

## 2017 Research Symposium & STIC Annual Meeting

## SHRP2 C19: Expediting Project Delivery

### STIC PROJECT TITLE

SHRP2 C19

### STUDY TIMELINE

October 2013 – Present

### VTRANS CONTACT(S)

Wayne Symonds, Deputy Chief Engineer  
Laura Stone, PIIT Engineer

### MORE INFORMATION

*Insert Link to Final Report – may have this by September.*

This fact sheet was prepared for the 2017 VTrans Research Symposium & STIC Annual Meeting held on **September 28, 2017** at National Life in Montpelier, VT. 8:00 am– 12:00 pm.

Fact sheets can be found for additional projects featured at the 2017 Symposium at <http://vtrans.vermont.gov/planning/research/2017symposium>

Additional information about the **VTrans Research Program** can be found at <http://vtrans.vermont.gov/planning/research>

Additional information about the **VTrans STIC Program** can be found at <http://vtrans.vermont.gov/boards-councils/stic>

### What is C19?

In 2012, the second Strategic Highway Research Program (SHRP2) published a report entitled, “Expedited Planning and Environmental Review of Highway Projects” (S2-C19-RR-1). This report describes 16 common constraints on expediting project delivery and 24 useful strategies for achieving expedited delivery. These strategies can be grouped into six expediting themes: (1) improve public involvement and support, (2) improve resource agency involvement and collaboration, (3) demonstrate real commitment to the project, (4) improve internal communication and coordination, (5) streamline decision making, and (6) integrate across all phases of project delivery.

In October 2013, VTrans was selected as a recipient of funding through the SHRP2 Implementation Assistance Program to deploy Expediting Project Delivery (SHRP2 product C19). In accordance with the “Statement of Work”, the funds were used to develop an action plan that identifies, describes, and evaluates the leading constraints to expediting project delivery (EPD) in the Accelerated Bridge Program (ABP) as well as strategies to overcome these barriers with a special emphasis on five of the strategies referenced in S2-C19-RR-1:

- Strategy 3: Context-Sensitive Design and Solutions;
- Strategy 8: Expedited Internal Review and Decision-Making;
- Strategy 10: Highly Responsive Public Engagement;
- Strategy 21: Strategic Oversight and Readiness Assessment; and
- Strategy 22: Team Co-Location.

### SHRP2 C19 Timeline



### Desired Outcomes of C19:

- Evaluate risks to timely project development and construction
- Identify opportunities to streamline the project development process
- Compare resource demands between the ABP and Conventional Project Delivery
- Analyze the VTrans organizational structure for opportunities for increase efficiencies
- Identify potential process improvements
- Build relationships with internal and external partners

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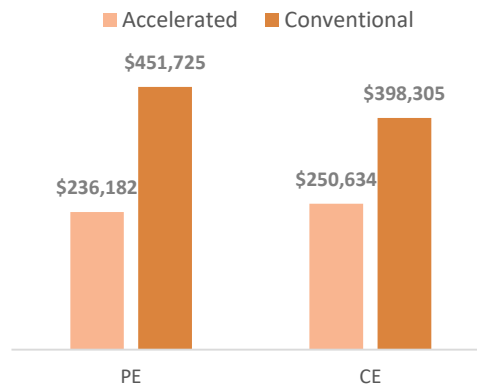
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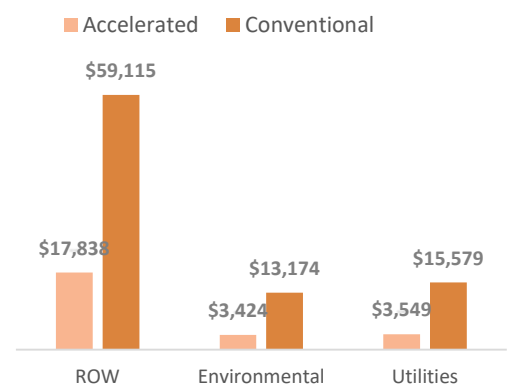
### Benefits of SHRP2 C19 and Expediting Project Delivery (EPD):

- Saves Money—leads to cost-efficient project development and delivery: EPD has resulted in a 40% savings in Engineering costs in the structures bridge program (see graph below)
- Saves Time—reduced design and onsite construction time
- Minimizes project impacts—impacts to ROW, utilities and environmental and cultural resources are reduced or eliminated: EPD in the structures bridge program has resulted in a 70% reduction in resource demand (see graph below)
- Minimizes impacts to the traveling public
- Safer for the construction workers and traveling public

**BRIDGE PROJECT AVERAGES:  
AVERAGE PE AND CE COSTS FOR  
CONVENTIONAL VERSUS ACCELERATED  
BRIDGE PROJECTS**



**BRIDGE PROJECT AVERAGES:  
AVERAGE RESOURCE COSTS FOR  
CONVENTIONAL VERSUS ACCELERATED  
BRIDGE PROJECTS**



### Project Action Items:

Deliverable/Activity	Action
Program Process Review and Workshop	
Project Initiation Process Improvements	<ul style="list-style-type: none"> <li>• Develop an Operations Questionnaire</li> <li>• Add Collaboration Phase</li> <li>• Heightened Stakeholder Coordination</li> </ul>
Documenting the PIIT/ABP Process	<ul style="list-style-type: none"> <li>• Stakeholder Interviews</li> <li>• Document PIIT and ABP Process</li> <li>• Develop performance measures for the PIIT and ABP</li> <li>• Document resource demands</li> </ul>
Scanning Tour	<ul style="list-style-type: none"> <li>• Conduct Scanning Tour</li> </ul>
Public Outreach	<ul style="list-style-type: none"> <li>• Public Involvement Plan</li> <li>• Website Development</li> <li>• Early Coordination with stakeholders</li> <li>• Outreach Products</li> <li>• Tools to engage the public</li> </ul>
Data Management	<ul style="list-style-type: none"> <li>• GIS Application Research</li> </ul>
Final Report Preparation	

### Future Action Items:

- Institute Mechanisms for Agency-wide Project Prioritization and Coordination  
*Supporting proper resource allocation and leveling, and  
Coordination of projects between programs and along corridors (including transportation assets and traffic management strategies)*
- Explore additional opportunities for  
*Team co-location  
Environmental, ROW and Construction*
- Enhancing Plan Quality  
*Exploring processes and tools to enhance the quality of our plans and specifications reducing the risk of obstacles in construction*
- Create Greater Partnership through the Construction Phase  
*Assign an RE during the design phase,  
Develop formal roles and responsibilities,  
and  
Create a valuable feedback loop*
- Explore Alternative Procurement Methods  
*To achieve program and project goals*
- Create Meaningful, Coordinated and Consistent Public Involvement Approach  
*To form community partnerships and increase public satisfaction*