

Exhibit 1
SWF and Similar Structures Guidelines

An Applicant proposing to attach to a streetlight, utility pole, or other structure in the Town's public right of way shall comply with the following design specifications:

Pole location:

- 1) Applicants shall utilize existing pole locations.
- 2) Any new pole locations are prohibited unless approved through the grant of location process, or any other applicable legal requirement, for new poles.
- 3) SWF within a historic district location or along a scenic corridor may not utilize a top-mounted design.
- 4) SWF equipment and antennas shall be located on poles such that they do not fall within the horizontal plane defined by a 45 degree angle extending 50 feet from the center point of upper story windows, doors, balconies, and other openings.
- 5) No SWF shall be installed on a double pole, hazardous pole, or condemned pole or within 500 feet of an Applicant's double pole, hazardous pole, or condemned pole.
- 6) No SWF shall be installed before removal of any of the Applicant's equipment located within 500 feet of the proposed installation which has ceased to operate for more than 60 days.
- 7) No SWF equipment or antennas shall be installed suspended between poles.

Underground design:

- 1) Radio equipment shall be placed in an underground vault in the pedestrian right of way.
- 2) The antennae shall be placed in a shroud at the top of a nearby pole.
- 3) Underground vaults shall be the minimum volume necessary to house SWF equipment. Application materials should explain why the proposed dimensions are required.
- 4) In no event shall vault dimensions exceed 5 feet 8-inches x 8 feet 2-inches x 5 feet 7-inches or 260 cu. ft., excluding space required for ventilation or sump pump equipment.

Top-mounted design

- 1) All SWF equipment shall be enclosed within a shroud at the top of the pole containing both radio and antenna equipment.
- 2) The diameter of the antenna and shroud shall not exceed 15" at their widest.
- 3) Top-mounted equipment shrouds shall not exceed 5.5 feet from the top of the pole or bayonet attachment, if one is used, and shall taper to meet the pole above the mast arm.

Minimal sunshield design

Radio equipment shall be enclosed within one or two sunshields not exceeding 8 inches wide nor 0.75 cubic feet in volume each, mounted directly to the side of the pole. Sunshields shall be attached at least 12 feet above ground level. To the extent separate antennae are required, antennae shall be placed in a shroud at the top of the pole.

Existing signage

Radio equipment shall be attached to a pole behind existing signage under the following conditions:

- 1) Radio equipment shall be placed within a shroud that does not exceed the dimensions of the sign in height and width, nor 4 inches in depth, including any required mounting bracket.
- 2) In no event shall SWF equipment obscure or interfere with the visibility or functioning of the signage.
- 3) To the extent separate antennae are required, antennae shall be placed in a shroud at the top of the pole.

SWF equipment and shrouds:

- 1) Antennae shall be the smallest antennae possible to achieve the coverage objective.
- 2) Except in the case of top-mounted designs, antennae shall not exceed 3 feet from the top of a streetlight pole or 5.5 feet from a wooden pole or bayonet attachment.
- 3) The associated “antenna skirt” shall taper to meet the pole above the mast arm. The diameter of the antenna and shroud shall not exceed 15” at their widest.
- 4) Bayonet attachments and equipment or antennae at the top of the shroud shall be covered by a single integrated shroud and “antenna skirt” that shall meet the pole without any gaps. All conduit shall be mounted flush to the pole.
- 5) All shrouds and equipment shall be painted to match Department of Public Works (DPW) standards or the existing pole, as applicable. Paint shall be maintained regularly and shrouds shall be repainted if necessary to match changes in the pole color over time.
- 6) All shrouds and equipment shall be designed without gaps between materials or sky visible between component surfaces.
- 7) Equipment that cannot propagate an adequate signal within the shrouding required by the standard designs shall be attached to a streetlight pole at a height of 2 feet below the light mast or higher, or, for wooden poles, on a cross arm or brace protruding from the pole to the minimum extent necessary to comply with safety standards. Each instance of such equipment shall not exceed 0.85 cu. ft. nor shall the total volume of such equipment and any shrouding exceed 2.6 cu. ft. per streetlight pole.

Height

- 1) Except for top-mounted designs, poles and all attachments will not exceed the height of similar surrounding poles by more than 3 feet. For top-mounted designs, poles and all attachments shall not exceed the height of the pole by more than 6 feet.
- 2) Replacement poles will conform to DPW style guidelines where the Town’s DPW has adopted standards and will match the pole being replaced where no standards exist. For integrated pole designs, poles shall incorporate decorative elements (e.g. fluting, decorative mast arm and luminaire, etc.) from DPW standards or existing poles, as applicable.
- 3) For wood utility poles carrying power lines, replacement poles and pole-top bayonet attachments shall be the minimum height necessary to provide adequate and safe clearance between SWF equipment and power lines.

- 4) In no event shall the total height of a pole or replacement pole, including all SWF equipment, exceed 55 feet.

Landscaping and Trees

- 1) At the direction of the Tree Warden, the Applicant shall plant street trees to screen views of SWF equipment where the Tree Warden determines appropriate space exists.
- 2) Any existing landscaping removed or damaged by installation shall be replaced in kind.
- 3) All SWF must be installed in compliance with the Town's tree bylaw.
- 4) No trees shall be removed or have their root zones or protected zones impacted by installation. The protected zone shall be equal to one foot for each inch of the tree's diameter measured at 4' 6" from grade, or a minimum of fifteen feet (15'), whichever is greater. The protected zone shall be measured from the outside of the tree to protect root growth.
- 5) Tree "topping" or the improper pruning of trees is prohibited. Any proposed pruning must be noted in the application and must be approved by the Tree Warden.

Curb clearances

- 1) If placed below 16' above ground level, attachments shall not be placed closer than 18" to the curb, nor shall they extend over the sidewalk.
- 2) SWF equipment must be at least 3' from a curb cut.

Additional Design Standards

- 1) All cabling shall be routed entirely within the pole or an attached shroud.
- 2) Safety signage shall be the smallest size possible to accomplish its purpose.
- 3) Power disconnects shall be placed in a vault near the base of the pole.
- 4) Except as provided in these standards, no SWF equipment cabinets may be placed at grade.
- 5) Light mast orientation, height, color temperature and other photometric information shall comply with Department of Public Works standards. SWF shall not be separately lighted.
- 6) No SWF installation shall impede, obstruct, violate, conflict with, hinder, or make unsafe any mode of travel over or access to any public street, bridge, tunnel, highway, lane, path, alley, sidewalk, or driveway or hinder the operation or access to traffic signals, streetlights, or fire hydrants.
- 7) No SWF shall be installed with a fossil fueled backup generator.
- 8) SWF installed in residential zones shall use a passive cooling system.