

**MOORPARK CITY COUNCIL
AGENDA REPORT**

TO: Honorable City Council

FROM: Yugal K. Lall, City Engineer/Public Works Director 

DATE: December 13, 2006 (CC Meeting of 12-20-06)

SUBJECT: Authorize the City Manager to Amend Consultant Agreement with Pavement Engineering Inc. for the Preparation of Plans, Specifications and Cost Estimates (PS & E) for Tierra Rejada Road Asphalt Concrete Overlay (Project 8011)

BACKGROUND

The pavement condition on Tierra Rejada Road is deteriorating rapidly, and the City is conducting, on a weekly basis, maintenance of the recurring potholes. Tierra Rejada Road is in urgent need of rehabilitation and requires construction of an Asphalt Overlay. On June 21, 2006 the City Council adopted Resolution No 2006-2487 wherein \$100,000 was appropriated for design related work for Tierra Rejada Road AC Overlay (Project 8011).

DISCUSSION

Pavement Engineering Inc. was retained at a cost of \$24,890. and has completed the pavement analysis for Tierra Rejada Road from State Route 23 to Los Angeles Avenue. The consultant has completed the pavement analysis and staff has concurred with their recommendation, (a copy of this report has been provided to the City Council under separate cover). This recommendation would entail cold milling 2.5 inches of the existing pavement, removing and replacing areas of base failures with up to 4 inches of asphalt concrete, and placing a leveling course and 2.5 inches of Asphalt Rubberized Hot Mix (ARHM) asphalt concrete surface overlay. Additionally, the traffic signal loops and pavement marking will be replaced. The ARHM is recommended over conventional asphalt for the following reasons:

- It reduces traffic noise by 4 to 10 decibel and by up to 85% in some cases;
- It reduces the overall pavement thickness design;
- It has a long term performance history over 30 years;
- It is very environmentally friendly using up to 1200 tires per lane mile;
- It uses less aggregate and paving asphalt as compared to conventional asphalt;
- It resists reflective cracking, shoving and rutting;
- It provides higher skid resistant; and
- It provides excellent color contrast retaining the black color.

However, the initial cost of ARHM is higher, costing up to \$20 more per ton than conventional asphalt. Based on using approximately 14,000 tons of ARHM, the initial additional cost is approximately \$280,000. The benefits of using ARHM outweigh the additional initial cost.

To proceed with this action staff will have to hire a consultant to prepare the plans, specifications and cost estimate.

Staff has received a proposal from Pavement Engineering for \$52,735 to prepare the plans, specifications and cost estimate for this project. To prevent further deterioration in the pavement and to proceed with this project, staff is requesting authorization from the City Council to authorize the City Manager to amend the agreement in the amount of \$52,735 with Pavement Engineering to prepare the subject documents.

Staff will also evaluate the feasibility of adding one or more additional bus turn outs on Tierra Rejada Road to be incorporated into this project design. If determined feasible such would be added to the design. The estimated design cost for this is approximately \$17,000.

A. Fiscal Impact

1. **Cost Estimate:** A preliminary estimate of project costs is as follows:

<u>Element</u>	<u>Amount (\$)</u>
Design	95,000
Construction	3,000,000
Constr Contingency (10%)	300,000
Inspection	<u>90,000</u>
Total	3,485,000

2. **Budget:** The FY 2006/07 Budget, Resolution 2006-2487 currently provides funds for the design phase of the project (Project 8011) in the amount of \$100,000, from the TDA Article 8 Fund (Fund 2603) (Local Transportation Fund [LTF]).

3. **Funding Source:** It is the intent of staff to return to City Council after the completion of design for approval of funding from various sources including state and federal grants for the construction phase of this project. A grant of up to \$2 per ton of ARHM may also be available from the California Integrated Waste Management Board for using recycled tires.

B. Schedule

The design is scheduled to be completed by February 2007 and will be presented to the City Council in March for authorization for solicitation. Construction is scheduled to commence in July 2007.

STAFF RECOMMENDATION

Authorize the City Manager to amend the consultant contract with Pavement Engineering for \$70,000 to prepare plans, specifications and cost estimate for Tierra Rejada Road AC Overlay.