Hydrology Study

State of California Business, Transportation and Housing Agency

MEMORANDUM

To: Smita Deshpande
Chief, Environmental Planning Branch
Attn: Alison Army

Date: August 17, 2006
File: 12-Ora-74 KP 1.70/2.99
EA 12-086900
Lower 74 Widening

From: **DEPARTMENT OF TRANSPORTATION-12**

Subject: **Revised Hydrology Study for Environmental Assessment, Route 74**

As a part of hydrology study, we have conducted a field survey for Route 74 project from Calle Entradero (KP 1.70) to the City/County Line (KP 2.99). We have also reviewed the FEMA Map Nos. 06059C0444H(dated February, 2004), 06059C0465H(dated February, 2004), and the Hydrologic Summary of existing Lower San Juan Creek Bridge. Per these documents flood plain area of San Juan Creek within the project limits does not cross Route 74. Therefore, in our opinion flood plain analysis is not considered necessary.

Due to the proposed widening of Route 74, additional paved area will be created within the project limits:

LOCATION	ADDITIONAL PAVED AREA (ha)
KP 1.70 – KP 2.99(City of SJC)	1.13

Therefore, additional drainage systems consisting of new inlets (with bicycle proof grates as necessary) and pipes may be required. In addition, existing trapezoidal channel on the north side between Via Errecarte and Ave Siega may need to be replaced by a reinforced concrete box.

If you have any questions, please call me at ext. 2020 or Kirit Bhatt at ext. 2487 or Sunil Gupta at ext. 4980.

ROGER KAO, CHIEF
HYDRAULICS BRANCH