

Title:	Use of Tamper Bar Paver to Place Thick Lift Asphalt Concrete Pavement
The Problem:	The Atlanta District utilizes Superpave SP-C mixes on many paving projects. The current specification limits the compacted lift thickness to a maximum of 3 inches. There are instances where 4 inches or greater thickness of asphalt concrete pavement (ACP) is required, such as pavement repairs and thick overlays. These operations currently require multiple lifts of ACP to be placed. Construction time, exposure to traffic, time of disruption, and cost continues to increase as projects are phased for multiple lifts of ACP placement even as traffic counts continue to increase.
Technical Objectives:	<p>The researchers shall address the following:</p> <ol style="list-style-type: none"> 1. Test laydown operations utilizing a tamper bar paving machine placing Superpave SP-C in a single lift of 3 inches to 6 inches in an overlay condition. 2. Test laydown operations utilizing a tamper bar paving machine placing Superpave SP-C in single lifts of 3 inches to 6 inches in a mill and inlay condition. 3. Place and test sections of different thicknesses and different rolling patterns and test for in-place air voids. <p>The expectation of this project is that the end product will obtain a TRL level 8.</p>
Desired Deliverables:	<ol style="list-style-type: none"> 1. Technical memorandum for each task completed. 2. Monthly progress reports. 3. Value of Research (VoR) that includes both qualitative and economic benefits, to be included in the final research report. 4. Research report documenting the findings of the research, including evaluation to determine if the use of a tamper bar paver is acceptable to place 3 inch to 6 inch lifts of Superpave C and still achieve air void specification requirements. 5. Project Summary Report.
Proposal Requirements:	<ol style="list-style-type: none"> 1. Utilize the "Proj/Agre" and "PA_Form" templates located at the TxDOT RTI website. 2. Proposals will be considered non-responsive and will not be accepted for technical evaluation if they are not received by the deadline or do not meet the requirements stated in RTI's University Handbook, which is also located at the RTI website. 3. Proposals should be submitted in PDF format, 1 PDF file per proposal. File name should include project name and university abbreviation. 4. This project will be tracked during the life of the project using a Technology Readiness Level (TRL) scale. For more information about the use of a TRL, click.