

# Research Problem Statement

<b>Project Title:</b>	<b>MASH Evaluation of Square Tubing Slip Base Sign Support Systems (2024-04-BD)</b>
<b>Project Synopsis:</b>	The evaluation of slip base sign support systems with structural square tubing is needed to determine MASH compliance of these devices. Oregon DOT currently uses these systems with varying configurations of posts, sign panels, etc. This research would evaluate MASH compliance through full-scale crash testing and provide guidance for use of various configurations of square post slip base sign support systems through engineering analysis.
<b>Project Goal(s):</b>	<ol style="list-style-type: none"> <li>1.) Evaluate MASH compliance of critical configuration of square post slip base sign support system.</li> <li>2.) Determine MASH compliance of other less critical configurations through engineering analysis</li> </ol>
<b>Project Background:</b>	<p>Oregon DOT uses the below linked details for slip base sign support systems.</p> <p><a href="https://www.oregon.gov/ODOT/Engineering/202201/TM602.pdf">https://www.oregon.gov/ODOT/Engineering/202201/TM602.pdf</a></p> <p>Previous crash testing has shown slip base breakaway systems to perform satisfactorily for MASH.</p>
<b>Proposed Work Plan:</b>	
<b>Deliverables:</b>	
<b>Urgency and Expected Benefit:</b>	Evaluation of these signs supports is needed to determine their MASH compliance and use on roadways.
<b>Problem Funding and Research Period:</b>	<b>Total Estimated Cost = \$XX,XXX</b>
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