

spotlight – bridge market

Two Bronx River Parkway Bridges widened in Three Months

Westchester County, New York initiated a project to reconstruct the **Bronx River Parkway** from Cemetery Road to Lafayette Avenue.

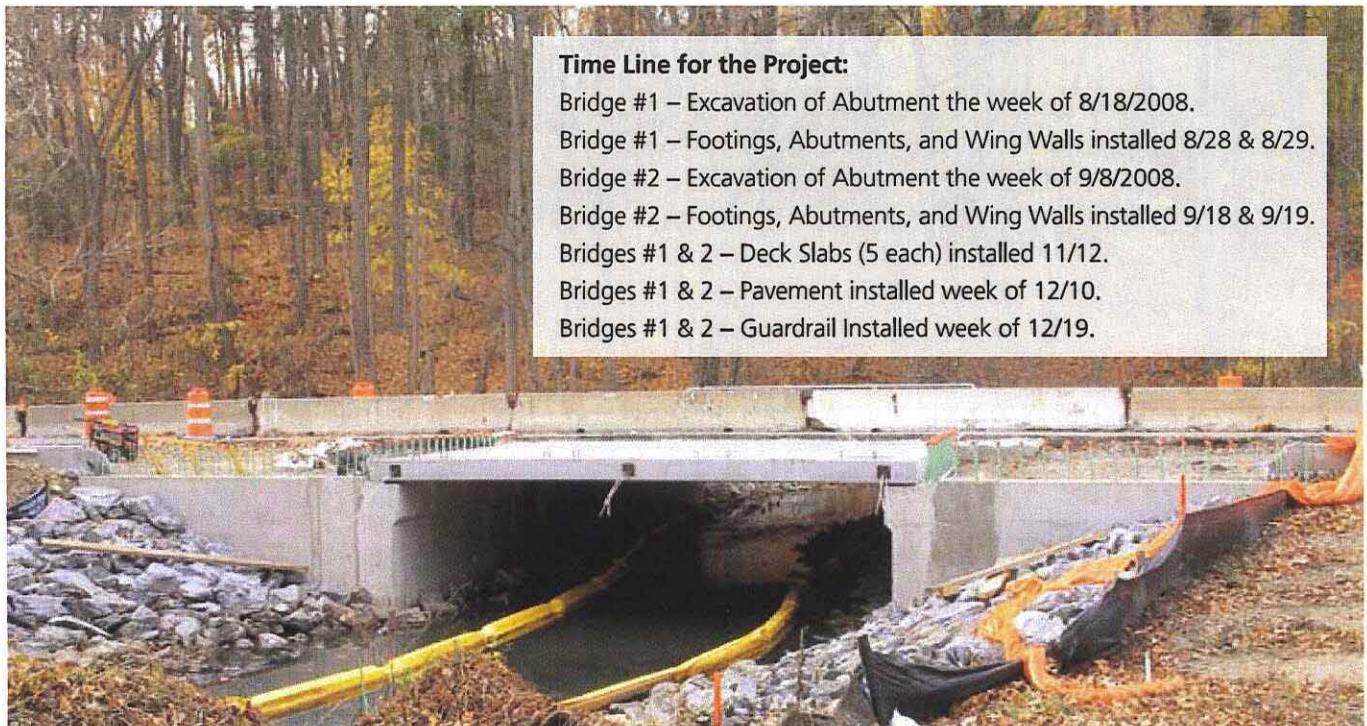
The project consisted of widening the highway and two existing bridges by approximately 20 feet. Montesano Brothers Construction working with Dailey Precast value engineered the CIP footings, abutments, and wing walls to a precast system. Precast, prestressed deck slabs were already part of the originally design. Considerable time was spent coordinating with the county, engineer and precaster to solve the design, fit, size, handling, and shipping issues required to meet the objective.

One bridge consisted of 15 precast pieces, while the other 13 pieces. Each bridge took one day to set footings, one day to set abutments and wing walls, and one half day to set deck slabs. The contractor had to complete the CIP joint and grouting requirements between and after settings along with the post tensioning of deck beams.



- Owner: **Westchester County Dept. of Public Works**
White Plains, New York
- Engineer: Berger, Lehman Associates PC
Rye, New York
- GC: Montesano Brothers Inc.
New Rochelle, New York
- Precaster: Dailey Precast LLC
Shaftsbury, Vermont

Original bridges: 45'- 2" wide with a span of 26'- 4".
Each bridge was widened by 20'- 6".



Time Line for the Project:

- Bridge #1 – Excavation of Abutment the week of 8/18/2008.
- Bridge #1 – Footings, Abutments, and Wing Walls installed 8/28 & 8/29.
- Bridge #2 – Excavation of Abutment the week of 9/8/2008.
- Bridge #2 – Footings, Abutments, and Wing Walls installed 9/18 & 9/19.
- Bridges #1 & 2 – Deck Slabs (5 each) installed 11/12.
- Bridges #1 & 2 – Pavement installed week of 12/10.
- Bridges #1 & 2 – Guardrail Installed week of 12/19.