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ORDINANCE NO. \_\_\_\_\_ (N.S.)

AN ORDINANCE AMENDING CHAPTER 1 OF DIVISION 2 OF TITLE 9 OF THE SAN DIEGO COUNTY CODE RELATED TO SOLAR AND ELECTRIC VEHICLE READY BUILDINGS

The Board of Supervisors of the County of San Diego ordains as follows:

**Section 1.** The Board of Supervisors finds and determines that the San Diego County Code should be updated by amending Chapter 1 of Division 2 of Title 9 related to Solar and Electric Vehicle Ready Buildings. The Board finds that these amendments are reasonable and necessary for the public health, safety, convenience, and welfare.

**Section 2.** Section 92.1.3112 is added to the San Diego County Code to read as follows:

Sec. 3112 of the California Building Code is revised to read:

**SEC. 92.1.3112 SOLAR- AND ELECTRIC VEHICLE-READY BUILDINGS**

**Sec. 3112.1 Solar zones.** Newly constructed single-family dwelling units shall include solar zone area as specified in Sections 110.10(b)1A, 110.10(b)2, 110.10(b)3, and 110.10(b)4 of the California Building Energy Efficiency Standards.

**Sec. 3112.2 Main electrical service panel.** Newly constructed single-family dwelling units shall include a main electrical service panel meeting Sections 3112.2.1 through 3112.2.3.

**Sec. 3112.2.1 Minimum rating.** The main electrical service panel shall have a minimum rating of 200 amps.

**Sec. 3112.2.2 Type.** The main electrical service panel shall not be of a type with a center-fed main circuit breaker.

**Sec. 3112.2.3 Reserved space for future solar photovoltaic system.** The main electrical service panel shall have reserved space complying with Sections 3112.2.3.1 and 3112.2.3.2 to allow for the installation of double-pole circuit breakers for a future solar photovoltaic system.

**Sec. 3112.2.3.1 Location.** The reserved space for the solar photovoltaic circuit breaker shall be positioned at the opposite (load) end from the input feeder or main circuit breaker location.

**Sec. 3112.2.3.2 Identification.** The reserved space for the solar photovoltaic circuit breaker shall be permanently and visibly marked as "For Future Solar Photovoltaic."

**Sec. 3112.2.4 Reserved space for future electric vehicle charging system.** The main electrical service panel shall have reserved space to allow for the installation of a circuit breaker for a future electric vehicle charging system.

**Sec. 3112.2.4.1 Identification.** The reserved space for the electric vehicle charging circuit breaker shall be permanently and visibly marked as "EV Capable."

**Sec. 3112.3 Conduit for future solar photovoltaic system.** Newly constructed single-family dwelling units shall include electrical conduit installed per Sections 3112.3.1 through 3112.3.3 to accommodate future installation of a roof-mounted solar photovoltaic system.

**Sec. 3112.3.1 Location.** One conduit run shall originate at a readily accessible attic location with proximity to solar zone area complying with Section 3112.1 and terminate at a minimum 4-inch-square approved electrical junction box located within 72 inches horizontally and 12 inches vertically of a main electrical panel complying with Section 3112.2. A second conduit run shall originate at the electrical junction box and terminate at the main electrical panel.

**Sec. 3112.3.2 Size.** The conduit shall be minimum 1-inch-diameter listed electrical metallic raceway.

**Sec. 3112.3.3 Identification.** The electrical junction box and the segment of conduit run in the attic shall be permanently and visibly marked as "For Future Solar Photovoltaic."

**Sec. 3112.4 Conduit for future electric vehicle charging system.** Newly constructed single-family dwelling units with attached garages and newly constructed detached garages with electrical service shall include electrical conduit installed per Sections 3112.4.1 through 3112.4.3 to accommodate future installation of an electric vehicle charging system.

**Exception:** Newly constructed detached garages on lots with an existing garage including either an electric vehicle charging system or electrical conduit installed per Sections 3112.4.1 through 3112.4.3 to accommodate future installation of an electric vehicle charging system.

**Sec. 3112.4.1 Location.** The conduit run shall originate at a main electrical panel complying with Section 3112.2 and terminate at a minimum 4-inch-square approved electrical junction box located on the interior of the garage at minimum 30 inches and maximum 48 inches above the garage floor.

**Sec. 3112.4.2 Size.** The conduit shall be minimum 1-inch-diameter listed electrical metallic raceway.

**Sec. 3112.4.3 Identification.** The electrical junction box shall be permanently and visibly marked as "For Future Electric Vehicle Charging."

**Section 3.** Section 92.2.R332 is added to the San Diego County Code to read as follows:

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## **SEC. 92.2.R332 SOLAR- AND ELECTRIC VEHICLE-READY BUILDINGS**

Section R332 is added to the California Residential Code to read:

**Sec. R332 Solar- and electric vehicle-ready buildings.** Solar- and electric vehicle-ready construction shall be provided as specified in Section 92.1.3112 of the County Building Code.

**Section 4.** This ordinance shall take effect and be in force thirty days after its passage, and before the expiration of fifteen days after its passage, a summary hereof shall be published once with the names of the members of this Board voting for and against it in the \_\_\_\_\_, a newspaper of general circulation published in the County of San Diego.

**Section 5.** This ordinance shall be operative on July 1, 2015.