CUPERTINO

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

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) 16.58.280, and 16.58.400

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 and additions 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 §16.58.280 & §16.58.400 / CALGreen §4.106.4.1.1)*	**Level 2 EV Ready** (Must be provided for one-car space garage): – Install a dedicated 240V, 40A branch circuit labeled "Electric Vehicle Outlet" or provide EVSE with minimum 30A capacity. – Meet Level 2 EV Capable requirements: • Conduit to panel with reserved overcurrent protective device space • Minimum 1-inch conduit size • Future installation-ready (trenched or routed through partitions) • Provide load calculations to confirm simultaneous EV charging capacity • Post signage indicating "EV CAPABLE" **Level 1 EV Ready** (Must be provided if a second-car space is provided): – Install a dedicated 120V, 20A branch circuit labeled "Electric Vehicle Outlet" or provide EVSE with minimum 16A capacity. – Oversize conduit for future upgrade to Level 2 charging.