

21

HAMILTON FORM CREATES FUNCTION

CASE STUDY

ARCHED SOFFIT FOR CURVED BRIDGE BEAM



"The curved beams for this project are critical. Hamilton Form delivered a soffit for the beams that made the casting simple – we supplied the drawings, they did the rest. I'd count on them for any project when the dimensional accuracy and quality of the product are essential."

*Dennis Fink, General Manager, Plant Operations
Northeast Prestressed Products, LLC*

The Project:

The original Frederick Avenue Bridge in Baltimore was a two-span concrete arch design built in 1930. In keeping with the historical character of the area, the replacement bridge is a two-span prestressed concrete structure designed to imitate the original bridge.

The Challenge:

Northeast Prestressed Products, LLC in Cressona Pennsylvania is supplying the precast elements for the project, including 12 arched sections assembled to create 2 arches on each side of bridge replicating the look of the original double arches.

The Solution:

To cast the beams, Hamilton Form fabricated a soffit that is 44' long and curves to a 52'6" radius. To form the radius, the understructure material was cut with a high-definition plasma cutter to hold tight dimensional tolerances.

The Results:

Just like the quality of the precast product is dependent on the form it's cast in, the quality of a curved soffit depends on the understructure. The accuracy of the understructure allowed the skin to be easily welded in place. The resulting product is stunning.



**When your project calls for innovative, flexible formwork solutions.
Call on Hamilton Form. 817 590-2111 or sales@hamiltonform.com**



Hamilton Form Company, Ltd.

7009 Midway Road • Fort Worth, Texas 76118

Custom forms. Custom equipment. Practical solutions.