

**DEPARTMENT OF PUBLIC WORKS  
BUREAU OF STREET LIGHTING**

**REPORT NO. 1**

ADOPTED BY THE BOARD  
PUBLIC WORKS OF THE CITY  
of Los Angeles California

AND REFERRED TO THE CITY COUNCIL

AUG - 9 2017

**C.D. Various**

Honorable Board of Public Works  
of the City of Los Angeles

  
Executive Officer  
Board of Public Works

**AMEND THE NOVEMBER 4, 2016 BPW REPORT TO REQUEST LOANS TO BUREAU OF STREET LIGHTING (BSL) FROM THE PUBLIC WORKS TRUST FUND TO BE REIMBURSED FROM GRANTS**

**RECOMMENDATIONS:**

1. Amend the attached November 4, 2016 Board of Public Works Report that requested four loans from the Public Works Trust Fund (PWTF) to the BSL to five loans with no change in total cost. Forward this amended report to the Los Angeles City Council requesting to:
  - 1.2 Authorize five loans from the Public Works Trust Fund (Fund 834) totaling \$6,875,000, payable to the Street Lighting Maintenance Assessment Fund (Fund 347), to fund the design and construction of street lighting projects to be repaid as federal grant proceeds are received from California Department of Transportation (Caltrans) and LAMTA on a cost reimbursement basis. The individual loan amounts requested are estimates and are subject to change based on the final bid amounts. Nevertheless, the overall cost of the five loans shall not exceed \$6,875,000 through this Board Report.
  - 1.3 Authorize that grant reimbursements from the State and LAMTA be deposited into the Street Lighting Maintenance Assessment Fund and subsequently transferred back to the Public Works Trust Fund no later than one week after the deposit has been made.

**ATTACHMENTS:**

1. Approved Federal Transit Administration (FTA) Grant for Federal Section 5307 1% Transit Enhancements funds to LAMTA for \$600,000. The grant is for the installation of Enhanced Bus Stop energy efficient lighting near MTA transit centers.
2. November 4, 2016, Board of Public Works Report 1 from BSL.

**DISCUSSION**

The BSL identified four projects that are included in the 2017 FTIP (Federal Transportation Improvement Program) and qualify for federal reimbursement of construction costs under the Surface Transportation Program. The attached November 4, 2016 BPW Report approved funding from the PWTF to front fund the construction of these projects to be repaid as federal grant proceeds are received from Caltrans on a cost reimbursement basis.

The Bureau has an additional project that will be reimbursed through the LAMTA and FTA for \$750,000 for design and construction. The BSL is requesting that the loan amounts for the original four projects and schedules be modified to include the LAMTA-FTA project. The \$750,000 loan from the PWTF (Fund 834) will front the design and construction costs to install additional security lighting at approximately 18 bus stops in the City of Los Angeles. LAMTA will pass through to BSL up to \$600,000 of Federal Funds and up to \$150,000 of LAMTA Local Funds for the project. The FTA grant of \$600,000 has been awarded and MTA has committed to include \$150,000 of internal funds. These funds will be approved by the MTA board upon approval of this report.

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The modified loan amounts from the PWTF, scope and schedule for each project is indicated as follows.

**1. LOWER GRAND TUNNEL – CD 14 (4<sup>th</sup> St. to General Thaddeus Kosciuzkow Way (GTK Way)**

**Loan Amount Requested: \$2,685,000**

The existing lighting in the tunnel utilizes 40 foot 400W Metal Halide light pipes. The illumination is below current standards and the lighting fixtures are failing. Current and future increases in downtown traffic due to continuing property developments in the area has made this project a high priority for the Bureau.

Approximately 170 fixtures will be replaced with new LED fixtures. Replacement of the tunnel lighting to LED will save an estimated 208,000 KWhrs in energy per year, resulting in a savings of over \$27,000 per year.

This project will result in a more reliable system that will raise lighting levels to increase visibility and reduce energy use. The timeline is estimated to be:

Advertise Project:	January 2018
Contract Award:	June 2018
Construction Complete:	October 2019
Board Acceptance:	December 2019

**2. OLYMPIC BLVD – FLOWER ST TO LAKE ST (VISION ZERO) STM/STP – CD 1, 9, 14**

**Loan Amount Requested: \$1,000,000**

The project location is on the High Injury Network of the Mayor's Vision Zero Initiative. This STM (series to multiple) conversion project will replace the existing high voltage street lighting with low voltage LED units.

Most of the existing mid-block poles and conduit were installed in 1938 and 1939 with lead sheath cable. Whether it is dirt accumulation or deterioration, lead sheath cable in aged conduit does not allow the existing cables to be removed to an extent where new wires may be installed in the existing conduit. Since the existing conduit cannot be reused, new conduit will be installed.

Approximately 80 lights will be converted to LED. The existing luminaires are a mix of HPS (high pressure sodium) and MV (mercury vapor) lamps in cobrahead and pendant fixtures. The project will save an estimated 80,000 KWhrs of energy, or \$10,400 in energy cost per year.

This project will result in a safer system, effectively reducing energy usage and the maintenance required on the system. The timeline is estimated to be:

Advertise Project:	January 2018
Contract Award:	July 2018
Construction Complete:	July 2019
Board Acceptance:	December 2019

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**3. WILSHIRE BLVD - CURSON AVE TO WILTON PL (VISION ZERO) STM/STP – CD 4**

**Loan Amount Requested: \$1,640,000**

The project location is on the High Injury Network of the Mayor's Vision Zero Initiative. This STM conversion project will replace the existing high voltage street lighting with low voltage LED units.

The street lighting system was installed circa 1956 with lead sheath cable. Whether it is dirt accumulation or deterioration, lead sheath cable in aged conduit does not allow the existing cables to be removed to an extent where new wires may be installed in the existing conduit. Since the existing conduit cannot be reused, new conduit will be installed.

Approximately 328 fixtures will be converted to LED. These fixtures are decorative utilizing old energy inefficient lamps. The new project will replace them with the same ornate look. The project will save an estimated 401,000 KWhrs in energy, or \$52,000 in energy cost per year.

This project will result in a safer system, effectively reducing energy usage and the maintenance required on the system. The timeline is estimated to be:

Advertise Project:	June 2018
Contract Award:	December 2018
Construction Complete:	March 2020
Board Acceptance:	September 2020

**4. VENTURA BL - AMIGO AVE TO CALHOUN AVE (VISION ZERO) STM/STP – CD 3, 4, 5**

**Loan Amount Requested: \$800,000**

The project location is on the High Injury Network of the Mayor's Vision Zero Initiative. This STM conversion project will replace the existing high voltage street lighting with low voltage LED units.

The street lighting system was installed between 1962 and 1972. Though the existing cables are not lead sheathed, the conduits between Densmore Ave and Sepulveda Blvd have deteriorated and need to be replaced.

Approximately 220 lights will be converted to LED. The existing luminaires are a mix of HPS, MV and incandescent cobrahead fixtures. All fixtures will be replaced with LED. The project will save an estimated 160,000 KWhrs in energy, or \$21,000 in energy cost per year.

This project will result in a safer system, effectively reducing energy usage and the maintenance required on the system.

The timeline is estimated to be:

Advertise Project:	January 2018
Contract Award:	July 2018
Construction Complete:	July 2019
Board Acceptance:	December 2019

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**5. ENHANCED MTA BUS STOPS SECURITY LIGHTING – CD (various locations).**

**Loan Amount Requested - \$750,000**

The Bureau of Street Lighting has identified 18 bus stops from the list provided by LAMTA that qualify for federal reimbursement of design and construction costs under the program. The improvements at these bus stops will greatly enhance the existing security lighting system's reliability and light output thereby improving bus riders/pedestrian safety sensibility.

There's no existing security lighting provided at these 18 bus stops. This project will provide a comfortable visibility to encourage pedestrian and bus rider traffic. The timeline is estimated to be:

Advertise Project:	January 2018
Contract Award:	June 2018
Construction Complete:	January 2019
Board Acceptance:	June 2019

**FISCAL IMPACT STATEMENT**

There is no impact to the City's General Fund. The PWTF will front fund the projects for a total of \$6,875,000, and the PWTF will be reimbursed by the Street Lighting Maintenance Assessment Fund as soon as grant proceeds are received from Caltrans and LAMTA-FTA.

**STATUS OF FINANCING**

If awarded, funding will be available at the PWTF, Fund 834 to transfer to Street Lighting Maintenance Assessment (SLMAF) Fund, 347, New Account (Project Name) to front fund the construction and design of the projects. Funds will be transferred from the PWTF to SLMAF upon awarding of contract and showing proof of grant award.

Federal billings will be submitted progressively and PWTF will be reimbursed as grant proceeds are received from Caltrans and LAMTA as per Recommendation 1.1.3.

Report prepared by:

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Respectfully submitted,



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Bureau of Street Lighting