

State Route 710 North

TRANSPORTATION SYSTEM MANAGEMENT/TRANSPORTATION DEMAND MANAGEMENT ALTERNATIVE

Description

The Transportation System Management/Transportation Demand Management (TSM/TDM) alternative is designed to maximize the efficiency of the existing transportation system by improving capacity on the local street system and reducing the effects of bottlenecks and chokepoints. These relatively low-cost, low-impact strategies are included to all of the State Route 710 Build alternatives to enhance performance.

TSM strategies include coordinated traffic signal timing to help relieve congestion, ramp metering to control the entry of vehicles onto a freeway, and minor street widening and intersection improvements to improve traffic circulation. TDM strategies promote carpooling, staggered work shifts and more transit use.

Further refinements with local input and coordination, prior to implementation will be crucial to optimize performance and minimize impacts to surrounding communities.

TSM Design Elements

The following TSM elements are being considered:

Intelligent Transportation Systems (ITS)

- > Traffic signal upgrades and prioritization
- > Transit signal priority
- > Ramp metering
- > Driver information system
- > Local arterial changeable message signs
- > Vehicle detection systems
- > Variable speed control

Transit (Bus) Enhanced Service

- > Adjust bus service operating plans and evaluate off board fare collection technologies to reduce delay and increase bus service during peak periods
- > Results in bus frequencies reduced to as little as 2.5 minute headways during peak periods

Active Transportation Systems

- > Provide pedestrian and bicycle amenities to support access to proposed transit alternatives
 - o Requires coordination with local agencies

Intersection and Local Street Improvements

- > Accommodate targeted capacity improvements throughout the study area
 - o 27 local intersections, 7 local street segments, 2 street extensions, and one interchange
 - o Requires coordination with local agencies

TDM Strategies

The following TDM strategies are being considered:

- > Enhanced bus service
- > Reduce the demand for travel during peak periods
- > Encourage rideshare and transit use
- > Eliminate trips (e.g. telecommuting)
- > Improved transportation options