



MAGNOLIA AVENUE FIBER OPTIC CABLE NETWORK

Public Utilities Department

City Council
June 6, 2017

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BACKGROUND

1. Board approved the Magellan business plan for enhancing broadband communications within the City of Riverside on January 22, 2016
2. RPU is working to expand dark fiber network offerings along Magnolia Avenue and throughout the city



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BACKGROUND

3. Public Works Department awarded contract to Asplundh Construction Corporation (Asplundh) for the installation of conduit and fiber optic cable along Magnolia Avenue on December 13, 2016



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COLLABORTATION WITH PUBLIC WORKS

1. Utilize the same trench to install conduits and fiber optic cables for RPU's dark fiber network
2. Cost savings by cost-sharing:
 - a. Engineering and design
 - b. Construction and installation
 - c. Street restoration
 - d. Traffic management
 - e. Construction inspection
 - f. Project management



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RPU'S PROJECT SCOPE

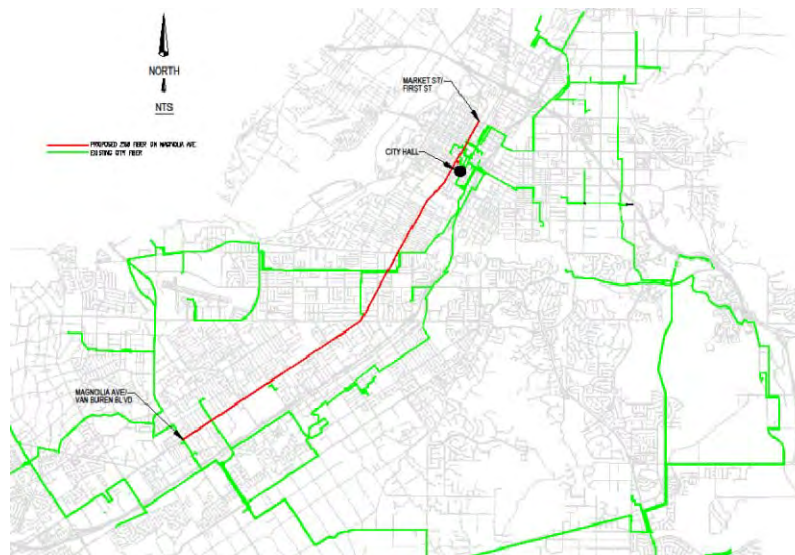
1. Install conduits between 49 intersections along Magnolia Avenue/Market Street from Van Buren Boulevard to First Street (Approx. 6.9 miles)
2. Install fiber optic cable (288 fiber strands)
3. Install 65 pull boxes



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PROJECT MAP



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PROJECT BENEFITS

1. Expand existing fiber to accommodate future demand from stakeholders in the community
2. Increase RPU's fiber network capacity and redundancy
3. Improve future reliability of the fiber network serving the substation facilities and control centers



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RECOMMENDATIONS

That the that City Council:

1. By at least five affirmative votes, except the Magnolia Avenue Fiber Optic Cable Network Project (Project) from the formal procurement requirements required by City Charter section 1109 and directly award a construction contract to Asplundh Construction Corporation in the amount of \$1,708,489; and
2. Authorize change order authority for additional work in an amount not to exceed 15% of the contract amount, which is \$256,000.



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