



DEVELOPMENT SERVICES

CITY OF FRISCO

GEORGE A. PUREFOY MUNICIPAL CENTER
6101 FRISCO SQUARE BLVD · 3RD FLOOR
FRISCO, TEXAS 75034
TEL 972.292.5300 · FAX 972.292.5388
WWW.FRISCOTEXAS.GOV

IRRIGATION PLAN REVIEW CHECKLIST

- Two (2) sets of the Irrigation Plan are required to be submitted for review.

IRRIGATION PLAN DESIGN - MINIMUM STANDARDS

- A. Complete coverage of area to be irrigated. If an irrigation system does not provide complete coverage of an area to be irrigated, it must be noted on the Irrigation Plan submitted for review.
- B. All Irrigation Plans used for construction must be legible and drawn to scale on a maximum sheet size of 8 ½" x 14" (legal-sized). The Irrigation Plan must include the following information:
- Irrigator's seal, signature, and date
 - All major physical features and boundaries of the areas to be watered;
 - 'North Arrow';
 - Legend;
 - Zone flow measurement for each zone
 - Location and type of each:
 - smart (ET) controller; and
 - sensor (i.e. rain, moisture, wind, flow, or freeze)
 - Location, type, and size of each:
 - Water source - a separate water meter, point(s) of connection of backflow prevention device;
 - Water emission device (i.e. spray heads, rotary sprinkler heads, quick-couplers, bubblers, drip, and/or micro-sprays);
 - Valve (i.e. zone valves, master valves, and isolation valves);
 - Pressure regulation component; and
 - Main line and lateral piping
 - Backflow Protection
 - Y Strainer
 - Automatic Master Valve

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IRRIGATION PLAN DESIGN - MINIMUM STANDARDS *(Continued)*

C. Additional information required for Irrigation Plan Approval

- Wiring splice locations
- Engineer's scale used
- Design pressure
- Spacing
- No spray or rotor head within ten (10') feet from curb (MSMTR heads with 0.5 IPH max. acceptable)
- No spray heads on slopes (4:1 ratio) or greater
- Water pressure. Flow control valves, a pressure regulator, or pressure compensating spray heads.
- Piping. Piping in irrigation system(s) must be designed and installed so the flow of water inside the pipe will not exceed a velocity of five (5') feet per second for polyvinyl chloride (PVC) pipe.
- Irrigation Zones as 'hydro zones'
- Matched precipitation rate
- Irrigation systems shall not spray water over surfaces made of concrete, asphalt, brick, wood, stones set with mortar, or any other impervious material, such as, but not limited to, walls, fences, sidewalks, streets, etc.
- When applicable, a separate station shall be dedicated for drip irrigation for the purpose of watering a structure's foundation.
- Master valve. A flow control master valve shall be installed on the discharge side of the backflow prevention device on all new installations.
- Check valves. Check valves are required where elevation differences may result in low head drainage. Check valves may be located at the sprinkler head(s) or on the lateral line
- Installation details for irrigation components