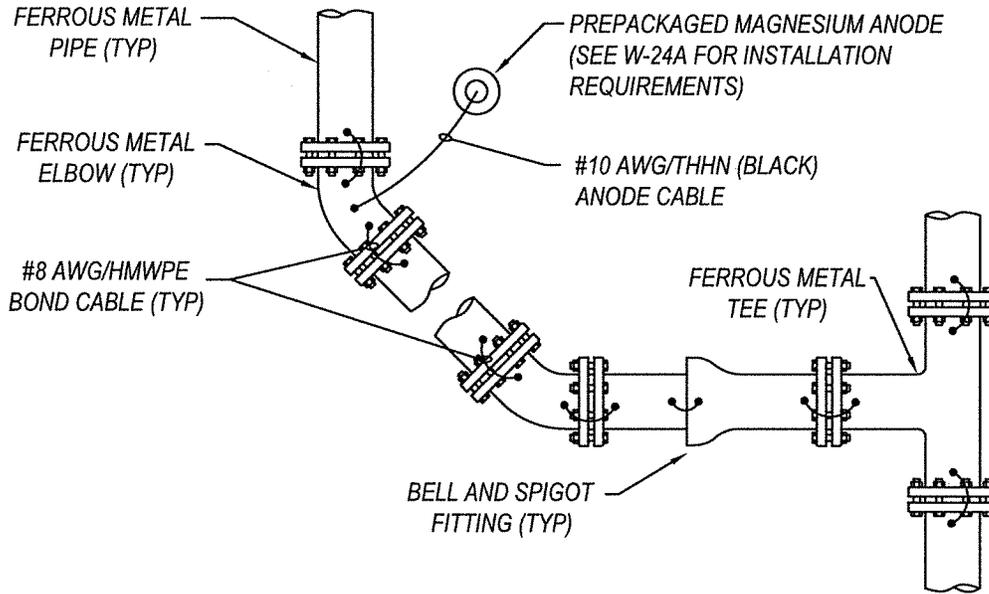
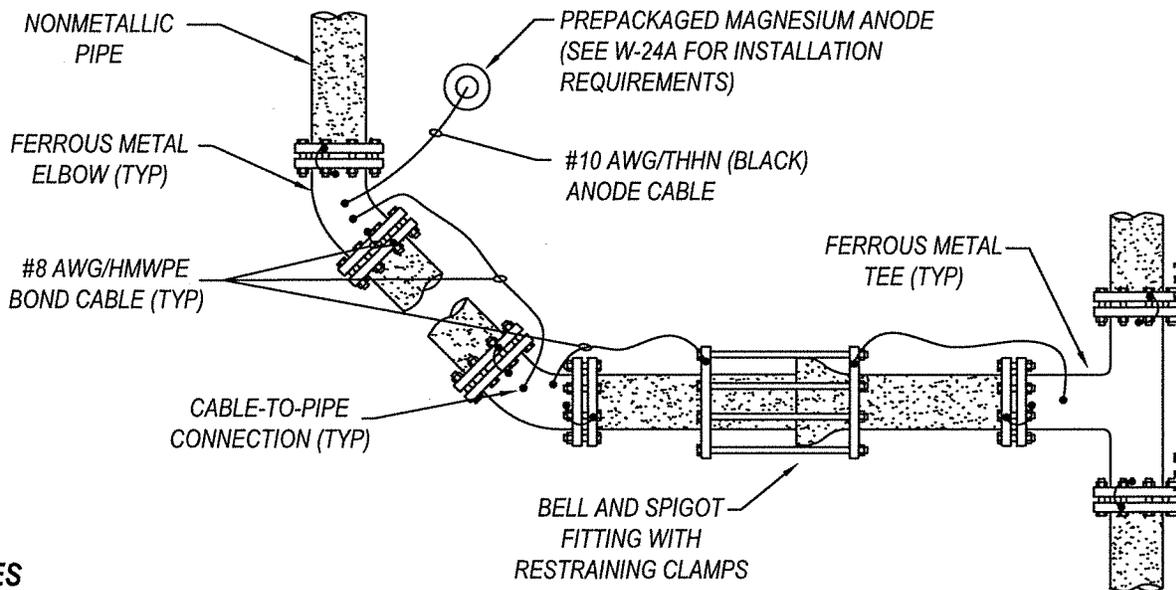


FERROUS METAL PIPE CONNECTIVITY



NON-METALLIC PIPE CONNECTIVITY



NOTES

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 (SEE W-23B FOR EXOTHERMIC WELD DETAIL). ALL MATERIAL AND EQUIPMENT UTILITIZED 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 AN 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.

CITY OF NAPA

PUBLIC WORKS - WATER DIVISION

PIPE CONNECTIVITY

DATE REVISED DECEMBER 2015

CHECKED *[Signature]*

APPROVED *[Signature]*

SCALE NONE

W - 23A
DWG NO.