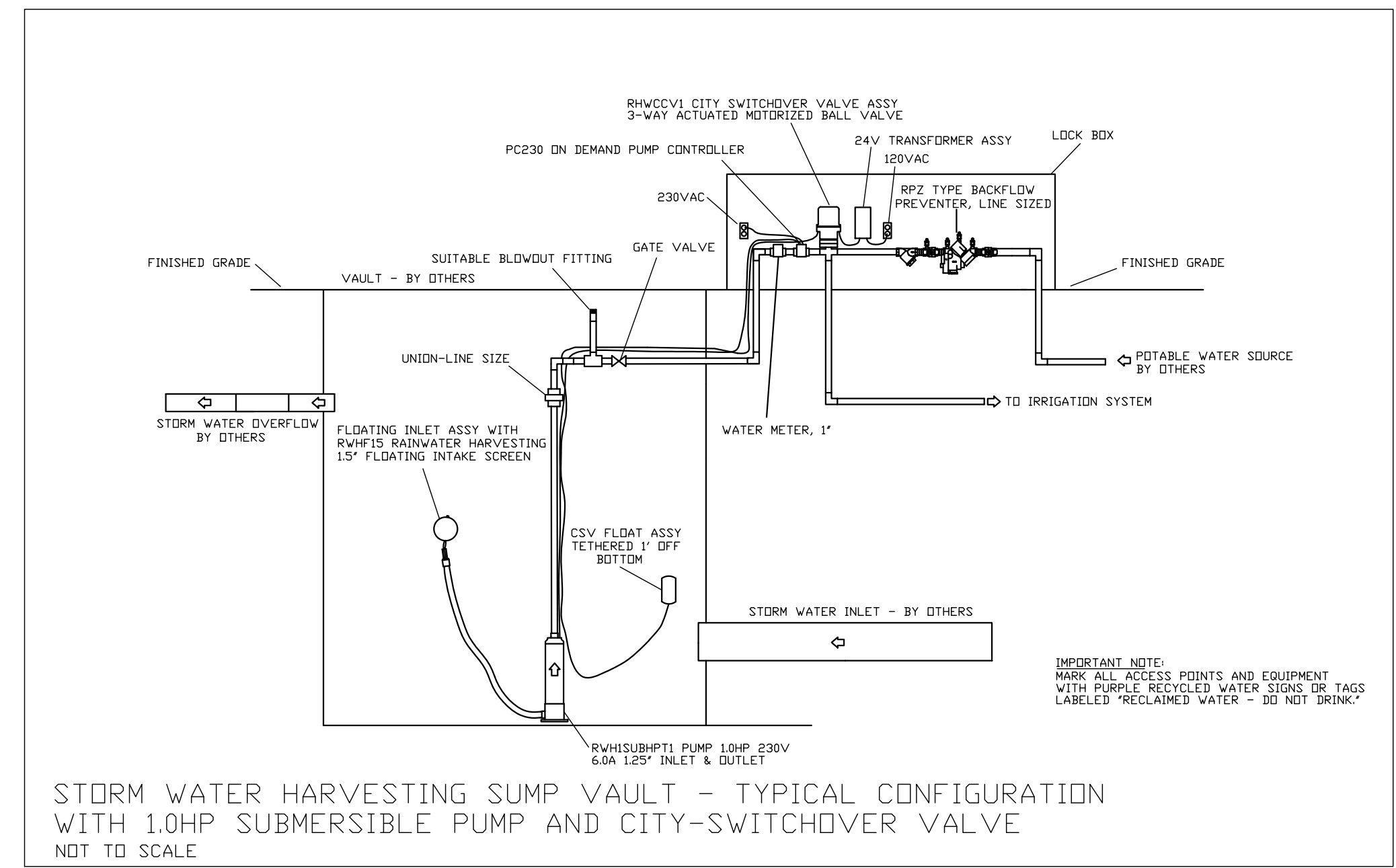


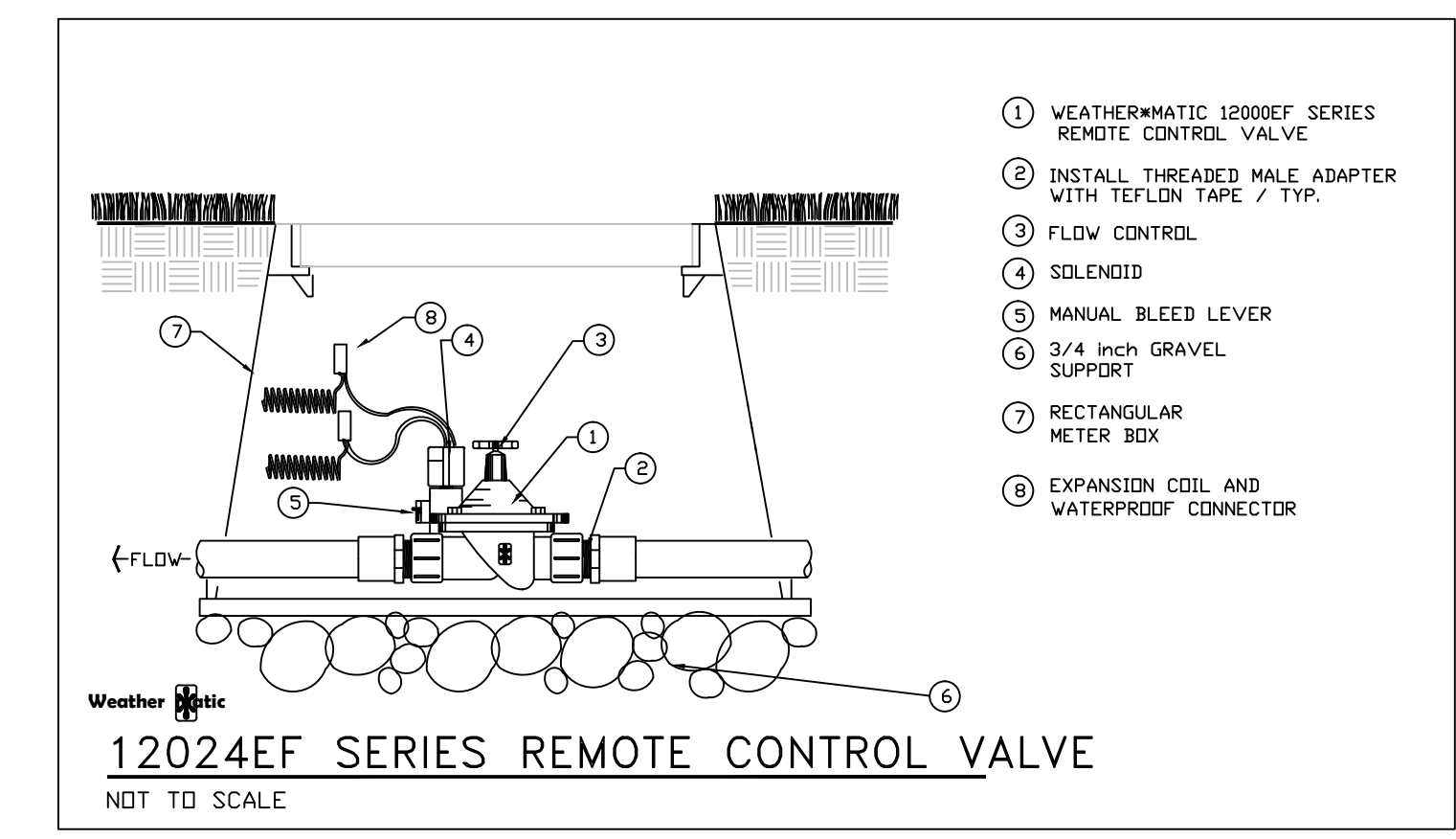
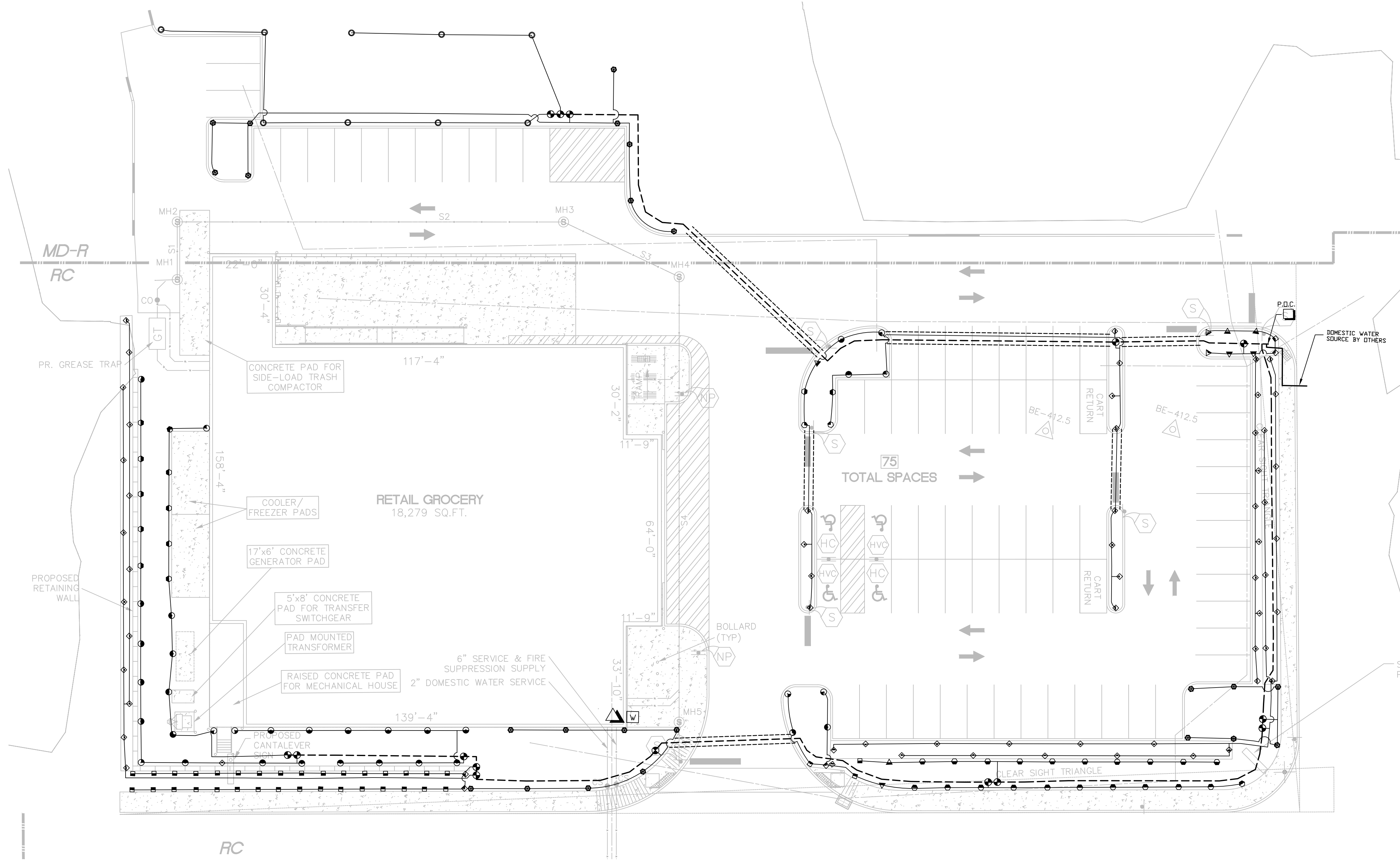
LEGEND

- ▲ WEATHERMATIC SMARTLINE SERIES CONTROLLER (#SL1600) WITH EXPANSION MODULES (#SLM4), 16 STATION
- ☑ WEATHERMATIC SMARTLINE WIRELESS WEATHER STATION (#SLW15)
- ⊕ WEATHERMATIC 12000 SERIES REMOTE CONTROL VALVE, 1" (#12024EF10)
- WEATHERMATIC T3 TURBO SERIES SPRINKLER (ADJ ARC #T3, 360° ARC #T3-36)
NOZZLES: 90°=1; 180°=3; 270°=3.5; 360°=3
- ⊙ TORO 5702XF (#5702-XXP-XF) SERIES SPRINKLER WITH PRECISION SERIES ROTATING NOZZLE
- ⊙ TORO 5702XF (#5702-XXP-XF) SERIES SPRINKLER WITH 15' PRECISION SERIES SPRAY NOZZLE
- ⊙ TORO 5702XF (#5702-XXP-XF) SERIES SPRINKLER WITH 12' PRECISION SERIES SPRAY NOZZLE
- ⊙ TORO 5702XF (#5702-XXP-XF) SERIES SPRINKLER WITH 10' PRECISION SERIES SPRAY NOZZLE
- ⊙ TORO 5702XF (#5702-XXP-XF) SERIES SPRINKLER WITH 8' PRECISION SERIES SPRAY NOZZLE
- ⊙ TORO 5702XF (#5702-XXP-XF) SERIES SPRINKLER WITH 5' PRECISION SERIES SPRAY NOZZLE
- ⊙ TORO 5702XF (#5702-XXP-XF) SERIES SPRINKLER WITH SPECIAL PATTERN PRECISION SERIES SPRAY NOZZLE
- MAINLINE: CLASS 200 SDR 21 PVC PIPE, 1.5" UNLESS NOTED
- LATERAL: CLASS 200 SDR 21 PVC PIPE, 1" UNLESS NOTED
- SLEEVING - TWO SIZES LARGER THAN THE TOTAL DIAMETER OF PIPE PASSING THROUGH
- SCHEDULE 40 PVC FOR SIZES 4" OR SMALLER
- CLASS 200 SDR 21 PVC FOR SIZES LARGER THAN 4"
- IRRIGATION POINT OF CONNECTION: STORMWATER HARVESTING SYSTEM AND CITY CONNECTION - SEE STORM WATER HARVESTING SUMP VAULT DETAIL



IRRIGATION NOTES:

1. IRRIGATION POINT OF CONNECTION SHALL BE CAPABLE OF DELIVERING A VARIABLE FLOW RATE OF 5-16 GPM AT A CONSTANT PRESSURE OF 55 PSI DOWNSTREAM OF BACKFLOW PREVENTION DEVICE. POINT OF CONNECTION SHALL BE ABLE TO MAINTAIN THE MAXIMUM FLOW RATE AND PRESSURE FOR THE DURATION OF AN IRRIGATION CYCLE. CONTRACTOR SHALL VERIFY THESE PARAMETERS PRIOR TO CONSTRUCTION, AND NOTIFY OWNER'S REPRESENTATIVE AND IRRIGATION CONSULTANT IF THEY CANNOT BE MET.
2. IF THE POINT OF CONNECTION EXCEEDS THE ABOVE PRESSURE REQUIREMENTS, A PRESSURE REGULATOR SHALL BE INSTALLED AT THE OWNER'S EXPENSE. PRESSURE REGULATOR SHALL BE SET AT THE PRESSURE RECOMMENDED ABOVE.
3. AN RPZ TYPE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED IN A MANNER SATISFYING LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS.
4. POWER FOR THE IRRIGATION CONTROLLER, PUMP AND OTHER ELECTRICAL COMPONENTS SHALL BE PROVIDED BY OTHERS. CONTRACTOR SHALL VERIFY POWER AVAILABLE MEETS THE REQUIREMENTS OF THE COMPONENT'S MANUFACTURER. IF POWER AVAILABLE IS INADEQUATE, CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
5. IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE. MINOR FIELD ADJUSTMENTS MAY BE NECESSARY TO ACCOMMODATE FOR LANDSCAPING CHANGES, PLANTING BEDS OR OTHER OBSTRUCTIONS. THESE ADJUSTMENTS MAY BE MADE ONLY AFTER NOTIFYING THE OWNER'S REPRESENTATIVE.
6. SOME IRRIGATION COMPONENTS AND PIPING ARE SHOWN IN HARDSCAPE AREAS AND OUTSIDE OF PROPERTY LINES TO IMPROVE ON THE READABILITY OF THE IRRIGATION PLAN. ALL COMPONENTS AND PIPING SHALL BE INSTALLED INSIDE OF THE PROPERTY LINES AND OUTSIDE OF HARDSCAPE AREAS.
7. MAINLINE, LATERALS AND CONTROL WIRES SHALL BE INSTALLED INSIDE THE SAME TRENCH WHENEVER POSSIBLE.
8. SYSTEM TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
9. CONTROLLER SHALL BE GROUNDED PER MANUFACTURER'S SPECIFICATIONS.
10. CONTROL WIRES SHALL BE NO. 14 AWG OR LARGER COPPER WIRE UL-APPROVED FOR DIRECT BURIAL IN GROUND. COMMON WIRE SHALL BE NO. 14 AWG OR LARGER COPPER WIRE UL-APPROVED FOR DIRECT BURIAL AND WHITE IN COLOR. SPARE WIRES SHALL BE NO. 14 AWG OR LARGER COPPER WIRE UL-APPROVED FOR DIRECT BURIAL AND BLUE IN COLOR. TWO SPARE WIRES SHALL BE RAN TO THE END OF EACH MAINLINE SPUR. ALL OTHER CONTROL WIRES SHALL HAVE A COLOR OTHER THAN WHITE, YELLOW, OR BLUE. 18 AWG MULTI-STRAND IRRIGATION WIRE MAY BE USED AT THE CONTRACTOR'S DISCRETION.
11. ALL FIELD WIRE ABOVE GRADE OR WITHIN STRUCTURE TO BE INSTALLED IN CONDUIT PER LOCAL CODE.
12. ALL UNDERGROUND SPLICES TO UTILIZE 3M DBY, DBR, OR KING WATER PROOF SPLICE KITS, DEPENDING ON NUMBER AND SIZE OF WIRES. ALL SPLICES SHALL BE MADE INSIDE A VALVE BOX.
13. DEPTH OF IRRIGATION PIPING: 8-12" ON MAINLINE; 6-8" ON LATERALS.
14. SLEEVING UNDER PAVED AREAS SHALL BE INSTALLED AT A DEPTH OF 24".
15. DUE TO TIME CONSTRAINTS, A PENNSYLVANIA ONE CALL WAS NOT PERFORMED DURING THE PREPARATION OF THESE PLANS. CONTRACTOR SHALL VERIFY UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION. PENNSYLVANIA ONE CALL SYSTEM DIAL 8-1-1.
16. SPRINKLERS INSTALLED IN TURF SHALL HAVE A POP-UP STROKE OF 4 INCHES. SPRINKLERS INSTALLED IN PLANT OR MULCH BEDS SHALL HAVE A POP-UP STROKE OF 12 INCHES.
17. SPRINKLERS SHALL BE INSTALLED FLUSH AND PLUMB WITH FINISHED GRADE UTILIZING FUNNY PIPE. FUNNY PIPE SHALL NOT BE LONGER THAN 4' UNDER ANY HEAD WITH ONLY ONE HEAD PER FUNNY PIPE RUN. CONNECTIONS MAY ONLY BE MADE TO THE BOTTOM INLET OF SPRINKLER.
18. CHECK VALVES SHALL BE INSTALLED ON ALL SPRINKLERS.
19. ALL SPRINKLERS AND VALVES SHALL BE INSTALLED WITH PURPLE MARKINGS THAT ARE AVAILABLE FROM THE COMPONENT'S MANUFACTURER SHOWING THAT WATER BEING DISTRIBUTED IS NOT SUITABLE FOR CONSUMPTION.
20. THIS DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWINGS SUPPLIED BY THE CLIENT OF RECORD WITH DESIGN CRITERIA BEING SET BY THE CLIENT AND/OR PROJECT OWNER. AQUARIUS SUPPLY OR ITS CONTRACTED PREPARER BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR APPLICATION WHICH MIGHT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCE INFORMATION SUPPLIED TO AQUARIUS SUPPLY IN RELATION TO THIS SPECIFIC PROJECT UNLESS OTHERWISE NOTED.
21. ANY QUESTIONS OR CONCERNS ASSOCIATED WITH THIS IRRIGATION PLAN SHALL BE DIRECTED TO AQUARIUS SUPPLY. 610.231.2009



- 1 WEATHERMATIC 12000EF SERIES REMOTE CONTROL VALVE
- 2 INSTALL THREADED MALE ADAPTER WITH TEFLON TAPE / TYP.
- 3 FLOW CONTROL
- 4 SOLENOID
- 5 MANUAL BLEED LEVER
- 6 3/4 inch GRAVEL SUPPORT
- 7 RECTANGULAR METER BOX
- 8 EXPANSION COIL AND WATERPROOF CONNECTOR

LANDSCAPE SPRINKLER SYSTEM DESIGN:
BOTTOM DOLLAR STORE
 FOUNTAIN HILL BOROUGH, LEHIGH COUNTY, PENNSYLVANIA

AQUARIUS SUPPLY
 WHERE THE PROFESSIONAL CONTRACTOR COMES FIRST™
 131 LLOYD STREET
 ALLENTOWN, PA 18109
 PHONE: 610.231.2009
 FAX: 610.231.2795
 MAY NOT COPY OR USE WITHOUT PERMISSION

NO UTILITIES WERE PROVIDED FOR IN THESE DRAWINGS UTILITIES THAT ARE NOT SHOWN ARE THE RESPONSIBILITY OF THE CONTRACTOR. VERIFY THE LOCATION OF ALL UTILITIES BEFORE ANY EXCAVATION AND MAKE ADJUSTMENTS TO THE DRAWINGS AS NECESSARY.

THIS DESIGN IS A SCHEMATIC PLAN REPRESENTING DESIRED COVERAGE AND LAYOUT BASED ON THE INFORMATION PROVIDED. CONTRACTOR SHALL VERIFY THE ACCURACY AND ADEQUACY OF ALL UTILITIES BEFORE ANY EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.

IF ANY DISCREPANCIES ARE FOUND BETWEEN THESE DRAWINGS AND THE FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE DESIGNER IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONSTRUCTION.

ALWAYS THINK SAFETY!

DATE: 02/14/2011
 JOB: KDS1035.02
 DRAWN BY: M.A.K.
 SCALE: 1"=20'
 SHEET: 1 OF 1

