

# Energy Efficiency and Conservation Block Grant (EECBG) Application for the City of Portsmouth Virginia

## Budget Justification Document

### Activity 1. Project Title: Upgrade Lighting Systems in Four City Owned Parking Garages

The estimate to furnish and install replacement light fixtures in the County Street Parking Garage is \$61,000 (200 each T5 light fixtures at \$305 per fixture, installed). This cost is based on a quote from PulseSwitch Systems

The estimate to furnish and install replacement light fixtures in the Middle Street Parking Garage is \$42,000 (148 each T8 light fixtures at \$284 per fixture, installed). This cost is based on a quote from PulseSwitch Systems

The estimate to retrofit existing T12 fluorescent light fixtures with T8 ballasts, tubes and replacement lenses in the Middle Street Parking Garage is \$45,000 (195 light fixtures at \$231 per fixture). This cost is based on a quote from PulseSwitch Systems.

The estimate to furnish and install replacement light fixtures, conduit and wiring on the first floor of the Central Parking Garage is \$74,000 (165 each T8 light fixtures at \$448 per fixture, wired and installed). This cost is based on a quote from Hitt Electric Corporation.

### Activity 2. Project Title: Synchronize Traffic Signals, Citywide

The estimate to collect turning movement and average daily traffic count data at intersections within selected systems, develop coordinated timing plans for traffic signals operating within the selected systems, implement and field fine-tune timing plans developed for intersections within the selected systems, and conduct travel time studies for the select systems to analyze "before" and "after" traffic conditions is \$550,000. This cost is based on an estimate provided by the Virginia Beach Office of Kimley-Horn and Associates, Incorporated, the city's traffic engineering consultant.

The solicitation and selection of Kimley-Horn as the city's annual services traffic engineering consultant was overseen by the Virginia Department of Transportation (VDOT) to ensure requirements of the Federal Acquisition Regulations were met. Kimley-Horn's hourly and overhead rates were audited by VDOT. Point of contact: Judson D. Brown, CPA, Director of VDOT External and Construction Audit Division, (804) 225-3597.

### Activity 3. Project Title: Replace Incandescent Traffic Signals with LED Fixtures

The estimate to furnish and install replacement light emitting diode (LED) equipped traffic signal heads at 21 signalized intersections is \$169,000. This total cost is based an average historic costs of \$8,000 per intersection that was developed by the city based on similar contract work at over 50 intersections.