Public Works Department
Environment and Sustainable Infrastructure

Sidewalk & Roadway Lighting (PW11041)
June 6, 2011

~Providing services that bring our City to life!~
Purpose of Presentation

1. Describe and review the content of the “Comprehensive Outdoor Lighting Study”

2. Review the proposed “Policy for Sidewalk and Roadway Lighting”

3. Review the proposed “Sidewalk and Roadway Lighting Upgrade Implementation Plan”
Historical Background

- 2007 downtown safety and security audit completed by the Task Force on Cleanliness and Security in the Downtown Core

- Recommended a lighting study for the downtown core to identify how lighting can play a key role in:

  "Reducing the fear of crime and increasing confidence for people to visit and use the Downtown Core."

- Scope of study subsequently expanded to City-wide.

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Sidewalk & Roadway Lighting (PW11041)
Primary Study Objectives

- Justify and define what specific role lighting plays in relation to:
  - Pedestrian Safety
  - Real and Perceived Safety and Security
  - Vehicular Safety
  - City Image & Commercial Enhancement

- Identify lighting deficiencies that currently exist in the Downtown Core and City-wide

- Provide sidewalk and roadway lighting policy framework
Study Scope

City-wide:

• Sidewalks and Roadways
• Alleyways
• Business Improvement Association Areas

Downtown Core:

All of the above plus:

• Parks and Pathways
• Public and Private Parking Lots
• Public Monuments
• Building Facades
Study Context and Structure

- Conducted by outdoor lighting consultant
- Active consultation with leading outdoor lighting authorities/researchers and stakeholders
- In-depth research/reference/standards
- Justification for where and how to light
- Recommendations based on nationally accepted standards and guidelines
- This committee report specific to sidewalk and roadway lighting only
Study Findings – Sidewalks & Roadways

• Lighting installed to national standards improves safety and security

• Significant proportion of existing sidewalk and roadway lighting meets lighting standard requirements

• Deficiencies are most likely to exist on sidewalks rather than roadways – especially areas of high pedestrian activity
Advantages of a Street Lighting Policy

- Defines and mandates lighting standards

- Ensures consistency City wide

- Provides opportunity to place more emphasis on pedestrian needs while continuing to light roadways

- Benchmark for evaluating existing installations and plan for working towards remediation

- Promotes environmental and energy conscious lighting
Street Lighting Policy Details

- Basis for the design and application of sidewalk and roadway, alleyway and walkway lighting
- Defines where lighting is or is not required and to what degree (illumination levels)
- Based upon:
- Formalizes current approach to lighting (where to light)
  - accentuates a pedestrian-friendly lighting strategy
Street Lighting Policy Details

Where is lighting to be provided?
- Urban Sidewalks and Roadways
- Urban Walkways
- Urban Intersections
- Rural Intersections
- Freeway Interchanges (off-ramps)

To what lighting levels?
- Internationally accepted lighting standards
Street Lighting Policy Details

Where is lighting not to be provided?

- Rural Roadways
- Alleyways
- Freeways (except interchange exit-ramps)

Special Considerations?

- Mandates the continuation and expansion of ‘white light’ in downtown core
Implementation Plan

- Planning tool for defining upgrade priorities

- Prioritization based upon safety first, degree of lighting deficiency second

- Additional weighting factor for setting priority for sidewalks and roadways within the downtown core
Implementation Plan

- Downtown audit part of study – information to be applied extracted and utilized
- Outside downtown, lighting issues will be dealt with on a site specific basis
- Upgrades implemented in conjunction with road improvements, streetscaping, etc
- If stand-alone street lighting upgrades are required, identified independently in the annual PW capital construction list
- Just as what has been done in the past, annual street lighting capital budget to fund minor lighting upgrades
Report Recommendations

- Policy for Sidewalk and Roadway Lighting (Appendix ‘A’) be approved

- Sidewalk and Roadway Lighting Upgrade Implementation Plan (Appendix ‘B’) be approved

- Comprehensive Outdoor Lighting Study (Appendix C) be received
Thank you

Questions and Answers?