

**SOLANO IRRIGATION DISTRICT
STANDARD REINFORCED CONCRETE IRRIGATION WATER SYSTEM NOTES**


1. ALL MATERIALS AND INSTALLATION OF THE IRRIGATION WATER SYSTEM SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE SOLANO IRRIGATION DISTRICT LATEST REVISION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UTILITIES.
3. CONTRACTOR SHALL NOTIFY THE SOLANO IRRIGATION DISTRICT AT (707) 448-6847, FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION AND FOR INSPECTION OF THE IRRIGATION WATER SYSTEM.
4. IRRIGATION WATER MAINS SHALL BE MANUFACTURED IN CONFORMANCE WITH ASTM C-361 AND MANUFACTURED BY THE CENTRIFUGAL SPIN METHOD. IN ADDITION, ALL PIPE SHALL CONTAIN SUFFICIENT REINFORCEMENT TO SUSTAIN EXTERNAL LOADS IN THE CATEGORY OF CLASS III UNDER ASTM C-76. CONCRETE SHALL BE PORTLAND CEMENT TYPE II.
5. SPECIALS AND FITTINGS SHALL MEET THE REQUIREMENTS OF SECTION 4 OF AWWA C-200 OR SHALL BE OF THE SAME MATERIAL AS THE PIPELINE OF WHICH THEY ARE A PART OF, PROVIDED THE STEEL REINFORCEMENT IS EQUAL TO OR GREATER IN AREA. THE DIMENSIONS OF SPECIALS AND FITTINGS SHALL BE IN CONFORMANCE WITH AWWA C-208.
6. THE CONTRACTOR GUARANTEES THE RUBBER GASKETED REINFORCED CONCRETE PIPELINE AND APPURTENANCES AGAINST DEFECTIVE WORKMANSHIP, MATERIALS AND LEAKAGE FOR A PERIOD OF ONE (1) YEAR AFTER THE PIPELINE IS ACCEPTED. THE CONTRACTOR AGREES TO REPAIR ALL LEAKS AND TO MAINTAIN THE PIPELINE AND ITS APPURTENANCES IN A SATISFACTORY OPERATING CONDITION DURING THE ABOVE SPECIFIED PERIOD. UPON NOTICE BY THE DISTRICT OF NEEDED REPAIRS, THE CONTRACTOR SHALL UNDERTAKE SUCH REPAIRS, INCLUDING NECESSARY DEWATERING, WITHIN FORTY-EIGHT (48) HOURS. NEITHER THE GUARANTY NOR MAINTENANCE REQUIREMENTS SHALL APPLY TO DAMAGE CAUSED BY AN ACT OF GOD, NEGLIGENCE IN THE OPERATION OF THE SYSTEM OR ACTS OF THIRD PARTIES.
7. FIELD HYDROSTATIC TESTING SHALL BE IN ACCORDANCE TO THE DISTRICT'S STANDARD SPECIFICATIONS LATEST REVISION.
8. THE CONTRACTOR SHALL FURNISH TO THE DISTRICT, THREE (3) COPIES OF SHOP AND FABRICATION DRAWINGS WHICH ARE REQUIRED PRIOR TO THE FABRICATION AND/OR PLACEMENT OF ANY OR ALL ITEMS. THE DISTRICT WILL RETURN ONE (1) COPY OF THESE DRAWINGS TO THE CONTRACTOR MARKED "NO EXCEPTIONS TAKEN", "MAKE CORRECTIONS NOTED", "AMEND AND RESUBMIT", OR "REJECTED - RESUBMIT". THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING THE SHOP AND/OR FABRICATION DRAWINGS, AS REQUIRED BY THE DISTRICT, OR RESUBMIT AN ALTERNATE FOR APPROVAL.
9. ALL STRUCTURE COVERS ARE TO BE MARKED "SID". ALL COVER LETTERING SUBJECT TO SID APPROVAL.
10. THE DISTRICT INSPECTOR WILL LOCATE THE EXACT PLACEMENT OF BOV'S AND ARV'S.
11. CONTRACTOR SHALL USE PVC PIPE FOR VALVE BOX DEPTH EXTENSIONS.
12. ALL SECTIONALIZING AND DISTRIBUTION VALVES SHALL BE BUTTERFLY VALVES AND CONFORM TO THE APPLICABLE PROVISIONS OF AWWA C-504. ALL BUTTERFLY VALVES SHALL BE FLANGED (SHORT BODY) AND NOT OF THE WAFER TYPE WITH A PRESSURE RATING EQUIVALENT TO THAT OF THE PIPELINE. REFER TO THE DISTRICT'S STANDARDS LATEST REVISION FOR COATING REQUIREMENTS.
13. ALL WORK PERFORMED SHALL BE INSPECTED BY SOLANO IRRIGATION DISTRICT'S INSPECTOR. IF ANY WORK SHALL BE PERFORMED WITHOUT APPROVAL OR CONSENT OF THE INSPECTOR, IT MUST, IF REQUIRED BY THE INSPECTOR, BE EXPOSED FOR EXAMINATION AT THE CONTRACTOR'S EXPENSE, IRRESPECTIVE OF WHETHER THE WORK EXPOSED IS FOUND TO BE DEFECTIVE OR NOT.
14. THE INSPECTION OF THE WORK SHALL NOT RELIEVE THE CONTRACTOR OF ANY OF HIS OBLIGATIONS TO FULFILL HIS CONTRACT, DEFECTIVE WORK SHALL BE MADE GOOD AND UNSUITABLE MATERIALS MAY BE REJECTED, NOTWITHSTANDING SUCH WORK AND MATERIALS THAT HAVE BEEN PREVIOUSLY OVERLOOKED BY THE INSPECTOR.
15. THE DISTRICT INSPECTOR AND/OR DISTRICT STAFF WILL INSTALL THE DISTRICT STANDARD NON-POTABLE WATER TAGS ON ALL NON-POTABLE SERVICES, AIR RELIEF VALVES AND BLOWOFFS. THE TAGS ARE TO BE SUPPLIED BY THE DISTRICT AT THE CONTRACTOR'S EXPENSE. CURRENT PRICING OF TAGS ARE \$7.50 EACH (PRICE SUBJECT TO CHANGE WITHOUT NOTICE).



NOTE: CALL U.S.A.
AT LEAST 48 HOURS
PRIOR TO EXCAVATION
1-800-642-2444

REFER TO THE
STANDARD SPECIFICATIONS

STANDARD REINFORCED CONCRETE PIPELINE NOTES

APPROVED BY: 
DIRECTOR OF ENGINEERING

RCE #66517

7-18-12
DATE

DETAIL
DS-5

REVISION
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7-18-12