

POC ①
 SIZE: 3/4-INCH
 PRESSURE: 55 PSI
 FLOW: 10 GPM

INSTALLATION GENERAL NOTES

1. THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 65 PSI (PER CITY ENGINEER), AT A MAXIMUM DISCHARGE OF 10 GPM AT THE 1 1/4-INCH IRRIGATION POINT-OF-CONNECTION (POC), TAP, METER, BACKFLOW, AND MASTER VALVE SHALL ALL BE THE SAME SIZE. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.
2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
3. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - A. ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
 - B. TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.
 - C. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF TEES IN THE BULLNOSE CONFIGURATION, OR USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.
6. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:
 - A. TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVES.
7. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR. PIPE SLEEVES SHALL BE SIZED TWICE THE NOMINAL SIZE OF THE PIPE PASSING THROUGH.
8. INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
9. THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN THE IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
10. INSTALL TWO (2) #14 AWG CONTROL WIRES ON STANDARD WIRE SYSTEMS, FOR USE AS SPARES. INSTALL SPARE WIRES FROM CONTROLLER LOCATION TO EACH DEAD-END OF MAINLINE. COIL 3 FEET OF WIRE IN VALVE BOX.

CONSTRUCTION NOTES

- ① THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION WATER TAP AND METER INSTALLED BY OTHERS AT THE APPROXIMATE LOCATION SHOWN. INSTALL BACKFLOW PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.
- ② WALL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.
- ③ THE WATER QUALITY HARVESTING DISCHARGE POINT-OF-CONNECTION SHALL BE DOWNSTREAM OF THE WATER QUALITY CISTERN TANK(S) AND PUMP SKID AT THE 1.25-INCH TYPE K COPPER STUB INSTALLED BY OTHERS AT THE APPROXIMATE LOCATION SHOWN. INSTALL ISOLATION GATE VALVE ASSEMBLY AND ROUTE MAINLINE AS INDICATED. VERIFY EXACT LOCATION WITH MECHANICAL ENGINEER AND OWNERS REPRESENTATIVE.

IRRIGATION PIPE SCHEDULE

CLASS 200 PVC PIPE

SIZE	FLOW (GPM)
1"	0-15
1-1/4"	16-25
1-1/2"	26-35
2"	36-55
2-1/2"	55-80
3"	81-110
4"	111-200

IF THERE IS A DISCREPANCY BETWEEN PIPE SIZES SHOWN ON THE DRAWINGS AND THIS PIPE SCHEDULE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE IRRIGATION DESIGNER FOR CLARIFICATION.

IRRIGATION LEGEND

- ▨ SLEEVES: CLASS 200 PVC
- └ POINT-OF-CONNECTION ASSEMBLY
- MAINLINE PIPE: CLASS 200 PVC
1 1/4-INCH SIZE UNLESS OTHERWISE INDICATED
- - - LATERAL PIPE TO BUBBLERS:
1-INCH SIZE UNLESS OTHERWISE INDICATED
- LATERAL PIPE TO BUBBLERS:
1-INCH SIZE UNLESS OTHERWISE INDICATED
- ▨ INLINE DRIP TUBING: NETAFIM TLCV26-12 WITH RAINBIRD XQF DRIPLINE HEADER
- ▨ INLINE DRIP TUBING (BIO-FILTRATION): NETAFIM TLRW26-12 WITH RAINBIRD XQF DRIPLINE HEADER
- ⊗ REMOTE CONTROL DRIP VALVE ASSEMBLY: RAIN BIRD XCZ-PRB-100-COM
- QUICK COUPLING VALVE ASSEMBLY: RAIN BIRD 5RC
- ⊗ ISOLATION GATE VALVE ASSEMBLY: MATCO 514/10RT
- ⊞ FLOW SENSOR ASSEMBLY: WEATHERMATIC SLFSI-T10
- ⊞ BACKFLOW PREVENTION ASSEMBLY: LF850
- ⊞ WATER METER AND CURB STOP ASSEMBLY: BY OTHERS
- ⊞ MASTER VALVE ASSEMBLY: WEATHERMATIC MAX-DW
- ◇ FLUSH CAP ASSEMBLY
- └ UNCONNECTED PIPE CROSSING

- A1 14 1" Turf → INDICATES CONTROLLER AND STATION NUMBER
- INDICATES LATERAL DISCHARGE (GPM)
- INDICATES VALVE SIZE (INCHES)
- INDICATES LANDSCAPE APPLICATION

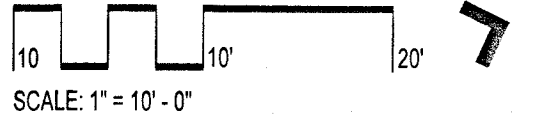
Ⓢ IRRIGATION CONTROLLER UNIT WITH ETHERNET

CONTROLLER A: WEATHERMATIC VAR #11704
 THIS IRRIGATION CONTROLLER INCLUDES A WEATHERMATIC SMARTLINK VAR PACKAGE SYSTEM AND MANAGED SERVICES. PLEASE CONTACT PARRY WEBB WITH WEATHERMATIC FOR PRICING 303-638-6268

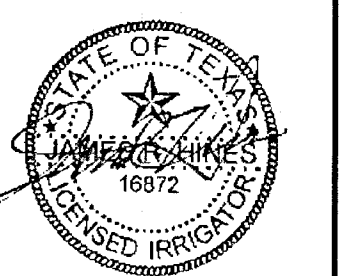
● INLINE TREE RING DRIP ASSEMBLY: RAIN BIRD XFS-CV-09-12

⊗ BUBBLER ASSEMBLY: TWO(2) RAINBIRD 1402
 PRESSURE 30 PSI FLOW: 0.50 GPM EA

MATCHLINE - REF SHEET (IR2)



Hines Inc
 SITE WATER ENGINEERING SERVICES
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 Web: www.hinesinc.com



MAY 22, 2019

44 EAST
 44 EAST AVENUE
 AUSTIN, TRAVIS COUNTY, TEXAS 78701
 IRRIGATION PLAN SOUTH

SITE PLAN APPROVAL SHEET OF _____
 FILE NUMBER: SP-2018-0472C APPLICATION DATE: 10/5/18
 APPROVED BY COMMISSION ON _____ UNDER SECTION 112 OF
 CHAPTER 25-5 OF THE CITY OF AUSTIN CODE
 EXPIRATION DATE (25-5-81, LDC): 9/27/22 PLANNING MANAGER: A. JOHNSON

DIRECTOR, DEVELOPMENT SERVICES DEPARTMENT
 RELEASED FOR GENERAL COMPLIANCE: 9/27/19 ZONING: C80

REV. 1 _____ CORRECTION 1 _____
 REV. 2 _____ CORRECTION 2 _____
 REV. 3 _____ CORRECTION 3 _____

FINAL PLAT MUST BE RECORDED BY THE PROJECT EXPIRATION DATE. IF APPLICABLE. SUBSEQUENT SITE PLANS WHICH DO NOT COMPLY WITH THE CODE CURRENT AT THE TIME OF FILING, AND ALL REQUIRED BUILDING PERMITS AND/OR A NOTICE OF CONSTRUCTION (IF A BUILDING PERMIT IS NOT REQUIRED) MUST ALSO BE APPROVED PRIOR TO THE PROJECT EXPIRATION DATE.

SHEET
IR1
 40 OF 72
 SP-2018-0472C