Agenda Item #:

Staff Report
City of Manhattan Beach

TO: Honorable Mayor Tell and Members of the City Council

THROUGH: David N. Carmany, City Manager

FROM: Jim Arndt, Director of Public Works
Raul Saenz, Utilities Manager
Brian Wright, Water Utility Supervisor

DATE: April 3, 2012

SUBJECT: Approve Plans and Specifications and Authorize the City Manager to Seek Bids for a Construction Contract for the Block 35 Booster Station Flow Meter and Meter Vault Replacement Project

---

RECOMMENDATION:
Staff recommends that City Council approve plans and specifications for the Block 35 Booster Station Flow Meter and Vault Replacement Project and authorize Staff to solicit construction bids.

FISCAL IMPLICATION:
Water Enterprise Funds (501-18-241-6121) in the amount of $30,000 have been appropriated for this project through the Fiscal Year 2011-2012 budget.

BACKGROUND:
Block 35 Booster Station is located near the corner of 6th Street and Rowell Ave. The booster station houses four (4) 75 horse power booster pumps, providing potable water supply and water system pressure, as well as emergency fire protection to the southern portion of the City. Water flow pumped from the Block 35 Booster Station is measured through an existing 20" diameter flow meter. This flow meter is a 60+ year old orifice plate style, differential pressure meter. Due to age and degradation, the meter has presented Staff with challenges in maintaining accurate flow measurements, requiring increasingly frequent maintenance and calibration. The meter is currently housed in an antiquated concrete, brick and wood meter vault presenting safety concerns and limited access. The installation of a new 20" diameter magnetic flow meter will provide enhanced accuracy in water flow measurement, pump performance monitoring, water quality management and water utility data collection. New magnetic flow meter technologies are easily integrated into the City's existing SCADA System and offer low maintenance operation. The installation of a new pre-fabricated concrete meter vault with torsion controlled entry hatches will provide protection from the elements for all metering and electrical components, as well as safe access for calibration and maintenance.

This project will involve:

- The excavation and removal of the City's existing flow meter and meter vault
- The installation of a new pre-fabricated concrete meter vault with torsion controlled entry hatches
- Installation of a new 20" diameter Magnetic Flow Meter
- Installation of 120V electric power supply, conduit, wiring, outlets, lighting, sump pump and connection with the City's SCADA control system.
- Calibration and testing of new meter

DISCUSSION:

The fiscal year 2011-2012 budget includes funding to purchase and install a new 20" diameter magnetic flow meter and meter vault at the Block 35 Booster Station. If approved by City Council, Staff would proceed to advertise the project for construction bids. Bids would be opened in late April, 2012 and construction would begin in May, 2012.

Specifications

Specifications for the 2011-2012 Block 35 Booster Station Flow Meter and Vault Replacement Project are available for review in the City Clerk's Office at City Hall.