

IRRIGATION WORKSHEET

SPRINKLERS			
Zone	Qty	Type	Description

CONTROL VALVES			
Line	Qty	Symbol	Description
1			
2			

MAINLINE PIPE			
	Qty	Symbol	Description
1			
2			

SLEEVING			
	Qty	Symbol	Description
1			
2			

IRRIGATION ACCESSORIES			
	Qty	Symbol	Description
1			
2			
3			
4			
5			

SENSORS			
	Qty	Symbol	Description
1			
2			

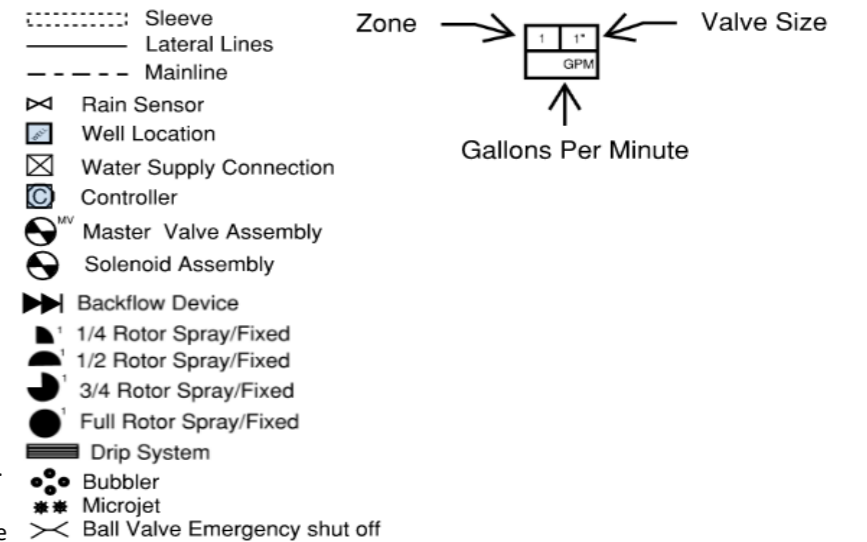
Submittal Package Shall Include:

- | | |
|---|--|
| 1. Site plan with irrigation layout | 4. Owl/Gopher Tortoise Affidavit |
| 2. Irrigation Worksheet | 5. NOC if valuation is \$5,000.00 or greater |
| 3. Manufacturer specifications, controller, rain sensor, sprinkler heads, etc. along with GPM rating for proper verification of calculations. | |

Notes:

1. All water piping is sized to assure that the maximum water velocity does not exceed 5 fps.
2. Recommended systems should be designed to a 80% zone capacity.
 - a) 1" mainline pipe -15 gpm x 0.8 = 12 gpm
 - b) 1 1/4" mainline pipe - 24 gpm x 0.8 = 20 gpm
3. City approved plans and instruction manuals shall be kept on-site during the installation of the irrigation system. The "As-Built" and controller manual shall be left on-site after installation. The manual shall include information regarding routine maintenance.
4. A sticker shall be applied to the inside front cover of the controller providing the installer's contact information & warranty.
5. Control valve wiring is U/L listed for burial. Splices are water resisted per manufacturer specifications and in compliance with NEC 70 - 2020.
6. PVC must have a purple primer that conforms to ASTM F656 and shall be applied to PVC solvent-cemented joints. Solvent cement for PVC purple plastic pipe conforming to ASTM D2564 shall be applied to all joint surfaces.
7. Schedule 40 PVC is required for all static pressurized water lines. PVC purple pipe is mandatory for all non-potable water sources including irrigation systems. Burial depth shall be 12" for all static pressure lines and 6" for all lateral lines.
8. The irrigation system shall be designed to achieve a minimum of 70% distribution uniformity by providing sprinkler head placement and nozzle selection that are within the manufacturer's specifications.
9. Irrigation systems shall be designed to comply with F.S. Tit. XXVIII, Ch. 373, § 228, and the standards adopted by the City of Cape Coral and reference the Florida Building Code, Plumbing Volume, Appendix F. 8th Edition (2023)
10. Irrigation/sprinkler system risers for all heads shall discharge at least 1 foot (305 mm) away from the structure sidewall.
11. Low Voltage Wire
 - a) All low voltage wire which is directly buried must be labeled for direct burial wire. All wire traveling under any hardscape or roadway must be installed within a separate pipe and sleeve from the irrigation lines.
 - b) The size of the electrical control wire shall be in accordance with the valve manufacturer's specifications, based on the solenoid in-rush amperage and the circuit length, considering the number of solenoids operating, on the circuit. Minimum of #14 AWG single strand control wire shall be used on all systems, except single lot individual residential systems. Minimum of #18 AWG single strand control wire shall be used on all single lot individual residential systems.
12. All pop-up spray head bodies in turf areas shall be no less than 6 inches in height for St. Augustine, Zoysia and Bahia and no less than 4 inches in height for Bermuda, Centapede and Seashore Paspalum.
13. Flexible pipe connection required on heads in maintenance vehicle traffic area.
14. Manual shut off required on pressurized side of all filters and zone valves.
15. Pipes running parallel to road must be 24" off the edge of pavement.

Typical Legend Symbol



Water Source #1	
Meter Size/Reclaim System - Size of Connection (55 psi)*	
Well (65 psi)*	

*Pressures may fluctuate



Created 7/24/24

Name, Address, Phone, Email, Phone Number, Professional License or Certification Number of the Installation Contractor:	Site Address:
	Site plan to include site address, scale, north arrow, all structures located on property, setbacks, equipment pads, walkways, driveway, and complete irrigation layout.