



ACCELERATED BRIDGE CONSTRUCTION
UNIVERSITY TRANSPORTATION CENTER

UTC Project Information	
Project Title	Multi-Span Lateral Slide Laboratory Investigation: Phase 2
University	ISU
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Funding Source(s) and Amounts Provided (by each agency or organization)	\$70,000 from Accelerated Bridge Construction University Transportation Center (ABC-UTC) \$35,000 from Match funds from Iowa DOT
Total Project Cost	\$105,000
Agency ID or Contract Number	Accelerated Bridge Construction University Transportation Center (ABC-UTC) 69A3551747121
Start and End Dates	2020/01/01- Active
Brief Description of Research Project	Lateral slide-in bridge construction (sometimes referred to as slide-in bridge construction) has gained increasing attention as a viable Accelerated Bridge Construction (ABC) approach. With lateral slide construction, the majority of the bridge superstructure is constructed off alignment, typically parallel to the final position, and usually on a system of temporary works. The construction of this portion of the bridge is often completed while the original bridge is still open to traffic. In some instances, portions of the substructure are also constructed while the original bridge is still open to traffic – a technique designed to further reduce traffic impacts. Common techniques for accomplishing this include building substructure elements outside of the original bridge footprint as well as using innovative techniques to complete construction under the bridge with consideration of clearance limitations, stability of the underlying soil, and others. Once the construction of the superstructure is essentially complete, the original bridge is demolished and new substructure construction is completed. Then, usually over a relatively short period of time (hours to a day commonly), the new bridge superstructure is slid laterally from the temporary worksite onto the in-place substructure. While many DOTs have completed lateral slide construction of single span bridges and have common connection details

	<p>already established, these details do not directly apply to multi-span slides. The addition of more spans creates a more complex system that will require connections (and other details) that were previously not needed in a single span slide. This project will involve laboratory testing of closure pour connections. The variables that will be addressed by lab testing are driven based upon field findings from a recently completed multi-span lateral slide project in Iowa.</p>
<p>Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here</p>	<p>The outcomes will be tracked and reported once they are identified.</p>
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>This is an active research project. Upon completion, impacts will be reported.</p>
<p>Web Links</p> <ul style="list-style-type: none"> • Reports • Project website 	<p>https://abc-utc.fiu.edu/research-projects/isu-research-projects/multi-span-lateral-slide-laboratory-investigation-phase-1/</p>