REPORT TO COUNCIL
City of Sacramento

915 I Street, Sacramento, CA 95814-2604
www. CityofSacramento.org

CONSENT
June 12, 2007

Honorable Mayor and
Members of the City Council

Title: Agreement: Norwood Avenue Bridge Replacement Project (PN: RR41)

Location/Council District: The Norwood Avenue Bridge Replacement Project is located on Norwood Avenue over Arcade Creek, south of Fairbanks Avenue. Location Map – Exhibit A of Resolution. (District 2)

Recommendation: Adopt a **Resolution** authorizing the City Manager to execute a Professional Services Agreement with T.Y. Lin International (T.Y. Lin) for an amount not to exceed $943,766 for the Norwood Avenue Bridge Replacement Project.

Contact: Ryan Moore, Senior Engineer, 808-8279; Tim Mar, Supervising Engineer, 808-7531.

Presenters: None

Department: Transportation

Division: Engineering Services

Organization No: 3435

Description/Analysis

Issue: The Norwood Avenue Bridge over Arcade Creek is the highest ranked feasible bridge replacement project within the City of Sacramento. The bridge is near the end of its useful life and the Department of Transportation is initiating a project to replace it at this time.

Policy Considerations: The action requested is consistent with the City's Strategic Plan goals of improving public safety and enhancing livability.

Environmental Considerations: The requested action is not subject to the provisions of the California Environmental Quality Act (CEQA) under its general rule (Section 15061(b)(3)). The project will undergo CEQA and National Environmental Policy Act (NEPA) documentation as part of this professional services agreement.

Rationale for Recommendation: The Department of Transportation advertised a Request for Proposals for the project. T. Y. Lin emerged as the top ranked firm.

Financial Considerations: The project has a budget of $996,669 and an unobligated balance of $990,266. This amount includes $766,669 provided by the Federal Highway Administration (FHWA) Highway Bridge Program (HBP) Program. The unobligated balance of $990,266 is sufficient to execute the consultant contract for $943,766.

Emerging Small Business Development (ESBD): This project is federally funded. Disadvantaged Business Enterprise (DBE) project participation requirements apply and Emerging and Small Business Enterprise (E/SBE) rules are held in abeyance. The City assigned a 25% DBE Availability Advisory to this project. T.Y. Lin has pledged 19% participation. As per the revised DBE rules enacted May 1 2006, 25% participation is not required.

Respectfully Submitted by: _____
Nicholas Theocharides
Engineering Services Manager

Approved by: _____
Jerry Way
Director of Transportation

Recommendation Approved:

_____
RAY KERRIDGE
for City Manager

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Attachment 1

Background Information:

The City of Sacramento Department of Transportation (DOT) was notified by Caltrans that during a recent inspection, the Norwood Avenue Bridge structure over Arcade Creek was determined to have an unacceptable vulnerability to flood damage via undermining of the foundations during extraordinarily high flows (a phenomenon known as "scour"). Caltrans stated that the City needed to take corrective measures immediately.

The existing structure was opened in 1956. It is a two lane structure with sidewalks, but no bike lanes. Norwood Avenue is on both the Pedestrian Master Plan, and the Bikeway Master Plan. The bridge deck elevation is approximately 3' to 4' lower than the levee top on Arcade Creek. Consequently, the structure has "stop-log" features at the levee crossings which are used to close the bridge during extreme flows in Arcade Creek.

Upon investigation of the situation, the DOT noted that the structure was eligible for federal funding for rehabilitation and/or replacement work. It was also noted that the bridge is currently ranked #5 in the Transportation Programming Guide. Additional factors affecting the decision to pursue a project include the fact that the 50 year old bridge is too close to the end of its useful life to correct the geometric and structural issues with the structure in an economical manner. The fact that Norwood Avenue is identified on both the City Bicycle Master Plan and the Pedestrian Master Plan were also considered. The determination was made that the general condition of the structure coupled with the availability of federal funding make this project a logical choice for replacement at this time.

A request for proposals for professional services was advertised on the City website on September 27, 2006. A pre-proposal meeting was held on October 10, 2006. Ten proposals were received from the following firms:

- CH2M Hill
- David Evans & Associates
- Dokken Engineering
- LAN Engineering
- MGE Engineers
- Nolte Associates
- Quincy Engineering
- RBF Consulting
- TRC
- T.Y. Lin International

A consultant selection panel was formed with one member from Neighborhood Services, one member from Caltrans, and two members from the Department of

Transportation. The consultant selection panel created a short list of three firms to invite to an interview. The short listed firms were:

- LAN Engineering
- Quincy Engineering
- T.Y. Lin International

At the conclusion of the interviews, it was the unanimous decision of the panel to recommend that staff engage T.Y. Lin International in contract negotiations for professional services. T.Y. Lin International will perform preliminary engineering, coordinate the project with Caltrans, perform public outreach, prepare an environmental document, and prepare the final design and construction documents.

The likely replacement structure will provide two vehicular lanes, bike lanes in both directions, and sidewalks. All features will be designed in accordance with the City of Sacramento's Pedestrian Friendly Street standards. The new bridge will have a higher bridge deck to eliminate the potential for overtopping during high flows in Arcade Creek, thereby eliminating the need for stop-log flood structures.

The bridge structures with higher TPG rankings are Jiboom Street Bridge at the Railyard, Roseville Road Bridge over Arcade Creek, El Camino Avenue at NEMDC, and H Street over the American River. The Norwood project will proceed despite its 5th place ranking for the following reasons:

- It is anticipated that the Jiboom Street structure will be dealt with as part of a larger strategic plan associated with the Railyards, and therefore it will not be pursued at this time.
- The general condition of the Roseville Road Bridge is similar to Norwood Avenue and DOT staff is currently evaluating this structure for replacement. Norwood Avenue will precede it due to the scour problems identified by Caltrans.
- El Camino Avenue over the NEMDC is currently in final engineering design as a federally funded replacement project.
- H Street over the American River has no structural problems, only geometric problems associated with bridge width. Its status as a historic structure with no safety problems makes it an unlikely candidate for replacement at this time.

DOT tentatively expects to spend the remainder of 2007 and most of 2008 working on preliminary engineering and the environmental process. Final design should take place in 2009, and the construction phase should occur from 2010 to 2011.

Attachment 2

RESOLUTION NO.

Adopted by the Sacramento City Council

APPROVING A PROFESSIONAL SERVICES AGREEMENT WITH T.Y.LIN INTERNATIONAL TO PROVIDE CONSULTANT SERVICES FOR ENGINEERING DESIGN OF THE NORWOOD AVENUE BRIDGE REPLACEMENT PROJECT (PN: RR41)

BACKGROUND

A. The Norwood Avenue Bridge Replacement Project is on Norwood Avenue over Arcade Creek, south of Fairbanks Avenue.

B. Due to the generally poor condition of the bridge structure, the high ranking within the Transportation Programming Guide, and the availability of Federal Funding, the Department of Transportation is moving forward with a replacement project at this time.

C. Based on the quality of proposals submitted by consultants and the results of interviews with top ranked firms, T.Y. Lin International has been selected to provide professional services for this project.

BASED ON THE FACTS SET FORTH IN THE BACKGROUND, THE CITY COUNCIL RESOLVES AS FOLLOWS:

Section 1. The City Manager is authorized to execute a Professional Services Agreement with T.Y. Lin International (T.Y. Lin) for an amount not to exceed $943,766 for the Norwood Avenue Bridge Replacement Project.

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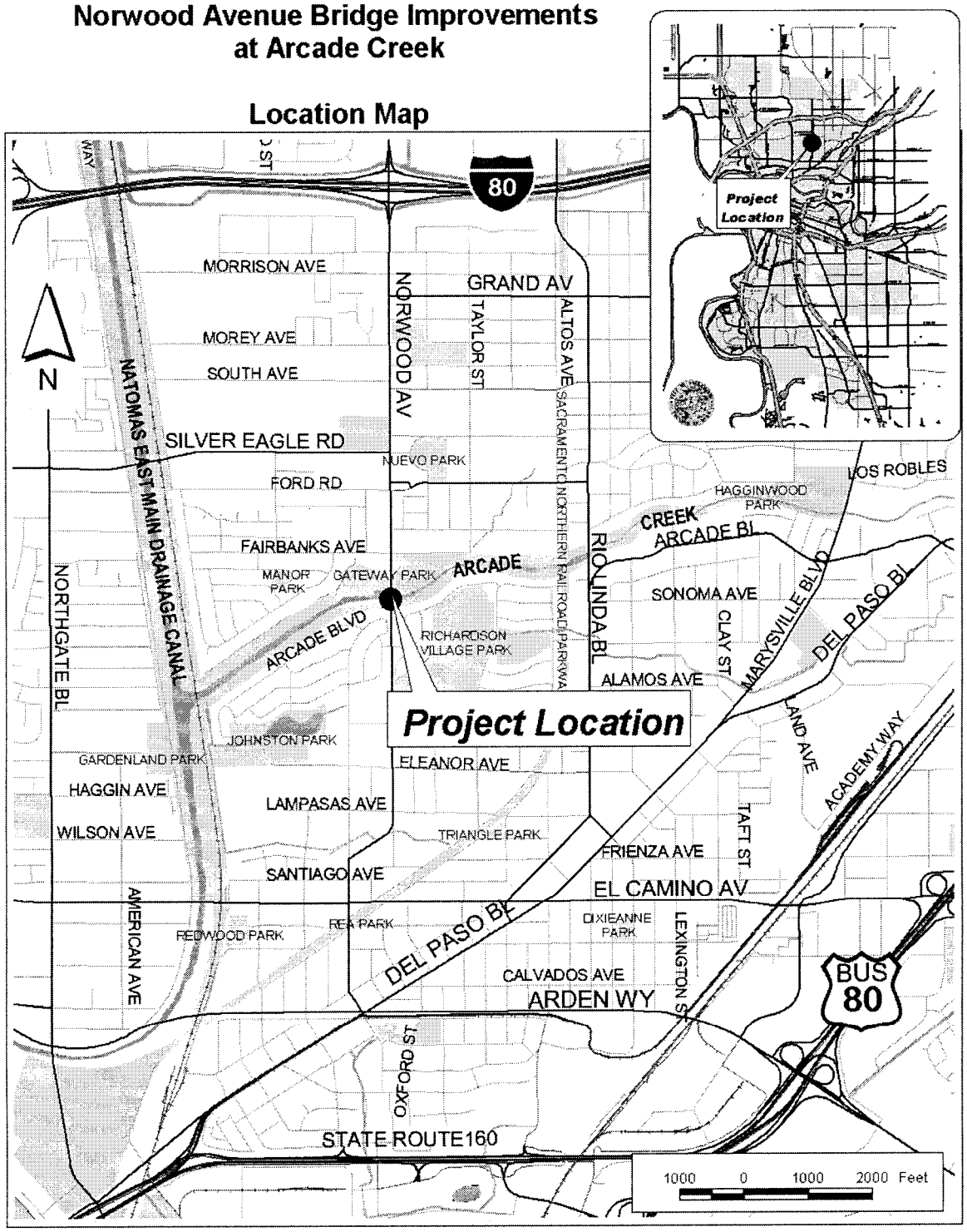
Exhibit A: Map of the Norwood Avenue Bridge Replacement Project (PN: RR41) – 1 page

Norwood Avenue Bridge Improvements at Arcade Creek

Location Map