



## COMMUNITY DEVELOPMENT AGENCY BUILDING DEPARTMENT

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### 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 obtained 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 2025 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.

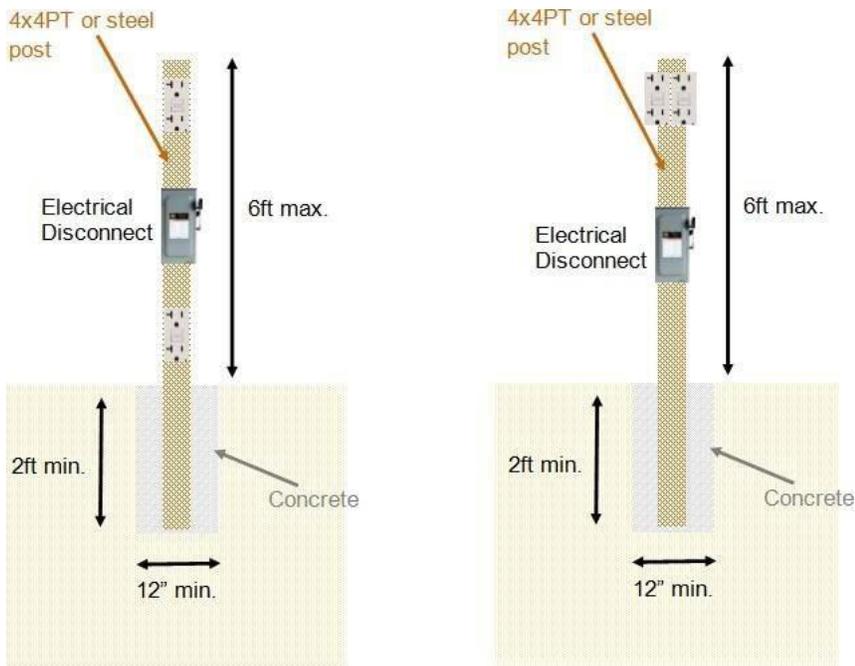
### **Auto Light Deprivation System Requirements:**

- Self-supported low voltage auto light deprivation systems are permissible. The combined low voltage equipment in each greenhouse structure shall not exceed 25 volts and not capable of supplying more than 50 watts of energy.
- Auto light deprivation systems limited to two motors maximum per hoop house are permissible, no part of the auto light deprivation system is permitted to be attached to the hoop house structure.
- Supported by permitted electrical consistent with minor electric policy (above) and not exceeding branch circuit electrical demands based on connected equipment.

**\*\*\*Example Details on Page 3\*\*\***

## Examples of Electrical Details

### Electrical Pedestal/Support Post Detail



### In-Use Outlet Cover



*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.*

### Minor Electrical Layout

