Boulder County

Community Planning & Permitting

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Small Cell Wireless Facility Design Requirements and Guidelines

1. Applicants should work with the County and relevant third parties to locate small cell wireless facilities based on the following order of preference for location and deployment:
   a. Small cell facilities should be collocated and attached to existing and previously approved small cell facilities.
   b. Small cell facilities should be attached to or replace available existing structure previously approved in the County Right of Way (ROW).
   c. New freestanding small cell facility poles shall be built in a manner that allows for collocation.
2. Any new pole with an antenna must be architecturally consistent with the surrounding area by:
   a. Utilizing one of the following configurations:
      i. Replacing existing permitted facilities (including without limitation, traffic signs, traffic signals, light poles or light standards) so that the presence of the small cell facility is not readily apparent;
      ii. Integrating the equipment in an architectural feature of an existing structure; Integrating or attaching equipment to an outdoor fixture such as a traffic signal, light standard, utility pole or flagpole;

      AND
   b. Using a design which mimics or is consistent with the nearby natural or architectural features; and
   c. Using a design that is consistent with the size and shape of the pole-mounted equipment installed by communications companies on utility poles within three hundred feet of the facility.
3. All small cell equipment and required structures, including, but not limited to, antennas and meters, must be housed internally within in the pole or alternative tower structure hosting the small cell facility. This requirement may be waived by the Director of the Community Planning & Permitting Department, in whole or in part, where it is technically infeasible to internally house the requisite components.
4. Ancillary equipment that is not integrated into the pole such as cabinets, or boxes shall be located below grade. This requirement may be waived by the Director of the Community Planning & Permitting Department, in whole or in part, where it is technically infeasible to house such structures below grade.
5. The siting map must clearly delineate the floodplain and floodway boundaries.
6. Small cell wireless facilities shall be separated from all other wireless communication facilities and small cell facilities within the right-of-way by a distance of at least six hundred feet, unless the facility replaces an existing traffic signal, street light pole or similar vertical infrastructure. Freestanding small cell poles shall be staggered on alternating sides of the street where feasible. The Community Planning & Permitting Director may exempt an applicant from this requirement if: the applicant demonstrates through technical network documentation that the minimum separation requirement cannot be satisfied for technical reasons, or the Community Planning & Permitting Director determines, when considering

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the surrounding topography, the nature of adjacent uses and nearby properties and the height of the existing structures in the vicinity, that the placement of a small cell wireless facility at a distance less than 600 feet from another small cell wireless facility in the public right of way will meet the intent of reducing visibility and visual clutter of the small cell wireless facilities.

7. Any stand-alone small cell wireless facility shall not block windows or building entrances
8. Small cell wireless facilities and equipment shall not be installed within the dripline of any tree.
9. All poles and related appurtenances shall be located to ensure proper sight-triangles.
10. All poles and related appurtenances shall be located outside the specified clear zone for the facility on which it is located as specified in the Boulder County Multi Modal Transportation Standards.
11. Poles and related appurtenances shall not interfere with traffic operations or with approved Traffic Control Devices.
12. Poles and related facilities shall not encroach into or interfere with pedestrian ways such as sidewalks, trails, or transit stops or facilities.
13. Proposed locations of poles and related appurtenances shall be reviewed relative to future county capital improvements.
14. Small cell wireless facilities shall not be allowed within historic districts or land owned or maintained by the Boulder County Parks and Open Space, City of Boulder Open Space and Mountain Parks properties, or any other open space properties at the request of the jurisdiction who owns the property, including conservation easements. The Community Planning & Permitting Director may waive this prohibition if he or she determines that it is appropriate to do so based on consideration of technological feasibility, environmental and visual impacts, and any other relevant considerations based on the Boulder County Comprehensive Plan.
15. Small cell wireless facilities shall be located to ensure minimal impacts to view protection corridors.
16. Small cell wireless facilities must not conflict with the Boulder County Comprehensive Plan goals, policies, and mapped features.
17. All small cell wireless facilities shall meet the current standards and regulations of the FAA, the FCC and any other agency of the federal governments with the authority to regulate small cell facilities. If the standards and regulations are changed, then the owners of the small cell facilities shall bring such facility into compliance with such revised standards and regulations within the time period mandated by the controlling federal agency.