



# Municipality of Anchorage

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## Policy E.03

### Residential Underground Wiring

#### **Wells and septic systems.**

Wiring to wells and septic systems are installed along with mechanical piping at depths that exceed the maximum two-foot deep requirement of NEC 300.5. In recognition of this fact, the MOA will accept a megger report signed by a licensed, residential wireman stating that the wiring insulation resistance is a minimum of 200 meg ohms at 500 volts. Wiring not installed with mechanical piping will require visual inspection before covering. This report must be provided to the inspector before the electrical final can be approved. The report is considered as an alternate to the inspection before covering required by Section 305 of the Uniform Administrative Code. Visual inspection of all wiring will remain available if that is the preference of the contractor.

#### **Yard lights, receptacles, electric gates, second buildings and other miscellany**

Unlike wiring to wells and septic systems, trenches for general wiring are not dug below frost line depths. Visual inspection is necessary to verify burial depth. The required burial depth varies according to the wiring method and its location; see Table 300.5 of the NEC. By leaving the trench open on both sides, short lengths of wiring, such as underneath a driveway, may be covered without inspection.

The contractor should also be aware of and comply with the following code requirements concerning underground cables:

1. NEC Local Amendment 23.30.300.5(d) when direct buried cables or conductors cross or are installed parallel to sewers, water lines, gas or other fuel lines, steam lines, communication and other electric cables or conductors, a 12 inch (300 mm) radial separation shall be maintained.
2. NEC 300.5(C) Cables installed underground in a building shall be in a raceway that is extended beyond the outside walls of the building.

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Ron Thompson, Building Official  
Date: April 17, 2006  
(Rev. 07-02)