



City of Arts & Innovation

City Council Memorandum

TO: HONORABLE MAYOR AND CITY COUNCIL DATE: FEBRUARY 27, 2018

FROM: PUBLIC WORKS DEPARTMENT WARDS: 1, 3, 4, AND 7

SUBJECT: FEDERAL HIGHWAY ADMINISTRATION HIGHWAY SAFETY IMPROVEMENT PROGRAM CYCLE VII GRANT FOR SIGNAL TIMING PLANS FOR THIRTY-FIVE TRAFFIC SIGNALS DOWNTOWN AND HIGH FRICTION SURFACE TREATMENT AND HAWK SIGNAL IMPROVEMENTS IN VARIOUS LOCATIONS - ACCEPTANCE OF GRANT IN THE AMOUNT OF \$1,098,030

ISSUE:

Accept the Highway Safety Improvement Program Cycle VII grant award, contingent upon receipt of funds, in the amount of \$1,098,030 awarded to the Public Works Department for the purchase of equipment and implementation of High Friction Surface Treatment and High-Intensity Activated Crosswalk signal improvements and new signal timing plans for thirty-five traffic signals located in the Downtown area.

RECOMMENDATION:

That the City Council:

1. Accept the Highway Safety Improvement Program Cycle VII grant award, contingent upon receipt of funds, in the amount of \$1,098,030 awarded to the Public Works Department for implementation of the selected High Friction Surface Treatment and High-Intensity Activated Crosswalk signal improvements and new signal timing plans for thirty-five traffic signals Downtown project;
2. Authorize an increase in estimated revenues in the amount of \$1,098,030 in account 9893628-331310 and appropriate expenditures in the same amount to project account no. 9893628-440125 as assigned by the Finance department

BACKGROUND:

The Federal Highway Administration's Highway Safety Improvement Program (HSIP) is a Federal-aid program which provides grant funding for select projects aimed at achieving significant reductions in traffic fatalities and serious injuries on public roadways. The HSIP application focused on reducing collisions within curves on five select arterial roadways, improving pedestrian safety at two intersections which experience heavy pedestrian activity, and implementation of new traffic signal timing plans for thirty-five traffic signals in the Downtown area to reduce the high concentration of intersection related accidents experienced in this area. The

Public Works Department requested \$1,098,030 in HSIP grant funds and committed a local match of \$193,770 (Measure A) to construct the project.

DISCUSSION:

On December 2, 2015, the Federal Highway Administration awarded the City \$1,098,030 in HSIP Cycle VII funds to complete the High Friction Surface Treatment and High-Intensity Activated Crosswalk (HAWK) Signal Improvements and Downtown Traffic Signal Retiming Project.

The HSIP Cycle VII funded project consists of the following improvements:

1. Installation of the City's first High Friction Surface Treatments aimed at reducing collisions on arterial roadways which have experienced several accidents involving vehicles navigating curves on:
 - a. Arlington Avenue at Hawarden Drive;
 - b. Arlington Avenue between Stover Avenue and Jones Avenue;
 - c. Alessandro Boulevard at Glenhaven Avenue;
 - d. Central Avenue at Fairview Avenue;
 - e. Riverwalk Parkway between Collett Avenue and Pierce Street;
2. Installation of HAWK/Pedestrian Signal Systems at high pedestrian activity intersections including:
 - a. Madison Street at Emerald Street;
 - b. Lincoln Avenue at Grace Street; and
3. Implementation of a Downtown traffic signal timing project which will add new traffic signal controllers and Closed-Circuit Television (CCTV) cameras at several select locations and provide a single grid coordination systems within the Downtown areas bounded by Fourteenth Street to the south, Third Street to the north, Market Street to the west and Lime Street to the east aimed at optimizing traffic flow and reducing collisions.

The Public Works Department will return to City Council to award, request a supplemental appropriation, and provide updated project costs after the project is advertised and bids are received.

FISCAL IMPACT:

The estimated total project cost including design, construction, and construction engineering is \$1,291,800.00 and costs associated with the local match of \$193,770.00 are available in the High Friction Surface/HAWK Signals Account #9893630-440313 (Measure A). Grant revenues in the amount of \$1,098,030 will be appropriated to project account no. 9893628-331310 and used to offset expenses to the project described in the report. Request for authority to spend on individual projects will be made upon City Council's award of the project.

Prepared by: Kris Martinez, Public Works Director
Certified as to
availability of funds: Adam Raymond, Chief Financial Officer/City Treasurer
Approved by: Al Zelinka, FAICP, Assistant City Manager
Approved as to form: Gary G. Geuss, City Attorney

Attachments:

1. Downtown Signal Timing Map
2. HAWK Signals Map
3. High Friction Surface Treatment Map – Alessandro Boulevard
4. High Friction Surface Treatment Map – Central Avenue
5. High Friction Surface Treatment Map – Arlington Avenue at Hawarden Drive
6. High Friction Surface Treatment Map – Arlington Avenue between Stover & Jones Avenues
7. High Friction Surface Treatment Map – Riverwalk Parkway
8. HSIP Cycle VII – Award Letter
9. Presentation