**Location:**

Town
Springville,
New York

Client:

Cold Springs
Construction,
Inc.

Client**Contact:**

Mr. Jeff
Younger
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Backstay Anchors Support Bridge During Construction,

McMahon & Mann Consulting Engineers, P.C. (MMCE) worked with Cornell and Company Inc. and the general contractor, Cold Springs Construction Corp. to design of the backstay anchors for construction of the new US. Rt. 219 arch bridge over Cattaraugus Creek.



The backstay anchors hold up the arch bridge as it is erected. They consist of eight anchorages, four on each side of the gorge. Each anchorage consists of a reinforced concrete block, supported by steel piles and tied back to the abutment with 3 - 1 ¼ high strength steel rock anchors that extend 50 feet into the gorge face.