

# City of Cypress

## Aesthetic Requirements for Small Wireless Facilities

### I. Definitions

- (a) "Antenna" means an apparatus designed for the purpose of emitting radiofrequency (RF).
- (b) "Antenna Equipment" means equipment, switches, wiring, cabling, power sources, shelters or cabinets associated with an antenna, located at the same fixed location as the antenna, and, when collocated on a structure, is mounted or installed at the same time as such antenna.
- (c) "Antenna Facility" means an Antenna and Antenna Equipment.
- (d) "Collocation" means:
  - (1) Mounting or installing an antenna facility on a pre-existing structure; and/or
  - (2) Modifying a structure for the purpose of mounting or installing an antenna facility on that structure.
- (e) "Distributed Antenna System" or "DAS" means a network of multiple, spatially separate antenna Nodes connected to a common source via a high capacity transport medium (such as fiber optic cable), for the purpose of providing wireless service within a geographic area.
- (f) "Replacement Structure" means a structure:
  - (1) That is installed at the same general location as the original pole;
  - (2) That is no more than 6 feet taller than the original pole;
  - (3) That is consistent with the quality and appearance of the original pole; and
  - (4) Whose installation does not require ground disturbance significantly different than that required to install the original pole, unless the disturbance is less than that required to install the original pole.
- (g) "Small Cell" means a wireless communications technology installation that typically employs low powered wireless base stations, each of which may include only a single node. A Small Cell provides telecommunication services for a single service provider and typically serves a smaller geographical area than that provided by a single node in a Distributed Antenna System.
- (h) "Small Wireless Facility" (SWF) means Small Cell or Distributed Antenna System equipment at a fixed location.
  - (1) The term includes any radio transceiver, Antenna Facilities including visible coaxial or fiber-optic cable on a structure, regular or backup

power supply, and comparable equipment, regardless of technological configuration.

(2) The term does not include:

- a. The structure or improvements on, under, or within which the equipment is located; or
- b. Coaxial or fiber-optic cable that is located between wireless structures or Poles; or not otherwise immediately adjacent to or directly associated with a particular Antenna.

(i) "Structure" means a pole used or to be used for the provision of personal wireless service within the public right of way. The term does not include a structure commonly known as a "cell tower."

## **II. Antennas**

- A. Each small wireless antenna shall be located entirely within a shroud or canister type enclosure.
- B. The diameter of the antenna enclosure at its widest point should not be wider than two times the diameter of the top of the wireless support structure. The enclosure shall not exceed six cubic feet in volume.
- C. All antenna enclosures shall either be mounted to the top of the wireless support structure pole and aligned with the centerline of the wireless support structure, or mounted to the side of the wireless support structure such that the vertical centerline of the antenna enclosure shall be parallel with the wireless support structure with the height of the side mounted antenna being at a location on the wireless support structure noted in the application and approved by the City, but at least 10 feet above ground level at its lowest point.
- D. The City Engineer shall be authorized to consider and allow use of other infrastructure not described above and not otherwise prohibited herein, when the City Engineer determines that the proposed alternative infrastructure: (i) is substantially similar in physical characteristics to a preferred structure; and (ii) the visual impact that would be suffered by the public is no greater than the impact if installed on a preferred structure; and (iii) the proposed alternative infrastructure can accommodate that proposed SWF without creating any risk to the public health or safety. Any approved alternative infrastructure shall be subject to all requirements for SWF's set forth herein.

## **III. Cables and Wires**

All cables, wires and connectors related to the small wireless facility must be fully

concealed on the wireless support structure and shall match the color of the wireless support structure. There shall be no external cables and wires related to the small wireless facility hanging off or otherwise exposed on the wireless support structure.

#### **IV. Colors**

All colors shall match the background of any wireless support structure that the facilities are located upon, including equipment cabinets. Notwithstanding the foregoing, in the case of existing wood utility poles, finishes of conduit shall be colored to match the color of the pole. Equipment cabinets shall be the color of the pole or painted to match the surrounding environment, with the color subject to approval by the Director of Community Development.

#### **V. Equipment Enclosures/Concealment**

Equipment enclosures, including electric meters, shall be as small as possible, but in no event larger than 28 cubic feet in volume. All equipment enclosures shall be placed underground unless deemed to be infeasible. All requests for above ground enclosures shall be approved by the Community Development Director.

#### **VI. Signage/Logos/Lights/Decals/Cooling Fans**

- A. **Signage:** The small wireless facility permittee shall post its name, location identifying information, and emergency telephone number in an area on the cabinet of the small wireless facility that is visible to the public. Signage required under this section shall not exceed 4 inches by 6 inches, unless otherwise required by law (e.g. radio-frequency (RF) ground notification signs) or the City. If no cabinet exists, the signage shall be placed at the base of the pole.
- B. **Lights:** New small wireless facilities and wireless support structures shall not be illuminated, except in accord with state or federal regulations, or unless illumination is integral to the camouflaging strategy such as design intended to look like a street light pole.
- C. **Logos/Decals:** The small wireless facility operator/permittee shall remove or paint over unnecessary equipment manufacturer decals. The color shall match or shall be as approved by the City. Small wireless facilities and wireless support structures shall not include advertisements and may only display information required by a federal, state or local agency. The small wireless facility operator/permittee shall utilize the smallest and lowest visibility RF warning sticker required by government or electric utility regulations. Placement of the RF sticker shall be as close to the antenna as possible.
- D. **Cooling Fans:** In residential areas, the small wireless facility operator/permittee shall use a passive cooling system. In the event that a fan is needed, the small

wireless facility operator/permittee shall use a cooling fan with a low noise profile.

## **VII. Location Requirements**

### **A. PREFERRED LOCATIONS**

The following are the most preferred areas for new small wireless facilities in the order of preference (1 being most preferable):

1. Industrial zones if not adjacent to a park or residential zone.
2. Street Rights of Way areas if not adjacent to a park or residential zone.
3. Retail and Commercial Districts if not adjacent to a park or residential zone.

### **B. COLLOCATION PREFERENCE**

It is the City's strong preference that whenever an applicant proposes to place a new small wireless facility that the applicant collocate the same on existing wireless support structures.

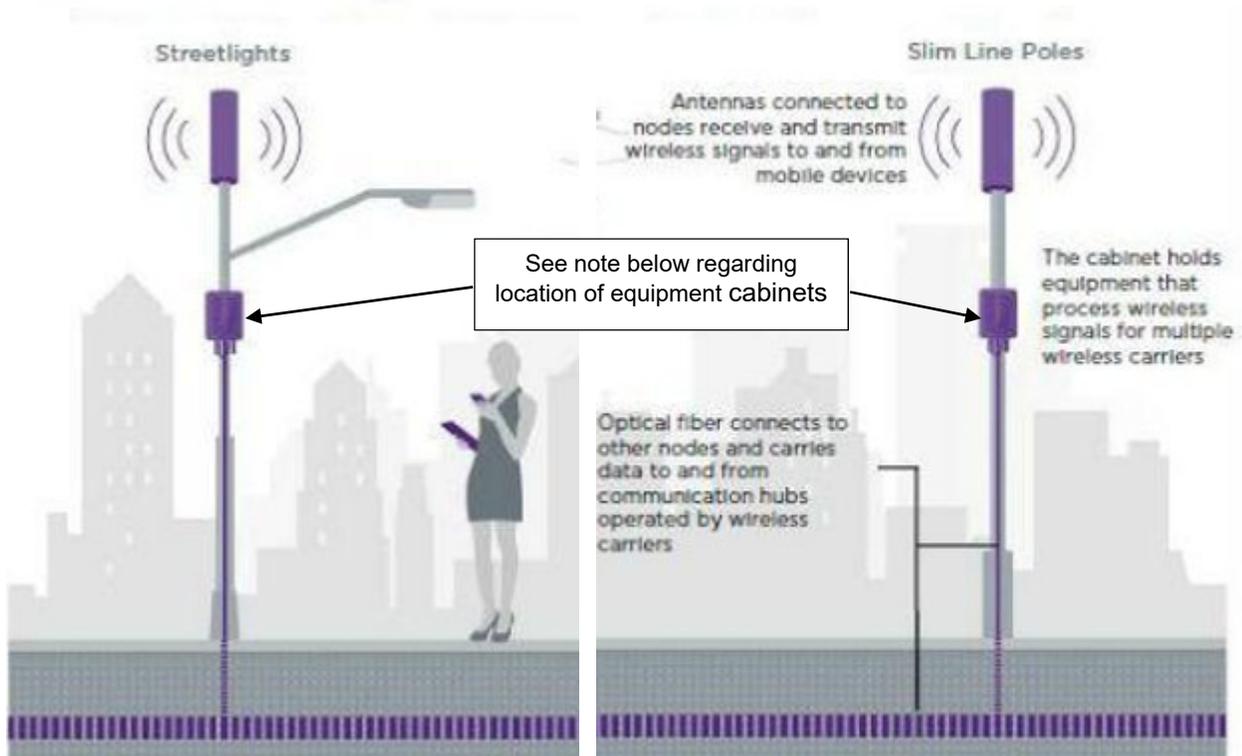
### **C. PROHIBITED LOCATIONS**

No SWF may be installed or maintained; (i) where any hazard to normal traffic flow could occur or exist, such as obscuring of drivers visibility or sight lines; or (ii) which would result in an obstruction or restriction of pedestrian movement or risk to pedestrian safety; or (iii) which would or could result in violation of any law, including any ADA standard; or (iv) which would or could result in violation of any applicable federal, State, County, or local standard including standards of the American Association of State Highway and Transportation Officials.

Please see following pages for antenna pole standards.

# Antenna Pole Standards

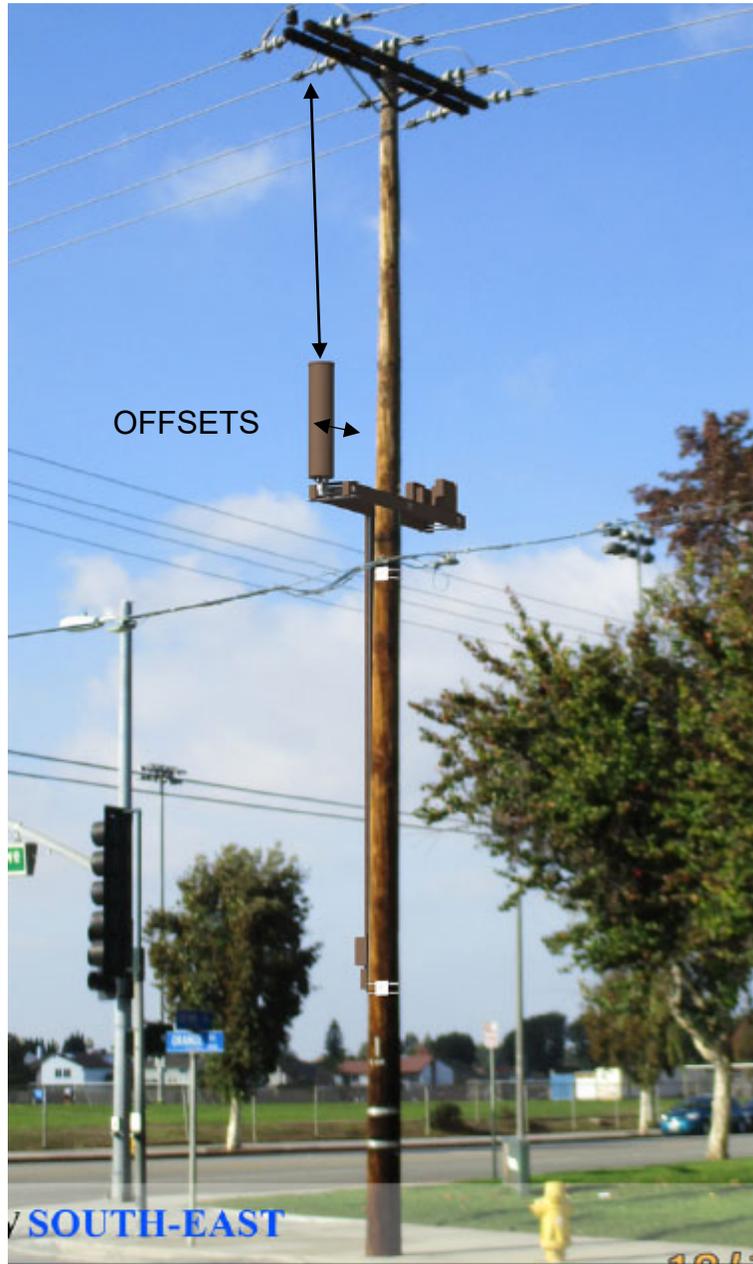
## Street Lights



Whenever possible, antenna equipment shall be placed below grade in equipment vaults or similar enclosures acceptable to the City Engineer.

# ANTENNA POLE OFFSETS

## Utility Poles



Southern California Edison requires an offset between the antennas and the utility pole to allow climbing access to all power lines. The offsets for this antenna will be a minimum of twelve feet from the power lines and three feet from the power pole.