

# BURIAL DEPTHS FOR YARD PIPING AND ELECTRICAL LINES

## NOTES

These burial depths apply outside of buildings within private property subject to the following provisions:

1. Not applicable to utility companies gas and electric lines.
2. May be laid in the same trench without horizontal separation except as noted for sewer and water lines.
3. Does not apply to automatic sprinkler system lines beyond control valves.

## SYMBOLS:

- Conduit
- Pipe
- Alternate Location
- Direct Burial Cable

	ELECTRIC	GAS METAL (UNCOATED)	SEWER METAL	WATER METAL (ABOVE GROUND)
Grade				
6"	RIGID METAL CONDUIT ○			
12"		METAL (COATED) ○	NON-METALLIC (APPROVED INSIDE BLDG.) ○	NON-METALLIC ○
18"	RIGID NONMETALLIC CONDUIT ○	NON-METALLIC ○	NON-METALLIC (NOT APPROVED INSIDE BLDG.) ○	METAL (BELOW GRADE) ○
24"	DIRECT BURIAL —			
CEC 2013	Metal - Rigid conduit (coated) 6" minimum. Nonmetallic - Rigid conduit 18" minimum. Exception - Direct burial cable 24" minimum. (NEC Art. 300-5) Exceptions apply: 18", 6" less depth for 2" concrete pad over cable. Residential branch circuits rated 120 Volts or less with GFCI protection and maximum overcurrent protection of 20 amperes may be at 12".	CPC 2013 Sec. 1211.0 Metal - (a) 6" above ground (uncoated and unwrapped), (b) 12" below ground (factory coated or machine wrapped). Nonmetallic - (PVC or PE) - 18" min. NOTE: Require approved plastic to metal transition fittings to rise above ground; Also, 18 GA. copper tracer wire required for non-metallic pipe.	CPC 2013 Sec. 718.3 & 720 Metal - No burial requirement (recommended 12" to protect from mechanical damage and freezing). Nonmetallic - (a) Pipe approved inside building - 12" minimum. (b) Pipe approved inside building - sewer to be 12" below water line with water pipe 12" to one side on a solid shelf - total depth 24", and 12" apart horizontally minimum.	CPC 2013 Sec. 609.1 & 720 Metal - At or above grade, or 12" minimum below grade. Nonmetallic - 12" minimum (plastic).



## BURIAL DEPTHS

HELP FOR THE HOMEOWNER  
LOS ALAMITOS BUILDING & SAFETY

Paul Melby

Building Official

Date: 5/29/12

1/7/15

Date:

Sheet 1 of 1

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