



## CITY OF MILPITAS

Office of Building Safety  
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### WATER BONDING TO A GROUNDING ELECTRODE

**Policy:****BDP-EL04**

Effective Date:

3/7/2011

Proposed by:

Last Reviewed/  
Revised:

3/8/2023

Reviewed/  
Revised by:

JDS

Approved By:

Building Official

**Interior metal water piping requires a bonding jumper conductor connection to:**

1. The service equipment enclosure. or
2. The grounded conductor at the service. or
3. The grounding electrode conductor where of sufficient size. or
4. To one or more of the grounding electrodes used.

If the reinforcing steel rebar in the footing (Ufer) is used, as in item 4 above, then the grounding electrode conductor from the service to the rebar must be of equal or larger than that required for the water bonding jumper.

If a #4 was used from the service to the rebar and a #2/0 was required for the water bond this would not be acceptable.

If the electrode conductor & bonding jumper were both #2/0 this would be acceptable.

The water bonding jumper may not be larger than the grounding electrode conductor in this return path.