

1. This design is diagrammatic. All components shall be installed in landscape areas regardless of if locations are shown in paved areas or if the property. No irrigation is to be installed outside the property with the exception of r.o.w. irrigation.
2. System has been designed to conform to applicable code requirements. Should any conflicts exist, requirements of the code shall prevail.
3. All system components are to be installed per manufacturers specifications.
4. Pipe sizes shall conform to sizes indicated. Smaller sizes will not be allowed, but larger sizes may be allowed.
5. Irrigation Contractor shall familiarize himself with all system requirements, existing grade conditions, structures, paving & utilities. Irrigation Contractor shall be responsible for coordinating all work with other contractors for the location of sleeves as required and coordinate with the Landscape Contractor to ensure coverage at all planted areas and that the proper heads are installed based on plant type.
6. Landscape Contractor shall not install any portion of the system, willingly knowing that unknown obstructions or existing site conditions have not been addressed in the system engineering which would cause the completed system to operate in an inferior way. Irrigation Contractor shall bring any such issues to the attention of the owners representative. If this notification does not take place, Irrigation Contractor shall assume full responsibility for any necessary changes.
7. Irrigation Contractor shall flush and adjust all sprinkler heads for optimum coverage with no oversprays on lawns, walks or street. etc. Low angle and variable nozzles may be substituted for standard spray nozzles to achieve this.
8. All pipe and wire installed beneath paving shall be sleeved in SCH 40 PVC pipe.
9. All threaded PVC joints shall be made using SCH 80 PVC nipple studs and solvent weld compounds. No threaded adapters are allowed. All other PVC joints shall be of the same type as the specified pipe i.e: "Or ring or solvent weld."
10. All sprinkler heads with flow rates of 7 gpm or less shall be mounted on flex type swing joints. Flex type pipe may be used for swing joints only and not lateral lines.
11. Specified shrub heads may be substituted for 4" (or less) pop-up heads as landscape dictates. Riser extenders may be used on pop-up-heads. All shrub risers shall be SCH 40 PVC and painted flat black. Risers shall be supported with re-bar or angle iron secured w/s.s. clips.
12. System has been designed to provide 100% coverage with 100% overlap. All water used for system shall be rust free.

Symbol	Tro Plan#	Type	PS	GPM	Rad
	5702 4P-10-Q-PC	4" pop up spray	30-40	.33	10"
	5702 4P-15-H-PC	4" pop up spray	30-40	.66	10"
	5702 4P-15-Q-PC	4" pop up spray	30-40	.75	15"
	5702 4P-15-H-PC	4" pop up spray	30-40	1.50	15"
	5702 4P-4-EST-PC	4" pop up spray	30-40	.43	4'X15'
	5702 4P-4-SST-PC	4" pop up spray	30-40	.88	4'X30'
	TR50 P-30	pop up rotor	40	2.50	41"
	TR50 P-60	pop up rotor	40	5.00	42"
	570	flood bubbler	30-40	0-2	0-2'

The diagram shows a tree structure with a root node 'A' and several child nodes. Annotations include:

- existing irrigation lines including well, pump, controller, rain sensors, overhead valves, piping, heads, scheduling and wiring in the area to remain unchanged and operational during construction** (pointing to the root node 'A')
- existing irrigation lines and heads to remain operational during construction** (pointing to a child node 'B')
- existing irrigation lines and heads to be replaced at completion of construction per original specifications** (pointing to a child node 'C')
- new irrigation lines and heads matching original specifications** (pointing to a child node 'D')
- new bubbler on all new and replaced lines** (pointing to a child node 'E')

scope of work

requires minimal modification to the existing, operational irrigation system. changes are required to the existing system components other than adjustment of lines and heads. All system hydraulics and electrical components remain unchanged.

bubblers to be installed on each new tree being planted. Once trees become established, bubbler may be removed.

The diagram illustrates the components of a TORO 570Z Series 4" Pop-Up Sprinkler. It includes a cross-section view at the top showing the sprinkler head (1) and riser pipe (2) within a concrete base. Below this is a side elevation view showing the riser pipe (2) with a lateral tee (6) and a 90-degree elbow (7) connected to a 4-inch pop-up pipe (8). The pop-up pipe is shown in its retracted position. A list of callouts on the right identifies the parts: 1. MPH PLUS NOZZLE (SIZE PER FLUID), 2. APPROVED BACKFILL, 3. TORO 570Z-4P SPRINKLER, 4. LATERAL PIPE, 5. TORO 90-3/4" ELBOW, 6. LATERAL TEE, 7. TORO 90-3/4" ELBOW, 8. TORO SUPER FUNNY PIPE. A note at the bottom right states: NOTE: INSTALL SPRINKLER AT FINISHED GRADE (SUPER FUNNY PIPE). The main title at the bottom is 'TORO 570Z SERIES 4" POP-UP'.

1. MPH PLUS NOZZLE
(SIZE PER FLUID)

2. APPROVED BACKFILL

3. TORO 570Z-4P SPRINKLER

4. LATERAL PIPE

5. TORO 90-3/4" ELBOW

6. LATERAL TEE

7. TORO 90-3/4" ELBOW

8. TORO SUPER FUNNY PIPE

NOTE: INSTALL SPRINKLER
AT FINISHED GRADE
(SUPER FUNNY PIPE)

FIXED-SPRAY SPRINKLER

TORO 570Z SERIES 4" POP-UP

NOT TO SCALE

Existing irrigation system components include the following which are to remain:

1. Supply well providing 65 gpm of water free of sand and debris.
2. Sta-Rite 5 hp pump w/ motor controls, "Hot Stop" sensor, SCH 40 PVC suction line to well, rust inhibiting system, check valve, slab, relief valve and pre-fab enclosure. Secure pump & enclosure to slab w/ threaded fasteners & lead anchors.
3. Toro TMC-424-0D-9H Controller mounted in pump enclosure.
4. Hunter Mini-Click II rain switch
5. Toro 1-1/2" solenoid valve with valve box.
6. 14AWG Type UF Direct burial irrigation wire.

