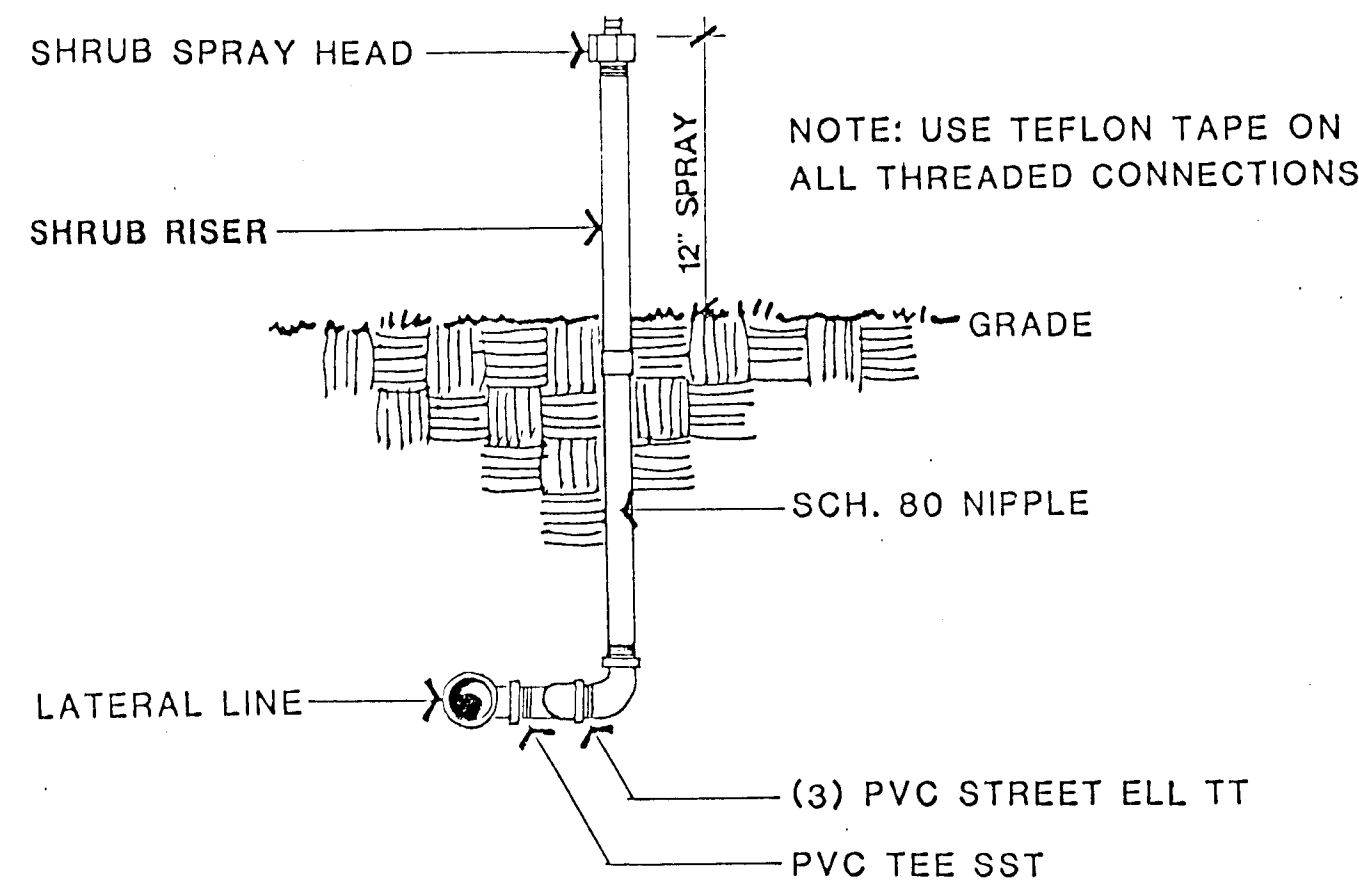
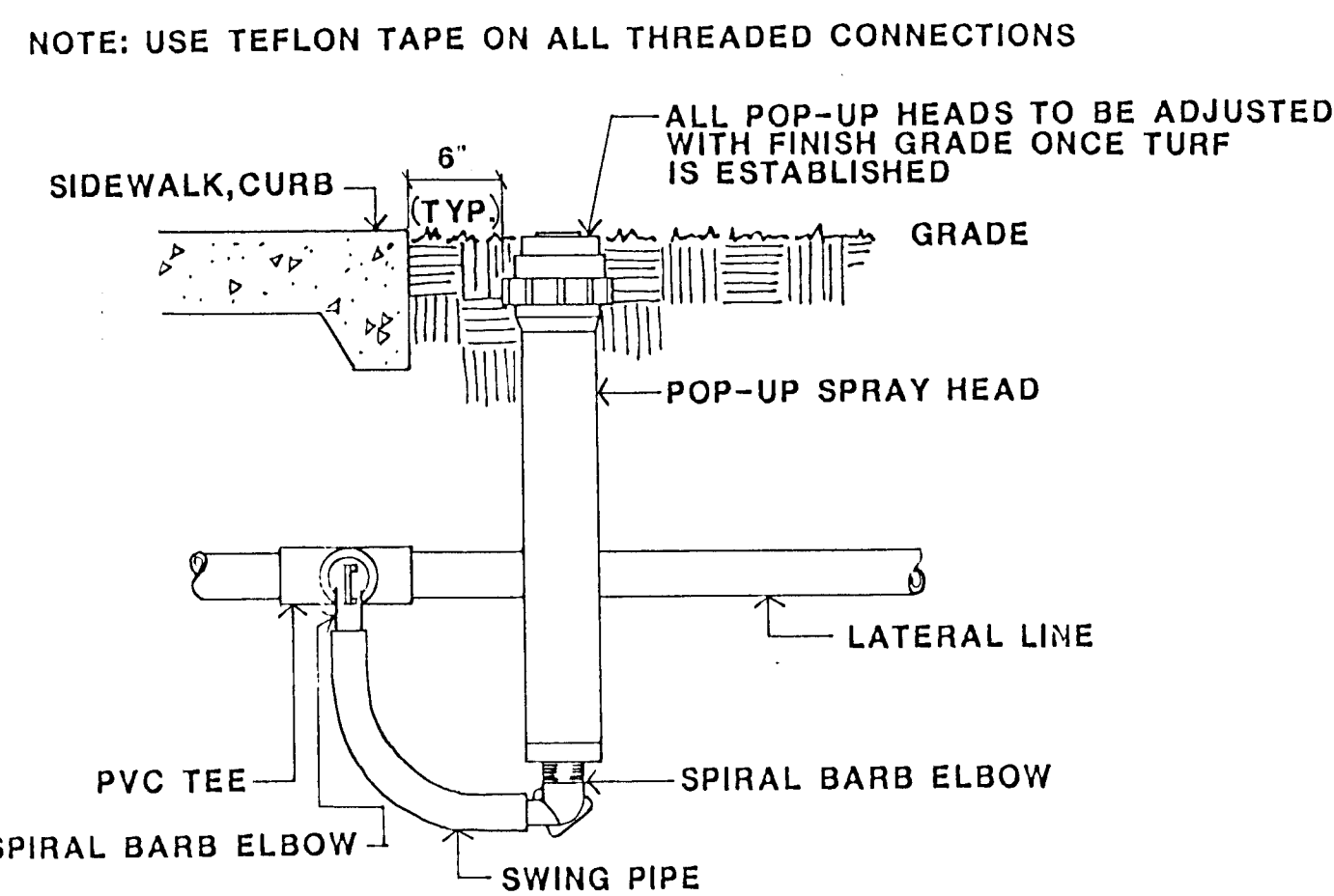
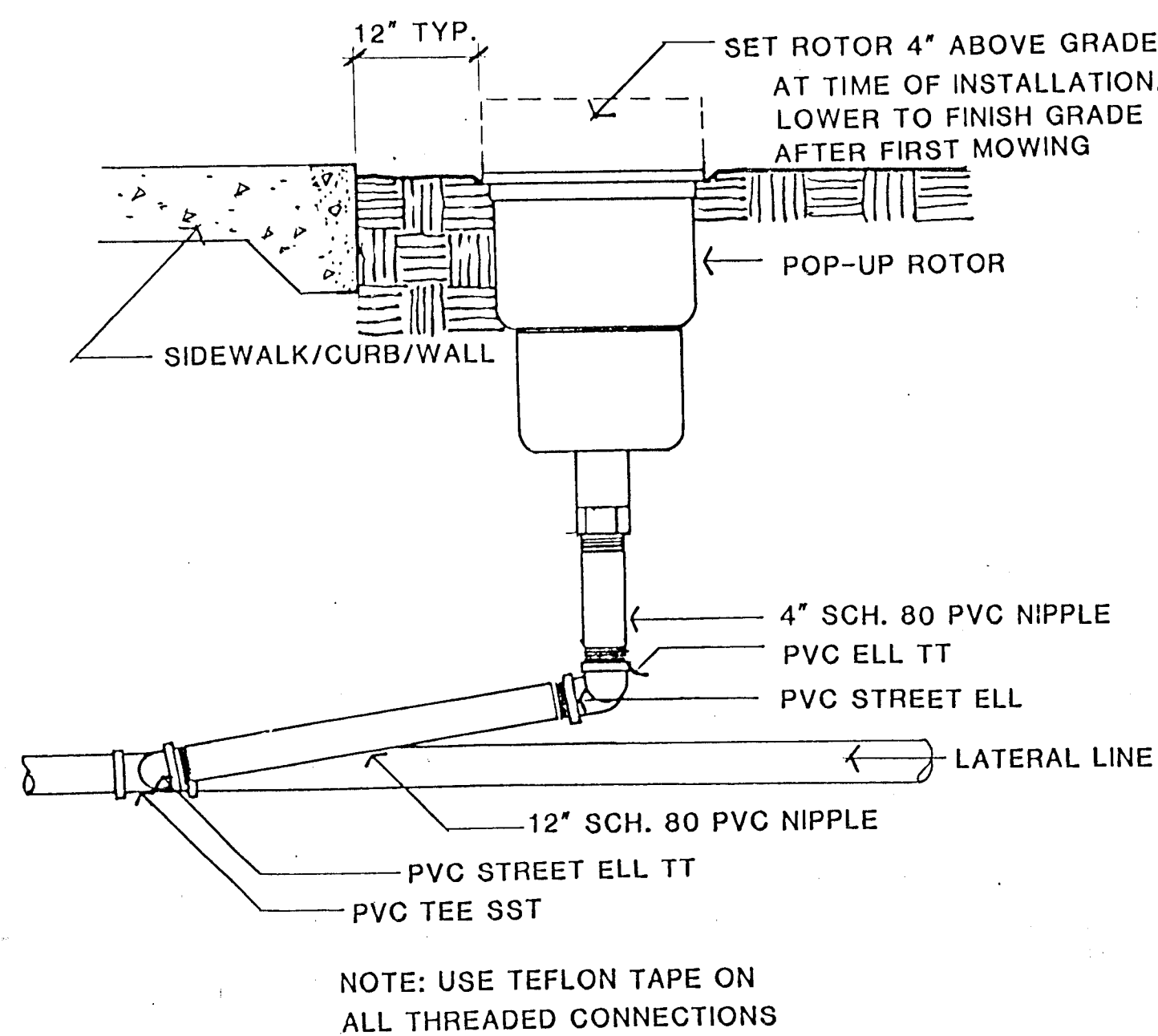




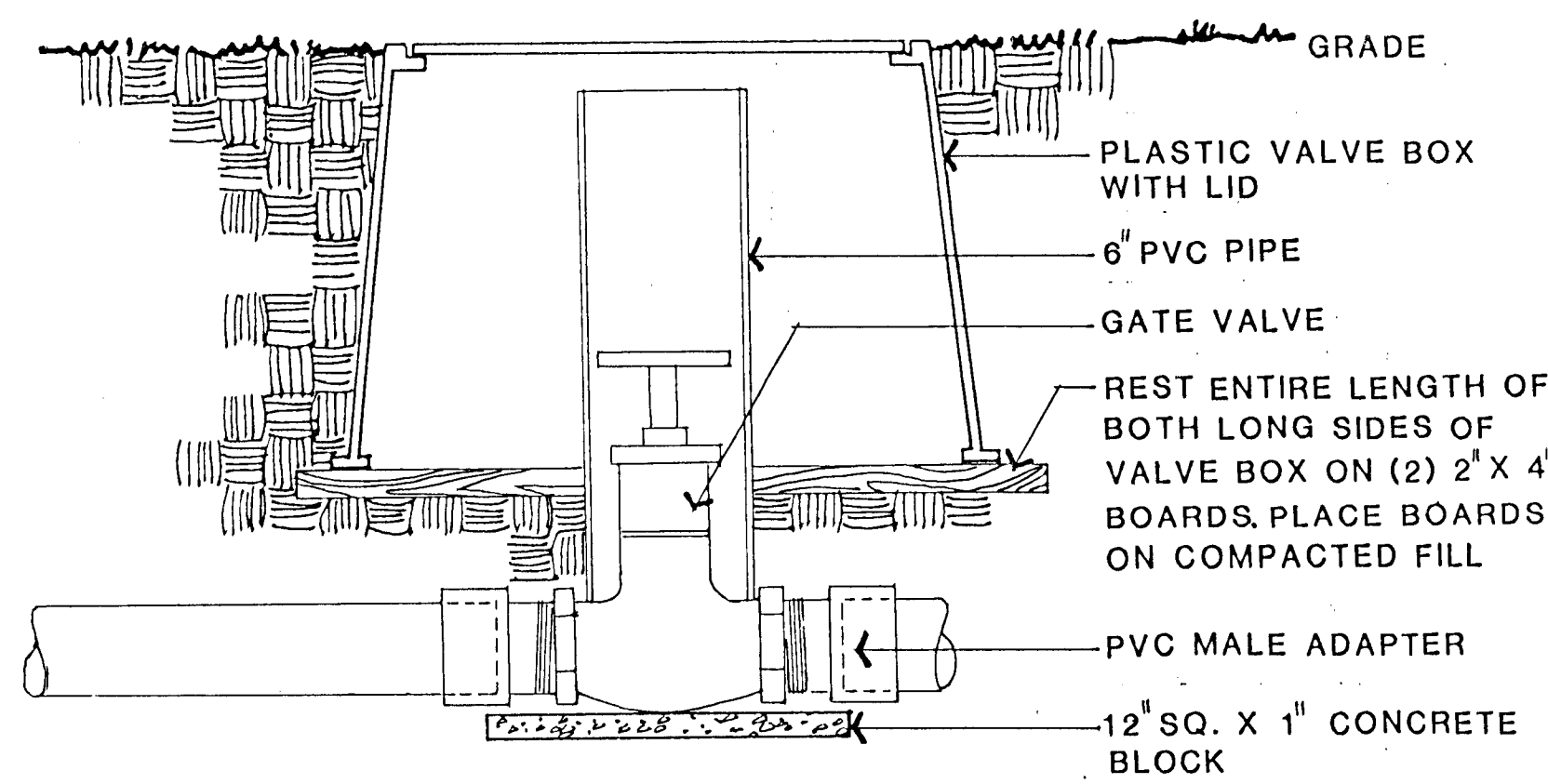
1 SHRUB SPRAY HEAD DETAIL
81



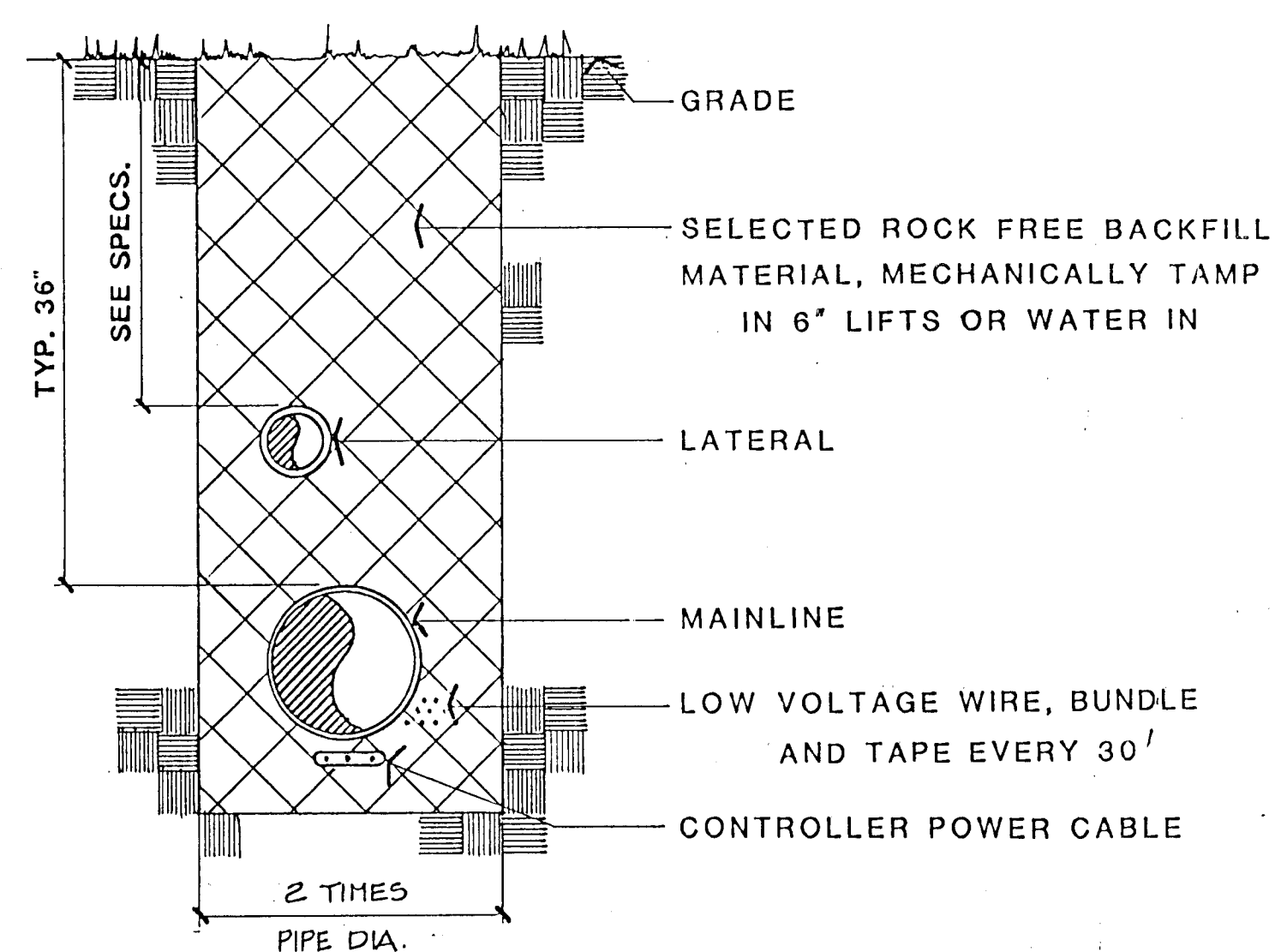
2 SPRAY POP-UP DETAIL
81 W/SWING JOINT



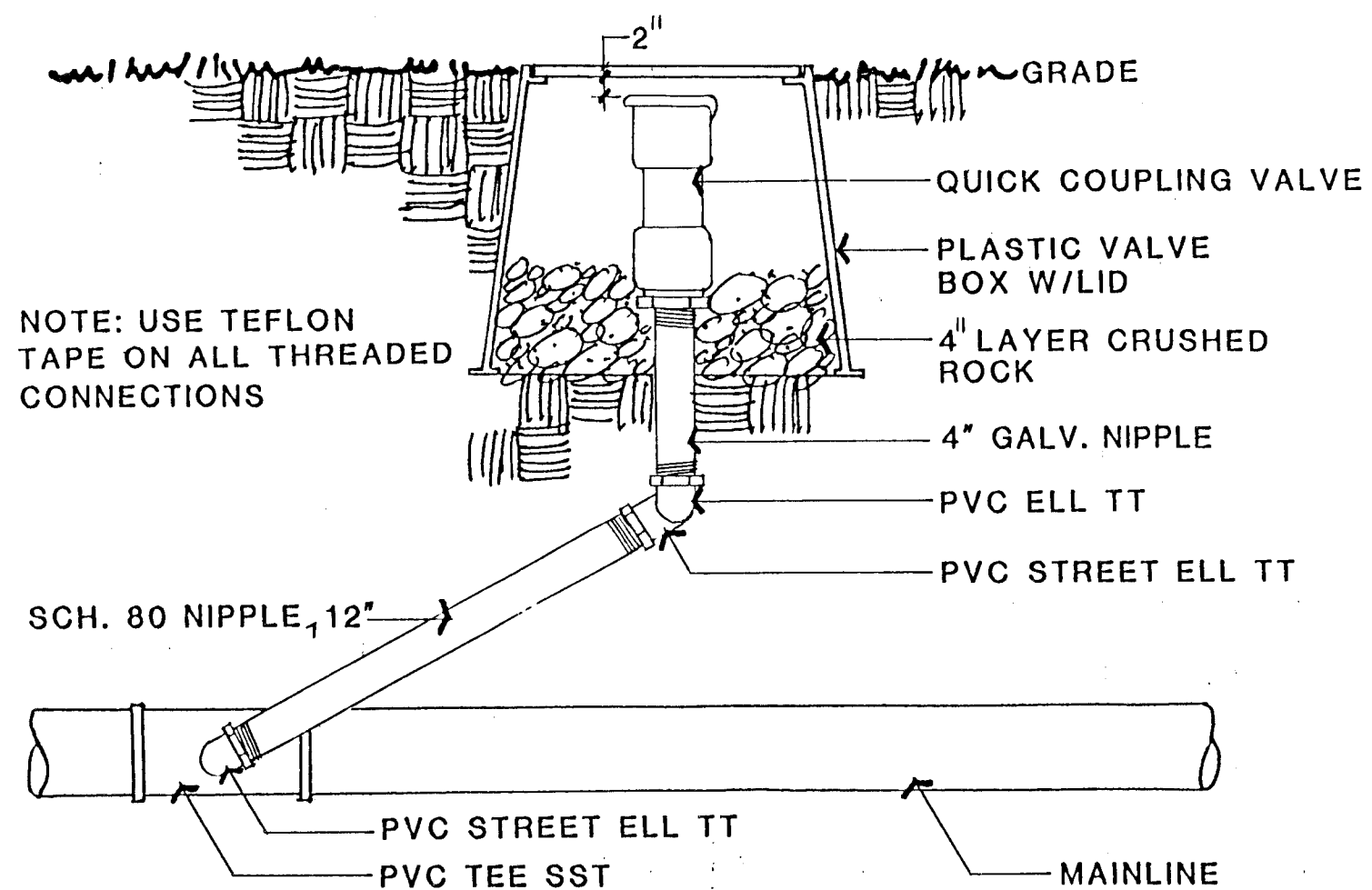
3 ROTOR POP-UP DETAIL
81



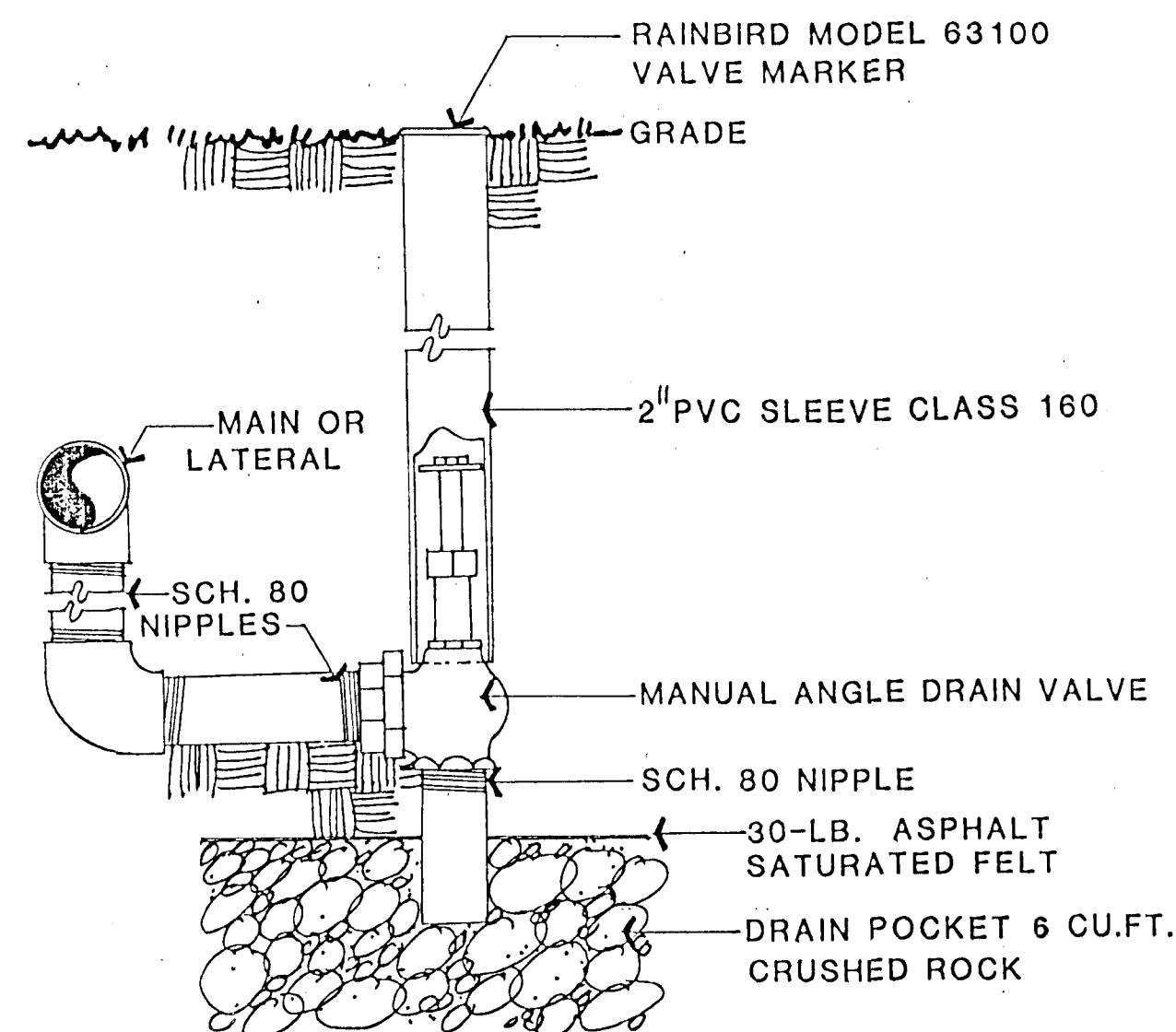
4 MAINLINE GATE VALVE DETAIL
81



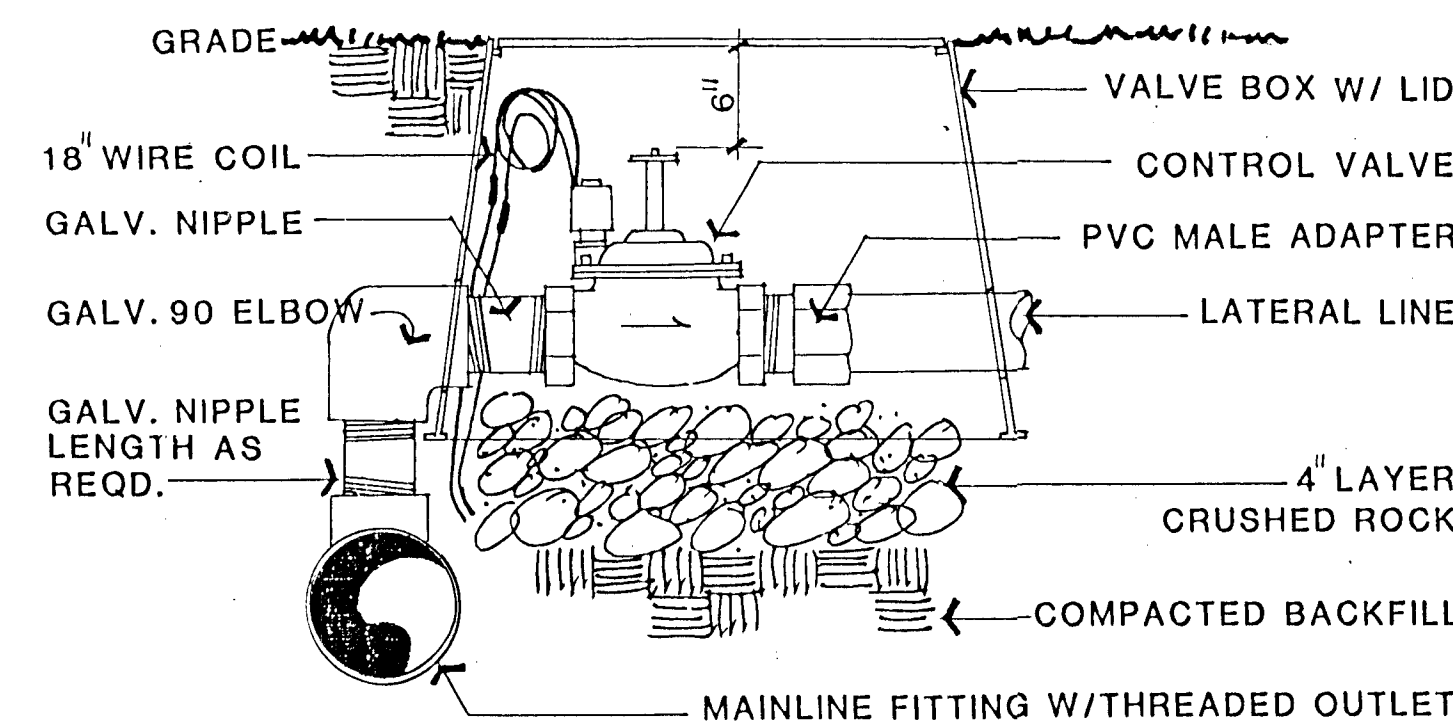
5 MAINLINE TRENCH DETAIL
81



6 QUICK COUPLING VALVE DETAIL
81



7 MANUAL DRAIN VALVE
81



8 REMOTE CONTROL VALVE DETAIL
81

- IRRIGATION SYSTEM NOTES
- All main line piping to be 2 1/2" PVC Class 160 IPS Plastic Pipe with minimum 36" cover as per specifications.
 - Circuit line piping to be PVC Class 160 IPS Plastic Pipe for all sizes except 1" which shall be PVC Class 200 IPS Plastic Pipe. No circuit pipe shall be smaller than 1".
 - All piping shall slope toward drain valves. Install automatic drain valves as specified in all low points in circuit lines. Main lines shall have manual drain valves as specified at all low points. Plans show suggested locations based on topography. Additional drain valves shall be installed as needed.
 - As-built plans shall be prepared by Irrigation Contractor showing all lines, heads, valves, wiring locations and all other pieces of the system.
 - Arc of sprinkler nozzles to be determined based on location of sprinkler within beds. Avoid spraying across sidewalks, into streets or onto structures.
 - No piping shall carry a water velocity greater than 5 FT/SEC. In some cases pipe size greater than remote control valve size may need to be used to bring water flow velocity to required FPS. Follow chart below for velocity guide-lines:

G.P.M. FLOW IN PIPE	MINIMUM PIPE SIZE
0 - 17 GPM	1"
18 - 37 GPM	1 1/2"
38 - 60 GPM	2"
61 - 86 GPM	2 1/2"