



## City Council Policy: CP250 - Comprehensive Street Lighting

Effective Date: February 19, 2008

Amends: CP250 - Comprehensive Street Lighting, June 20, 1994

Approved By: Governing Body

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### I. SCOPE

### II. PURPOSE

#### A. The overall objective of this comprehensive street lighting policy is:

1. To achieve good visibility through effective utilization while minimizing energy consumption to provide the level of illumination required according to this policy.
2. To provide street lighting that will contribute to the safety and welfare of City residents and visitors by:
  - a.) Reducing night accidents;
  - b.) Aiding police protection;
  - c.) Facilitating traffic flow;
  - d.) Promoting business activity during night hours; and
  - e.) Providing inspiration for community spirit and growth.

### III. RESPONSIBILITY

#### A. Director of Public Works

### IV. DEFINITIONS

### V. POLICY

#### A. Design Criteria:

1. The roadway classification for street lighting design will be:
    - a.) Arterial - having an Average Daily Traffic (ADT) volume of greater than 15,000 vehicles or 100 pedestrians per night and serves as the principle network for through traffic flow.
    - b.) Collector - having an ADT volume of less than 15,000 and 1,000 or more vehicles or 100 pedestrians per night and servicing traffic arterial and local roadways.
    - c.) Local - having an ADT volume of less than 1,000 vehicles or 50 pedestrians per night and used for direct access to residential properties.
  2. The minimum average maintained horizontal illumination in foot candles will be:
    - a.) Arterial
      - Commercial (business area where ordinarily there are many pedestrians during night hours) 1.2
      - Intermediate (where moderately heavy night time pedestrian activity in such areas as libraries, recreation centers, apartments and neighborhood retail stores) 0.9
      - Residential (where residential development occurs with few pedestrians at night) 0.6
    - b.) Collector
      - Commercial - 0.8
      - Intermediate - 0.6
      - Residential - 0.4
    - c.) Local
      - Commercial - 0.6
      - Intermediate - 0.5
      - Residential - 0.3
  3. The minimum average-to-minimum uniformity ratios will be:
    - a.) Commercial - 3:1
    - b.) Intermediate - 4:1
    - c.) Residential - 6:1
  4. The road surface classification will be R-3 - Asphalt road surfaces with dark aggregates and rough texture after months of use.
  5. The equipment will be:
    - a.) Pole - steel pole of 25 feet to 30 feet in height, except for intersections with no trees, the maximum height of 40 feet is permitted.
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- b.) Luminaire - cutoff type using high pressure sodium lamp mounted at right angle to the pavement.
- c.) Mast arm - sufficient length to cause the maximum foot candles to be over travel lane of roadway.
- 6. The installation design will be based on the above design criteria. The formulas will be contained in either the US Department of Transportation Federal highway Administration Implementation Package 78-15, as amended, or the Illuminating Engineering Society (IES) Special Report ED-3A, as amended.
- 7. The installation design will be evaluated to determine the effect on street trees. The intent will be to minimize damage from pruning. Also, the location of a street light pole will be as near to property line as feasible to minimize viewing from the front of a residence or business. If detrimental issues are found, the installation design will be altered to minimize the aesthetic impact.
  - a.) NOTE: The Public Works Director will invite residents to a public information meeting when a street light is to be changed, installed or removed from their property.

### VI. PROCEDURES

#### A. For all accepted City streets.

- 1. The City will consider a street lighting request, if a petition form is received from over 50 percent of the abutting properties within 500 feet of the proposed street light location.
  - a.) Only one signature is required per building owner.
  - b.) The office of the City Clerk will receive the petition and verify the names on the petition. Verified petitions will be forwarded to Public Works for appropriate action; or
  - c.) Public Works may request street lighting as a part of any project of where, in the opinion of the Public Works Director, a street light or street lighting system may be necessary.
- 2. Public Works will prepare a warrant for the requested street light(s). The purpose of the warrant will be to establish warranting condition that can be used to determine the necessity of the light and a priority when compared to other street light requests.
  - a.) Public Works will estimate the cost and prepare a report for the Council Committee of the Whole.
- 3. The Council Committee of the Whole will hold a public information meeting and recommend action to the City Council.
- 4. The City Council will take appropriate action consistent with the amount of funds available for street lighting.

#### B. For all private or unaccepted City streets:

- 1. The City will not install or pay for any power usage for any street light installed on a private or unaccepted City street.
- 2. The developer will pay for any street lighting that will be installed on streets to be accepted by the City.