



ACCELERATED BRIDGE CONSTRUCTION  
UNIVERSITY TRANSPORTATION CENTER

<b>UTC Project Information</b>	
Project Title	Exploring Fiber-Reinforced Polymer Concrete for Accelerated Bridge Construction Applications
University	University of Washington
Principal Investigator	Travis Thonstad
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Funding Source(s) and Amounts Provided (by each agency or organization)	\$70,000 (ABC-UTC) \$35,000 (UW)
Total Project Cost	\$105,000
Agency ID or Contract Number	69A3551747121
Start and End Dates	2/1/2021 – 3/31/2022
Brief Description of Research Project	This project explores fiber-reinforced polymer concrete (FRPC), which exhibits very rapid strength gain and displays bond and tension strengths comparable to those of ultra-high performance concrete, as a potential closure joint material for projects requiring short or overnight closure windows. The bond and mechanical properties of FRPC will be determined at several temperatures and used to develop design recommendations for connecting common precast concrete superstructure elements, such as decked girders or deck panels, using FRPC.
Describe Implementation of Research Outcomes (or why not implemented) Place Any Photos Here	This project has just started. Implementation of Research Outcomes will be reported as work progresses
Impacts/Benefits of Implementation (actual, not anticipated)	This project has just started. Impacts/Benefits of Implementation will be reported as work progresses
Web Links <ul style="list-style-type: none"> <li>• Reports</li> <li>• Project website</li> </ul>	This project has just started. Web links will be reported as work progresses