# Legislation Details (With Text)

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| **Title:** | Staff Report for a Resolution Accepting the Work for the Fiber Conduit Network Extension Project, Project No. 2013.0320 | | | | |
| **Sponsors:** | Keith Cooke | | | | |
| **Indexes:** | | | | | |
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| **Attachments:** | 1. BroadbandExpansionForJOD092917 | | | | |

| Date | Ver. | Action By | Action | Result |
|---|---|---|---|---|
| 10/16/2017 | 1 | City Council | Received and Filed | Pass |

Staff Report for a Resolution Accepting the Work for the Fiber Conduit Network Extension Project, Project No. 2013.0320

## SUMMARY AND RECOMMENDATIONS

This project installed 1.3 miles of conduit, ready to receive fiber optic communication cables, along 2100 feet of San Leandro Boulevard from Polar Way to and along Rose Drive and 136th Avenue and south along 4000 feet of Washington Avenue from San Leandro Boulevard to Chapman Road.

Staff recommends that the City Council accept the work by Cal Electro, Inc., authorize the City Manager to file the Notice of Completion, release the performance and payment bonds, and release the maintenance bond upon successful completion of the one-year maintenance period.

## BACKGROUND

To promote business growth in the City, 1.3 miles of high speed communication infrastructure was added to the 8.1 miles of conduit previously installed under Phase 1 of this project. Phase 1 installed conduit into underserved industrial areas of the City, primarily the Adams Tract, Catalina/Farallon area and the southern Alvarado corridor. This contract added conduit along Washington Avenue from San Leandro Boulevard to the Public Works Service Center located on Chapman Road and extended conduit on San Leandro Boulevard from Polar Way to and along Rose Drive and 136th Avenue.

The City received grant funding from the United States Economic Development Agency (EDA) to install 7.4 miles of communication conduits. With the completion of this project and the favorable bidding conditions, the City was able to install a total of 9.4 miles of conduit under this grant, an increase of 27% beyond the original scope.

Phase 1 installed conduit at the following locations:

- A northern alignment, along Doolittle Drive to the City border and around the Adams Avenue Tract;
- A loop around Marina Boulevard, Monarch Bay Drive, Fairway Drive and Catalina Street for future Shoreline service;
- An alignment along the Alvarado Street & Teagarden Street industrial corridors; and
- A critical loop redundancy between City Hall and the Main Library.

This contract utilized the remaining grant balance by installing an additional 1.3 miles of conduit along Washington Avenue completing a network loop between the Public Works Service Center on Chapman Road and conduit in San Leandro Boulevard at Polar Way. This alignment also includes conduit to two traffic signals for future signal interconnections and conduit to the San Leandro Hospital and the Ghirardelli Chocolate properties.

The total project expanded the City's communications network capability by installing approximately 9.4 miles of conduit ready to receive fiber optic cables. The City's fiber optic conduit network now exceeds 28 miles (Attachments - Fiber Optic Conduit Network Map).

In addition to promoting growth and creating jobs in the industrial sector, the extensive conduit network infrastructure also provides the opportunity for schools, the community and businesses throughout the City to easily connect to high-speed internet communication service.

Lit San Leandro has already installed several connections off the main fiber network and has completed plans to install fiber in the Marina expansion with the emergence of customers along that route. The San Leandro Unified School District has used various portions of the conduit network to connect all District campuses to their high speed data network.

The conduit network will attract and create numerous business opportunities specifically related to broadband and innovation, including:

- Climatec/Paradox Engineering Smart Lighting Project: In addition to thousands of street and building lights being replaced with energy-saving LED lights, the City is one of less than 100 U.S. cities with a "smart city" platform. This platform provides the City with an open technology architecture that allows a limitless number of applications (e.g. traffic, environmental monitoring, energy, etc.) and data to be developed, implemented and integrated into a single system.
- Implementation of the City's first public Wi-Fi hotspots ("WiFiber"), with the goal of developing Wi-Fi access across San Leandro. This is a key "digital divide" asset, eventually enabling San Leandro residents across all economic groups with access to fast broadband.
- National recognition of San Leandro as a leader in "smart city" development through its work with organizations like U.S. Ignite, Smart Cities Council, Next Century Cities and the Global Cities Team Challenge.

## Analysis

On May 1, 2017, the City Council awarded the construction contract for the Fiber Conduit Network Extension Project to Cal Electro, Incorporated. The construction phase is now complete. The work was inspected and deemed to comply with the contract documents and City standards.

## Current Agency Policies

Maintain and enhance the City's infrastructure

Advance projects and programs promoting sustainable economic development, including transforming San Leandro into a center for innovation.

## Previous Actions

- On May 1, 2017 by Resolution No. 2017-067, the City Council awarded a contract for construction of the work to Cal Electro, Inc.

## Applicable General Plan Policies

## Economic Development Goal ED-1

Attract jobs and investment across all economic sectors.

## Economic Development Goal ED-3

Adapt, reimagine, and reinvent traditional business models to put San Leandro on the leading edge of the innovation economy.

**Community Services and Facilities Goal CSF-4** Maximize access to information and communication services for San Leandro residents and businesses.

## Permits and/or Variances Granted

Union Pacific Railroad issued Wireline Crossing Agreements for the locations where the project crossed railroad right of way.

## Environmental Review

This project is categorically exempt from the California Environmental Quality Act (CEQA) per Section 15304(f) of the CEQA guidelines. The Notice of Exemption was filed with the Alameda County Recorder on May 10, 2013.

## Summary of Public Outreach Efforts

- The Notice to Bidders was published in the Daily Review, the South County Post, Visión Hispana and the World Journal.
- Notices were issued to twenty-one builders' exchanges and construction data firms as well as a list of contractors that have asked to be notified of bidding opportunities via email about the advertisement of the subject project.
- The project was described on the Engineering and Transportation Department website.
- Prior to construction, the contractor notified residents and businesses regarding the project and project schedule

## Fiscal Impacts

A summary of the construction contract with Cal Electro, Inc., is below:

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|---|---|
| Original Contract | $ 427,830 |
| Change Orders | $ 18,383 |
| Total Contract Amount | $ 446,213 |

The total project cost is $2,648,000 including design, construction administration plus work completed previously under this grant funding.

## Budget Authority

The funding for the entire project is as follows:

| Account No. | Source. & Approp. Date | Appropriation Amount |
|---|---|---|
| 150-38-347 | EDA Grant, FY 2012-13 | $2,121,000 |
| 120-38-347 | DFSI, FY 2012-13 | 150,000 |
| 210-38-347 | CIP Fund, FY 2012-13 | 352,000 |
| 120-28-196 | DFSI, FY 2016-17 | 25,000 |
| Subtotal | | $2,648,000 |

## ATTACHMENT

- Fiber Optic Conduit Network Map

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