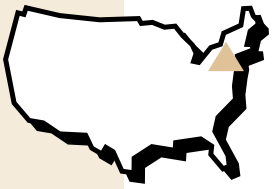
KEYSTONE RETAINING WALL SYSTEMS

CASE STUDY: BRIDGE APPLICATION

Keystone Project Wins A.P.W.A. "PROJECT OF THE YEAR" Award!

The Route 65 Bridge over Honeoye Creek, located in **Honeoye Falls, New York**, was awarded the **"Project of the Year" Award** for 1997 by the Monroe County / Genesee Valley Branch of the **American Public Works Association**. The Association's Award Program was established to promote excellence in the field of public works construction projects.

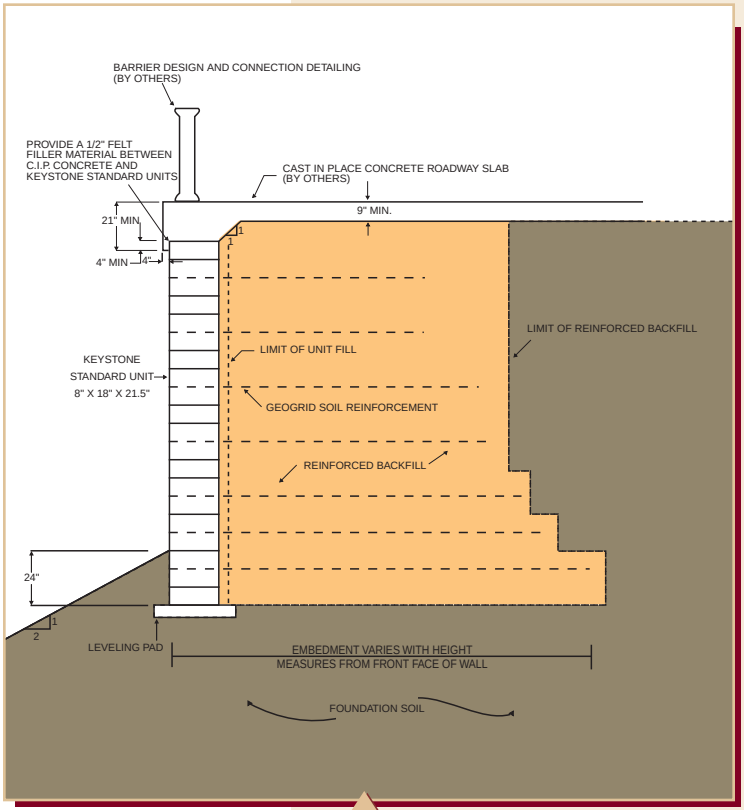
The original structure, a single span earth filled concrete arch bridge, was built in 1929. In an effort to keep the existing structure style in this village setting, the **New York State Department of Transportation (NYSDOT)** decided to develop this as an experimental project and build a segmental concrete arch bridge with the Keystone Retaining Wall System as the bridge wall. A Texas A & M style concrete barrier system was selected for the bridge rail. The Keystone System was installed at both fascias of the bridge. The rationale for choosing the Keystone Wall was based on aesthetics and economics. This type of wall system provides cost savings over a standard cast-in-place reinforced concrete wall. The wall was built by installing Keystone Standard units in the normal course by course method while field-cutting the Keystone units to fit along the arch structure as needed. The units were



PROJECT:	Replacement of Route 65 Bridge over Honeoye Creek
LOCATION:	Honeoye Falls, New York
PRODUCT:	Keystone Standard Units
SQUARE FOOTAGE:	2,500 sq. ft.
GENERAL CONTRACTOR:	Sealand Contractors Corp.
ENGINEERING CONSULTANT	NY State D.O.T. Region IV Design
KEYSTONE REPRESENTATIVE:	Domine Builders Supply Rochester, New York

Award winning results: Function & Aesthetics

placed in a running bond pattern and connected with high strength fiberglass pins between each layer. Select, free draining backfill was placed behind the Keystone units and compacted as the units were installed one course at a time. Structural geogrids, used to reinforce the soil behind the wall, were connected over the pins and pulled taut prior to placement and compaction of backfill. This Keystone/geogrid System provides the resistance to lateral pressure from the earth fill and traffic surcharge load. The attractive concrete bridge rail system was adopted not only to provide an aesthetic solution, but also a functional crash barrier for public safety!



Typical cross section.

Original bridge structure

Precast arch and Keystone walls

Domine Builders Supply of Rochester, New York, supplied the Keystone Retaining Wall System used in this award winning bridge reconstruction project. The project was designed by the New York State Department of Transportation and constructed by **Sealand Contractors** of Rochester, New York. The award was presented to Domine Builders Supply on January 29, 1998 during the American Public Works Association's annual awards banquet.

KEYSTONE® RETAINING WALL SYSTEMS
A CONTECH COMPANY

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