

Attachment 2

North Spring Street Viaduct Widening and Rehabilitation Project Traffic Analysis Summary - Revised

An analysis of current and future traffic conditions for North Spring Street Viaduct over Los Angeles River has been completed. The traffic analysis was performed through the use of established traffic engineering techniques. Traffic counts were obtained from the latest SCAG 2008 RTP model.

The purpose of the study was to determine the impact the viaduct widening would have on traffic operation. The analysis was performed using HCS 2000 to determine the level of service (LOS) of the viaduct for current conditions (2008) and four future scenarios: 2015 and 2035 – No Project and 2015 and 2035 – With Project. The existing traffic volume was projected to year 2015 (Opening Year) and 2035 (Horizon Year) using the City’s recommended Ambient Growth of 1% per year using the same model. Other projects affecting the area were assumed already included in the model.

Specific project elements consist of widening the existing North Spring Street Viaduct approximately 20 feet on each side. The number of lanes will remain the same as existing (i.e. two lanes in each direction) except bicycle lanes will be added on both sides of the roadway and the short existing third eastbound lane at the 5-point intersection will be lengthened to 620 feet. The existing left turn pocket at this end will also be lengthened.

This project will also involve closing Aurora Street (where it presently joins North Spring Street) and will include a cul-de-sac. Wilhardt Street (presently located southeast of North Spring Street) will be extended northwesterly, across North Spring Street, to Baker Street. Other project elements include utility relocation and retaining wall construction as well as seismic, landscape and traffic signal enhancements.

This project will be constructed in two phases. The first phase (Phase I) will involve construction from Aurora Street (on the southwest) to the five point intersection (on the northeast). Phase II will involve construction of the Wilhardt Street extension.

The Levels of Service (LOS) of the following years (2015 and 2035) with and without the proposed project were calculated and are as follows:

Level of Service Analysis

	AM		PM	
	<u>Westbound</u>	<u>Eastbound</u>	<u>Westbound</u>	<u>Eastbound</u>
2015 No Project	LOS C	LOS A	LOS B	LOS D
2015 with Project	LOS C	LOS A	LOS B	LOS B
2035 No Project	LOS C	LOS A	LOS C	LOS D
2035 with Project	LOS C	LOS A	LOS C	LOS B