



ACCELERATED BRIDGE CONSTRUCTION
UNIVERSITY TRANSPORTATION CENTER

UTC Project Information	
Project Title	Delivery Methods for Accelerated Bridge Construction Projects: Case Studies and Consensus Building
University	Iowa State University
Principal Investigator	Katelyn Freese
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Funding Source(s) and Amounts Provided (by each agency or organization)	\$30,427 Accelerated Bridge Construction University Transportation Center (ABC-UTC) \$15,213 Match funds from Kiewit
Total Project Cost	\$45,640
Agency ID or Contract Number	Accelerated Bridge Construction University Transportation Center (ABC-UTC) 69A3551747121
Start and End Dates	01/01/2018- 09/01/2019
Brief Description of Research Project	<p>Accelerated bridge construction (ABC) is the solution of choice to upgrade substandard bridges, while maintaining traffic flow and optimizing safety through work zones. However, the perception of higher construction costs for ABC versus conventional construction continues in spite of numerous ABC projects having lower construction costs relative to conventional construction. This inaccurate perception and the fear of cost overruns are causing some bridge owners to be hesitant about using ABC technologies, especially those technologies related to bridge system moves which can provide the greatest benefit for safety and traffic flow impacts. Whether to use ABC for a specific project needs to be decided at the project development stage. Research is needed to assist state DOTs in identifying contracting methods which have been utilized for ABC projects in the past, including lateral slides, longitudinal launches, and self-propelled modular transporter (SPMT) moves. Moreover, identifying successful contracting methods used for previously completed ABC projects will further encourage agencies to consider implementing accelerated construction practices for future project needs. This project will focus upon consensus building of contracting methods for ABC projects, as well as exploring potential advantageous alternatives when possible. Objective: The proposed research project will consist of a thorough exploration of current contracting methods for ABC projects. This will be accomplished via surveys, case studies, content analysis, interviews,</p>

	documentation and observations, as outlined in the following sections. It is anticipated that this effort will coincide with a separate research project from the research team regarding bid items and the bidding process for ABC projects.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	Match funds from Kiewit.
Impacts/Benefits of Implementation (actual, not anticipated)	The impacts will be tracked and reported once they are identified.
Web Links <ul style="list-style-type: none"> • Reports • Project website 	https://abc-utc.fiu.edu/research-projects/isu-research-projects/contracting-methods-for-accelerated-bridge-construction-projects-case-studies-and-consensus-building/