TEAM INFORMATION

Team Name/Project Title: Swift Tram Transportation

Department: Civil Engineering

Faculty Advisor(s): Peter Marxhausen

Team Members: Kevin Johnk, Zabih Aghdasi, Andrew Espinosa, Daniel Gibas, Rachel Leigh, Joshua Thompson

PROJECT INFORMATION

Description:

This project provides the conceptual design of a new people mover transportation system at the Anschutz Medical Center.

Abstract:

This project includes the development of plans for the installation of suspended-coach, automated people mover (APM) systems in Denver, Colorado. The project will feature the initial deployment of Swift APM technologies. The results of this work will provide the basis for the actual installation of Swift APMs in Colorado.

A Swift automated people mover system consists of an overhead, fixed guideway tube; drive bogies that travel within the guideways; coaches that hang from the bogies through a slot in the bottom of the guideways; and control center IT. The guideway is a one-meter diameter steel tube with tracks on the interior and a slot in the bottom of the tube. The electrically powered bogies connect to conductors within the guideway for their 3 phase, 480 volt feed. The guideways are supported by 25 foot towers spaced at approximately 100 foot intervals. Boarding stations can be either at grade or elevated as the case may be.