

City of Spring Lake Park
Small Wireless Aesthetic Standards
Adopted 4/15/19

Findings

The City of Spring Lake Park desires the most advanced and highest quality wireless services available. The City also wishes to minimize the negative impacts associated with wireless facility deployments including small wireless facilities. Such negative impacts may include interference with right-of-way sight lines, aesthetic impacts that are inconsistent with the surrounding area, fall zone and clear zone risks, navigation obstacles, interference with future right-of-way improvement or transportation improvement plans, interference with the installation or maintenance of other utilities, and increased visual or noise pollution.

To address such impacts, any person desiring to collocate small wireless facilities or place new wireless support structures in the right-of-way must first obtain a small wireless facility permit pursuant to the City's right-of-way ordinance, Code Chapter 151. Moreover, any person seeking to collocate small wireless facilities on an existing wireless support structure owned or controlled by the City must first enter a standard collocation agreement.

The following aesthetic standards and requirements are intended to maintain the City's aesthetic environment while also allowing for the availability wireless services, including broadband and "5G" services, using small wireless facilities. These standards are intended to establish clear and consistent aesthetic standards for small wireless facility placements in the City and establish a streamlined review and approval process. The City will make these standards publicly available.

These standards apply to all small wireless facility permit applications for placement of small wireless facilities on City-owned and non-City-owned support structures (poles), and the placement or replacement of small wireless support structures in the public right-of-way. Compliance with these standards is a requirement for, and condition of, issuance of a small wireless facility permit. Any installation that does not conform to these standards will be in violation of the associated permit and the City's right-of-way ordinance.

In addition to the following standards, the placement of new support structures for small wireless facilities shall be subject to any conditions specified in the small wireless facility permit. Applications to install small wireless facilities or place new support structures in districts zoned for residential uses or within a historic district established by federal or state law or city ordinance, shall further be subject to any conditions contained in the required conditional use permit authorizing such installation.

With respect to City-owned support structures, these standards additionally seek to:

1. establish a menu of design options for providers to select from when applying for new small wireless facility permits associated with City support structures.
2. minimize unnecessary placement of new poles by encouraging co-location of small wireless facilities.

3. in situations where City support structures will be replaced, require that the structures be of a stealth design such that the maximum amount of facilities, including any wiring, are concealed inside the structure.
4. in situations where attachments will be made to existing poles, require that facilities, equipment, cabling, and conduit be concealed through the use of approved shrouding or camouflaging.

Section 1. Site Plans

Applicants must submit site plans, elevation drawings and structural calculations prepared and signed by a Professional Engineer licensed by the State of Minnesota as detailed below. Site plans must depict any adjoining or nearby existing wireless facilities, with all existing transmission equipment identified; neighboring public improvements; the proposed small wireless facility, with all proposed transmission equipment and other improvements, and; the boundaries of the area surrounding the proposed facility and any associated access or utility easements and setbacks. Site plans must further include:

1. Photo Simulations: For all applications, photo simulations must be included. Such photo simulations must be from at least three line-of-site locations near the proposed project site depicting the viewpoints of the greatest pedestrian or vehicular traffic.
2. Equipment Specifications: For all equipment depicted on the plans, the applicant must include:
 - a. the manufacturer's name and model number;
 - b. physical dimensions including, without limitation, height, width, depth, volume and weight with mounts and other necessary hardware;
 - c. technical rendering of all external components, including enclosures and all attachment hardware; and
 - d. a selection from the City's approved aesthetic standards.

Section 2. Design Standards

The City desires to promote aesthetically acceptable and area conforming wireless facilities using the smallest and least intrusive means available to provide small wireless services to the community. All facilities in the public right-of-way must comply with all applicable provisions in this section.

Antennas: Antennas must be top-mounted and concealed within a radome (a structural, weatherproof enclosure that protects an antenna and is constructed of material that minimally

attenuates the signal transmitted/received by such antenna) or otherwise concealed to the extent feasible. Cable connections, antenna mounts and other hardware must also be concealed. The radome or other concealment must be non-reflective and painted or otherwise colored to match the existing support structure.

Collocation: Collocations between wireless service providers on the same support structure is required wherever feasible. If an applicant chooses to not collocate in areas where options are or appear to be available, the applicant must document that collocation is infeasible.

Concealment: Concealment elements must be incorporated into the proposed design of the small wireless facility installation, and must include approved camouflaging or shrouding techniques.

Pole-Mounted Equipment Cages/Shrouds: When facilities are permitted to be pole-mounted, facilities other than the antenna(s), electric meter and disconnect switch must be concealed within an equipment shroud. The facilities must be installed at a height that presents the least aesthetic impact, but in no event lower than 15 feet above ground level. The equipment shroud must be non-reflective and painted, wrapped or otherwise colored to match the support structure. Shrouds must be mounted flush to the support where feasible. Standoff mounts must provide the minimum separation distance from the support structure necessary for feasibility.

Existing Street Light Poles: Most of the existing street light poles are not capable of accepting new equipment. Therefore, the provider is required to remove and replace those poles with a combination street light/antenna pole.

New Poles: New support structures must be the same color as neighboring, similar support structures and of the same design characteristics.

Ground-Mounted Equipment: Ground-mounted equipment must be installed below grade or, if technically necessary, concealed in a ground-mounted cabinet. In addition to any applicable requirements in the City's right-of-way ordinance, Code Chapter 151, ground mounted cabinets must:

1. be installed flush to the ground;
2. be the same color as neighboring, similar support cabinets or other ground-mounted structures;
3. on or adjoining sidewalks, trails, or other similar passageways, not interfere in any way with the flow of pedestrian, bicycle or vehicular traffic;
4. conform to the American's with Disabilities Act (ADA) including with respect to appropriate sidewalk spacing; and
5. not create a safety hazard;

Lights: Unless otherwise required for compliance with FAA or FCC regulations, small wireless facilities shall not include any lights or lighting. This subsection does not prohibit installations on streetlights or the installation of luminaires or additional street lighting on new support structures if and where required by the City.

Health and Safety Regulations: All facilities shall be designed, constructed, operated and maintained in compliance with all generally applicable health and safety standards, regulations, and laws, including without limitation to all applicable regulations for human exposure to RF emissions.

Section 3. Location Criteria

Traffic Signal Systems: The City of Spring Lake Park, Anoka County, and MnDOT prohibits small cell attachments to all their traffic signal systems.

Privately Owned Poles: The vast majority of street lights within the City's right-of-way are owned by Xcel Energy. Most of the street light poles are not capable of accepting new equipment and thus will need to be removed and replaced with a combination street light/antenna pole. Therefore, the City understands that each company must reach a final agreement with Xcel Energy for collocating and work with Xcel to review and approve individual pole locations. The provider is still responsible to acquire a right-of-way permit through the City.

Obstructions: Any new support structure or other facilities associated with a new or existing support structure must not obstruct access to:

1. any existing above-ground or underground right-of-way user facilities, or public facilities;
2. any public infrastructure for traffic control, streetlight or public transportation purposes, including without limitation any curb control sign, parking meter, vehicular traffic sign or signal, pedestrian traffic sign or signal, barricade reflectors;
3. any public transportation vehicles, shelters, street furniture or other improvements at any public transportation stop (including, without limitation, bus stops, streetcar stops, and bike share stations);
4. fire hydrants;
5. any doors, gates, sidewalk doors, passage doors, stoops or other ingress and egress points to any building appurtenant to the right-of-way; and/or
6. any fire escapes.

Section 4. New and Replacement Support Structures

New Support Structures: Any new support structures shall be placed:

1. a minimum of 250 feet from any existing support structure or pole.
2. at a distance which is the same as the prevailing separation distance among existing structures and poles in the surrounding vicinity as agreed upon by the applicant and City, or determined by the City where agreement cannot be reached.
3. as functional streetlights as the City may require, in its reasonable discretion.
4. in alignment with existing trees, utility poles, and streetlights.
5. an equal distance between trees when possible, with a minimum of 15 feet separation such that no proposed disturbance shall occur within the critical root zone of any tree.
6. with appropriate clearance from existing utilities.
7. outside of a 20-foot equipment clear zone (for base cabinets less than 18-inches in diameter) or 30-foot clear sight triangle (for base cabinets equal to or greater than 18-inches in diameter) at intersection corners.
8. so as not to be located along the frontage of a Historic building, deemed historic on a federal, state, or local level.
9. so as not to significantly create a new obstruction to property sight lines.
10. at shared property lines if feasible.
11. not within 50 feet of the apron of a fire station or other emergency service responder facility.
12. outside of the clear zone for trails, sidewalks and streets as appropriate.

Replacement of City-Owned Support Structures: Any replaced support structures shall remain in their existing location unless otherwise permitted by the City. Replacement pole height shall not exceed 50 feet, or the height of the existing pole, whichever is greater.

New and Replacement Structures. All support structures must:

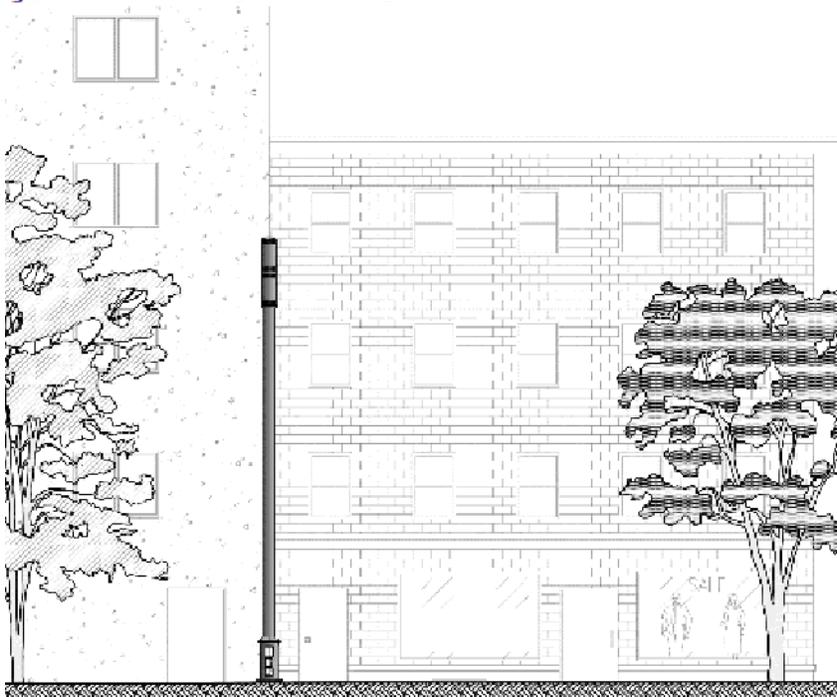
- be constructed of aluminum or steel.
- not exceed 50 feet in total height, or 10 feet above the height of the existing pole, whichever is greater

- where constructed as a light pole, luminaire(s) and luminaire arm(s) must match adjacent city lighting standard and must contain an LED fixture in accordance with City specifications.

Figure 4-1: Example of Acceptable Location Between Residential Homes



Figure 4-2: Example of Acceptable Location Between Commercial Buildings



Section 5. Menu of Options

The pictures and profile drawings below represent appropriate installation designs for small wireless facilities installations on new and existing support structures in the right of way.

Figure 5-1: Combination Pole with Antenna

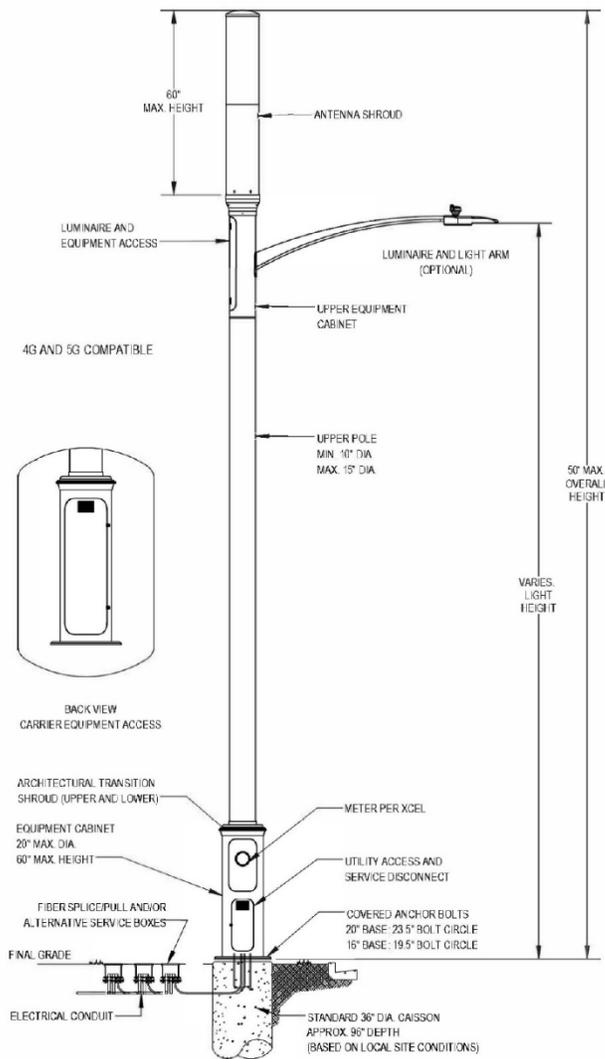


Figure 5-2: Combination Pole with Antenna and Equipment Shroud

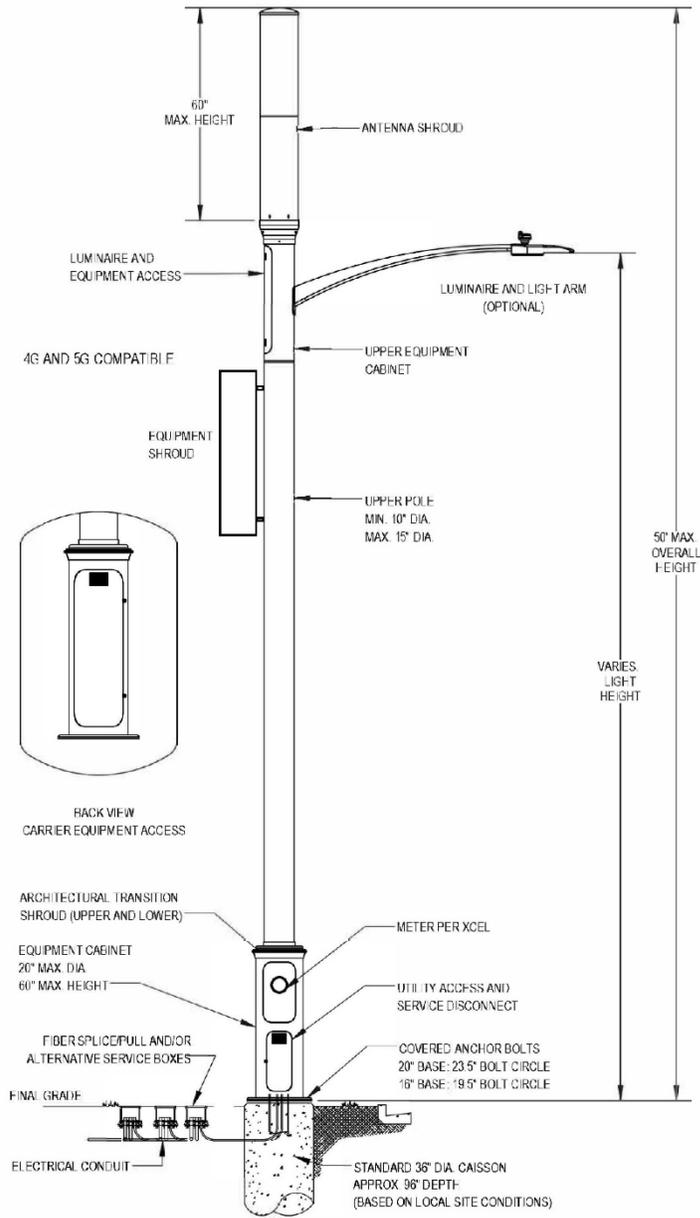


Figure 5-3: Freestanding Small Cell Assembly

