

# *West Orange County Water Board*

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*General Manager, Engineer, Secretary, Fiscal Agent*

City of Huntington Beach  
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DATE: January 16, 2019

TO: WEST ORANGE COUNTY WATER BOARD DIRECTORS

FROM: ANDREW FERRIGNO, PE, SENIOR CIVIL ENGINEER

SUBJECT: I-405 FREEWAY WIDENING PROJECT: CONSTRUCTION ACTIVITIES

Pressure testing and water quality testing on the pipeline sections were completed in late October and final connections to the existing portions of the pipeline were made in early November of 2018. This work included all pipe segments except the Seal Beach Turnout. The Seal Beach Turnout was disinfected and tested in mid-November and was fully operational by November 26, 2018.

Paving and street striping were concluded in early December 2018.

We are currently in negotiations with CCL, the general contractor, addressing a change order request for the paving of Willow Lane and Mahogany Street. This will be the final change order for the project, and assuming worst case scenario, would add approximately \$78,000 to the project cost. The first three change orders resulted in a savings of approximately \$28,000.

The sum of all four change orders will be approximately \$50,000 over the contract bid amount of \$5,129,705, or a one percent cost overrun for the entire project. In general, a cost overrun of five to ten percent can be typical for underground pipeline projects.

A final accounting for this project will be available once all project expenses have been paid to the contractor, as well as Arcadis for project inspection, AESCO for project geotechnical testing and inspection, and to the City of Huntington Beach for engineering and operating services provided during construction. Once this has been done, the City of Huntington Beach Finance Department will meet with representatives from OCTA's Finance Department to review all project financial records and project loan documents to determine if all expenditures are acceptable in accordance with Section H of the OCTA and WOCWB Reimbursement Agreement.

All things considered this has been a very successful project.