Ohio’s First Slide-In Bridge Construction Project

This fall, the Ohio Department of Transportation accomplished something that has never been done before in the history of the State of Ohio: remove and replace an interstate bridge over the course of a weekend.

Known as Accelerated Bridge Construction (ABC), this amazing engineering feat took place on the Interstate 75 bridges over U.S. Route 6. The method that will be utilized by the contractor will roll the bridge into place and is referred to as a “Slide-in” bridge or a “lateral slide.” This method is increasingly being used for replacing bridges with minimal traffic disruption. Eight states, including Pennsylvania, Michigan and Indiana, have established the method among their officially endorsed construction practices.

Through the Every Day Counts initiative, state highway agencies are working with the Federal Highway Administration (FHWA) to implement and develop ABC techniques in the State of Ohio.

With approximately 25% of the Nation's 607,380 bridges requiring rehabilitation, repair, or total replacement, ABC offers a cost-effective method to rapidly replace an existing bridge while reducing impacts to mobility and safety.

How it works:

- The new bridge structure is built on temporary supports adjacent to the existing bridge.
- Once the new bridge is constructed, the existing bridge structure is demolished or slid to a staging area for demolition, and the new bridge is slid into its final, permanent location.
- Once in place, the roadway approach tie-ins to the bridge are constructed.

Benefits:

- Enhanced safety
- Shortened on-site construction time
- Reduced mobility impacts
- Potentially reduced project costs
- Improved quality
- Improved constructability
Project Details
ODOT completed the first “bridge slide” on the southbound Interstate 75 structure over U.S. Route 6 on October 16 through October 19.

ODOT is scheduled to slide the northbound Interstate bridge over U.S. Route 6 on Saturday, December 12.

The new bridge will slide into place at an average rate of approximately 8 feet per hour.

Estimate weight of the bridge: 4 million tons + 1 million ton approach slab

Interstate 75 Widening Project Cost: $71.1 Million
Cost of Interstate 75 Bridges over US 6: $7.8 Million
Contractor: Kokosing Construction Company Inc.

Project Start Date: 2014
Project completion date: October 2016

For more information

http://www.dot.state.oh.us/districts/D02/I75Widening/Pages/I-75-at-US-6-Slide-In-Place-Bridge.aspx


For more information contact:
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