CUPERTINO

ELECTRIC-READY REQUIREMENTS FOR NEW SIGNLE-FAMILY RESIDENTIAL BUILDINGS
ONE-OR-TWO DWELLING UNITS
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PURPOSE

This table summarizes the electric-ready requirements for new single-family residential buildings with one or two dwelling units.
Note: These requirements must be shown on the cover sheet of all plan submissions.

CODE REFERENCES

Cupertino Muni Code (CMC) 16.58.400, 2025 California Energy Code, 2025 California Green Building Standards Code

REQUIRMENTS

System	Detailed Requirements
Energy Storage System (ESS) Ready *(CEnC §150.0(s))*	Must choose one of the following options: **Option A:** Install ESS-ready interconnection equipment with: – Minimum 60A backed-up capacity – At least four dedicated branch circuits (including circuits serving the refrigerator, lighting near primary egress, and a sleeping room receptacle) **Option B:** Install a dedicated 1" raceway from the main service to a subpanel labeled "Subpanel shall include all backed-up load circuits." Additionally: – Main panelboard must have a **minimum 225A** busbar rating – Reserve space within 3 feet of the panel for a transfer switch/system isolation equipment – Provide a raceway for backup power
Heat Pump Space Heater Ready *(CEnC §150.0(t))*	– Install a dedicated 240V, 30A branch circuit within 3 feet of the furnace, with a blank cover labeled "240V ready." – Reserve space in the main panel for a double-pole breaker labeled "For Future 240V Use." – Designate an exterior location for a future heat pump compressor, with proper condensate drainage.
Electric Cooktop Ready *(CEnC §150.0(u))*	– Install a dedicated 240V, 50A branch circuit within 3 feet of the cooktop, with a blank cover labeled "240V ready." – Reserve space in the main panel for a double-pole breaker labeled "For Future 240V Use."
Electric Clothes Dryer Ready *(CEnC §150.0(v))*	– Install a dedicated 240V, 30A branch circuit within 3 feet of the dryer location, with a blank cover labeled "240V ready." – Reserve space in the main panel for a double-pole breaker labeled "For Future 240V Use."
Heat Pump Water Heater (HPWH) Ready *(CEnC §150.0(n))*	Applies to new construction using gas or propane water heaters. Provide on plan a **designated space** (min. 2.5' x 2.5' x 7') for a future HPWH. **Option A** (≤ 3 feet from WH): – Provide a dedicated 125V, 20A receptacle on a 120/240V, 10 AWG copper branch circuit. – Include a labeled, electrically isolated "spare" conductor. – Reserve space for a single-pole breaker labeled "Future 240V Use." **Option B** (> 3 feet from WH): – Install a dedicated 240V, 30A branch circuit with a blank cover labeled "240V ready." – Reserve space for a double-pole breaker. – Route cold and hot water piping through the future HPWH location. – Provide an accessible condensate drain no more than 2" above the base of the unit.
EV Charging Readiness *(Cupertino Municipal Code §16.58.400 / CALGreen §4.106.4.1.1)*	For new one- and two-family dwellings with private garages: – Provide dedicated 208/240V, 40A branch circuit (per dwelling unit). – Install minimum 1-inch conduit (raceway) from main service or subpanel to EV location. – Raceway shall be continuous in concealed or inaccessible spaces. – Terminate at box or enclosure near proposed EV charger location. – Exception: Raceway not required if full 40A circuit is installed at EV location at time of construction. – Provide receptacle or blank cover per California Electrical Code. – Label panel directory and outlet/cover as "EV READY."