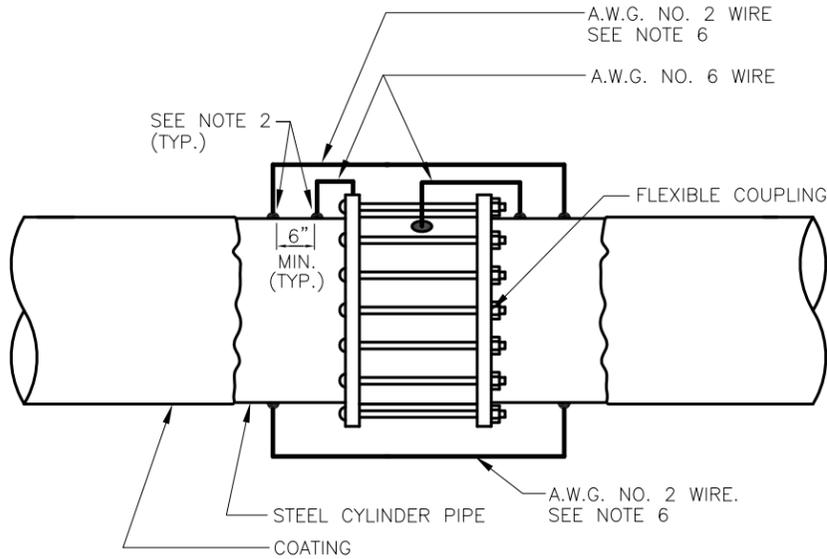


INSULATING FLEXIBLE COUPLING

NTS



(SYMBOL)

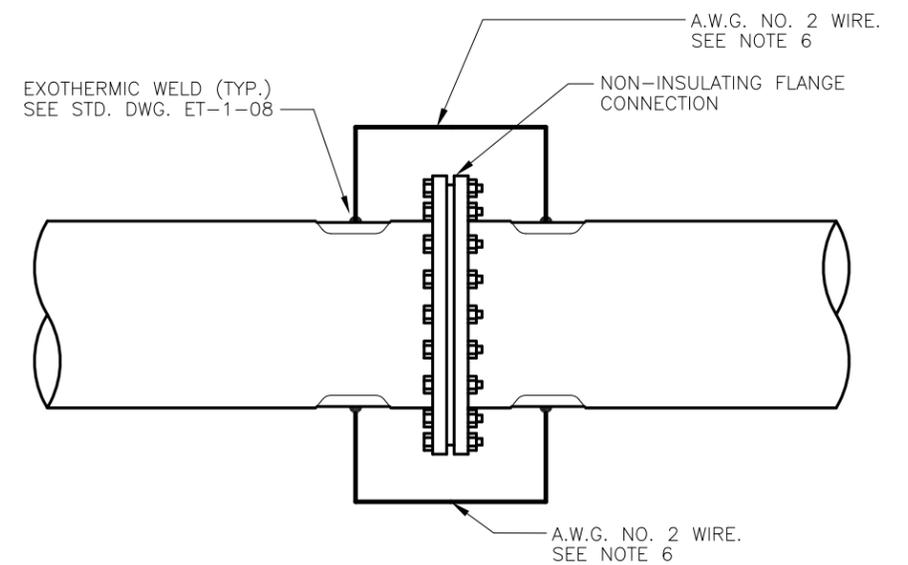


NON-INSULATING COUPLING

NTS



(SYMBOL)

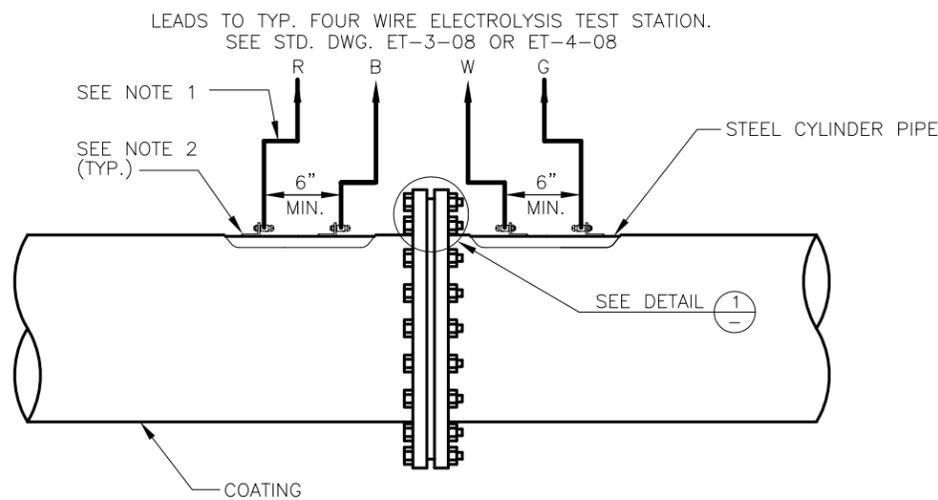


NON-INSULATING FLANGE

NTS



(SYMBOL)

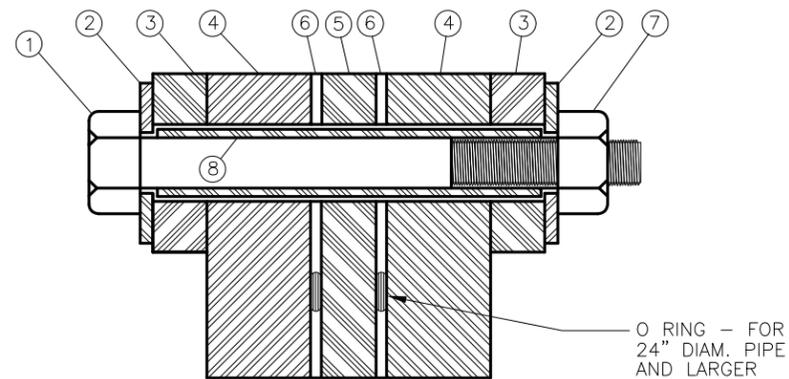


INSULATING FLANGE

NTS

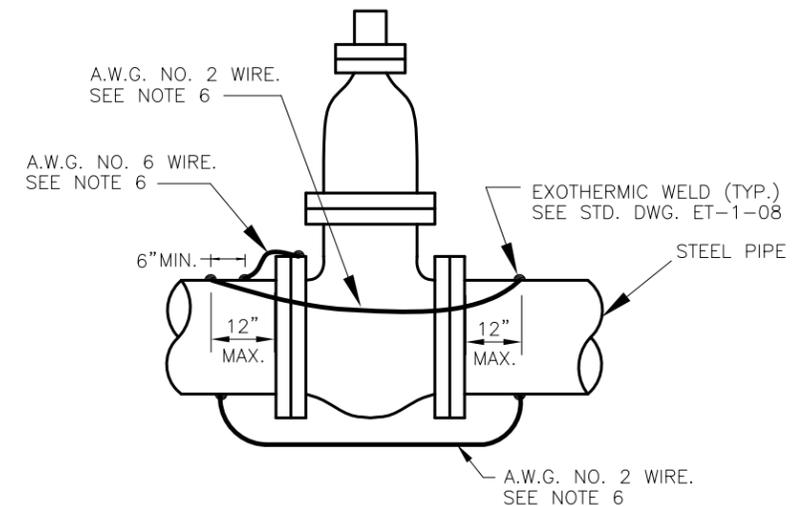


SEE NOTE 4



DETAIL 1

NTS



BONDING JUMPER FOR IN-LINE VALVES IN STEEL PIPELINES

NTS

DETAIL 1 MATERIALS LIST

ITEM	MATERIAL DESCRIPTION. SEE NOTES
1	STEEL BOLT
2	STEEL WASHER
3	1/8" THICK ROUND INSULATING WASHER
4	STEEL FLANGE
5	1/8" THICK, FULL FACE, TYPE E INSULATING GASKET
6	O-RING SEALING GASKET (FOR 24" DIAMETER PIPE AND LARGER)
7	STEEL HEXAGON NUT
8	INSULATING SLEEVE

NOTES:

- ELECTROLYSIS TEST LEADS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE SPECIFIED:
TYPE: STRANDED COPPER
STYLE: T.H.W.N. OR U.S.E. RATED INSULATION
MIN. SIZE: A.W.G. NO. 10
COLOR CODE: B - BLACK
G - GREEN
W - WHITE
R - RED
- ELECTROLYSIS TEST LEADS AND BONDING WIRES SHALL BE ATTACHED TO THE PIPE IN ACCORDANCE WITH STANDARD DRAWING ET-1-08.
- SUFFICIENT SLACK SHALL BE LEFT IN LEADS NEAR CONNECTIONS TO PIPES TO PREVENT BREAKAGE OF CONNECTION DURING BACKFILLING.
- FOR INSULATING FLANGES INSTALLED AT VALVES, ATTACH THE WHITE WIRE TO THE VALVE BODY AND THE GREEN WIRE TO THE PIPE 12" FROM THE NON-INSULATED FLANGE.
- BONDING WIRES SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SPECIFIED:
TYPE: STRANDED COPPER
STYLE: HMWPE OR XLPE INSULATION
MIN. SIZE: AS SHOWN
COLOR CODE: B - BLACK
- REDUNDANT BONDING WIRES ARE REQUIRED WHEN CONNECTING STEEL PIPE CYLINDERS USING NON-WELDED, NON-INSULATING JOINTS.

APPROVED  12/15/2008
ENGINEERING MANAGER DATE

DESIGNED	ACWD
DRAWN	RMF
CHECKED	LJA
DIV. MGR.	EHS



ALAMEDA COUNTY WATER DISTRICT
43885 SOUTH GRIMMER BOULEVARD
P.O. BOX 5110
FREMONT, CA 94537-5110
(510) 668-4200

STANDARD DRAWING
**ELECTROLYSIS TEST STATION
INSULATING JOINT TEST STATION, NON-INSULATING JOINT
BONDING AND FLANGED JOINT BONDING ON STEEL PIPELINES**

DATE: DEC. 2008
SCALE: NONE
DWG. NO. **ET-6-08**
REV. **0**

NO.	DATE	REVISION	BY	APP.	DIV. MGR.
0	12-08	REPLACES STD. DWG. ET-6	RMF	LJA	