1. All cable connections to steel pipe and fittings shall be accomplished utilizing an exothermic welding process such as "Caldwell" by Erico Products, Inc. or approved equal. All material and equipment utilized for welding shall be from one manufacturer.

2. Bond wire shall be #8 AWG/HMWPE bond cable. All joints, except field welded joints and insulating joints, shall be continuity bonded. Bonds shall be welded to steel pipe as well as major parts of any couplings used. The length of the bond cables between fittings shall be sufficient in length to allow for soil contraction and pipe movement.

3. New water mains shall be continuity bonded to all existing ferrous water mains. In locations where a new water main is tied into and existing non-ferrous water main with a bond cable, the new water main shall be continuity bonded with the existing bond cable on each side of the tie-in point.