

# Attachment A

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## Draft Conduit Specifications

## INSTALLATION REQUIREMENTS - CONDUIT FOR FIBER OPTIC CABLE

**Fiber Optic Cable Conduit:** Cables shall be run in conduit, except overhead and temporary installations, and where cables are run inside poles. Conduit and conduit fittings shall be Underwriter's Laboratory Inc. (UL) or Electrical Testing Laboratory (ETL) listed, and shall be UV-rated where located aboveground. Conduit shall be used to protect the cable from the top of the conduit riser to the span messenger where the cable is to be lashed. Ensure that the conduit fill ratio (outer cable diameter to inner conduit/duct diameter) does not exceed 50%. Install the conduit system so the fiber optic cable maintains a minimum bend radius of 20 times the cable diameter.

Conduit shall be laid to a depth of not less than 18 inches below grade in concrete sidewalk areas and not less than 30 inches below finished grade in all other areas. Excavation and backfill within the roadway shall conform to Figure EP-1 of the Design Criteria. New conduit shall not pass through foundations for standards. Existing substructure may require fiber placement in roadway.

Installation of conduit shall be as shown in the plans and in conformance with the National Electric Code (NEC). Provide all fittings and incidental materials necessary to construct a complete installation. Use approved methods for connecting inner duct or conduit within or between plowed portions, trenched portions, and bored portions.

**Fiber Optic Cable Locate Wire:** Locate wire shall be installed in the trench or bore with all underground conduits. Locate wire shall be installed above the conduit but not more than 3 inches. Do not install locate wire within a conduit containing fiber optic cable.

Terminate locate wires at the first and last pull boxes in the conduit run. Ensure that wire termination occurs only at the top of a pull box. Core-drill the access point wall at the conduit diameter and at the location indicated in the plans. After placement, apply a non-shrink grout or other acceptable material around the conduit/locate wire to seal the hole.

Make locate wire splices in a flush grade-level pull box. Ensure that locate wire splices at the pull box meet NEC requirements. Ensure that locate wire splices include a mechanical crimp connection with a butt sleeve, an oxide-preventing aerosol lacquer, mastic electrical splicing tape, and standard electrical tape using methods and materials approved by the Engineer. Perform continuity tests and insulation resistance tests on all locate wires. At the completion of the installation, provide the Engineer with as-built drawings that document all conduit and splice locations.

### Payment and Measurement

Payment for conduit placed in the ground or used on bridge decks will be based on the horizontal path of the installed conduit as measured in a straight line between the centers of pull boxes, cabinets, poles, etc. No allowance will be made for sweeps or vertical distances above or below the ground or the bridge deck.

The contract price paid per foot for furnishing and placing Conduit shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in furnishing and constructing the fiber optic cable conduit complete in place to the dimensions shown, including hardware, locate wire, testing, trenching, backfilling, and restoration as shown on the plans, as specified in the Standard Specifications, these special provisions, and as directed by the Engineer, and no additional compensation will be allowed therefor.

# Attachment B

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## Draft Master Lease Agreement

# Attachment C

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## Proposed Telecommunications Infrastructure Ordinance

**ORDINANCE ADDING CHAPTER 12.25 TO SANTA CRUZ COUNTY CODE  
RELATING TO TELECOMMUNICATIONS INFRASTRUCTURE IMPROVEMENTS**

The Board of Supervisors of the County of Santa Cruz ordains as follows:

**SECTION I**

Chapter 12.25 of the Santa Cruz County Code is enacted to read as follows:

**TELECOMMUNICATIONS INFRASTRUCTURE IMPROVEMENT ORDINANCE**

**Sections:**

**12.25.010 Purpose and Findings.**

**12.25.015 Definitions.**

**12.25.020 Telecommunications Infrastructure Improvement.**

**12.25.025 Implementation.**

**12.25.030 Exemptions.**

**12.25.035 Enforcement.**

**12.25.040 Violations.**

**12.25.045 Severability.**

**12.25.050 Effective Date.**

**12.25.055 No Conflict with Federal or State Law.**

**12.25.060 Preemption.**

**12.25.010 Findings and intent.**

A. It is the intent of the County of Santa Cruz, in enacting Chapter 12.25, to streamline and simplify the process of installing and upgrading telecommunications equipment throughout the County, and to encourage improvement and modernization of telecommunications infrastructure.

B. Access to modern telecommunications infrastructure is vital for communication, education and economic development.

C. It is the desire of the County to foster a fair and level playing field for all market competitors that does not disadvantage or advantage one service provider or technology over another.

D. The County seeks to promote widespread access to the most technologically advanced telecommunications services for all County residents and businesses in a nondiscriminatory manner regardless of socioeconomic status.

E. It is the responsibility of the County to protect and control access to public rights-of-way.

F. The County has a duty to ensure that all service providers utilizing County property, facilities or rights-of-way comply with all applicable state and local health, safety and other laws.

G. It is consistent with the County's goals and values to encourage investment in telecommunications infrastructure to help close the digital divide.

0590

H. It is necessary to update County policies and practices to recognize the authority of the California Public Utilities Commission as established in state and federal statutes.

I. It is the desire of the County to assess fees sufficient to recover the actual costs of providing services but not to discourage improvement of necessary infrastructure.

**12.25.015 Definitions.**

A. For the purposes of this Chapter, the following definitions apply:

1. "Telecommunications" refers to data, voice, video or other information provided by wire, fiber optic cable or other technology.
2. "Facilities" and "Infrastructure" refers to wires, cables, conduit, switches, transmission equipment or other equipment for use in transmitting or processing telecommunications services or for providing support or connection to such equipment.
3. "Rights-of-way" refers to the area upon or adjacent to any County-owned road, highway or rail line or along or across any of the waters or lands owned or controlled by the County.
4. "Service providers" refers to any person, company, corporation or other entity providing data, voice, cable, video or other information services by wire, fiber optic cable or other technology.
5. "Excavation" refers to any process which removes material from the ground through digging, drilling, boring or other activity for the purpose of installing utilities, infrastructure or other structures or equipment.
6. "Conduit" refers to a tube, duct or other device or structure designed for enclosing telecommunication wires or cables.
7. "Reconstruction" refers to any project which repairs or replaces fifty percent or more of an existing road, highway or rail line.

**12.25.020 Telecommunications Infrastructure Improvement**

In recognition of the need to provide local residents and businesses within the community with the infrastructure required to meet their telecommunications needs, all construction, reconstruction or repaving of a County right-of-way will include provisions for the installation of telecommunications cable, conduit and other related equipment wherever practical and feasible. Where appropriate, telecommunications infrastructure shall be installed in or adjacent to County rights-of-way in conformance with current County standards. County staff will work with contractors to identify most cost-effective approach consistent with County requirements. If a project includes excavation in or adjacent to a County right-of-way, installation of or upgrades to telecommunications cable, conduit or other infrastructure will be included as needed. All installations shall conform to the size, shape, location and other specifications as determined by the Director of Public Works.

**12.25.025 Implementation.**

No less than 60 days before this ordinance takes effect, the County of Santa Cruz shall e-0591 mail, fax, mail or deliver a copy of it to all telecommunications service providers and other affected entities doing business within the unincorporated County of Santa Cruz.

**12.25.030 Exemptions.**

A. The Director of Public Works, or the director's designee, may exempt projects from the requirements of this chapter where compliance is found to be not practical or feasible. Requests for an exemption shall be in writing, and the Director's or the director's designee's decision shall be final.

B. An exemption application shall include all information necessary for the Director of Public Works or the director's designee to make a decision, including but not limited to documentation showing factual support for the requested exemption.

C. The Director of Public Works or director's designee may approve the exemption application in whole or in part, with or without conditions.

**12.25.035 Enforcement.**

Enforcement of this ordinance shall be as follows:

A. The Director of Public Works, or designee, shall have primary responsibility for enforcement of this ordinance and shall have authority to issue citations for violation of this chapter. The Director, or designee, is authorized to establish regulations or administrative procedures to ensure compliance with this chapter.

B. A person or entity violating or failing to comply with any of the requirements of this chapter shall be guilty of an infraction.

C. The County of Santa Cruz may seek legal, injunctive, or any other relief to enforce the provisions of this chapter and any regulation or administrative procedure authorized by it.

D. The remedies and penalties provided in this chapter are cumulative and not exclusive of one another.

E. The Director of Public Works or designee may inspect the premises of any construction, reconstruction, repaving or excavation project to verify compliance with this ordinance.

**12.25.040 Violations.**

Violations of this ordinance shall be enforced as follows:

Violation of this chapter is hereby declared to be a public nuisance. Any violation described in the preceding paragraph shall be subject to abatement by the County of Santa Cruz, as well as any other remedies that may be permitted by law for public nuisances, and may be enforced by injunction, upon a showing of violation.

**12.25.045 Severability.**

If any word, phrase, sentence, part, section, subsection, or other portion of this chapter, or any application thereof to any person or circumstance is declared void, unconstitutional, or invalid for any reason, then such word, phrase, sentence, part, section, subsection, or other portion, or the proscribed application thereof, shall be severable, and the remaining provisions of this chapter, and all applications thereof, not having been declared void, unconstitutional or invalid, shall remain in full force and effect. The County of Santa

Cruz hereby declares that it would have passed this title, and each section, subsection, sentence, clause, and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, or phrases had been declared invalid or unconstitutional.

0592

**12.25.050 Effective Date.**

This ordinance shall become effective three (3) months after the date of final passage by the County of Santa Cruz Board of Supervisors.

**12.25.055 No Conflict with Federal or State Law.**

Nothing in this ordinance shall be interpreted or applied so as to create any requirement, power, or duty in conflict with any Federal or State law.

**12.25.060 Preemption.**

The provisions of this chapter shall be null and void if State or Federal legislation, or administrative regulation, takes effect with the same or substantially similar provisions as contained in this chapter. The Board of Supervisors shall determine whether or not identical or substantially similar statewide legislation has been enacted or regulations issued.

**SECTION II**

This ordinance shall take effect and be in force six months from the date of adoption.


PASSED AND ADOPTED this \_\_\_\_\_ of \_\_\_\_\_ 20\_\_\_\_, by the Board of Supervisors of the County of Santa Cruz by the following vote:

AYES: SUPERVISORS  
NOES: SUPERVISORS  
ABSENT: SUPERVISORS  
ABSTAIN: SUPERVISORS

\_\_\_\_\_  
Chairperson of the Board of Supervisors

Attest: \_\_\_\_\_  
Clerk of the Board

APPROVED AS TO FORM:

  
\_\_\_\_\_  
Office of County Counsel