

**CITY OF HUNTINGTON BEACH
PUBLIC WORKS COMMISSION
REQUEST FOR ACTION**

Item No. PW 10-28

SUBMITTED TO: Chairman Siersema and Members of the Commission

SUBMITTED BY: Travis K. Hopkins, PE, Director of Public Works ^{THA}

DATE: September 15, 2010

SUBJECT: Downtown Street Light Modifications, Phase III
Main Street – Palm Avenue to Acacia Avenue
Orange Avenue – Second Street to Eleventh Street
Olive Avenue – First Street to Seventh Street
Sixth Street – Orange Avenue to Walnut Avenue
Seventh Street – Palm Avenue to Pacific Coast Highway
CC -1391

Statement of Issue: Plans and specifications are in final preparation for the modification of the street lighting systems along segments of Main Street, Orange Avenue, Olive Avenue, Sixth Street and Seventh Street in the downtown area. Upon approval from the Director of Public Works they will be ready for bid. Staff is seeking support for the project and the initiation of the competitive bid process.

Funding Source: Funds totaling \$890,000 are appropriated in the current budget year (Redevelopment Agency account 30590006.82700) for the street lighting modifications in this area. Southern California Edison has also approved a contribution of \$6,017.66 under their *Energy Management Solutions Incentives* program for utilizing LED fixtures instead of the typical high pressure sodium fixtures. This brings the total funds available for this project to \$896,017. The engineers estimate for all of the subject segments exceeds the funds available for this project. Recognizing the fact that several construction bids that the City has received in the past year have been significantly lower than those of only a few years back, staff is recommending that the entire project be bid with the option of eliminating the Seventh Street segment if funds are not adequate. The engineer's cost estimate for this project is \$885,000, excluding the segment along Seventh Street (of this amount, \$349,250 represents the City's direct purchase of poles and luminaires). The engineers estimate including the

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Seventh Street segment is \$1,165,000 (of this amount, \$435,800 represents the City's direct purchase of poles and luminaires).

Impact on Future Maintenance Costs: Maintenance costs may be incrementally lower due to the replacement of severely rusted and corroded equipment. The replacement of high pressure sodium fixtures with LED fixtures will also result in lower energy costs.

Recommended Action: Motion to support the initiation of the competitive bid process and to recommend to the City Council the proposed modification of street lights along segments of Main Street, Orange Avenue, Olive Avenue, Sixth Street and Seventh Street in the downtown area.

Alternative Action(s): Recommend changes to the project.

Analysis: These Segments of the existing street lighting system in the downtown area are 50 to 70 years old and the poles and conduits are severely rusted or corroded in many places. These systems also operate at 4,000 to 6,000 volts, whereas the current design practice is 120 or 240 volts. The combination of high voltage and the degradation of the system increase the risk in performing maintenance and construction projects in the area. These five segments were identified as the third project within the downtown redevelopment area for upgrading the conduit and circuitry.

The project limits will be along Main Street from Palm Avenue to Acacia Avenue, Orange Avenue from Second Street to Eleventh Street, Olive Avenue from First Street to Seventh Street, Sixth Street from Orange Avenue to Walnut Avenue and Seventh Street from Palm Avenue to Pacific Coast Highway. Within the limits of the Downtown Specific Plan area, the fixtures will be traditional pole top fixtures utilizing similar poles to those currently in place along Main Street and consistent with the Downtown Specific Plan. Outside the limits of the Downtown Specific Plan area (Seventh Street between Acacia Avenue and Walnut Avenue and Orange Avenue west of Seventh Street) the lighting will be placed on a mast arm on a concrete pole, similar to the adjacent fixtures in the area. All lamps will be LED, with a portion of the incremental cost between the standard high pressure sodium fixtures and the LED fixtures covered through a cost contribution from Southern California Edison.

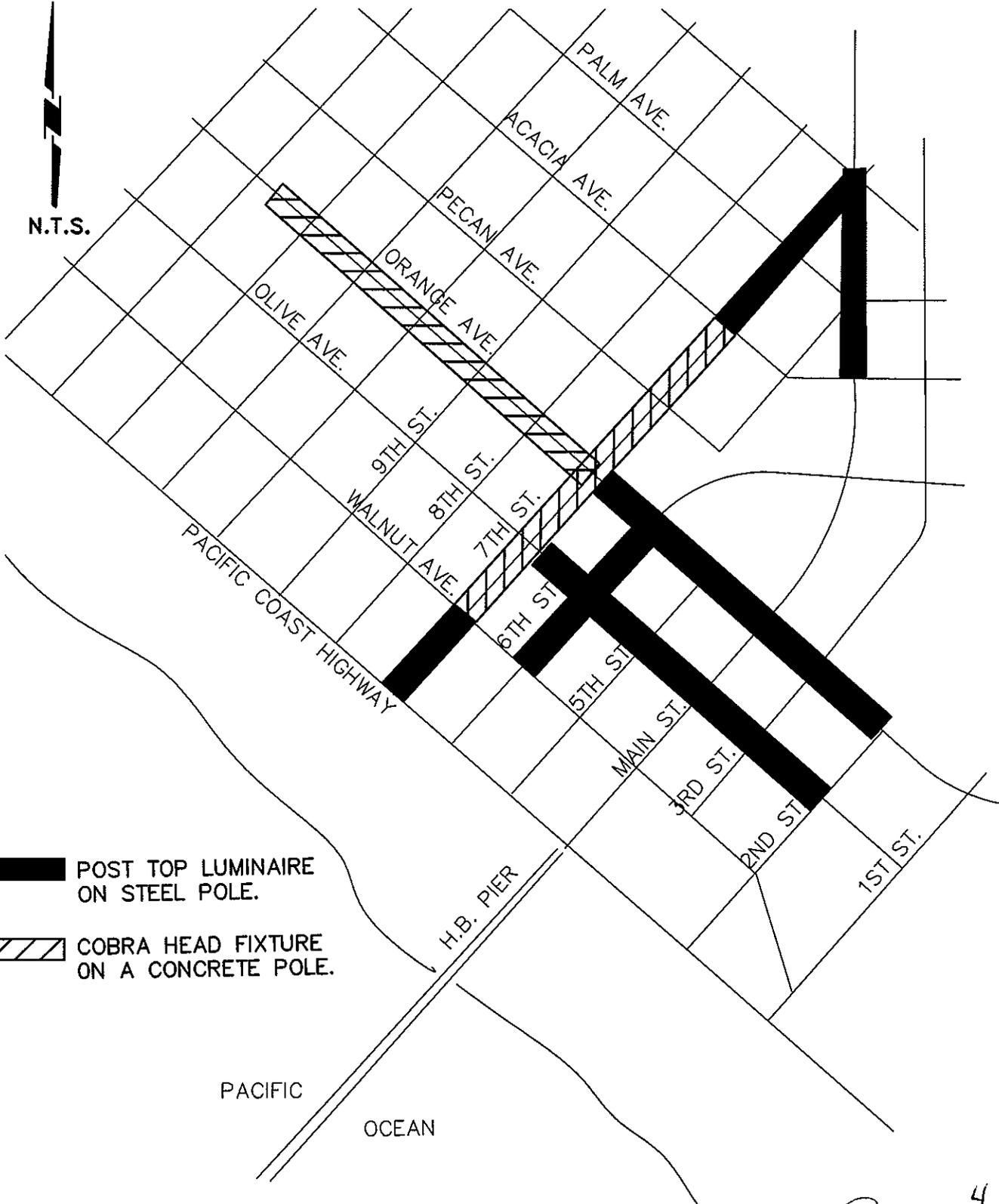
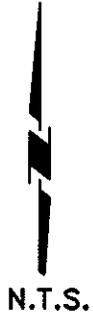
The engineers construction cost estimate is \$885,000 (excluding the Seventh Street segment), including the City-purchase of the street lighting equipment. Construction will be scheduled for early 2011.

Attachments: Project Location Map

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G-2³

ATTACHMENT #1



-  POST TOP LUMINAIRE ON STEEL POLE.
-  COBRA HEAD FIXTURE ON A CONCRETE POLE.

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<p>LOCATION MAP DOWNTOWN STREET LIGHT MODIFICATIONS - PHASE III</p>	<p>ATTACHMENT</p>
<p>CITY OF HUNTINGTON BEACH DEPARTMENT OF PUBLIC WORKS</p>	<p>1</p>