

<b>Project Title:</b>	Generic sign cover for variable signs
<b>Project Synopsis:</b>	N/A
<b>Project Goal(s):</b>	Testing of Sign Covers for temporary and permanent signs.
<b>Project Background:</b>	<p>Most work zone signs for long term projects are on driven posts (14 days in Michigan). The configuration of the work zone will change during the project either by open or closing lanes and the permanent and temporary signing is required to be modified. To due this, a common approach has been to cover signs with an old plywood sign with the back side facing outward and two hooks at the top. This method allows for reduced worker exposure as removing and placing these signs potentially daily is not practical and presents issue for worker and motorist safety. A generic method for covering signs is something that occurs in every state on every project and needs to be tested to continue being able to do business.</p>
<b>Proposed Work Plan:</b>	<p><b><u>Tasks:</u></b></p> <ol style="list-style-type: none"> <li><b>Literature Review and Engineering Analysis</b></li> <li><b>Construction and Demolition</b></li> <li><b>MASH TL-3 Full-Scale Crash Testing and Reporting</b> <ul style="list-style-type: none"> <li>Note: Budgeting for four (4) full-scale crash tests</li> </ul> </li> </ol>

<b>Deliverables:</b>	Compile final report to document research effort, including literature review, CAD details, crash testing, and recommendations for further research in the event of the system failing testing criteria.
<b>Urgency and Expected Benefit:</b>	There are limitations on using soft covers due to the manufactures warranty of sign sheeting (some up to 15 years on permanent signs). Due to this, an approved and tested method needs to be evaluated.
<b>Problem Funding and Research Period:</b>	<p><b>Total Estimated Cost = \$105,000</b></p> <p><b>Work Schedule:</b> (Estimated Project Duration = 10 months from initiation of the project)</p> <ul style="list-style-type: none"> <li>• Task 1 = 3 months</li> <li>• Task 2 = 3 months</li> <li>• Task 3 = 4 months</li> </ul>
<b>Developer(s) of the Problem Statement:</b>	<p>Name: Chris Brookes, Work Zone Delivery Engineer</p> <p>Email: <a href="mailto:Brookesc@Michigan.gov">Brookesc@Michigan.gov</a></p> <p>Phone: 517-636-0300</p>