

PROJECT DESCRIPTION

Sound Barrier for Lewiston-Queenston Bridge



Location:
Lewiston, New
York

Client:
Oakgrove
Construction, Inc.

Client Contact:
Mr. Kenneth
Rawe, P.E.
(716) 652-2200

Preparing for Test Borings along the New Sound Barrier Alignment

Oakgrove Construction, Inc. Corporation (Oakgrove) was engaged to rehabilitate the Lewiston-Queenston Bridge and part of its contract required the design and installation of a sound barrier along the approach to the bridge on the U.S. side. Oakgrove engaged MMCE to design the sound barrier foundations.

MMCE engaged a test boring firm to drill borings along the alignment of the sound wall. The borings revealed that the bridge approach had been built on rubble fill covering bedrock.

MMCE designed the sound barrier with concrete posts and panels. The foundations are drilled shafts extending into the rubble fill. MMCE used the computer program LPILE to estimate lateral deflections of the foundations.

The 704-foot long wall ranges from 12.5 to 14.5 feet high.