



Cathodic Protection for Orange County Feeder

Engineering & Operations Committee

Item 7-3

September 10, 2018

Current Action

- Appropriate \$970,000
- Award \$556,000 contract to American Construction & Supply, Inc. to install cathodic protection on the Orange County Feeder

Location Map



Orange County Feeder

● Background

- OC Fdr conveys treated water to Orange County service connections
- Welded steel pipe, PCCP & concrete pipe reaches
- Pipelines subject to stray currents from others
- Exist. stray current drain stations are depleted

● Objectives

- Protect against corrosion due to corrosive soils & stray current from others
- Continued corrosion could lead to eventual leakage

Scope of Cathodic Protection

- Contractor scope:

- Street excavation & restoration
- Well drilling at 3 locations
- Installation of deep well anodes, elect. conduits & cabinets



Drilling of anode well



Rectifier cabinet

- Metropolitan scope:

- Procurement & installation of rectifiers & monitoring units
- Field inspection & const. mgmt.
- Final connections
- Start-up & testing
- Permitting & PM

Technical Support

- HDR Engineers
 - Engineer of record for design
 - Scope of work
 - Provide technical support during construction
 - Respond to RFIs & advise staff on technical issues
 - Commissioning
 - SBE participation level - 25%
 - Estimated cost - \$55,000
 - Agreement to be awarded under GM's Admin. Code authority – No Board action required

Bid Results

Specifications No. 1899

Bids Received:	July 18, 2018
No. of Bidders:	2 *
2 nd Low Bidder:	American Construction & Supply, Inc.
2 nd Low Bid:	\$556,000
Engineer's Estimate:	\$569,000
SBE Participation**:	100%

* Low bidder did not meet the minimum qualifications

** SBE (Small Business Enterprise) participation level set at 15%

Requested Funds

Contract	\$556,000
Labor	
Met. force construction	96,000
Const. inspection	90,000
Permitting & PM	55,500
Submittals review & record drwgs.	30,000
Professional Services	
HDR Engineering	55,000
Materials	17,000
Right-of-Way	15,500
Remaining Budget	55,000
Total:	\$ 970,000

Total const. cost - \$669,000

Schedule



Final Design



Board Action



Construction



**Completion of
Construction**

Board Options

● Option #1

- Adopt CEQA determination that the proposed action is categorically exempt
- Appropriate \$970,000
- Award \$556,000 contract to American Construction & Supply, Inc. to install cathodic protection on the Orange County Feeder

● Option #2

- Do not proceed with the projects at this time

Staff Recommendation

- Option #1

