



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: January 29, 2008
TO: Mayor and Councilmembers
FROM: Engineering Division, Public Works Department
SUBJECT: Contract For Design For Airport Water Distribution System Upgrade

RECOMMENDATION:

That Council authorize the Public Works Director to execute a contract with Penfield & Smith in the amount of \$50,760 for design services for the Airport Water Distribution System Upgrade Project, and approve expenditures of up to \$5,000 for extra services that may result from necessary changes in the scope of work.

DISCUSSION:

PROJECT DESCRIPTION

Water distribution systems typically involve a series of pipelines that are networked together to provide a "looped" system. This type of network system allows for any particular point within the network to be fed from multiple sources. This improves fire hydrant flows and increases service reliability.

The southern area of the Airport's water distribution system is served by a single 7,000 foot long, eight-inch diameter pipeline. The single feed configuration seriously limits service reliability and does not optimize fire hydrant flows. The Airport is planning to construct a new Terminal facility and wants to improve fire flows in the area and increase system reliability. The proposed project (see Attachment) involves construction of a new pipeline that will provide a second feed and "loop" the water distribution system in the Terminal area. The estimated total project cost is approximately \$1,570,000.

DESIGN PHASE CONSULTANT ENGINEERING SERVICES

Staff recommends that Council authorize the Public Works Director to execute a contract with Penfield and Smith in the amount of \$50,760 for preliminary design of improvements to the Airport's water distribution system. The work will carry through the Schematic Design and Design Development phases and include the following work:

REVIEWED BY: _____ Finance _____ Attorney

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1. Review all pertinent documentation of the existing distribution system, including agreements with the Goleta Water District, Goleta Sanitary District, County Parks Department, engineering reports, and plans.
2. Field verification of existing conditions in the project area.
3. Obtain and verify new Terminal facility water demand and fire flow requirements.
4. Prepare an engineering analysis of the existing system and model the system using options for looping the southern service area.
5. Prepare for and attend meetings with stakeholders.
6. Provide a letter report summarizing the analysis and including project alternatives, a recommended alternative, and cost estimates for each alternative.
7. Prepare design development level plans for the project, including existing topography, location, size, and materials for the approved alternative. Prepare Storm Water Pollution Prevention Plan documentation for the proposed work.
8. Provide support related to project permitting. The project will require a City of Santa Barbara Coastal Development Permit.

Once the Coastal Development Permit has been secured, Staff will return to Council for approval of a contract with Penfield and Smith for final design (construction documents). Penfield and Smith is one of the participants in the City's Three-year Prequalified Engineering Services Program and is experienced in this type of work.

FUNDING

ESTIMATED TOTAL PROJECT COST

Design (by contract)	\$150,000
Other Design Costs (City Staff, Environmental Assessment, etc.)	\$20,000
Construction Cost Estimate w/Change Order Allowance	\$1,250,000
Construction Management/Inspection	\$150,000
TOTAL	\$1,570,000

There are sufficient funds in the Airport Capital Fund to cover the cost of this design services contract. Staff is still investigating various options for funding the balance of the project.

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ATTACHMENT(S): Vicinity Map – Airport Water System Upgrade

PREPARED BY: Owen Thomas, Principal Engineer/OT/sk

SUBMITTED BY: Paul Casey, Acting Public Works Director

APPROVED BY: City Administrator's Office



Vicinity Map – Airport Water System Upgrade