

ENGINEERING AND OPERATIONS COMMITTEE

AGENDA FOR

OCTOBER 28, 2010

Gary Arant – Chair
Richard Smith, Vice Chair
Jim Bowersox
Trish Hannan
Mike Hogan
Jeremy Jungreis

Bill Knutson
Ralph McIntosh
Ron Morrison
Vincent Mudd
Bud Pocklington
Javier Saunders
Tom Wornham

1. Roll call – Determination of quorum.
2. Additions to agenda (Government Code Section 54954.2(b)).
3. Public comment – opportunities for members of the public to address the Committee on matters within the Committee’s jurisdiction.
4. Chair’s report.
4-A Directors’ comments.

I. CONSENT CALENDAR

1. Notice of Completion for the Mission Trails Pipeline Tunnel project. Mike Kenny
Staff recommendation: Authorize the General Manager to accept the Mission Trails Pipeline Tunnel project as complete, record the Notice of Completion, and release funds held in retention to L.H. Woods and Sons, Inc. following the expiration of the Notice of Completion period. (Action)

II. ACTION/DISCUSSION

III. INFORMATION

1. Presentation on Emergency Response Program. Gary Eaton/
Ken Weinberg



IV. CLOSED SESSION

1. CLOSED SESSION:
Conference with Legal Counsel – Potential Litigation
Government Code §54956.9(b) – San Vicente Pipeline Mortar
Lining Claim

Dan Hentschke

V. ADJOURNMENT

Doria F. Lore
Clerk of the Board

NOTE: This meeting is called as an Engineering & Operations Committee meeting. Because a quorum of the Board may be present, the meeting is also noticed as a Board meeting. Members of the Board who are not members of the Committee may participate in the meeting pursuant to Section 2.00.060(g) of the Authority Administrative Code (Recodified). All items on the agenda, including information items, may be deliberated and become subject to action. All public documents provided to the committee or Board for this meeting including materials related to an item on this agenda and submitted to the Board of Directors within 72 hours prior to this meeting may be reviewed at the San Diego County Water Authority headquarters located at 4677 Overland Avenue, San Diego, CA 92123 at the reception desk during normal business hours.

October 20, 2010

Attention: Engineering & Operations Committee

Notice of Completion for the Mission Trails Pipeline Tunnel project. (Action)

Staff recommendation

Authorize the General Manager to accept the Mission Trails Pipeline Tunnel project as complete, record the Notice of Completion, and release funds held in retention to L.H Woods and Sons, Inc. following the expiration of the Notice of Completion period.

Alternative

Do not accept the project as complete and provide direction to staff relative to issues requiring resolution.

Fiscal Impact

There are sufficient funds in the Mission Trails Pipeline Tunnel project budget and the approved fiscal year 2010 and 2011 Capital Improvement Program appropriation to support this action. The rate category for this project is transportation.

Background

The Mission Trails Pipeline Tunnel was identified in the Water Authority's Regional Water Facilities Master Plan along with Flow Regulatory Structure II, and the Lake Murray Control Valve to increase the capacity of the untreated water delivery system in central and south San Diego through 2030. The Mission Trails Pipeline Tunnel scope includes the installation of a new 92-inch diameter pipeline placed within a tunnel that runs at a lower elevation than the existing pipeline. Construction of the Mission Trails Pipeline Tunnel will relieve a "hydraulic bottleneck" in the system by combining the existing Pipelines 3 and 4 into a single pipeline to transmit untreated water through the proposed Flow Regulatory Structure II.

As a result of the CIP re-prioritization, approved by the Board in January 2009, construction of Flow Regulatory Structure II and Lake Murray Control Valve projects were delayed. The Flow Regulatory Structure II construction is now scheduled to start in 2011, and the Lake Murray Control Valve in 2012, after which the system will be complete and ready for use.

Previous Board action: On September 28, 2008, the board awarded a construction contract to L.H. Woods and Sons, Inc., in the amount of \$28,975,866 for the Mission Trails Pipeline Tunnel project.

Discussion

Mission Trails Pipeline Tunnel project included construction of 4,520 lineal feet of 92-inch diameter pipe in two separate tunnels and two shafts totaling approximately 213 lineal feet. After construction, L.H. Woods and Sons, Inc. performed testing to confirm that the pipeline construction and installation met the contract requirements. Mission Trails Pipeline Tunnel is substantially complete and ready for acceptance.

Since the Board's last action in September 2008, we processed eight change orders under staff's authority. A full listing of these contract modifications is attached as Table 1.

Modifications

We executed seven modifications at a cost of \$48,601 and one modification for a credit of \$6,850, resulting in a total cost of \$41,751. The most significant item was to modify the contractor's approved haul route due to Caltrans closure of the State Route 52 ramps. This resulted in a longer haul route for the contractor. The credit was for modifying welding methods, which maintained the same quality, but required less contractor labor.

Community Accommodation

We executed two modifications at a cost of \$45,848. The majority of this cost was for building a shade structure and a picnic table in the park as required by the Good Neighbor Policy Agreement between the Water Authority and Mission Trails Regional Park, approved by the Board in 2006. This facility was originally planned as part of Flow Regulatory Structure II project. However, since construction for Flow Regulatory Structure II was delayed, it was agreed to provide this community accommodation as part of this project.

Errors

We executed one item at a cost of \$1,840. This item was for a design discrepancy between the Outlet Tunnel geometry and the coordinates shown on the plans that required resurvey of portions of the Outlet Shaft and South Portal areas.

Differing Site Condition

We executed four items at a cost of \$52,135. The most significant increase item was to remove a larger than anticipated abandoned roadbed foundation to allow success of the riparian re-vegetation and comply with the project environmental permits.

Administrative

We executed five items for a total credit of \$360,113 and include reimbursements for in-plant inspection of piping and valves prior to shipping to the jobsite.

Owner Initiated Scope Change

We executed one item for a credit of \$354,092 for changes due to the deferment of the Mission Trails Flow Regulatory Structure II project as discussed above. This change order credited funds to remove shutdowns, vent demolitions, and connections that were to be coordinated with the Flow Regulatory Structure II construction. Modifications were included in this change to enable Pipeline 3 to be placed in service to facilitate connections to the Flow Regulatory Structure II when it is constructed.

As discussed, Mission Trails Pipeline Tunnel work is now substantially complete with only minor clean-up work remaining. One final change order is being negotiated with the contractor consisting of credits to the Water Authority for unused allowances for partnering and graffiti removal and costs for final grading and revegetation changes at the inlet and outlet shaft areas are needed to restore these areas during the period prior to constructing the Flow Regulatory Structure project. We anticipate that their final change order will be a net cost to the Water Authority of around \$90,000. After board authorization, completion of remaining minor work items, and execution of the final change order, we will file the Notice of Completion.

The final construction contract price for the Mission Trails Pipeline Tunnel project, with the exception of final change order, is \$28,403,235 which is a decrease of \$572,631, or 2 percent of the original contract value. We estimate the order of magnitude for the final credit change order to be around \$90,000 which would result in a final contract value of about \$28,493,235.

During construction, \$1.4 million was retained in accordance with the contract terms. We will release retained funds after the General Manager's acceptance, expiration of the 60-day period after the date of recording of the Notice of Completion, and a receipt of a signed Conditional Waiver and Release of Liens and Claims from the Contractor. L.H. Woods and Sons, Inc. provided Bonds for Faithful Performance at the time of bidding, which will remain in full force and effect for the contract's two-year post-construction warranty period.

On this project, the small business participation is 40 percent. Minority and women owned business participation for this project is 39 percent. This information is provided for statistical purposes.

Prepared by: Mike Kenny, Principal Construction Manager
Reviewed by: Michael T. Stift, Director of Engineering
Approved by: Frank Belock Jr., Deputy General Manager

Attachments:

1. Figure 1 – Vicinity Map
2. Table 1 – Summary of Construction Change Orders



MISSION TRAILS PROJECTS

GENERAL VICINITY MAP



San Diego County Water Authority
CAPITAL IMPROVEMENT PROGRAM

PROJECT:

MISSION TRAILS PROJECTS
FIGURE 1

TABLE 1
SUMMARY OF CHANGE ORDERS
MISSION TRAILS PIPELINE TUNNEL
SPECIFICATION 582

Change Order	Item No.	Description	Amount	Contract Time Extension
1	1	Modification -Provide materials and labor for the repair of Calle de Vida	\$7,964	0 days
1	2	Administrative - Extend contract completion date due to inclement weather	\$0	19 days
1	3	Modification – Provide materials and labor for graffiti abatement on noise barriers	\$5,000	0 days
2	1	Error/Omission – Perform resurvey of revised tunnel alignment and geometry	\$1,840	0 days
3	1	Modification-Blowoff structure access	\$3,211	0 days
3	2	Community accommodation-Culvert/Roadway improvements	\$12,000	0 days
3	3	Modification-Haul route modification	\$12,386	0 days
4	1	Differing Site Condition-Fiber optic conduit adjustment.	\$2,874	0 days
4	2	Modification -Calle de Vida repair	\$8,366	0 days
4	3	Community accommodation-Picnic shelter	\$33,848	0 days
5	1	Differing Site Condition-San Diego River crossing modifications	\$10,822	0 days
5	2	Modification-Circumferential weld reinforcement credit	(\$6,850)	0 days
6	1	Differing Site Condition-San Diego River crossing mitigation site	\$35,495	0 days
7	1	Owner Initiated Scope Change-Credit for changes due to delay of Mission Trails Flow Regulatory Structure II construction	(\$354,092)	-99 days
7	2	Modification-Provide pipeline tunnel pipe markings	\$11,150	0 days
7	3	Administrative - Extend Contract Completion Date due to Inclement Weather	\$0	8 days
8	1	Administrative- Reimburse Water Authority for inspection of off-site fabrication	(\$358,313)	0 days
8	2	Modification- Install encasement tie-ins for P3 at South Connection	\$524	0 days
8	3	Differing Site Condition-Remove and dispose of concrete slab	\$2,944	0 days
8	4	Administrative- Reimburse Water Authority for inspection of off-site fabrication	\$0	25 days
8	5	Administrative-Reimburse Water Authority for review of required technical reports	(\$1800)	0 days

Change Orders 1-8 are currently within the Board Authorization Amount
Board Authorized Contract to LH Woods and Sons, Inc. on September 28, 2008
Original and Current Board authorized contract amount: \$28,975,866
Total change order amount: (\$572,631)
New contract amount: \$28,403,235
Total time reduction: 47 days



October 20, 2010

Attention: Engineering & Operations Committee

CLOSED SESSION:

Conference with Legal Counsel – Potential Litigation

Government Code §54956.9(b) – San Vicente Pipeline Mortar Lining Claim

Purpose

This memorandum is to recommend that the committee by motion hold a closed session, pursuant to Government Code §54956.9(b) to discuss the above-referenced matter at the October 28, 2010, Board meeting.

A closed session has also been included on the agenda of the formal Board of Directors' meeting. Unless the Board desires additional discussion, it is not staff's intention to ask for a closed session with the full Board at that time, but staff may request action to confirm directions given or action recommended by the committee.

Prepared by: Daniel S. Hentschke, General Counsel