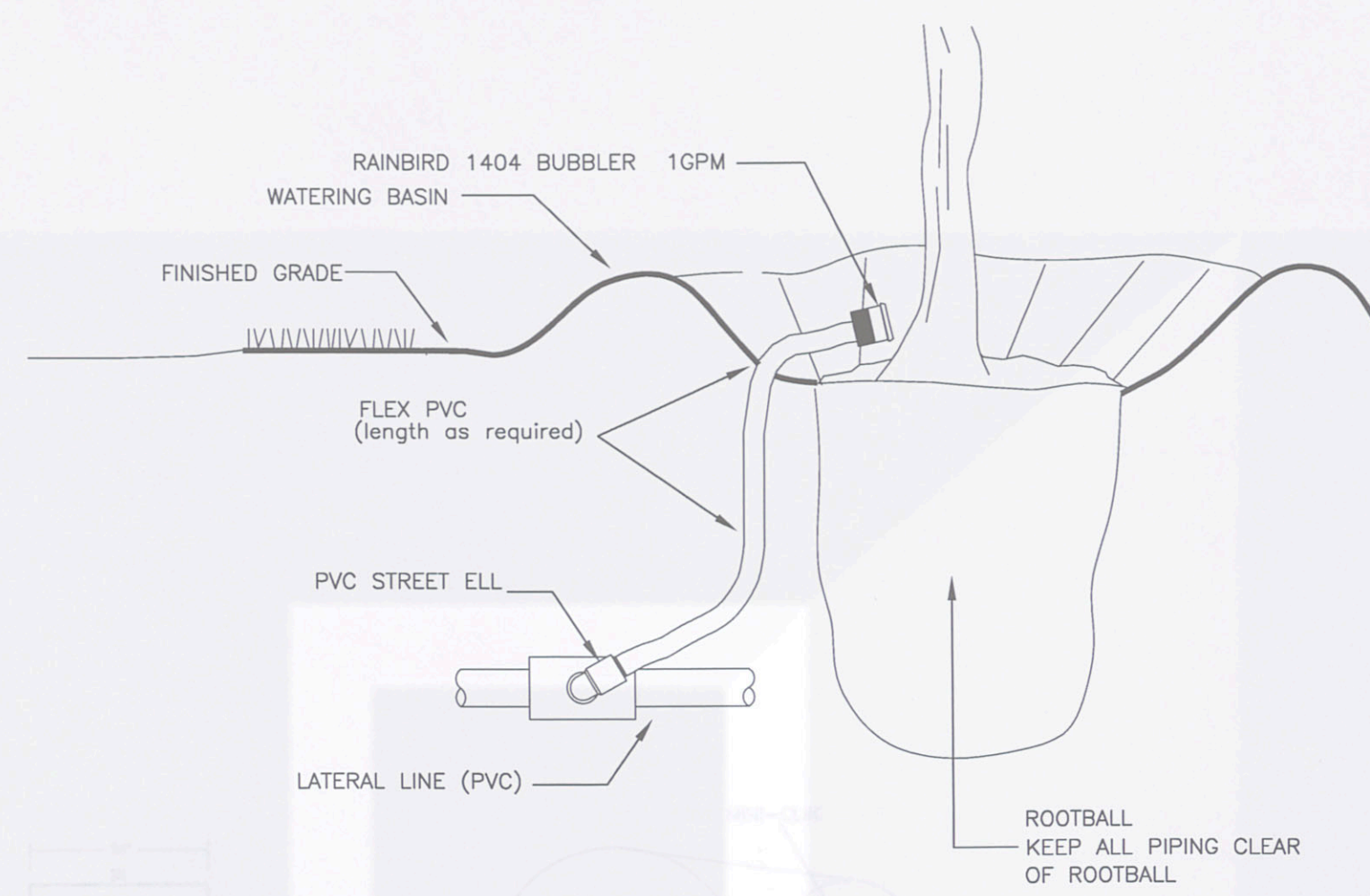


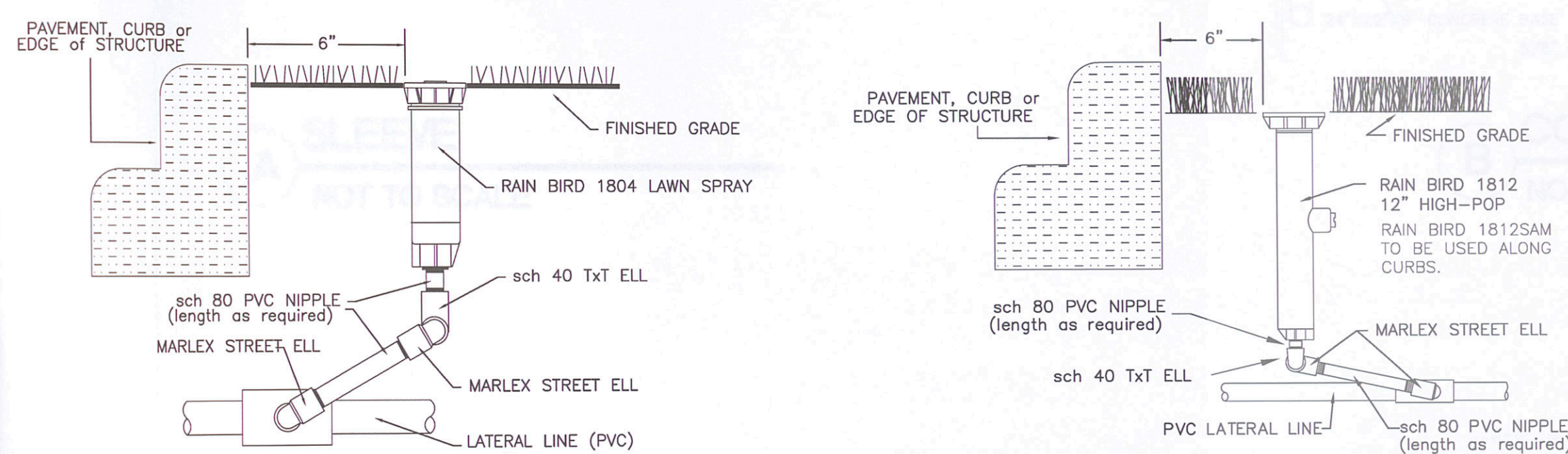
## I TRENCH

NOT TO SCALE



## E TREE / SHRUB BUBBLER

NOT TO SCALE

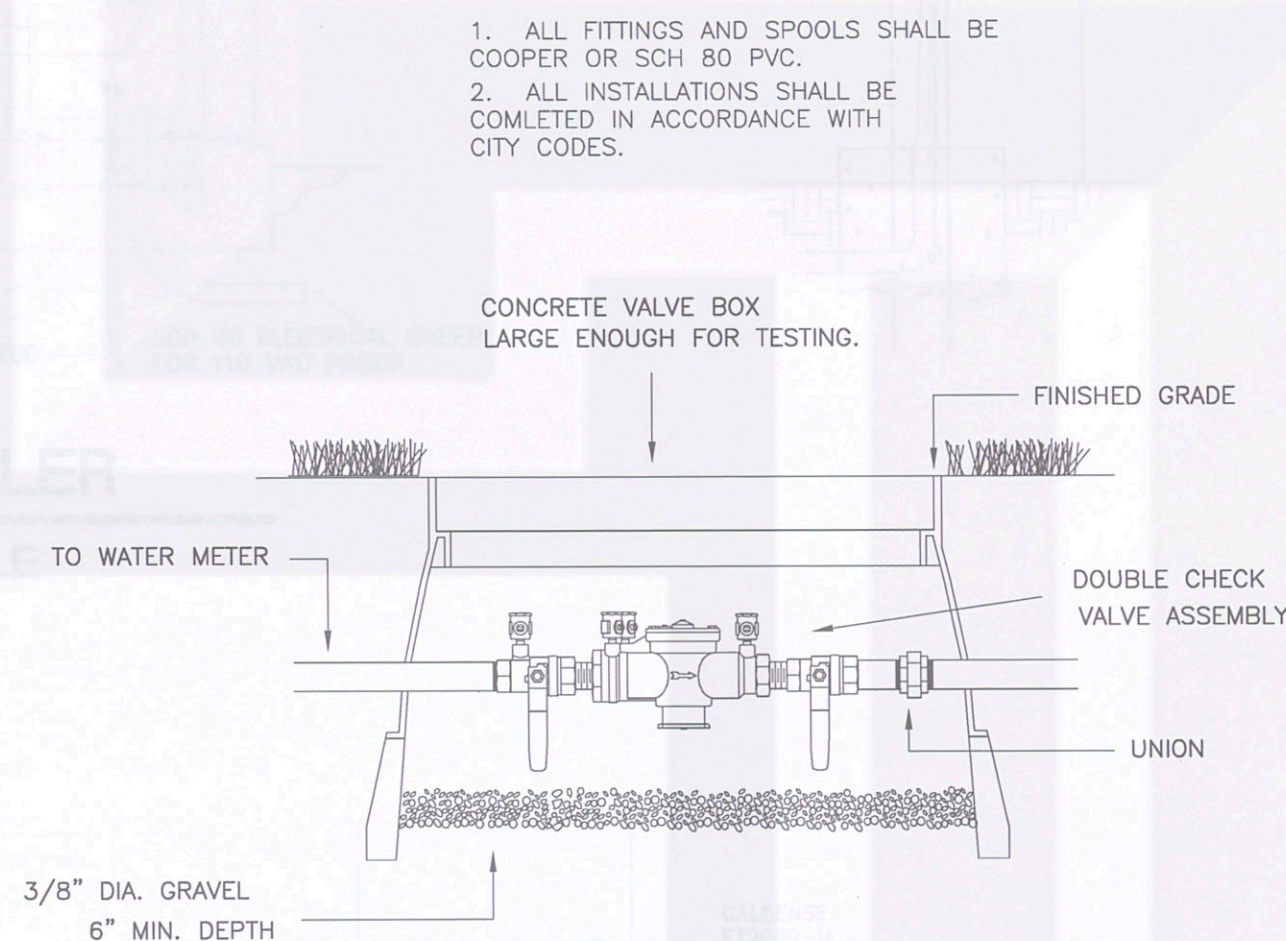


## H LAWN SPRAY HEAD

NOT TO SCALE

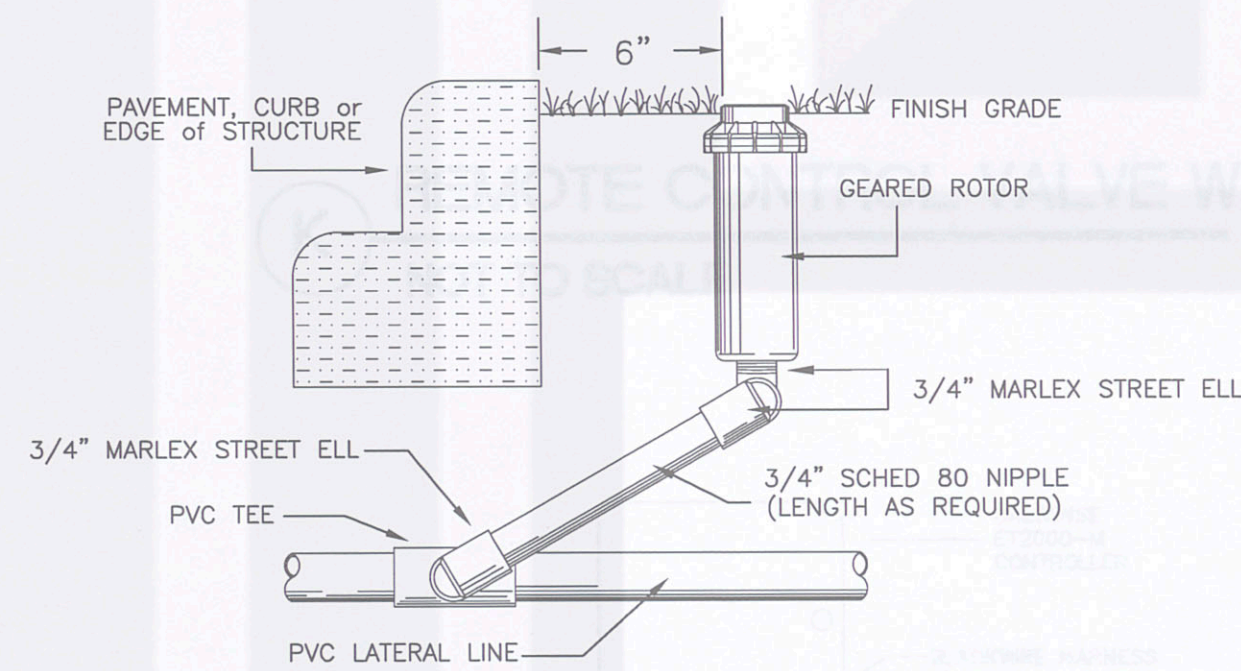
## G HIGH-POP SPRAY HEAD

NOT TO SCALE



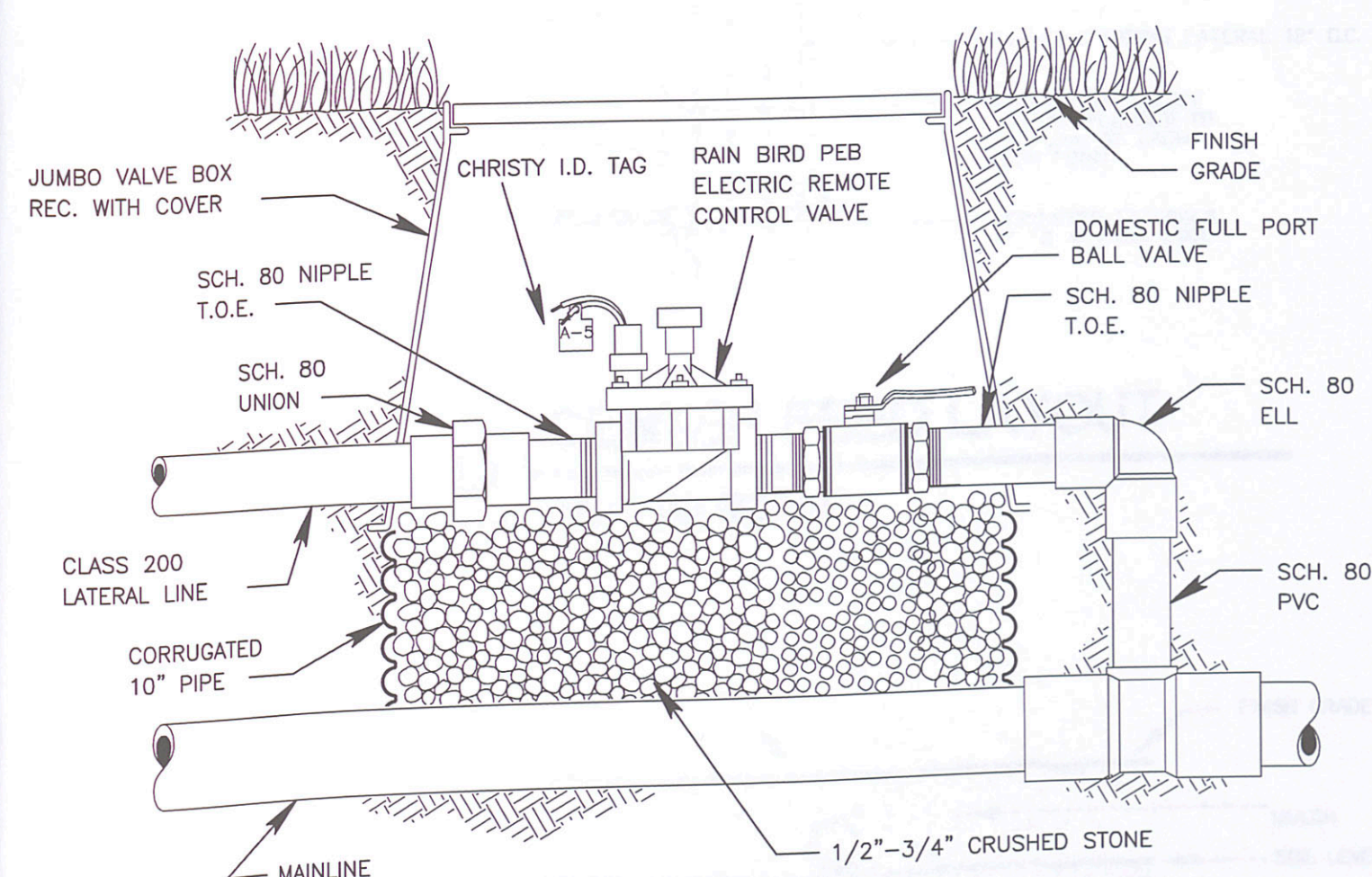
## D BACKFLOW

NOT TO SCALE



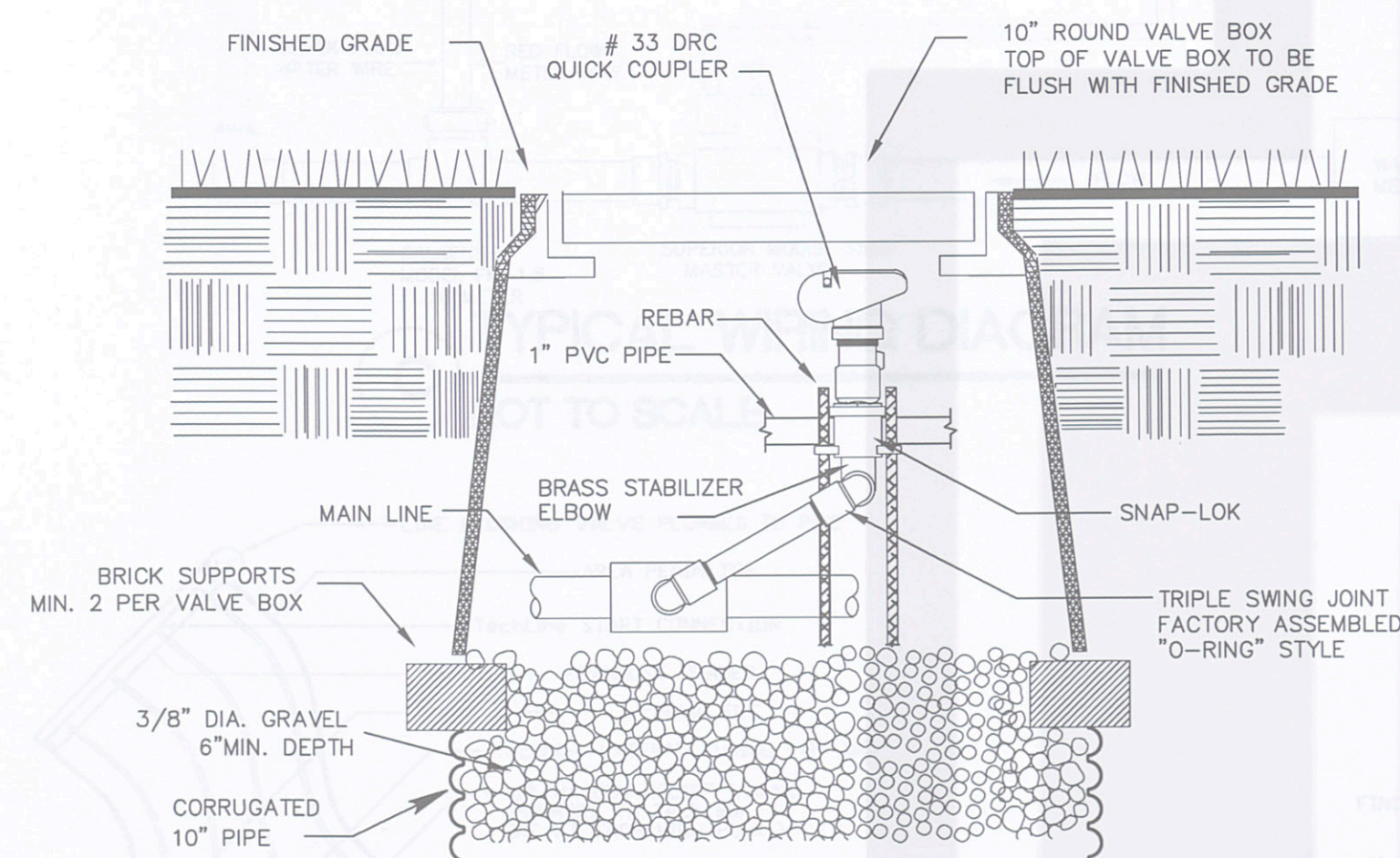
## B ROTOR

NOT TO SCALE



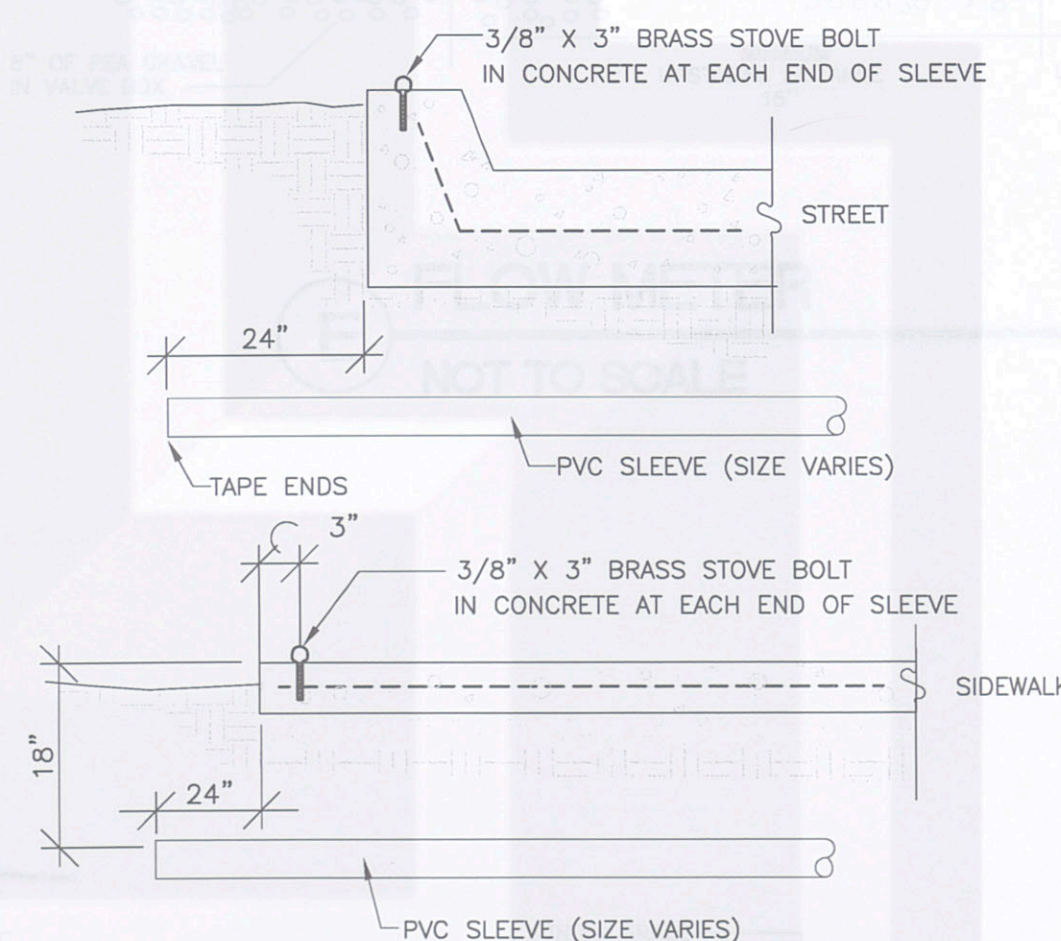
## F REMOTE CONTROL VALVE

NOT TO SCALE



## C QUICK COUPLING VALVE

NOT TO SCALE



## A SLEEVE

NOT TO SCALE

## LEGEND

- ● RainBird 5000-PL-PC-SAM-MPR-35 Full / Half / Quarter
- ● RainBird 5000-PL-PC-SAM-MPR-30 Full / Half / Quarter
- ■ RainBird 5000-PL-PC-SAM-MPR-25 Full / Half / Quarter
- ● RainBird 1804-SAM-PRS w/ 15F, H, Q MPR Plastic Nozzle
- ● RainBird 1804-SAM-PRS w/ 12F, H, Q MPR Plastic Nozzle
- ● RainBird 1804-SAM-PRS w/ 10F, H, Q MPR Plastic Nozzle
- ● RainBird 1804-SAM-PRS w/ 8F, H, Q MPR Plastic Nozzle
- ▲ ▲ RainBird 1804-SAM-PRS w/ 5F, H, Q MPR Plastic Nozzle
- □ RainBird 1804-SAM-PRS w/ 15SST MPR Plastic Nozzle
- ▽ ▽ RainBird 1804-SAM-PRS w/ 15EST, 15CST MPR Plastic Nozzle
- ● RainBird 1806-SAM-PRS w/ MP 2000 F, H, Q Rotary Nozzle
- ◆ ◆ RainBird 1806-SAM-PRS w/ MP 3000 F, H, Q Rotary Nozzle
- □ RainBird 1812-SAM-PRS w/ 15F, H, Q MPR Plastic Nozzle
- ● RainBird 1812-SAM-PRS w/ 12F, H, Q MPR Plastic Nozzle
- ● RainBird 1812-SAM-PRS w/ 10F, H, Q MPR Plastic Nozzle
- □ RainBird 1812-SAM-PRS w/ 8F, H, Q MPR Plastic Nozzle
- ▲ ▲ RainBird 1812-SAM-PRS w/ 5F, H, Q MPR Plastic Nozzle
- □ RainBird 1812-SAM-PRS w/ 15SST MPR Plastic Nozzle
- ■ RainBird 1812-SAM-PRS w/ 15EST, 15CST MPR Plastic Nozzle
- RainBird 1404 Bubbler Installed on Flexible Tubing
- ◆ RainBird PESB-PRS-B Series Valve - size as noted on plan
- ◆ RainBird PESB-PRS-B Series Valve w/120 mesh filter - size as noted on plan
- Normally Open Master Valve - Superior 3300 Series Valve - size as noted on plan
- Flow Sensor: CalSense FM-2
- Backflow - Size and type as shown on plan
- RainBird #33DNP Quick Coupling Valve w/ unitized swing joint
- Line Size Gate valve
- Controller Calsense ET2000-40-MR-FL-SSE w/Mini-Click
- 2" Water Meter

■ Drip Bed Installation w/Techline tubing TLCV6-1210 Install as per details

— Main Line Class 200 RT and/or Sch 40 PVC Main Line - Purple -size as shown on plan

— Class 200 PVC Lateral Line - Size as shown on plan

— 6" Sch 40 PVC Sleeve

— Controller / Station Sequence No.

— Gallons per Minute (GPM)

— Valve Size

## IRRIGATION NOTES:

1. All mainline and lateral line piping and control wires under paving shall be installed in separate sleeves. Lateral line sleeves shall be a minimum of twice (2X) the diameter of the pipe to be sleeved. Mainline sleeves to be adequate size to allow for removal and repair of piping. Control wire sleeves shall be of sufficient size for the required number of wires under paving.
2. Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged and injected pipe shall be removed from the site at the time of said rejection.
3. Contractor to install all backflow prevention devices and all piping between the point of connection and the backflow preventer as per local and governing authorities.
4. Final location of the backflow preventer and automatic controller shall be approved by the owner's authorized representative.
5. 120 VAC electrical power source at controller location shall be provided by others. The irrigation contractor shall make the final connection from the electrical source to the controller.
6. All sprinkler heads shall be set perpendicular to finish grade unless otherwise specified. Heads shall be black in color.
7. The irrigation contractor shall flush and adjust all sprinkler heads and valves for optimum coverage with minimal overspray onto walks, streets, walls, etc.
8. This design is diagrammatic. All piping, valves, etc., shown within paved areas is for design clarification only. Adjust head and line location with approval of Landscape Architect to accommodate existing job conditions.
9. It is the responsibility of the irrigation contractor to familiarize himself with all grade differences, location of retaining walls, structures and utilities. The irrigation contractor shall repair or replace all items damaged by his work. He shall coordinate his work with other contractors for the location and installation of pipe sleeves through walls, under roadways and paving, etc.
10. All work shall be installed in accordance with applicable codes and ordinances of the City of Austin, Texas and the National Electrical Code and all governing authorities.
11. All control wire shall be direct burial 600 volt, single conductor solid copper, plastic insulated cable rated for direct burial applications, U.F., U.L. approved 14 gauge A.W.G. (minimum 1) pilot and common ground return wire. Each controller to have a different color lead wire and common wire. Two (2) spare wires shall be installed from controller to the farthest valve in each direction.
  - Station Wire - any color except white or orange
  - Common Wire - White
  - Extra wires - Orange
12. The sprinkler system design is based on a minimum static pressure of 60 psi and a maximum flow demand of 7777 gpm. The irrigation contractor shall verify water pressures prior to construction. Report any difference between the water pressure indicated on the drawings and the actual pressure reading at the irrigation point of connection to the owner's authorized representative.
13. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the owner's authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.
14. All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
15. The irrigation contractor shall install serviceable check valves on all heads in areas where finish grade exceeds 4:1, where post valve shutoff draining of the irrigation head occurs or as directed by the owner's authorized representative.
16. The contractor shall be a Registered License Irrigator in the State of Texas. Contractor must conform to all codes as stated in section 34 of the Texas Water Code and TCEQ.
17. All remote control valves, gate valves, quick couplers, control wire and computer cable pull points shall be installed in approved valves boxes with locking covers.
18. Waterproof Connectors to be used on all wire connections. Submit sample to landscape architect.
19. Irrigation Contractor shall procure all permits license, and pay all charges and fees and give all necessary notices for the completion of work.
20. Refer to specifications for additional detailed information.
21. All valves to be adjusted to minimize fogging and maximized coverage. Do not adjust at the head unless absolutely necessary.
22. Contractor shall not disturb roots of existing trees. There shall be no machine trenching below the dripline of existing trees.
23. Extreme care shall be exercised in excavating and working near utilities. Contractor shall verify the location and condition of all utilities and be responsible for damage to any utilities.
24. Contractor shall clearly mark all exposed excavations, materials and equipment. Cover or barricade trenches when the contractor is not on the site. Take all necessary safety precautions to protect and prevent injury to any persons on the site.
25. All automatic irrigation systems shall be equipped with a controller capable of dual or multiple programming. Controllers shall have multiple cycle start capacity and a flexible calendar program, including the capacity of being set to water every five days. All automatic irrigation systems shall be equipped with a rain sensor shutoff device.
26. Irrigation in Texas is regulated by the Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087.

A JOINT VENTURE OF:

ENDEAVOR  
SIMON  
REAL ESTATE GROUP

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Project:

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SHEET TITLE:  
IRRIGATION DETAILS

Sheet No.  
L1.513