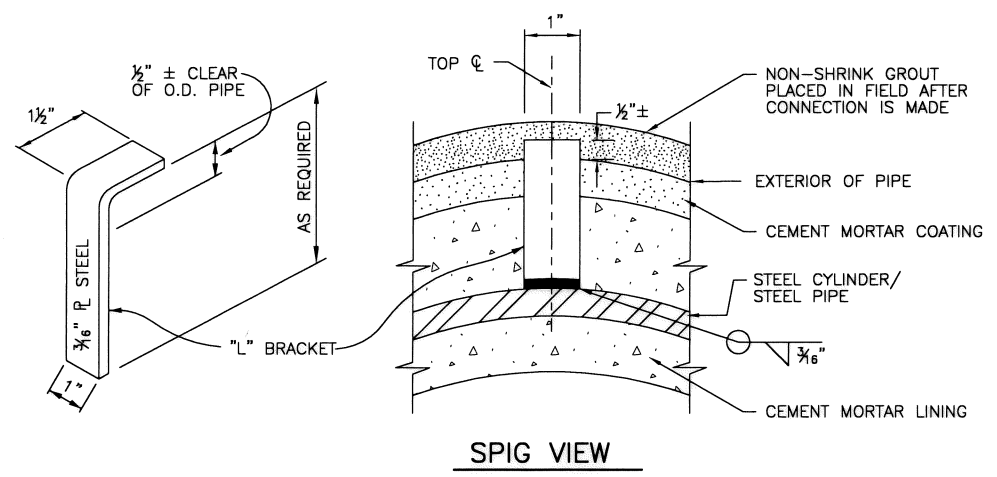
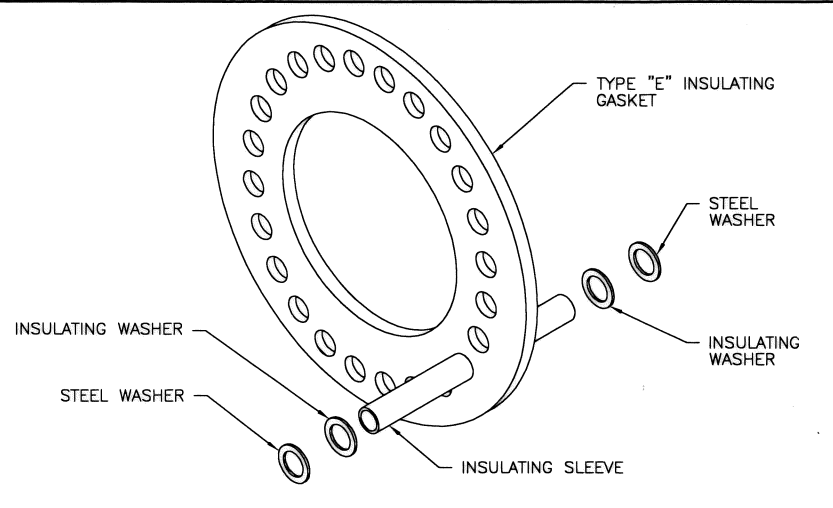


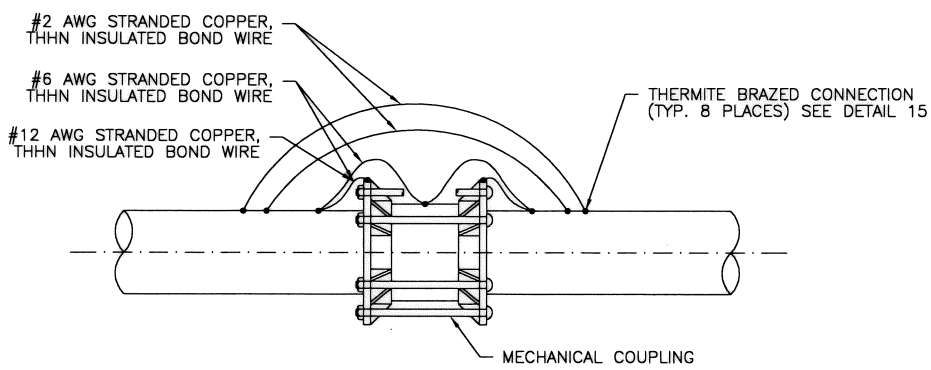
7 TEST LEAD CONNECTION DETAIL



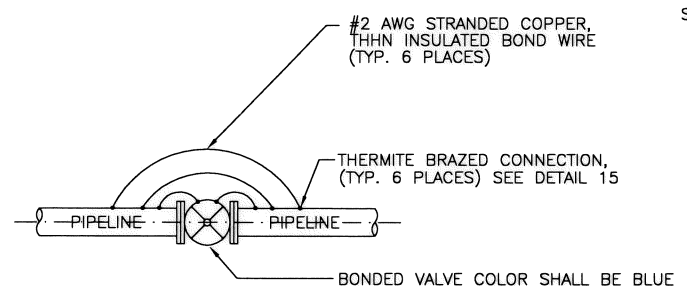
8 "L" BRACKET DETAIL



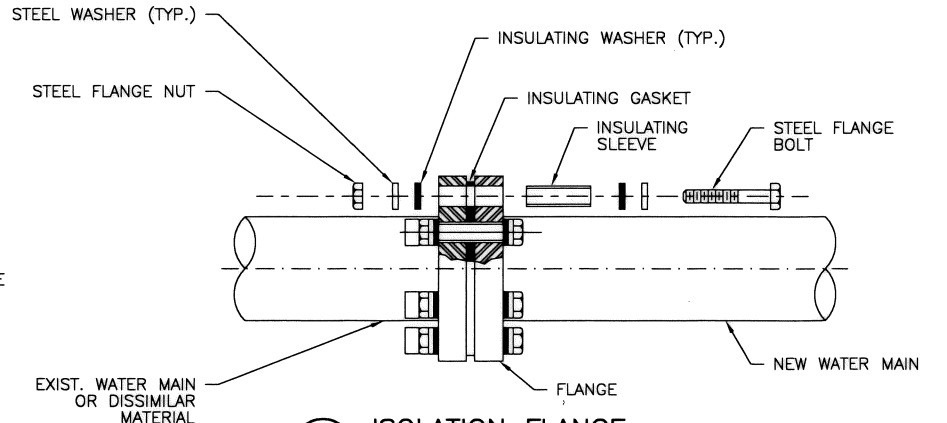
9 ISOLATION FLANGE ASSEMBLY
SEE AWWA M11 FOR FLANGE BOLT TIGHTENING SEQUENCE



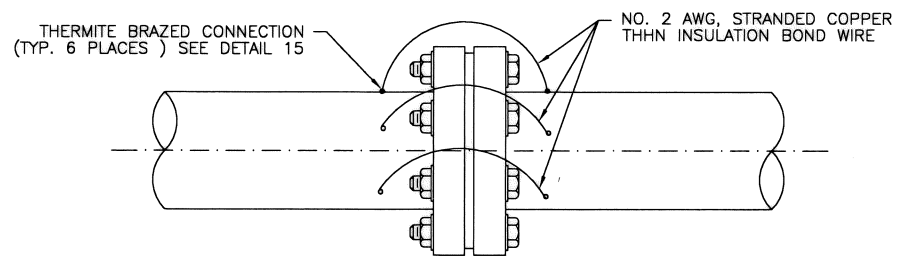
10 MECHANICAL COUPLING BOND DETAIL



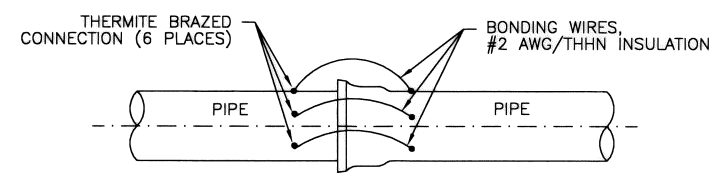
11 VALVE BONDING ARRANGEMENT
MAINLINE WITH CATHODIC PROTECTION



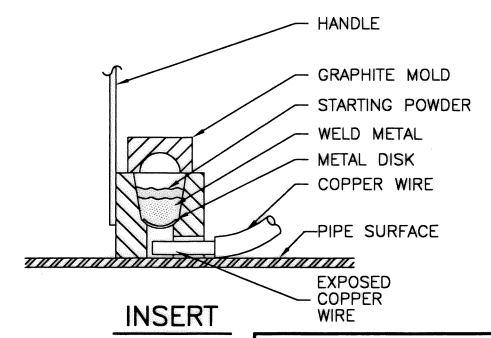
12 ISOLATION FLANGE
DETAIL 12 - NOTES:
1. DETAILS SHOW BONDING ARRANGEMENTS ONLY. SEE JOINT DETAIL FOR PIPE JOINT REQUIREMENTS.



13 ELECTRICAL BONDING ACROSS FLANGE
NOTE: BOND WIRES SHALL BE PLACED A MINIMUM OF 6" APART.



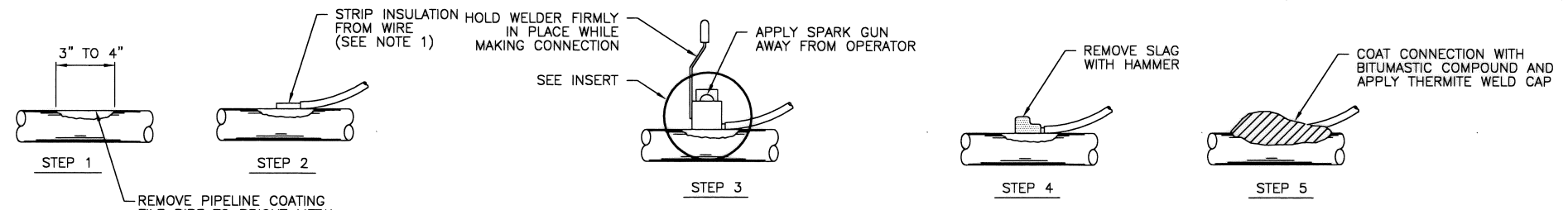
14 BELL & SPIGOT BONDING ARRANGEMENT
DUCTILE IRON PIPE
NOTE: BOND WIRES SHALL BE PLACED A MINIMUM OF 6" APART.



CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STANDARD LDWL
CATHODIC PROTECTION
DETAILS FOR JOINT BONDING
(SHEET 2 OF 2)
(NOT TO SCALE)

APPROVED BY: ACTING CITY ENGINEER	APPROVED BY: DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: MAR-20-2018	DWG NO: 15640-02



15 THERMITE BRAZED CONNECTION DETAIL

- DETAIL 15 - NOTES:**
- WHEN #14 SOLID TO #10 SOLID WIRE IS USED, IT WILL BE NECESSARY TO INSTALL A COPPER SLEEVE OF ADEQUATE SIZE OVER BARE SECTION OF WIRE BEFORE CONNECTION IS ATTEMPTED.
 - THERMITE WELD PROCEDURES SIMILAR FOR "L" BRACKETS.
 - REPAIR ALL DAMAGE TO COATING AND LINING IN ACCORDANCE WITH MFG. RECOMMENDATIONS.