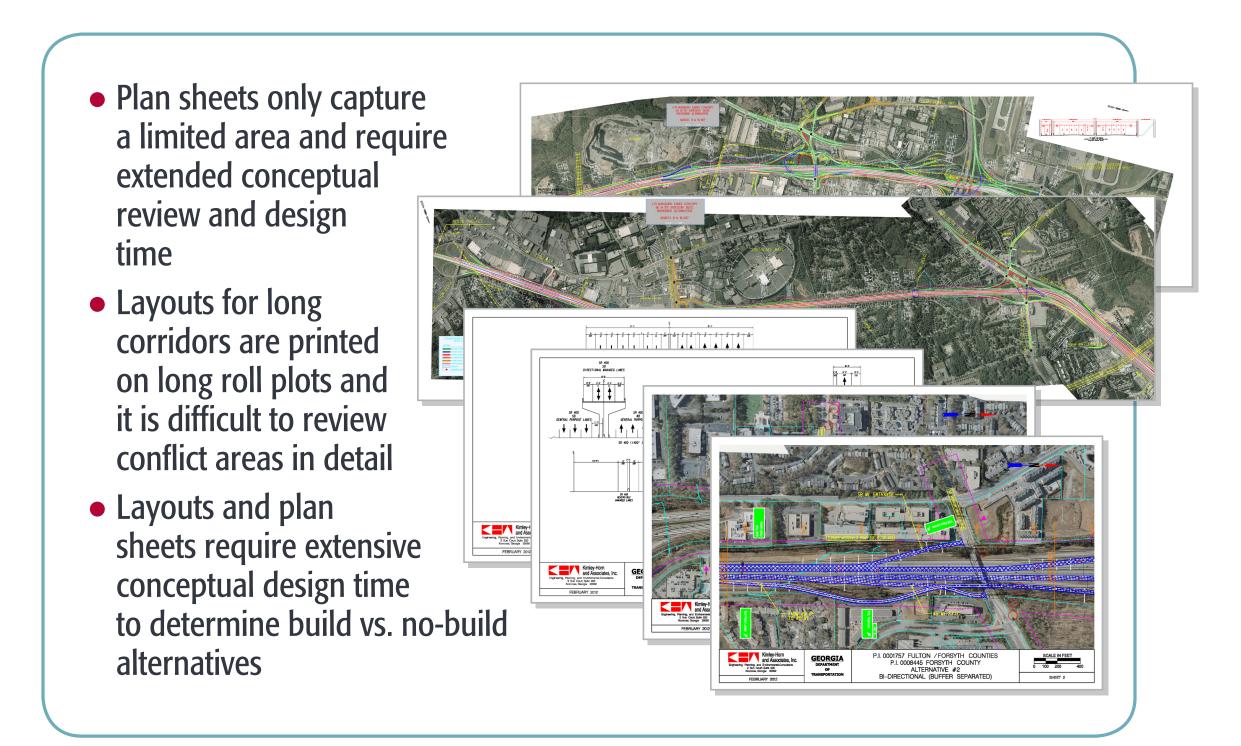
Managed Lane Alternatives Tool

A tool for evaluating conceptual managed lane geometric alternatives through long transportation corridors is presented to determine the feasibility of alternatives without the need for extensive CAD design. The tool is applied using a Microsoft Excel spreadsheet. The tool provides a concise interpretation of the existing topographic limitations of a particular transportation corridor and compares them to the proposed geometric cross section of a managed lane alternative. This is achieved by tabulating existing lane dimensions and clearances to edges of pavement, bridge piers, overhead sign structures, right-of-way, wetlands, or any other variables that are noteworthy for the purpose of tabulating impacts in a matrix of alternatives.

Geometric alternatives are then compared to the aforementioned existing limitations through a series of algorithms that instantaneously identifies the conflicting feature, its location, and the width in which a particular alternative is not feasible. The evaluation allows the user to develop a matrix of alternatives without the need for extensive conceptual engineering design layouts or plan sets and allows for quicker and more cost effective review before further developing alternatives.

▼ What's the traditional method?



▼ How does the tool work?

The tool tabulates existing corridor geometry in Microsoft Excel
 Proposed alternatives are compared with existing obstructions taken into consideration

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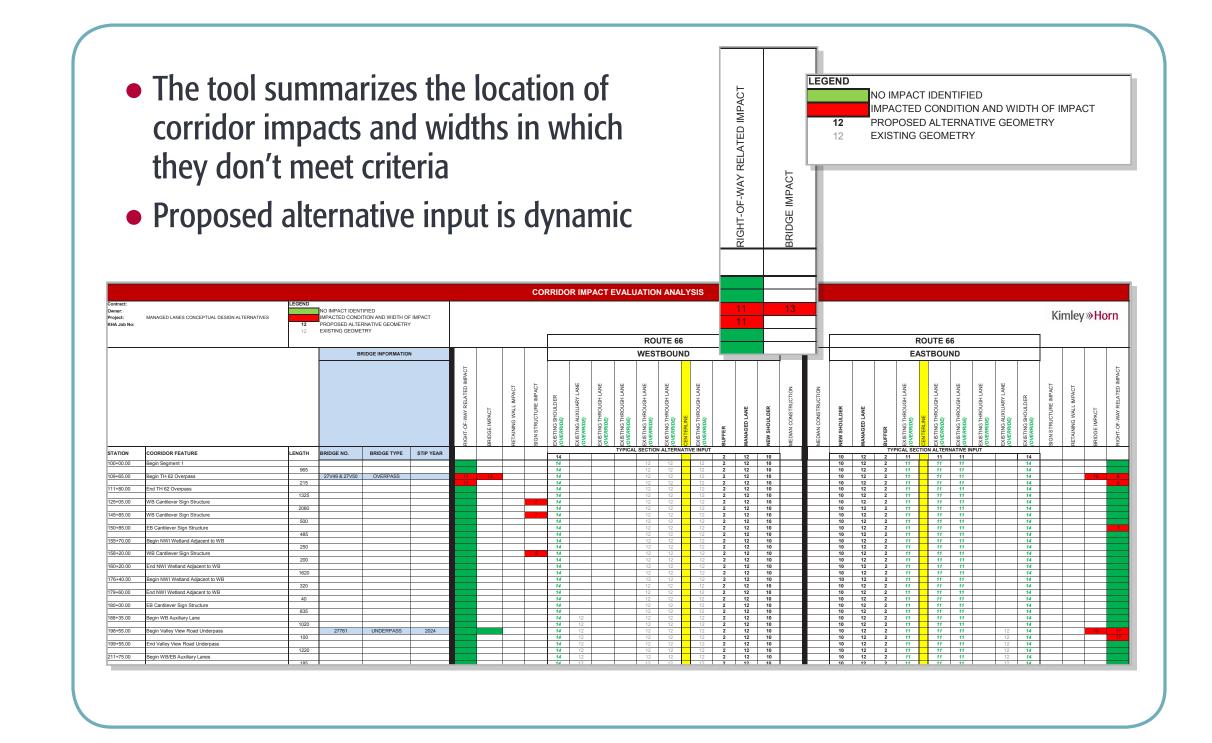
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▼ Why is it quicker and more cost-effective?



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