



- Board of Directors
Engineering and Operations Committee

11/5/2012 Board Meeting

7-6

Subject

Appropriate \$260,000; and authorize final design to relocate a portion of the Orange County Feeder (Approp. 15441)

Executive Summary

This action authorizes final design to relocate 1,100 feet of the Orange County Feeder within the city of Fullerton. This project will protect Metropolitan's assets and minimize potential conflicts with the city of Fullerton's planned street improvement project.

Timing and Urgency

The city of Fullerton is planning a major street improvement project which will lower Raymond Avenue beneath the existing Burlington Northern Santa Fe (BNSF) railroad tracks to improve safety, reduce traffic delays, and minimize disruption to rail operations. Metropolitan's Orange County Feeder lies within the public right-of-way along Raymond Avenue. Since prior rights are held by the city of Fullerton, Metropolitan is required to relocate any portion of pipeline that would be impacted as a result of the street improvements. The relocation of approximately 1,100 feet of pipeline is necessary to accommodate the improvement project. To minimize delays and potential conflicts with the new construction and with other utilities, staff recommends that Metropolitan proceed with final design of the pipeline relocation at this time.

This project has been reviewed with Metropolitan's Capital Investment Plan (CIP) prioritization criteria, and is categorized as an Infrastructure Rehabilitation and Replacement project. Funds for this action are available within Metropolitan's capital expenditure plan for fiscal year 2012/13.

Details

Background

The Orange County Feeder is a 41-mile-long pipeline which has reaches of welded steel pipe, precast concrete pipe, and prestressed concrete cylinder pipe. Its diameter varies from 33 to 42 inches. The Orange County Feeder conveys treated water from Metropolitan's F. E. Weymouth Water Treatment Plant through primarily urban areas to its terminus at service connection CM-1 in the city of Newport Beach. The Orange County Feeder serves the cities of Fullerton, Anaheim, and Santa Ana; the Three Valleys Municipal Water District; and the Municipal Water District of Orange County.

The city of Fullerton is proceeding with the Raymond Avenue Grade Separation project, which will lower Raymond Avenue between Santa Fe and Ash Avenues as an underpass beneath the existing BNSF railroad tracks. The project will improve safety, reduce traffic delays, and minimize disruption to rail operations as a result of increased rail traffic from the Ports of Los Angeles and Long Beach. The city of Fullerton is currently acquiring right-of-way for utility relocations. Other utilities that will require relocation due to the project include telephone, electrical, gas, cable, water, sanitary sewer, and storm drain lines. Construction is scheduled to commence in October 2013.

Approximately 1,100 feet of the Orange County Feeder are located within the public right-of-way along Raymond Avenue where the underpass will be constructed. The Orange County Feeder was originally placed within the pre-existing road pursuant to Section 142 of Metropolitan's Act. State law holds Metropolitan responsible for the cost of protecting or relocating the pipeline to make way for reasonable street improvements by the city of Fullerton. Since the street was first in time, the cost of the feeder relocation must be borne by Metropolitan.

In April 2012, Metropolitan's Board authorized preliminary design to relocate the feeder, and an agreement with Fullerton for the city's contractor to install the new pipeline. Preliminary design has now been completed, and staff recommends proceeding with final design to complete the work expeditiously and minimize the risk of costly delays.

Orange County Feeder Relocation – Final Design Phase (\$260,000)

This project will relocate approximately 1,100 feet of a 37-inch-diameter portion of the Orange County Feeder, including air release valves, vacuum valves, and manholes. Planned activities include engineering design, preparation of drawings and specifications, right-of-way/easement coordination with Fullerton and with the other relocated utilities, and development of a construction cost estimate. All work will be performed by Metropolitan staff.

This action appropriates \$260,000 and authorizes final design phase activities for relocation of a portion of the Orange County Feeder. Requested funds include \$189,000 for final design; and \$71,000 for right-of-way activities, development of an engineer's estimate, and project management. The final design cost as a percentage of the estimated construction cost is approximately 12 percent. Engineering Service's goal for design of projects with construction cost less than \$3 million is 9 to 15 percent.

Staff will return to the Board to request authorization for construction of the relocation following the receipt of bids. The construction cost to relocate the pipeline is anticipated to range from \$1.4 million to \$1.6 million.

This project has been evaluated and recommended by Metropolitan's CIP Evaluation Team, and funds are available within the fiscal year 2012/13 capital expenditure plan. See [Attachment 1](#) for the Financial Statement and [Attachment 2](#) for the Location Map.

The work will be performed under the Conveyance and Distribution System Rehabilitation Program - FY 2006/07 Through 2011/12 (Appropriation No. 15441), which was initiated in fiscal year 2006/07. Other projects authorized under Appropriation No. 15441 include the Box Springs Feeder Repairs and the West Valley Feeder Valve Structure Modifications. The total appropriated amount for this program will increase from \$40,749,000 to \$41,009,000.

Project Milestone

May 2013 – Completion of final design of the Orange County Feeder relocation

Policy

Metropolitan Water District Administrative Code Section 5108: Appropriations

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action consists of funding, preliminary design, and contractual arrangements for the Orange County Feeder Relocation Project, and is therefore categorically exempt under the provisions of CEQA and the State CEQA Guidelines. The proposed action consists of basic data collection and resource evaluation activities, which do not result in a serious or major disturbance to an environmental resource. This may be strictly for information gathering purposes, or as part of a study leading to an action which a public agency has not yet approved, adopted, or funded. Accordingly, the proposed action qualifies as a Class 6 Categorical Exemption (Section 15306 of the State CEQA Guidelines). In addition, part of the proposed action, funding and contractual matters, is not subject to CEQA because it involves other government fiscal activities, which do not involve any commitment to any

specific project which may result in a potentially significant physical impact on the environment (Section 15378(b)(4) of the State CEQA Guidelines).

The CEQA determination is: Determine that pursuant to CEQA, the proposed action qualifies under a Categorical Exemption (Class 6, Section 15306 of the State CEQA Guidelines) and 15378(b)(4) of the State CEQA Guidelines.

CEQA determination for Option #2:

None required

Board Options

Option #1

Adopt the CEQA determination and

- a. Appropriate \$260,000; and
- b. Authorize final design to relocate a portion of the Orange County Feeder.

Fiscal Impact: \$260,000 in capital funds under Approp. 15441

Business Analysis: This option will protect Metropolitan's assets and allow Fullerton to perform the pipeline relocation as part of its street improvement project, thus minimizing potential conflicts with the new construction and with other utilities.

Option #2

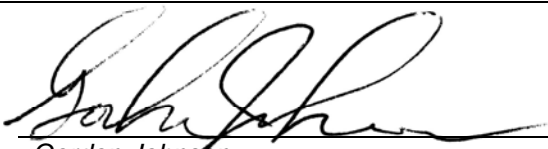

Do not proceed with final design to relocate the Orange County Feeder via the city of Fullerton's construction contract.

Fiscal Impact: Unknown

Business Analysis: Under this option, Metropolitan would relocate a portion of the Orange County Feeder with a stand-alone contract. This approach could lead to increased costs and increased risk of interferences and delays between multiple contractors working in the same area.

Staff Recommendation

Option #1

| | |
|--|------------|
|  | 10/22/2012 |
| Gordon Johnson Manager/Chief Engineer Engineering Services | Date |
|  | 10/23/2012 |
| Jeffrey Lightlinger General Manager | Date |

[Attachment 1 – Financial Statement](#)

[Attachment 2 – Location Map](#)

Financial Statement for Conveyance and Distribution System Rehabilitation Program - FY 2006/07 Through FY 2011/12

A breakdown of Board Action No. 47 for Appropriation No. 15441 for relocation of a portion of the Orange County Feeder¹ is as follows:

| | Previous Total Appropriated Amount (Nov. 2012) | Current Board Action No. 47 (Nov. 2012) | New Total Appropriated Amount |
|---|---|--|--|
| Labor | | | |
| Studies & Investigations | \$ 2,696,000 | \$ - | \$ 2,696,000 |
| Final Design | 3,098,293 | 189,000 | 3,287,293 |
| Owner Costs (Program mgmt., permitting) | 4,776,400 | 67,000 | 4,843,400 |
| Submittals Review & Record Drwgs | 233,250 | - | 233,250 |
| Construction Inspection & Support | 1,929,550 | - | 1,929,550 |
| Metropolitan Force Construction | 8,783,710 | - | 8,783,710 |
| Materials & Supplies | 2,296,400 | - | 2,296,400 |
| Incidental Expenses | 872,900 | 4,000 | 876,900 |
| Professional/Technical Services | 2,002,000 | - | 2,002,000 |
| Equipment Use | 325,200 | - | 325,200 |
| Contracts | 11,657,944 | - | 11,657,944 |
| Remaining Budget | 2,077,353 | - | 2,077,353 |
| Total | \$ 40,749,000 | \$ 260,000 | \$ 41,009,000 |

Funding Request

| | | | |
|-----------------------------------|---|----------------------------------|------------------------------|
| Program Name: | Conveyance and Distribution System Rehabilitation Program - FY 2006/07 Through FY 2011/12 | | |
| Source of Funds: | Revenue Bonds, Replacement and Refurbishment or General Funds | | |
| Appropriation No.: | 15441 | Board Action No.: | 47 |
| Requested Amount: | \$ 260,000 | Capital Program No.: | 15441-I |
| Total Appropriated Amount: | \$ 41,009,000 | Capital Program Page No.: | 284 |
| Total Program Estimate: | \$ 114,849,000 | Program Goal: | I-Infrastructure Reliability |

¹ The total amount expended to date on the Orange County Feeder Relocation project is approximately \$120,000.

Orange County Feeder

