



# Memorandum

**TO:** HONORABLE MAYOR  
AND CITY COUNCIL

**FROM:** Katy Allen  
James R. Helmer

**SUBJECT:** SEE BELOW

**DATE:** 01-24-07

Approved

*Katy Allen*

Date

2/2/07

**COUNCIL DISTRICTS:** 3 & 6

**SUBJECT: AGREEMENTS WITH BIGGS CARDOSA ASSOCIATES, INC. AND LIM AND NASCIMENTO ENGINEERING CORPORATION FOR STRUCTURAL ENGINEERING CONSULTING SERVICES FOR THREE BRIDGE SEISMIC RETROFIT PROJECTS**

## **RECOMMENDATION**

- a. Approval of an agreement with Biggs Cardosa Associates, Inc. for structural engineering consulting services for the Julian Street Bridge at Coyote Creek Seismic Retrofit Project from the date of execution to December 31, 2008, for a total agreement amount not to exceed \$236,482.
- b. Approval of an agreement with Biggs Cardosa Associates, Inc. for structural engineering consulting services for the William Street Bridge at Coyote Creek Seismic Retrofit Project from the date of execution to December 31, 2008, for a total agreement amount not to exceed \$231,225.
- c. Approval of an agreement with Lim and Nascimento Engineering Corporation for structural engineering consulting services for the Southwest Expressway over Meridian Avenue Bridge Retrofit Project from the date of execution to August 31, 2008, for a total agreement amount not to exceed \$172,000.
- d. Adoption of a resolution authorizing the City Director of Public Works or the Director's designee to extend the term of the above agreements up to six months.

## **OUTCOME**

Approval of agreements with Biggs Cardosa Associates, Inc. and Lim and Nascimento Engineering Corporation for structural consultant services will enable the design of the Julian Street Bridge, the William Street Bridge and the Southwest Expressway Bridge Seismic Retrofit projects to begin.

## **EXECUTIVE SUMMARY**

The purpose of this memorandum is to (1) approve an agreement with Biggs Cardosa Associates, Inc. for structural engineering services for the Julian Street Bridge Seismic Retrofit Project and, (2) approve an agreement with Biggs Cardosa Associates, Inc. for structural engineering services for the William Street Bridge Seismic Retrofit Project and, (3) approve an agreement with Lim and Nascimento Engineering Corporation for structural engineering services for the Southwest Expressway Bridge Seismic Retrofit Project and, (4) recommend authorizing the City Director of Public Works or the Director's designee to extend the term of the above agreements up to six months.

## **BACKGROUND**

After the Loma Prieta earthquake in 1989, Caltrans reviewed all the bridges in the City of San José and rated each structure for seismic adequacy. The Julian Street Bridge and William Street Bridge at Coyote Creek, and the Southwest Expressway Bridge over Meridian Avenue have been identified as being deficient with respect to seismic resistance. These bridges are warranted for seismic retrofit to meet current Caltrans seismic design standards (maps attached). To fund the seismic retrofit projects, a federal grant has been approved through the Highway Bridge Replacement and Rehabilitation (HBRR) Program for each bridge. The grant will reimburse up to 88.53 percent of the project cost.

The existing City staff resources do not have the appropriate structural engineering expertise to develop plans and specifications for seismic bridge retrofit projects. Consultant services are required to provide structural engineering design for seismic retrofit of these three bridge projects.

The scope of services will include seismic retrofit type selection, preparation of the environmental documents, design development, preparation of construction documents, securing permits from other agencies, assistance during bidding and construction administration, and preparation and compiling of record documents.

## **ANALYSIS**

Staff from Departments of Public Works and Transportation conducted a consultant selection process in accordance with the Council-adopted Qualifications Based Consultant Selection (QBCS) Policy and the Local Business and Small Business Preference Ordinance. Three independent Requests for Qualifications (RFQ) for structural engineering services for the Julian Street Bridge, the William Street Bridge and the Southwest Expressway Bridge projects were advertised in September 2006. The City received Statement of Qualifications (SOQ) from 10 firms for the three projects. After the initial screening of the SOQ, six firms were invited to interview on November 16, 2006 by a panel consisting of representatives from DPW, DOT and

one non-City representative from VTA. The results of these interviews are summarized below in ranked order.

**Ranked List (as determined by the Interview Board):**

1	Biggs Cardosa Associates, Inc.
2	Lim & Nascimento Engineering Corporation
3	Nolte Associates, Inc.
4	T.Y. Lin International
5	Creegan + D'Angelo
6	Mark Thomas & Company, Inc.

In compliance with the QBCS policy, the consultants interviewed were rated on the basis of their qualifications relative to the projects and various other criteria including:

- Creativity in design approach;
- Project management approach;
- Time and budget management;
- Ability to work with regulatory agencies;
- Communication skill for community outreach;
- Performance record;
- Firm's Quality Control/Quality Assurance for construction documents.

In accordance with the San José Municipal Code Small and Local Business Policy, Biggs Cardosa Associate, Inc. (BCA) along with four other firms qualified as Local Business Enterprise, while all six consultants interviewed did not qualify as Small Business Enterprise. Furthermore, in accordance with the QBCS policy, staff successfully negotiated the agreement terms with the two top-ranked structural engineering firms, BCA and Lim and Nascimento Engineering Corporation (LAN Engineering). Staff is recommending the approval of these agreements with BCA and LAN Engineering. The remaining interviewed consultants have been notified of their rankings.

Since both the Julian Street Bridge and the William Street Bridge are along the same reach of Coyote Creek and both are very similar structure types, these two projects are expected to share similar seismic retrofit measures and environmental and hydraulic studies. Staff recommends BCA for the structural engineering services of both projects.

BCA, a California engineering corporation since 1986, has demonstrated during the consultant selection process to have the size, location, extensive experience, and to be creative in use of advanced techniques in the field of structural engineering to support the City of San José's structural consulting requirements. BCA will be using same subconsultants for both projects. One of BCA's four subconsultants, Parikh Consultants, Inc. is a certified Disadvantage Business Enterprise (DBE). The DBE dollar amount for each project is \$26,294.

LAN Engineering, a California engineering corporation since 1994, has demonstrated during the consultant selection process a sound understanding of the project requirements with a well thought out project approach. The LAN team has extensive experience on similar projects and direct experience with Caltrans on Federally funded projects that will be an asset to the City. Two of LAN Engineering's three subconsultants, Parikh Consultants, Inc. and Espinosa Surveying are certified DBEs. The DBE dollar amount is \$28,955.

Public Works staff has met with the individual consultants to negotiate their compensation for each project. A detailed estimate has been prepared and submitted by the consultants in advance of the negotiations so staff can review in detail the consultants' cost proposal. Based on staff's evaluation of the detailed cost analysis, scope of the project, tasks involved in completing the project and coordination necessary with Caltrans, staff felt that the cost proposals are reasonable. Staff has also researched the costs for similar types of consultant services in the region, and they are similar to those proposed by these agreements.

In the event of unforeseen conditions, staff recommends that Council authorize the Director of Public Works or the Director's designee to extend the term of agreements with BCA and LAN Engineering up to six months in order to complete specific project work. Extension of the term of any agreement shall be accomplished only if no other changes are made to the agreement.

### **POLICY ALTERNATIVES**

Not applicable.

### **PUBLIC OUTREACH/INTEREST**

- Criteria 1:** Requires Council action on the use of public funds equal to \$1 million or greater; **(Required: Website Posting)**
- Criteria 2:** Adoption of a new or revised policy that may have implications for public health, safety, quality of life, or financial/economic vitality of the City. **(Required: E-mail and Website Posting)**
- Criteria 3:** Consideration of proposed changes to service delivery, programs, staffing that may have impacts to community services and have been identified by staff, Council or a Community group that requires special outreach. **(Required: E-mail, Website Posting, Community Meetings, Notice in appropriate newspapers)**

While none of these agreements meet the \$1 million threshold for Criteria 1, this memorandum will be posted on the City's website for the February 13, 2007 Council agenda. Further, the Request for Qualifications was published in the *San José Post Record* and the City's Internet Bid Line.

**COORDINATION**

This memorandum and agreements have been coordinated with the Departments of Finance, Planning, Building and Code Enforcement, the City Attorney's Office and the City Manager's Budget Office.

**FISCAL/POLICY ALIGNMENT**

These projects are consistent with the Council-approved Budget Strategy to continue with capital investments that spur construction spending in our local economy.

**COST SUMMARY/IMPLICATIONS**

- 1 AMOUNT OF RECOMENDATION: (a.) \$236,482  
(b.) \$231,225  
(c.) \$172,000
  
- 2a. COST ELEMENTS OF AGREEMENT WITH BCA:

Phase 1 – Preliminary Engineering	\$109,900
Phase 2 – Final Design	86,582
Phase 3 – Construction Support Services	15,000
Additional Services	25,000
<b>(a.)TOTAL AGREEMENT AMOUNT:</b>	<b>\$236,482</b>
  
- 2b. COST ELEMENTS OF AGREEMENT WITH BCA:

Phase 1 – Preliminary Engineering	\$111,000
Phase 2 – Final Design	80,225
Phase 3 – Construction Support Services	15,000
Additional Services	25,000
<b>(b.)TOTAL AGREEMENT AMOUNT:</b>	<b>\$231,225</b>
  
- 2c. COST ELEMENTS OF AGREEMENT WITH LAN:

Phase 1 – Preliminary Engineering	\$57,500
Phase 2 – Final Design	80,500
Phase 3 – Construction Support Services	13,583
Additional Services	20,417
<b>(c.)TOTAL AGREEMENT AMOUNT:</b>	<b>\$172,000</b>
  
3. SOURCE OF FUNDING: 429 Building and Structure Construction Tax Fund
  
4. OPERATING COSTS: The proposed operating and maintenance costs of these projects have been reviewed and it has been determined that the projects will have no significant adverse impact on the General Fund operating budget.

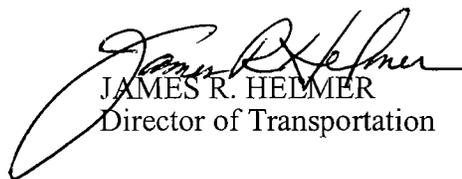
**BUDGET REFERENCE**

Fund #	Appn #	Appn. Name	RC #	Total Appn.	Amt. for Agreement	2006-2007 Adopted Budget Page	Last Budget Action (Date, Ord.No.)
<b>(a.) Current Funding Available</b>							
429	5059	Seismic Bridge Retrofit – Julian Street	138973	\$320,000	\$236,482	V-1137	10/17/06, Ord. No. 27888
<b>(a.) Total Current Funding Available</b>				<b>\$320,000</b>	<b>\$236,482</b>		
<b>(a.) Prior Year's Expenditures</b>				\$8,707			
<b>(b.) Current Funding Available</b>							
429	5061	Seismic Bridge Retrofit – William Street	138963	\$249,000	\$231,225	V-1139	10/17/06, Ord. No. 27888
<b>(b.) Total Current Funding Available</b>				<b>\$249,000</b>	<b>\$231,225</b>		
<b>(b.) Prior Year's Expenditures</b>				\$7,005			
<b>(c.) Current Funding Available</b>							
429	5060	Seismic Bridge Retrofit – Southwest Expressway	138983	\$241,000	\$172,000	V-1138	10/17/06, Ord. No. 27888
<b>(c.) Total Current Funding Available</b>				<b>\$241,000</b>	<b>\$172,000</b>		
<b>(c.) Prior Year's Expenditures</b>				\$8,042			

**CEQA**

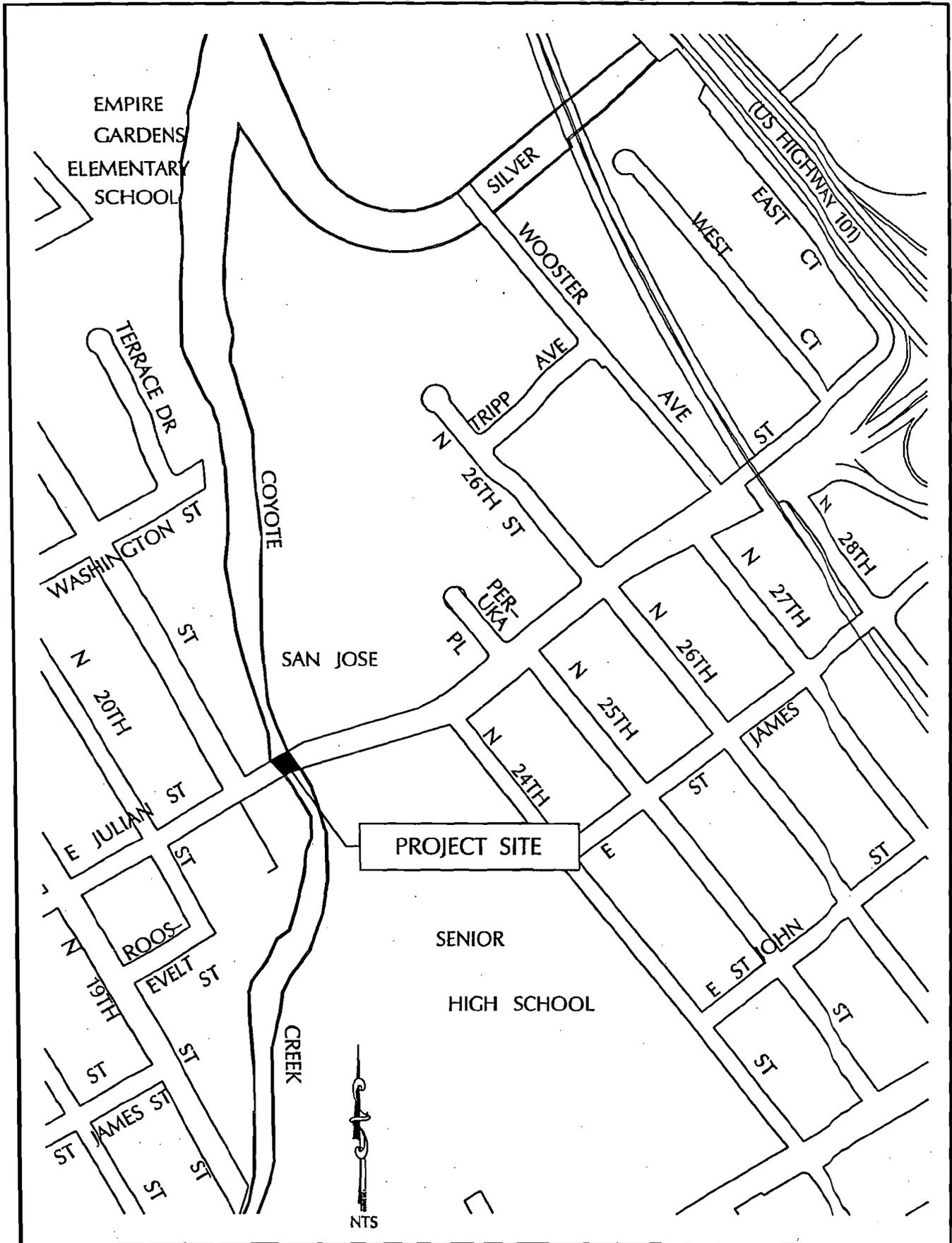
CEQA: Not a project.

  
KATY ALLEN  
Director, Public Works Department

  
JAMES R. HELMER  
Director of Transportation

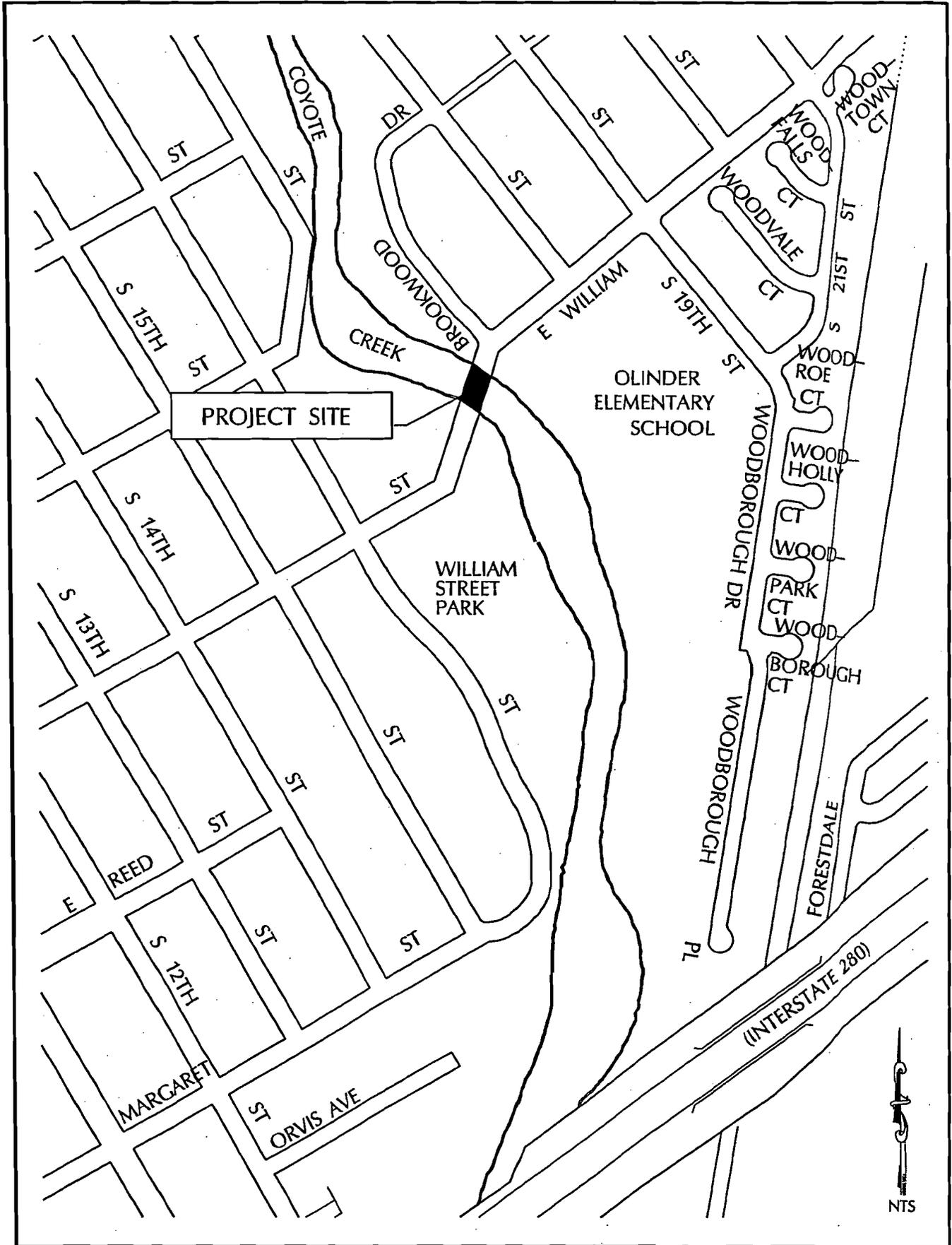
For questions please contact TIMM BORDEN, DEPUTY DIRECTOR, PUBLIC WORKS DEPARTMENT, at 408-535-8300.

# JULIAN STREET BRIDGE OVER COYOTE CREEK BRIDGE NO. 37C0701



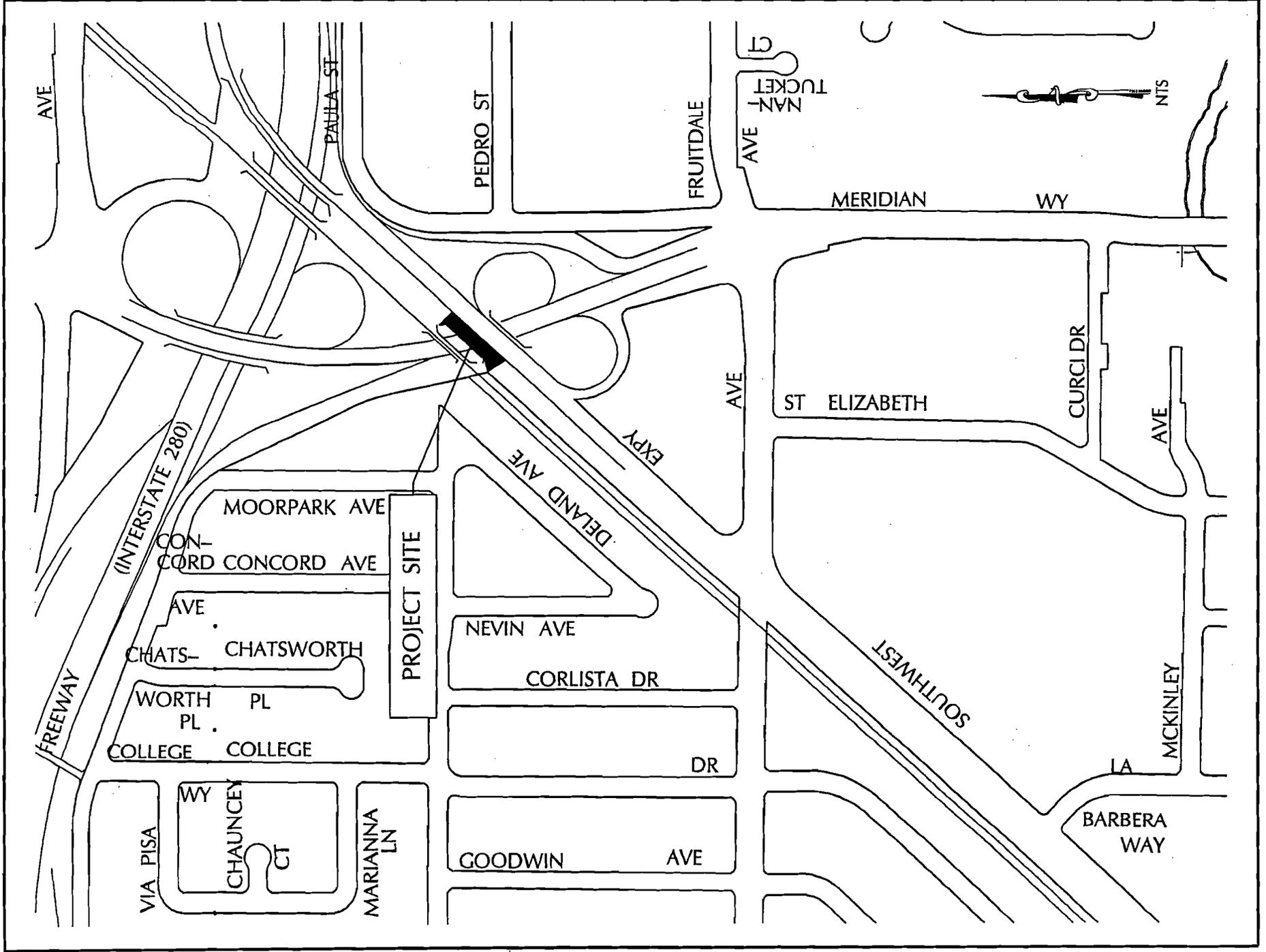
LOCATION MAP

# WILLIAM STREET BRIDGE OVER COYOTE CREEK BRIDGE NO. 37C0732



LOCATION MAP

SOUTHWEST EXPY. BRIDGE OVER MERIDIAN AVENUE  
BRIDGE NO. 37C0052L



LOCATION MAP