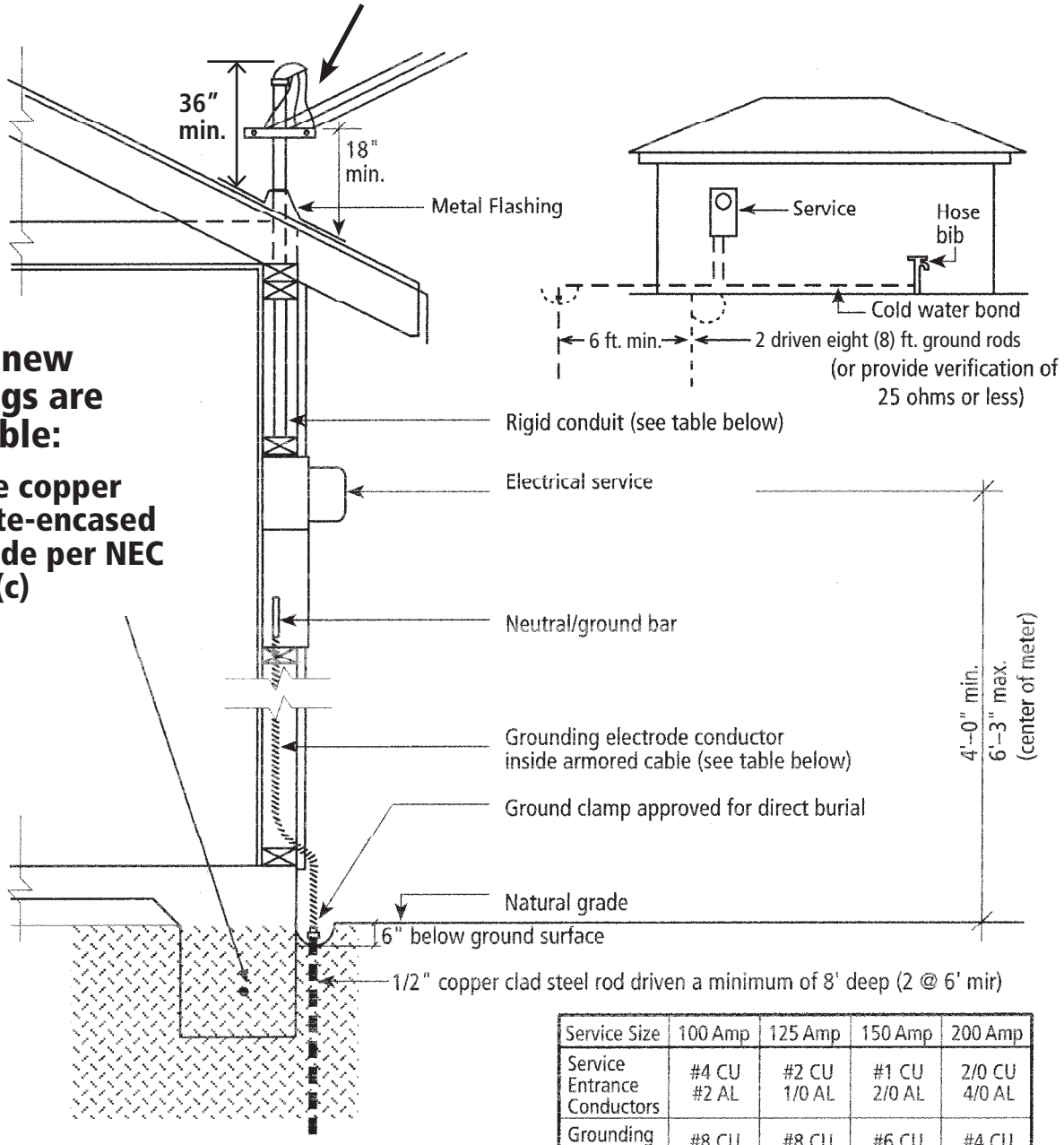
CITY OF VENTURA
BUILDING & SAFETY
www.cityofventura.net

City of Ventura
Building & Safety Division

RESIDENTIAL ELECTRICAL SERVICE UPGRADE GUIDELINES

ONLY UV (SUNLIGHT) RESISTANT WIRE



When new footings are available:

Provide copper concrete-encased electrode per NEC 250-50(c)

Service Size	100 Amp	125 Amp	150 Amp	200 Amp
Service Entrance Conductors	#4 CU #2 AL	#2 CU 1/0 AL	#1 CU 2/0 AL	2/0 CU 4/0 AL
Grounding Electrode Conductor	#8 CU #6 AL	#8 CU #6 AL	#6 CU #4 AL	#4 CU #2 AL
Service Entrance Conduit	1 1/4"	1 1/4"	1 1/2"	2"

Please see reverse side.

(c) Concrete-Encased Electrode. An electrode encased by at least 2 in. (50.8 mm) of concrete, located within and near the bottom of a concrete foundation or footing that is in direct contact with the earth, consisting of at least 20 ft (6.1 m) of one or more bare or zinc galvanized or other electrically conductive coated steel reinforcing bars or rods of not less than 1/2 in. (12.7 mm) diameter, or consisting of at least 20 ft (6.1 m) of bare copper conductor not smaller than No. 4. Reinforcing bars shall be permitted to be bonded together by the usual steel tie wires or other effective means.

250-56. Resistance of Made Electrodes. A single electrode consisting of a rod, pipe, or plate that does not have a resistance to ground of 25 ohms or less shall be augmented by one additional electrode of any of the types specified in Sections 250-50 or 250-52. Where multiple rod, pipe, or plate electrodes are installed to meet the requirements of this section, they shall not be less than 6 ft (1.83 m) apart.

FPN: The paralleling efficiency of rods longer than 8 ft (2.44 m) is improved by spacing greater than 6 ft (1.83m).

HOURS:	Monday, Tuesday, Wednesday and Friday, 7:30 a.m. to 5:00 p.m. Thursday 9:00 a.m. to 5:00 p.m. City Hall closed alternate Fridays *All financial transactions must be completed by 4:30 p.m. daily
LOCATION:	Ventura City Hall, 501 Poli Street, Room 117
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SCE PLANNING:	805-654-7444