

**ALACHUA COUNTY PUBLIC WORKS  
STREET LIGHTING PROCEDURE**

1.0 SCOPE

The purpose of this procedure is to establish the process for receiving requests, evaluating necessity and requesting street light installation.

2.0 REFERENCES

- 2.1 Standard Specifications for Structural Supports for Highway Signs, Luminaries, and Traffic Signals, 1985 (AASHTO).
- 2.2 Standard Specifications for Road and Bridge Construction, current revision (FDOT).
- 2.3 Roadway and Traffic Design Standards, current revision (FDOT).
- 2.4 Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways, current revision (FDOT) - "Green Book".
- 2.5 Fire Hydrant and Public Street Lighting Services Agreement, February 1990.

3.0 RESPONSIBILITY

- 3.1 Alachua County Public Works - receive requests from citizens, evaluate necessity, and request installation of lighting. Request street light installation on all new construction and reconstruction of county maintained roads.
- 3.2 Gainesville Regional Utility (GRU) - install and maintain street lights in accordance with applicable agreements.

4.0 REQUEST FOR STREET LIGHTING

- 4.1 The Office of Inspections will document requests for street lighting on the Street Lighting Request form, Exhibit A.
- 4.2 The Office of Inspections will evaluate the requested lighting and determine category of requested installation from the following, prior to continuing evaluation:
  - 4.2.1 Infill (to existing system, subdivision)
  - 4.2.2 Infill (to existing system, collector/arterial)
  - 4.2.3 Independent (single light)
  - 4.2.4 New System (existing roadway or development)
  - 4.2.5 New System (new development)

4.3 The Office of Inspections will then proceed with evaluation of the request in accordance with the appropriate category.

#### 5.0 INFILL LIGHTING (SUBDIVISION)

5.1 Existing lighting will be evaluated for conformance to the following criteria:

5.1.1 Light at each intersection, high traffic driveway, major curve, and cul-de-sac.

5.1.2 Light mid block between intersections, not to exceed 300 LF between lights.

5.1.3 Where lights installed under (A) above, are less than 200 LF apart, no mid block lights shall be installed.

5.2 When additional lighting should be installed to meet criteria in 5.1, document recommendation on the Street Light Request form, Exhibit A, and make a request to GRU Electrical Engineering.

5.3 Where lighting installed meets requirements in 5.1, evaluate existing system for light restriction by vegetation, or inoperative lights. Request for trimming vegetation shall be forwarded to the Road Department. Notice of inoperative lights shall be forwarded to GRU. Both notices shall be documented on the Street Lighting Request form.

5.4 Results of evaluations shall be reported to the requestor by telephone and/or letter. Response date shall be documented on the Street Lighting Request.

5.5 Suspense file shall be maintained for those requests pending installation or corrective action, until such time as work is completed.

#### 6.0 INFILL LIGHTING (COLLECTOR/ARTERIAL)

6.1 Request for infill lighting on collector or arterial roadways shall be evaluated for validation of a lighting problem. Should additional lighting appear necessary, GRU will be requested to evaluate/re-design the lighting found to be deficient.

6.2 Maintenance items found shall be reported to the Road Department or GRU as appropriate.

6.3 Documentation and tracking will be as in Section 5.0.

#### 7.0 INDEPENDENT (SINGLE LIGHT)

7.1 Requests for street lighting where no lighting already exists will first be evaluated for the need to install a lighting system on the entire roadway or development, in accordance with the appropriate section of this procedure. Installation of a single independent light will only be approved on a case by case basis after completion of evaluation, and determination that installation of a whole system is not required, or

safety concerns prevent waiting until a whole system is installed.

7.2 Documentation and tracking will be as in Section 5.0.

## 8.0 NEW SYSTEM (EXISTING ROADWAY OR DEVELOPMENT)

8.1 Evaluations for street light systems on existing collector or arterial roadways shall be performed by completion of the Street Light Warrants Evaluation form, Exhibit B. Numerical results will be used in determining the priority in which the system will be installed by GRU, as a part of the annual schedule of prioritized lighting projects.

8.2 Prior to December 19, 1979, no agreement existed for street light installations. Subdivisions existing prior to the date of this agreement may only receive street lighting when a petition of all property owners indicates a majority of owners desire the installation of streetlights. Petition for installation is initiated and completed by the property owners within the subdivision. New systems in older subdivisions may be requested to be installed as a part of the prioritized lighting project list, or, if acceptable to GRU, as GRU schedule permits, without impact to the prioritized listing.

8.3 Subdivisions completed between October 1, 1987, and September 30, 1988 may not have had street lights installed due to a moratorium. Property owners in such subdivisions must provide a petition indicating a majority of owners desire lighting, and a request will be made for installation. Installation may be made without impact to the prioritized projects, but will be installed as GRU schedule permits.

8.4 Requests for lighting of existing roadways will be made to GRU. GRU will design a lighting system based on roadway classifications described in the "City of Gainesville Roadway Lighting Procedure". Alachua County will provide the roadway classification to GRU.

8.5 Documentation and tracking will be as in Section 5.0.

## 9.0 GENERAL EVALUATION AND INSTALLATION CRITERIA

9.1 Purpose - Streetlights are for motorist and pedestrian safety along County maintained roadways. Illumination of private property outside of the road right-of-way is not the responsibility of the street lighting program.

9.2 Location - Clear zone requirements established by FDOT, for the speed and classification of roadway, must be utilized for street light pole locations. Those standards are contained in the Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (the "Green Book"). A copy of the Green Book clear zone requirements is contained in Exhibit "C". The County Engineer shall approve exceptions. Spacing shall be in accordance with lighting design supplied by GRU, with minimum spacing as specified in 5.1 for local and subdivision roadways.

### 9.3 Materials

- 9.3.1 The standard fixture (or lamp housing) used for all new and replacement lighting projects along arterial, collector, and local roadways will utilize a “cut-off” design. The lamp type shall be either high-pressure sodium or metal halide as appropriate for the application. This type of fixture directs the lamp’s output downward towards the roadway thereby: (a) minimizing glare and (b) promoting maximum efficiency. Existing area light fixtures will be replaced with cut-off fixtures when they require replacement.
- 9.3.2 New subdivision construction requires treated wood poles unless the developer pays for another type of pole. Infill poles on local or subdivision will be compatible with the existing installation.
- 9.3.3 Collector and arterial roadways shall use cut-off design fixtures. Poles utilized will be at GRU option based on design of lighting and electrical systems on the roadway. Fiberglass poles may be installed on rural type roadways at offset locations allowed for frangible base poles per FDOT Index No. 700.

### 9.4 Electrical Service Connections

- 9.4.1 Local and subdivision construction lighting shall be compatible with construction of the primary electrical system. If primary electrical is underground, street lighting service line should be underground.
- 9.4.2 Electric service on major roadways shall be by the most economical means available that meets requirements for the installation location.

## 10.0 PERMITTING

- 10.1 Permits are required for all street light installations requiring the setting of new poles or requiring underground cable/conduit. No permit fees are required, unless installations are of decorative fixtures outside of the County and GRU agreement.
- 10.2 New subdivisions shall have street light locations shown on the electric permit for the subdivision. Review shall assure all roadways within the subdivision receive lighting to the appropriate standard for the roadway classification.