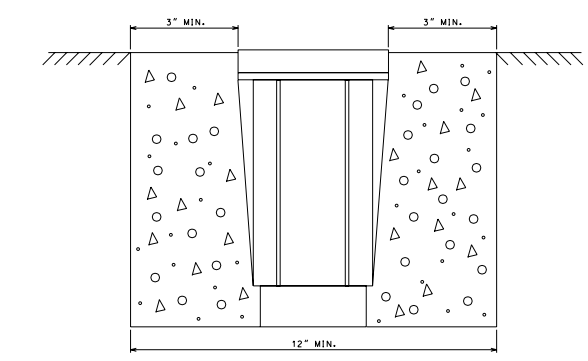
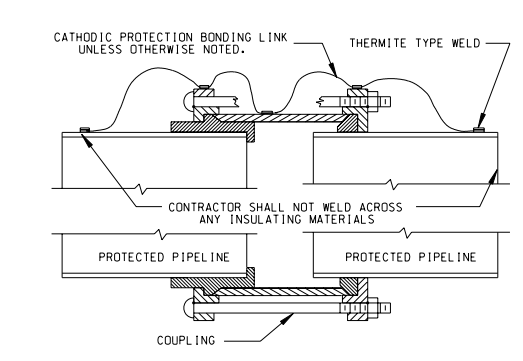
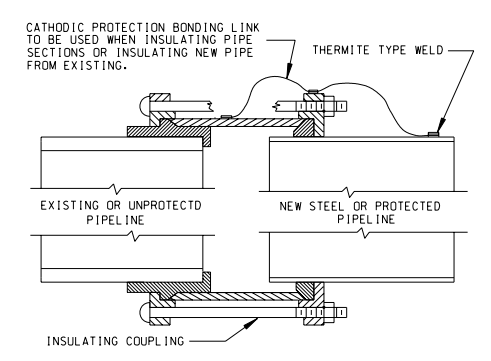


CATHODIC PROTECTION SYSTEM DETAILS  
 NTS. DETAILS TYPICAL FOR TEST STATIONS

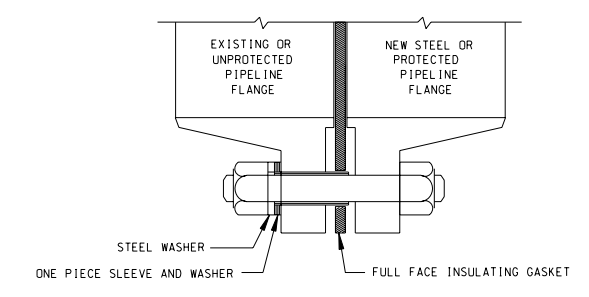


CATHODIC PROTECTION TEST STATION DETAIL  
 NTS. DETAIL TYPICAL FOR ALL TEST STATIONS

- ①
- △ CTS - CATHODIC PROTECTION ANODE AND TEST STATION
- △ C - CATHODIC PROTECTION ANODE ONLY. 8 EACH. 1.4" X 1.4" X 24" 12# ZINC



INSULATION COUPLING AND BONDING



FLANGE INSULATION KIT

**CATHODIC PROTECTION NOTES:**  
 REFERENCE PIPELINE DRAWINGS FOR ADDITIONAL INFORMATION ON LOCATION OF CATHODIC PROTECTION ANODES AND SPECIFIC NOTES.

CONTRACTOR SHALL INSTALL AN INSULATING COUPLING OR INSULATING FLANGE KIT WHERE PIPE IS JOINED TO EXISTING OR UNPROTECTED PIPING. CONTRACTOR SHALL CONTACT ENGINEER AFTER INSULATION KIT HAS BEEN INSTALLED AND PRIOR TO BACKFILLING PIPE, FOR INSULATION TESTING.

ALL MECHANICAL COUPLINGS SHALL BE ELECTRICALLY BONDED UNLESS OTHERWISE NOTED.

VALVE BOX AND BONNETS SHALL BE INSULATED FROM VALVE AND PIPING.

ABOVE GROUND PIPING SHALL BE INSULATED FROM UNDERGROUND PIPING.

ALL WELDED AREAS SHALL BE CLEANED AND COATED WITH MATERIALS COMPATIBLE WITH THE COATING SYSTEM. EACH PROCEDURE SHALL BE APPROVED BY THE ENGINEER.

CONTRACTOR SHALL INSTALL CATHODIC PROTECTION WIRING IN TEST STATION BUT SHALL NOT CONNECT UNTIL ENGINEER HAS MADE PRELIMINARY TESTS.

CONTRACTOR SHALL NOT USE WOODEN BLOCKING TO SUPPORT PIPING. IF THIS CANNOT BE AVOIDED WOODEN BLOCKING SHALL BE BLANKETED WITH HEAVY RUBBER INSULATING MATERIAL.

VALVES AND COUPLINGS SHALL BE PRIMED AND COATED. DISTURBED BOLT THREADS SHALL BE TOUCHED UP.

No.	Revision	Drawn	Approved	Date
Revisions				
<b>DESIGN STANDARDS PUMP STATION</b> CATHODIC PROTECTION SITE PLAN AND DETAILS				
Developer SAN ANTONIO WATER SYSTEM				
Cont. Budget Proj.				
SUBMITTED GRUBB ENGINEERING, INC.				
APPROVED _____				
Map No.				Sheet
Section No.			Job No.	
Dr. rdg Ch			E20	