**PROJECT PURPOSE**
The purpose of the bridge replacement project is MD DOT has designated this 106-year-old bridge as a priority project and immediate action must be taken because of the current condition.

**PROJECT DETAILS**
The new bridge design will appear consistent with the spandrel style from the original period it was built. It will be built to blend in with the surrounding environment while showcasing architectural features such as uneven geometry on the arch walls.

**FORMWORK USED**
Tutor Perini is familiar with EFCO and has used EFCO PLATE GIRDER® formwork on numerous projects in the past. They chose to use PLATE GIRDER formwork throughout the project because of the contractor’s familiarity with it, as well as confidence it would help reduce labor costs. This equipment will be used on stage II of the project before moving and rerouting traffic to begin stage III. Finished concrete quality was important for the contractor, as there was a need to keep with the artistic concept of the original design.

**THE STRUCTURE**
PLATE GIRDER panels were used to form the abutment footings, abutment stem, wing walls, pier cap, 7’ x 9’ x 47’ (2.1 m x 2.7 m x 14.3 m) tall piers, 47’ (14.3 m) tall arch support piers, and pier walls. One of the distinguishing features on this project is the pier caps with radial soffits, which went up to 51’ (15.5 m) long x 14’-4’ (4.4 m) deep x 7’ (2.1 m) wide and required a custom soffit form. The custom 7’ (2.1 m) radial soffit allowed the contractor to minimize the labor that would have been required for the wood build-up. EFCO also worked with Tutor Perini management during the design phase to minimize the amount of formwork and to have efficient re-use of equipment. Minimizing labor and a good concrete finish were important features throughout the project.

**EXTRAS**
Tutor Perini has enjoyed the excellent concrete finish and super service on this project. The equipment provided met their job requirements and delivered consistent production.

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**Using the proper safety equipment, you can climb EFCO formwork systems. Each rib acts like the rung of a ladder.**

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Dave Phillips ......................... Project Manager
Sam Lalego, P.E. ..................... Project Engineer
Josiah Smith .......................... Field Engineer
Mike Loughlin ....................... Project Superintendent
Vic Engleman ....................... EFCO Territory Manager
Rick Lynch ............................ EFCO Field Supervisor
Zack Montgomery ................... EFCO Engineer