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BOULDER COUNTY PLANNING COMMISSION

Wednesday, July 17, 2019, at 1:30 p.m.

Commissioners' Hearing Room, Third Floor Boulder County Courthouse, 1325 Pearl Street, Boulder, CO

PUBLIC HEARING

Docket DC-19-0001: Proposed Boulder County Land Use Code Amendments to Article <u>4-514 Telecommunication Facilities.</u>

Staff: Kathy Sandoval, Planner II, Land Use Jacey R. Cerda, Assistant County Attorney, Boulder County Attorney

AGENDA

- 1. Staff presentation and Planning Commission clarifying questions
- 2. Public Hearing
- 3. Planning Commission deliberation and decision

INTRODUCTION

On February 14, 2019, the Board of County Commissioners (BOCC) authorized staff to pursue text amendments to the Land Use Code. The Code needs amendment to streamline and clarify Code provisions, and provide for appropriate Land Use review of telecommunications facilities, including Small Cell Wireless Facilities (SCWF). The amendment is timely and necessary because the Federal Communications Commission (FCC) recently updated its interpretation of the Telecommunication Act of 1996 with regards to local government regulation of all types of telecommunication facilities, and issued new orders regarding SCWF that restricted the following: (1) the allowed timeline for local government review and approval of SCWF; (2) the amount of fees local governments may require for approval, siting, and permitting processes; and, (3) the type of aesthetic and design requirements local governments may place on SCWF. Furthermore, relevant Colorado statutes were revised in April 2017 in anticipation of the future deployment of SCWF, and those statutes substantially reflect the FCC's interpretations and orders restricting local government regulation of SCWF.

ACTION REQUESTED

Staff requests that the Planning Commission (PC) recommend BOCC approval of the Land Use Code text amendments proposed in Attachment A.

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I. OBJECTIVES AND SCOPE OF PROPOSED AMENDMENTS

The purpose of this Code amendment is to ensure compliance with the FCC's September 26, 2018 Declaratory Ruling and Third Report and Order ("Order") interpreting the Telecommunications Act of 1996 and providing rules for streamlining state and local review of SCWF siting applications. The Order further limits local authority regarding the placement, construction, and modification of wireless telecommunication facilities, particularly as related to SCWF, thus requiring an update to the county's Code regarding such facilities. Additionally, Staff identified opportunities to streamline and clarify existing Code provisions related to telecommunication facilities overall and provide for Land Use review processes applicable to the development of SCWF.

In contrast to macro-cell telecommunication facilities (i.e. towers greater than 50 feet tall with large accessory buildings and structures) that provide overall coverage for wireless telecommunications, SCWF enhances the capacity for and speed of data usage. SCWF are therefore typically deployed in areas with heavy demand for data (e.g. public squares, downtown pedestrian areas, campuses, sport stadiums, etc.). SCWF will likely need to be on new towers or existing vertical infrastructure (e.g. utility poles) every 200 to 600 feet and will primarily be located in the county's ROWs. Federal and state law preempts the county's ability to regulate SCWF, other than regarding aesthetic, fee, and permitting requirements that are reasonable, objective, and published in advance (see Attachment B). Given these regulatory limits, staff proposes to process SCWF through a new Administrative Review process as outlined below.

Scope of Proposed Text Amendments

- Revisions to the structure of the existing Code provisions related to telecommunications.
- Clarification of the Telecommunication Facility definition and addition of a definition for Small Cell Wireless Facility.
- Creation of Land Use process for Small Cell Wireless Facility applications and delineation of required application materials and processes.
- Addition of a new Administrative Review process in the Code.

II. BACKGROUND

Staff from Boulder County Land Use, Transportation, and the County Attorney's office identified key topics and priorities for the Code update and related regulations. The proposed Code language is informed by a literature review of FCC and state requirements, sample code examples from the National League of Cities/National Association of Telecommunications Officers and Advisors, and from other County and City jurisdictions. Staff met with telecommunication industry representatives ("carriers") to better understand SCWF and the carriers' intentions for deployment of SCWF, technological requirements, and carriers' suggested Code language. Staff also hosted a local planner meeting with representatives from the Cities of Boulder, Longmont, and Lafayette, and the Town of Nederland to better understand those jurisdictions' processes and requirements for SCWF.

Staff found that several jurisdictions utilize a master license agreement (MLA) with individual carriers to delineate requirements that will apply to all of that carrier's proposed SCWF, with an additional supplemental site application delineating the requirements specific to each individual proposed tower or other facility. Staff thus reviewed several MLAs from other jurisdictions. Staff also reviewed the code requirements and design guidelines used by other local jurisdictions. The Land Use and Transportation Departments collaboratively reviewed the current ROW permitting process for utility installation. Staff then determined that because the majority of SCWF will be in the county's ROWs, Boulder County will use a similar process to many of the other local jurisdictions for each proposed SCWF, and the County Attorney's office is in the process of drafting a template MLA for the county.

Staff further determined that a new Land Use Administrative Review process provided the appropriate regulatory tool necessary to facilitate processing SCWF applications within the shot clocks required by the FCC Order, and developed the Small Cell Wireless Facility Design Requirements and Guidelines that carriers must adhere to for approval of proposed SCWF. The proposed Code language is informed by the above described research and collaborative meetings, along with additional activities conducted as part of the Code update process, as summarized in Table 1. Table 1. Summary of Telecommunication Related Land Use Code Update Activities

Activity	Timeframe (2019)
BOCC Authorization	February 14
Literature review of other jurisdictions' codes, sample design guidelines and additional research	March-April
Meeting with Industry representatives	April
Meeting with Boulder County Planners from other jurisdictions	April
Additional research regarding Master License Agreements and Supplemental Site Applications	April-June
Drafting of proposed Code changes and Small Cell Wireless Facility Design Requirements and Guidelines, including public referral comment period	May-July
PC public hearing and recommendation	July 17
BOCC public hearing and decision	August TBD

III. EXPLANATION OF PROPOSED AMENDMENTS

This section presents a summary of proposed Code changes, by topic. Additional details regarding the proposed changes, are available in Attachment A.

Addition to Article 3-100 (B)(1)(j) & Article 3-202(15) to define the process for application submittal

This section defines the requirements under the Supplemental Site Application for Small Cell Wireless Facilities. The process requires a signed Master License Agreement with the County; after which an application can be submitted through the Administrative Review process for specific facilities. The Supplemental Site Application will include the application form, vicinity map, site plan with GIS coordinates for the proposed tower(s), utility report and map, utility construction permit, engineering report, building and electric permits, written consent from Utilities and ROW owners (e.g. Xcel or CDOT), written consent from fiber optics owners if applicable, referral packet, and the Small Cell Wireless Facility Submittal Check List. The application also requires carriers to adhere to the Small Cell Wireless Facility Design Requirements and Guidelines (DRG) and allows carriers to submit up to 20 towers per supplemental site application.

Define Telecommunication Facility and add Small Cell Wireless Facility

The current Code of (4-514.O and P) contains the definition for a traditional, macrocell telecommunication facility only (the current Code does not use the term macro-cell; however, the proposed Code updates now use this term) and outlines the different requisite Land Use processes for those facilities depending on the proposed facility's height, location, and whether it is a new structure. The proposed Code language updates outdated Code references and clarifies the definition of Telecommunication Facility as it relates to 47 U.S.C. Section 332 (c) (7)(C) of the Telecommunications Act of 1996. The proposed Code language also defines SCWF as described in section 29-27-402(4)(a) of the Colorado Revised Statutes, and thereby distinguishes SCWF from Macro-Cell Facilities. The height and placement requirements for traditional Macro-Cell Facilities remain unchanged from the existing Code provisions.

The addition of Article 4-700: Administrative Review Process

Currently, the Code allows for staff to administratively review a variety of different application types that are deemed unnecessary for the PC or BOCC to review. These administrative review processes are currently described in each applicable section of the Code. However, Staff believes that the Code will be clearer if all application types subject to administrative review were described and listed in a separate section of the Code. Staff thus added the new section Article 4-700: Administrative Review Process. Through this Code update, the only application type that will be listed under Article 4-700 will be for SCWF applications. However, Staff anticipates that as Code updates in other Articles occur, Article 4-700 will also be updated with the other application types subject to the Administrative Review Process.

Staff determined that SCWF applications will be subject to the new Administrative Review process in order to comply with the FCC's approval timelines (shot clocks). The FCC's shot clocks require local governments to completely process and issue all necessary permits for SCWF in 60 days when the proposed SCWF is collocated on existing infrastructure, or 90 days for new structures.

IV. DESIGN GUIDELINES

Staff determined that because telecommunication technology often evolves quite rapidly, it was necessary to develop Design Requirements and Guidelines ("DRG") for SCWF that carriers are required to adhere to per the Code. However, the DRG are not within the Code itself so that the DRG may be updated at the pace of technology emergence, rather than having to go through a traditional Code update each time a new technology requires different DRG. These DRG will be revised as appropriate to address technological changes in the telecommunication industry, in accordance with state and federal law, and as necessary to provide for the safe and appropriate function of the public ROWs.

The DRG for the location of SCWF are intended to ensure a thorough and consistent review of these proposals without creating barriers to deployment of wireless communication services, and in accordance with state and federal law. The DRG outline the preferred order of location and deployment; the need for architectural consistency with vertical infrastructure in the surrounding areas, including harmonious integration with existing poles, traffic signals, lighting poles and other architectural features of existing structures; and to ensure public health and safety.

V. SUMMARY OF REFERRAL FEEDBACK AND RESPONSES

Staff circulated a <u>referral packet</u> in late June to solicit public feedback on draft Code changes. Staff received 12 responses from referral agencies and none from the public. Only two referral agencies responded with comments the others responded with no comment. County staff also received internal feedback from other county departments. This section summarizes the comments received, as well as changes made in response to those comments.

Verizon's Referral Comments:

- Height requirements not listed for SCWF that attach to or replace existing poles
 - Staff reviewed this comment and added additional language reflecting that SCWF must be consistent with the applicable zoning district height limits.
- Traffic Control Plan should be a Condition of Approval not a part of the application
 - Staff reviewed this comment and agreed with Verizon that because of timing issues, it is more appropriate to require a Traffic Control Plan as part of the Utility Construction Permit under conditions of approval, rather than as part of the application packet.

• Proposed additional language to the new Administrative Review section

• Staff reviewed this comment and understands that the FCC imposed shot clocks on local governments, and that the county's authority is limited by other provisions in the FCC's Order. However, the county does not find it necessary to add Verizon's proposed language into the Code as staff consistently follows federal and state requirements for all Land Use applications and processes without explicitly incorporating each and every statute into the Code.

• Distance requirements of poles

• Staff reviewed this comment and finds that Verizon's proposed language is consistent with other jurisdictions and has adjusted the proposed Code to include Verizon's suggested language.

• Undergrounding requirement for ancillary equipment and structures

- Staff reviewed this comment and finds that Verizon's proposed language is inappropriate for the DRG regarding ancillary equipment. However, Staff has deemed it appropriate to allow the County Engineer to waive this requirement when he or she determines that it is technologically infeasible to place ancillary equipment and structures underground.
- No SCWF in Historic Districts or county Open Spaces

Staff reviewed this comment and finds that there may be limited situations in which it is appropriate to place a SCWF on land owned or maintained by county Parks and Open Space (POS) or City of Boulder Open Space and Mountain Parks (OSMP), which paragraph 14 of the proposed DRG language currently prohibits. For example, a SCWF may be appropriate next to disturbed areas on POS or OSMP land, such as bathrooms at trail heads, or sports recreation areas (e.g. baseball diamonds). As a result, staff changed the proposed Code language to allow the Land Use Director to 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 other considerations the Land Use Director deems appropriate to review in determining whether this prohibition may be waived.

City of Boulder -Open Space and Mountain Parks (OSMP)

- SCWF impact on public view shed for open space properties and as perch sites for birds; and request to prohibit SCWF on OSMP as well as county-owned open space.
 - Staff reviewed these comments. The proposed Design Requirements and Guidelines currently do not allow SCWF to be placed in any county open space without waiver by the Land Use Director. The county is willing to include OSMP property into this language.
 - The county has already indicated in the DRG (i.e. paragraph 15) that visual impacts shall be minimized.
 - Staff agrees with OSMP that it is appropriate to require that if any towers or poles are placed within or near any property owned or maintained by OSMP or POS that those towers or poles shall be designed to minimize the potential for birds to perch upon them.

VI. RECOMMENDATION

Amendments to the Land Use Code require approval by the Board of County Commissioners, upon recommendation of the Planning Commission.

Text Amendment Criteria

Article 16-100.B. contains the criteria for amending the text of the Land Use Code. Staff finds that the proposed amendments in this Docket meet the following criteria:

- 1. the existing text is in need of the amendment;
- 2. the amendment is not contrary to the intent and purpose of this Code; and
- 3. the amendment is in accordance with the Boulder County Comprehensive Plan

Action Requested

Staff requests that the PC recommend BOCC approval of the Land Use Code text amendments proposed in Attachment A.

Small Cell Wireless Code Update

Article 3-100. (B)(1)(j) Development Related Permits [Add Small Cell Wireless to list]

<u>Small Cell Wireless Facility Supplemental Site Application – administrative review for the siting of</u> <u>Small Cell Wireless Facilities.</u>

<u>Article 3-202.15 (renumber section)</u> Addition of Application Submittal Requirements for Small Cell Wireless Facilities

Small Cell Wireless Facility Supplemental Site Application

- a. <u>No small cell facility installation shall be constructed, erected, modified, operated or</u> <u>maintained on County property, including the public right-of way, without a Master License</u> <u>Agreement in effect between applicant and the County.</u>
- b. <u>Application Form(s)</u>, <u>Project Description and Fee</u>
- c. <u>Vicinity Map</u>
- *d.* <u>Site Plan with GIS coordinates (X,Y) for the proposed tower</u>
- e. <u>Utility Report and Map</u>
- f. <u>Utility Construction Permit</u>
- g. Engineering Report
- h. <u>Building and Electric Permits</u>
- *i.* <u>Written Consent from Utilities and non-county ROW owners (e.g. CDOT, Xcel)</u>
- *j.* <u>Written Consent from fiber optics owners if applicable</u>
- k. <u>Master License Agreement</u>
- l. <u>Referral Packet</u>
- m. Small Cell Wireless Facility Submittal Checklist
- *n.* <u>Affidavit Demonstrating Compliance with the Small Cell Wireless Design Requirements and</u> <u>Guidelines</u>
- *c. Carriers may submit up to 20 poles per supplemental site application; however, subsections* <u>(c)- (k) will be required for each tower location.</u>

<u>Article 4-514</u> Revised Telecommunication Facility section to incorporate the Small Cell Wireless Facilities with the current Telecommunication Facilities.

O. Telecommunications Facility, utilizing an existing structure and meeting the height requirements of the district in which the facility is located.

1. Definition: A facility used for the transmission or reception of electromagnetic or electro-opticinformation, which is placed on an existing structure, may or may not require accessory structures, andmeets the height requirements of the district in which it is located. This use does not include any otheruse listed in this Code, devices not used for communication, or radio frequency machines which have an effective radiated power of 100 watts or less.

2. Districts Permitted: By right in all districts

3.Parking Requirements: None

4.Loading Requirements: None

5.Additional Provisions:

- **b.** A separate accessory equipment building is allowed as long as it is no more than 10% of the
- gross floor area of all existing permitted structures on the parcel or 450 square feet, whichever is less.

c. Site Plan Review is required for this use.

P.-Telecommunications Facility, requiring a new structure or accessory structure exceeding the height limitation of the district in which the facility is located, or exceeding the accessory building size limitations-set forth in subsection (O) immediately above.

1. Definition: A facility used for the transmission or reception of electromagnetic or electro-opticinformation, which is placed on a new structure, requires accessory structures, or exceeds the heightrequirements of the district in which it is located. This use does not include any other use listed in this-Code, devices not used for communication, or radio frequency machines which have an effective radiatedpower of 100 watts or less.

2.-Districts Permitted: By Special Review in all districts

3. ParkingRequirements: None-

4. Loading Requirements: None

5.Additional Provisions:

a. In addition to the general requirements for approval of a special use permit, telecommunication facilities shall also be subject to the requirements outlined in Section 4-600 of this Code.

b. This use is not required to be located on a building lot, or comply with the minimum lot size requirement for the district in which it is located.

O. Telecommunications Facility

- Definition: A facility used to provide personal wireless services as defined at 47 U.S.C. Section 332

 (c)(7)(C); or wireless information services provided to the public or to such classes of users as to
 be effectively available directly to the public via licensed or unlicensed frequencies; or Smart City,
 Internet of Things, wireless utility monitoring and control services. A Telecommunication Facility
 does not include a facility entirely enclosed within a permitted building where the installation
 does not require a modification of the exterior of the building; nor does it include a device
 attached to a building, used for serving that building only and that is otherwise permitted under
 other provisions of the Code. A Telecommunication Facility includes an Antenna or Antennas,
 including without limitation, direction, omni-directional and parabolic antennas, support
 equipment, Alternative Tower Structures, and Towers. This use does not include any other use
 listed in this Code, devices not used for communication, or radio frequency machines which have an
 effective radiated power of 100 watts or less.
 - a. <u>Small Cell Wireless Facility is defined as a facility that is mounted on structures 50 feet</u> or less in height including their antennas, and where each antenna is located inside an enclosure no more than three cubic feet in volume or, in the case of an antenna that has exposed elements, the antenna and all of its exposed elements could fit within an imaginary enclosure of no more than three cubic feet; and primary equipment enclosures are no larger than seventeen cubic feet in volume. The following associated equipment may be located outside of the primary equipment enclosure and, if so located, is not included in the calculation of equipment volume: electric meter, concealment, telecommunications demarcation box, ground-based enclosure, back-up power systems, grounding equipment, power transfer switch and cut-off switch and meets the height requirements of the district in which it is located.
 - b. <u>Macro-Cell Facility is defined as a facility used for the transmission or reception of</u> <u>electromagnetic or electro optic information for the purposes of providing coverage</u> <u>over large areas, greater than 50 feet in height, and primary equipment enclosures are</u> <u>greater than seventeen cubic feet in volume.</u>
 - c. <u>Eligible Facility Request is defined as any request for modification of an existing tower</u> or base station that does not substantially change the physical dimensions of such

tower or base station, involving: collocation of new transmission equipment; removal of transmission equipment; or replacement of transmission equipment.

- 2. Districts Permitted:
 - a. <u>For Small Cell Wireless and Eligible Facility requests, an Administrative Review as set</u> forth in Article 4-700 and the County Engineer or Land Use Director.
 - b. <u>For Macro-cell Facility placed on an existing structure that may require accessory</u> <u>structures and meets the height requirements of the district in which it is located, by Site</u> <u>Plan Review, subject to the requirements outlined in Section 4-800 through 4-806 of this</u> <u>Code.</u>
 - c. <u>For Macro-cell facility placed on a new structure or that exceeds the height</u> <u>requirements for the district in which it is located, by Special Review. In addition to the</u> <u>general requirements for Special Review, telecommunication facilities shall also be</u> <u>subject to the requirements outlined in Section 4-600 and Section 4-602.D of this Code.</u>
- 3. Parking Requirements: None
- 4. Loading Requirements: None
- 5. Additional Provisions:
 - a. <u>This use is not required to be located on a Building Lot or comply with the minimum lot</u> <u>size requirement for the district in which it is located.</u>
 - b. <u>All Telecommunication facilities shall comply with federal standards for radio frequency</u> <u>standards.</u>
 - c. <u>Applicant must comply with the Boulder County Land Use Department Small Cell</u> <u>Wireless Facility Design Requirements and Guidelines publication available at the Land</u> <u>Use Department.</u>
 - d. <u>For Macro-cell facilities a separate accessory equipment building is allowed as long as it</u> <u>is no more than 10% of the gross floor area of all existing permitted structures on the</u> <u>parcel or 450 square feet, whichever is less.</u>
 - e. Any small cell facility in the public right of way that is not used for a period of six months or more shall be deemed to be abandoned. The small cell facility owner or applicant shall remove a small cell wireless facility that is considered abandoned and if they fail to remove the abandoned facility the County may remove the small cell facility and charge the costs to the small cell facility owner.

Article 4-700 Administrative Reviews New review process in Article 4 for Administrative Reviews.

4-701 Purpose

A. <u>Administrative review is a review procedure for certain types of proposed development that are</u> <u>deemed in advance to not cause significant conflict with the Boulder County Comprehensive Plan</u> <u>and ensure compliance with the development standards of the County.</u>

4-702 Applicability and Scope of the Administrative Review Process for Development

- A <u>Administrative Review shall be required for the following:</u>
 - 1. Any Small Cell Wireless Telecommunications Facility
 - 2. <u>Eligible Facilities Request</u>
- B <u>Criteria</u>
 - 1. <u>Meets additional provisions of Use definition</u>
 - 2. <u>Administrative Reviews of Small Cell Wireless Telecommunication Facility are subject to the</u> <u>County's Design Requirements and Guidelines for Small Cell Wireless Facility.</u>

Small Cell Wireless Facility Design Requirements and Guidelines – Handout for design guidelines (not within Code)

- 1. Applicants shall 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 shall be collocated and attached to existing and previously approved small cell facilities.
 - b. Small cell facilities shall 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 Land Use 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 Land Use 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 Land Use 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 Land Use Director determines, when considering 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 or the City of Boulder Open Space and Mountain Parks properties, including conservation easements. The Land Use Director may waive this prohibition if he or she determine 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.

Small Cell Wireless Facilities Fact Sheet For Informational Purposes Only

Federal Definition

- Facilities mounted on towers less than 50 feet high.
- Antennas are no bigger than 3 cubic feet.
- **Base** structure is no bigger than **28 cubic feet** in volume (Colorado state law defines as less than 17 cubic feet in volume).

<u>Purpose</u>

- **Capacity** for data bandwidth.
- Tall towers are still necessary for coverage, small cell towers are necessary to densify the network such that there is enough bandwidth for the exponential growth in data usage.
- They are <u>not</u> solely for 5G. For example, Verizon is putting in small cell towers in City of Boulder now, for enhancing their 4G capacity; however, their poles will allow for 5G antennas to be mounted above the 4G antennas, when they are ready to roll out 5G.

Deployment

- The poles will likely all be in the ROW because they need 360 degrees.
- Some carriers (Verizon & AT&T) working with Xcel to replace light and other poles with their small cell poles.
- Carriers state that they need poles every 200 to 600 feet to provide the necessary density for data capacity.
- Poles must be connected to fiber and power.
- Carriers indicate they are not willing to collocate with each other at the moment due to interference, but they are willing to collocate on Xcel poles and other such infrastructure.
- Will "bundle" multiple poles into a single application typically 5-20 per app.

Telecommunications Act of 1996

- Sections 253(a) "No State or local statute or regulation, or other State or local legal requirement, may prohibit or have the effect of prohibiting the ability of any entity to provide any interstate or intrastate telecommunications service."
- Section 332(c)(7) "The regulation of the placement, construction, and modification of personal wireless service facilities by any State or local government or instrumentality thereof:
 - (I) shall not unreasonably discriminate among providers of functionally equivalent wireless services; and
 - (II) shall not prohibit or have the effect of prohibiting the provision of personal wireless services."
- Section 332(c)(7)(B)(ii) "A state or local government or instrumentality thereof shall act on any request for authorization to place, construct, or modify personal wireless service facilities within a reasonable period of time after the request is duly filed with such government or instrumentality, taking into account the nature and scope of such request."

FCC Third Declaratory Order

- Effective prohibition may occur from restricting entry of a new provider, materially inhibiting new services, or materially inhibiting existing services.
 - Essentially anything that <u>impedes</u> the provision of telecommunication service.
 - Fees may be considered an effective prohibition unless:
 - The following are presumptively reasonable:
 - (a) \$500 for non-recurring fees, including a single up-front application that includes up to five Small Wireless Facilities, with an additional \$100 for each Small Wireless Facility beyond five, or \$1,000 for nonrecurring fees for a new pole (i.e. not a collocation) intended to support one or more Small Wireless Facilities; and
 - (b) \$270 per Small Wireless Facility per year for all recurring fees, including any possible ROW access fee or fee for attachment to municipally-owned structures in the ROW.
 - Additional fees allowed only if the local government can show:
 - Fees are a reasonable approximation of costs;
 - Those costs themselves are inherently reasonable; and
 - Are non-discriminatory
 - Aesthetic requirements may also be considered an effective prohibition if too onerous; however, they are allowed under the following conditions:
 - They are reasonable technically feasible and reasonably directed to avoiding or remedying the intangible public harm of unsightly or out of character deployments.
 - They are no more burdensome than those applied to other infrastructure deployments; and
 - They are objective must incorporate clearly-defined and ascertainable standards, applied in a principled manner and <u>must be published in advance</u>.
- Shot Clocks
 - Full review including pre-app (if mandatory) all the way through to issuing all necessary permits
 - 60 days for collocation on pre-existing structures (Colorado law states 90 currently, but was enacted before FCC weighed in).
 - 90 days for new structure (Colorado law states 150 currently, but was enacted before FCC weighed in).
 - Shot clocks start when application submitted, local government has 10 days (Colorado law currently says 30 days) to state it is incomplete and restart clock, or the clock continues.

Colorado Law

- Local entity shall allow bundling of poles in application.
- CRS 29-27-404(3) "The siting, mounting, placement, construction, and operation of a small cell facility or a small cell network is a permitted use by right in any zone."
- CRS 38-5.5-103
 - (2) A political subdivision shall not discriminate among or grant a preference to competing telecommunications providers or broadband providers in the issuance

of permits or the passage of any ordinance for the use of its rights-of-way, nor create or erect any unreasonable requirements for entry to the rights-of-way for the providers.

- (3) A political subdivision shall not regulate a telecommunications provider or a broadband provider based upon the content or type of signals that are carried or capable of being carried over the provider's facilities; except that nothing in this subsection (3) prevents regulation by a political subdivision when the authority to regulate has been granted to the political subdivision under federal law.
- CRS 38-5.5-104
 - Any domestic or foreign telecommunications provider or broadband provider authorized to do business under the laws of this state has the right to construct, maintain, and operate lines of communication, switches, and related facilities, and communications and broadband facilities, including small cell facilities and small cell networks, and obtain a permanent right-of-way for the facilities over, upon, under, and across all public lands owned by or under the control of the state, upon the payment of just compensation and upon compliance with reasonable conditions as the state board of land commissioners may require.
- CRS 38-5.5-104.5
 - Except as provided in subsection (2) of this section and subject to the requirements and limitations of this article 5.5, sections 29-27-403 and 29-27-404, and a local government entity's police powers, a telecommunications provider or a broadband provider has the right to locate or collocate small cell facilities or small cell networks on the light poles, light standards, traffic signals, or utility poles in the rights-of-way owned by the local government entity; except that, a small cell facility or a small cell network shall not be located or mounted on any apparatus, pole, or signal with tolling collection or enforcement equipment attached.