



COUNTY OF NEVADA COMMUNITY DEVELOPMENT AGENCY

Building Department

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Craig Griesbach, Building Director

High/Low Tunnel Greenhouse Minor Electrical Handout

This handout is intended to provide examples of acceptable electrical installations that are structurally independent and not attached to high/low tunnel greenhouses in accordance with Building Department Policy BD-CSC-10-001. This is not an all-inclusive list of code requirements or installation examples but meant to provide guidance regarding these types of improvements. A building permit is required for these types of electrical improvements and approval shall be gained from the Nevada County Building Department prior to commencing any work.

Building Permit Submittal Requirements:

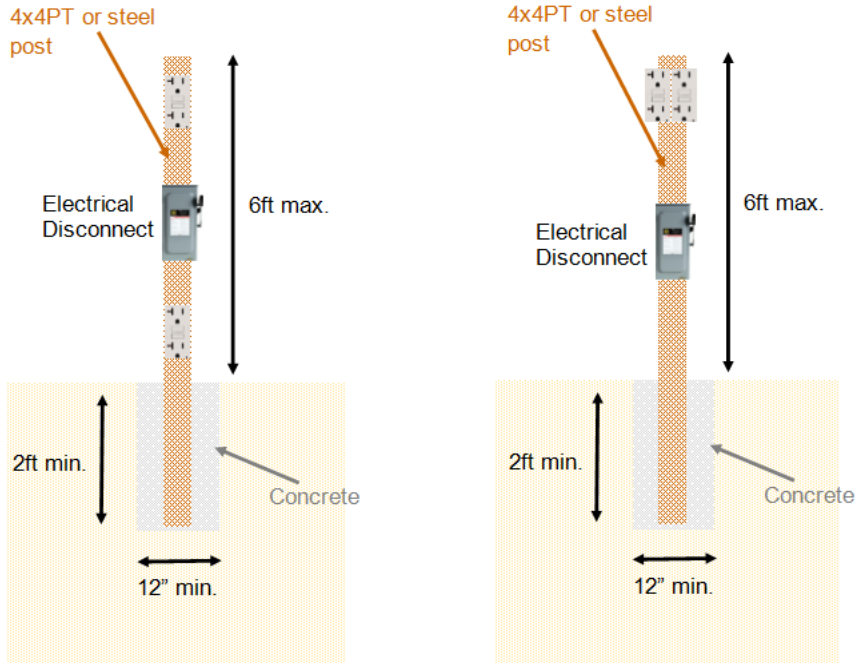
- Site plan in accordance with the [Site Plan Checklist](#)
- Show locations and types of electrical receptacles
- Underground electrical locations from service panels to outlet location(s)
- Location of electrical disconnect(s)
- Location and amperage size of electrical panels feeding electrical outlet(s)
- Electrical services feeding several ag exempt structure locations will require load calculations in accordance with the 2019 California Electrical Code.
- *Note: If associated to an Administrative Land-Use Permit and not included on that permit, an amendment to that land-use permit may also be required.*

Specific Electrical Requirements:

- A maximum of one, 20 ampere circuit, 2-gang receptacle outlet may be installed at each end of high/low tunnel structures.
- All electrical connected to receptacle outlets shall be self-contained, listed, plug connected equipment. Extension cords shall not be used in lieu of permanent wiring.
- All electrical and associated plug connected equipment shall be mounted structurally independent of high/low tunnel greenhouse structures in accordance with the California Building Standards Codes and local ordinances. Shall not be structurally attached to planter beds or other cultivation structures.
- All electrical components and wiring shall meet all standards associated to electrical installed for exterior locations.
- Any cord connected lighting shall be shielded from exterior when operated during non-daylight hours.
- A building permit shall be obtained prior commencing any electrical work and shall be inspected/finalized prior to use in accordance with the California Building Standards Codes.
- A service disconnect shall be installed within sight and within 50ft of the electrical location with all other grounding, bonding, and electrical installation standards met per the California Electrical Code.
- Receptacles installed shall be WR GFCI listed and have in-use covers installed.
- All electrical outlet boxes shall be listed NEMA 3 unless subject to water spray then shall be listed as NEMA 4 devices.

*****Example Details on Back*****

Example Electrical Pedestal/Support Post Detail

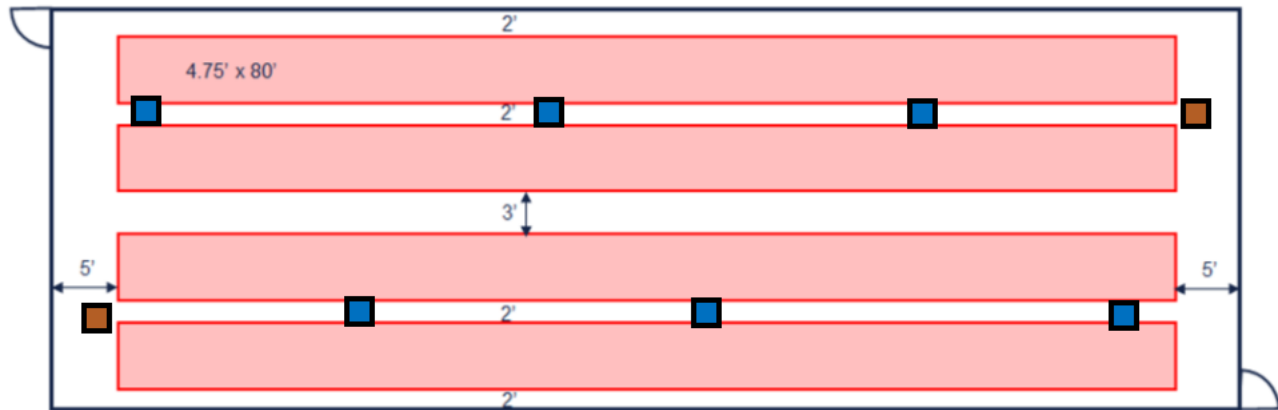


In-Use Outlet Cover Examples



Additional independent structural support options may be used as designed a California Licensed Design Professional that are equal to or greater than the attached details.

Example Minor Electrical Layout



■ = Electrical pedestal

■ = Canopy area

■ = Support post for plug connected string lighting and/or fixture support