

IRRIGATION MATERIALS SPECIFICATIONS

DESCRIPTION	* EXAMPLE OR EQUAL	SIZE	REMARKS
TAP/METER	LOCAL CODE	1 1/2 inch minimum	LOCAL CODE MAY REQUIRE LARGER METER
BACKFLOW PREVENTER	APPROVED BY LOCAL CODE	1 inch	
BACKFLOW PREVENTER ENCLOSURE REQUIRED FOR THE FOLLOWING IRRIGATION SYSTEM TYPES: TYPE I TYPE II Enclosure will be approved by the Engineer. Enclosure will be manufactured specifically for purpose of protecting backflow preventor. Enclosure will be vandal-resistant, lockable with the ability to be anchored to the ground. Enclosure will be completely removable. Enclosure size will provide access and clearance on all sides of backflow preventer. Locking mechanism will be approved by the Engineer. Provide locks and keys. All locks will use same keys unless otherwise directed by the Engineer. Keys will match master key provided by Engineer or Landscape Architect. Locks may be integrated into enclosure.	APPROVED BY ENGINEER	APPROVED BY ENGINEER	PROVIDE FOUR(4) KEYS TO ENGINEER IF ENCLOSURE IS REQUIRED
VALVE APPURTENANCES: INCLUDES: BACK FLUSH FILTER and PRESSURE REGULATOR CHECK VALVE DUCK BILL BOOT CLOSE NIPPLES (1")	RAINBIRD X CZ-100-PRF-BF RAINBIRD PRF 100 BFF RAINBIRD CV100 RAINBIRD DBB	1 inch	
NELSON CONTROL VALVE WITH CONTROL MODULE Programmable actuator with lithium battery	NELSON 8015 ACTUATOR, LITHIUM BATTERY, VALVE		
BORING		4 inch	OVERCUTTING WILL NOT BE ALLOWED
PVC SCH 40 ENCASEMENT PIPE FOR SLEEVES AND BORES Pressure rated with slip type solvent welded joints		4 inch	REFERENCE ITEM 170.2.3
PVC SCH 80 above ground at backflow device		2 inch	PIPE RATED FOR DIRECT SUNLIGHT EXPOSURE
PVC SCH 40 MAINLINE Pressure rated with twin gasket couplings and fittings or slip type solvent welded joints		2 inch	
PVC SCH 40 LATERALS AND HEADERS		3/4 inch	
PVC SCH 80 ABOVE GROUND PIPE			PIPE RATED FOR DIRECT SUNLIGHT EXPOSURE
BURIED RISERS AND SWING-JOINT COMPONENTS SCH 80			
PVC FITTINGS All fittings incorporated into system will be of the same type, size and class material as the pipe			
Dripline with COPPER SHIELD for Sub-Surface Irrigation	RAINBIRD DRIPLINE XFS-06-24	0.6 GAL./HR, 24 inch DRIPPER SPACING	
DRIPLINE FITTINGS Use fittings specifically manufactured for all dripline connections, no bending/crimping allowed.			
CONTROL WIRE All low voltage control wire will be color coded. Wire sizes will conform to the controller manufacturer specifications for maximum distances for specific wire sizes. All wire will be specifically manufactured for direct burial. All wire connections and splices will be made in ground boxes. The splice will be completely waterproof and will be completely encapsulated within a King Safety Sealed Irrigation Connector/Splice enclosure or an approved equal			
SOLVENT CEMENT Solvent cement will be the type recommended by the pipe manufacturer			
VALVE BOXES Boxes for section valves, below-ground backflow preventers, and quick coupling valves will be as shown on detail sheet			
VALVE BOX RISERS			

IRRIGATION SYSTEM NOTES:

1. Reference IRRIGATION DETAILS AND MATERIALS sheets 1,2 and 3 for details and requirements.
2. Reference to manufacturer's trade name or catalog number is for the purpose of identification only, Contractor is permitted to furnish like materials of other manufacturers provided they are of equal quality and comply with specifications for this project.



HOUSTON DISTRICT

**IRRIGATION DETAILS
AND MATERIALS**

SHEET 3 OF 3

FILE:	FED DIV 6	STATE TEXAS	PROJECT NUMBER	SHEET
REVISED: FEB 2015 for 2014 specs.	DIST 12	COUNTY	CONTROL SECT	JOB HIGHWAY