Registration Form

TEAM INFORMATION

Team Name/Project Title: Intersection Infrastructure Improvements at Lemay and Vine

Department: Civil Engineering

Faculty Advisor(s): Peter Marxhausen

Team Members:

Justin Dorough, Christopher Florence, Nathaniel Parker, Temartus K Taylor, Jacob Wagner, Alan Yelton

PROJECT INFORMATION

Description:

Engineering analysis to develop a solution to reduce significant traffic congestion at the intersection of Vine and Lemay in the City of Fort Collins, Colorado.

Abstract:

Traffic congestion has become an issue at the intersection of Vine and Lemay in the City of Fort Collins, Colorado. The congestion is attributed to population growth and an existing at-grade railroad crossing. Specifically, drivers using the Vine and Lemay intersection are experiencing extreme congestion due to the at-grade railroad crossing. The City of Fort Collins has requested an evaluation of different options to alleviate the traffic congestion at this intersection including construction of a new bridge, an underpass, and a revised at-grade crossing. A preliminary study of the intersection was recently completed by AECOM and the preliminary recommendations were presented to the City of Fort Collins.

The next step in the process is to develop a 30% design set of plans for a new crossing at the intersection to alleviate the traffic congestion and improve commuter safety in the area. The 30% design set should select the best type of crossing to accommodate the existing rail line (underpass/overpass/at-grade) and provide a set of construction plans with specifications.