

37-GW5
 LCDNR – REPLACEMENT MONITOR WELL
 LITHOLOGIC LOG
 SE¼, SE¼, SEC 02 – T44S – R27E

Depth (ft)	Lithology
0 – 0.2	Sand, dusky yellowish brown (10YR 2/2), fine-grained, quartz, silty, organic.
0.2 – 4.0	Sand, pale yellowish brown (10YR 6/2) to light gray (N7) to moderate yellow brown (10YR 5/4), fine-grained quartz.
4.0 – 4.5	Limestone, olive gray (5Y 4/1) to greenish black (5G 2/1), micritic, well indurated, hard, some molds, slightly vuggy, good porosity and apparent permeability.
4.5 – 8.8	Limestone, yellowish gray (5Y 8/1), calcarenitic, moderately well indurated, hard, interbedded with Sandy Clay, greenish gray (5GY 6/1), soft to firm, sticky.
8.8 – 9.0	Limestone, yellowish gray (5Y 8/1), calcarenitic, moderately well indurated, hard.
9.0 – 12.0	Limestone, yellowish gray (5Y 8/1), calcarenitic, moderately well indurated, hard, interbedded with Sandy Clay, greenish gray (5GY 6/1), soft to firm, sticky.
12.0 – 14.0	Marl, yellowish gray (5Y 8/1), soft, sandy, occasional Limestone, very pale orange (10YR 8/2), calcarenitic, moderately to poorly indurated, hard, minor shell, fair to good porosity and apparent permeability.
14.0 – 22.0	Marl, yellowish gray (5Y 8/1), soft, sandy.

37-GW6
 LCDNR – REPLACEMENT MONITOR WELL
 LITHOLOGIC LOG
 SE¼, NE¼, SEC 34 – T43S – R27E

Depth (ft)	Lithology
0.0 – 0.5	Sand, brownish black (5YR 2/1), fine-grained, quartz, silty, organic.
0.5 – 2.0	Sand, pale yellowish brown (10YR 6/2), fine-grained quartz, some silt.
2.5 – 4.5	Clay, moderate yellowish brown (10YR 5/4) to dark yellowish orange (10YR 5/4), sandy, firm, some organics, silty.
4.5 – 8.0	Limestone, very pale orange (10YR 8/2) to dark yellowish orange (10YR 6/6), calcarenitic, very fine-grained, hard, well indurated, moldic, very good porosity and apparent permeability.
8.0 – 12.0	Clay, yellowish gray (5Y 8/1) to light olive gray (5Y 6/1), sandy, stiff, rare shell, minor Limestone as above.
12.0 – 16.0	Marl, yellowish gray (5Y 8/1), soft, dense, sticky, minor fine-grained phosphate, occasional Limestone, very pale orange (10YR 8/2), calcarenitic, fine-grained, hard, well indurated, moldic, very good porosity and apparent permeability.
16.0 – 20.0	Clay, yellowish gray (5Y 7/2), sandy, stiff, silty, common phosphate, rare shell. Interbedded Clay, greenish gray (5GY 6/1), stiff.
20.0 – 25.0	Same as above; with abundant fine-grained phosphate, moderate yellowish brown (5YR 4/4).

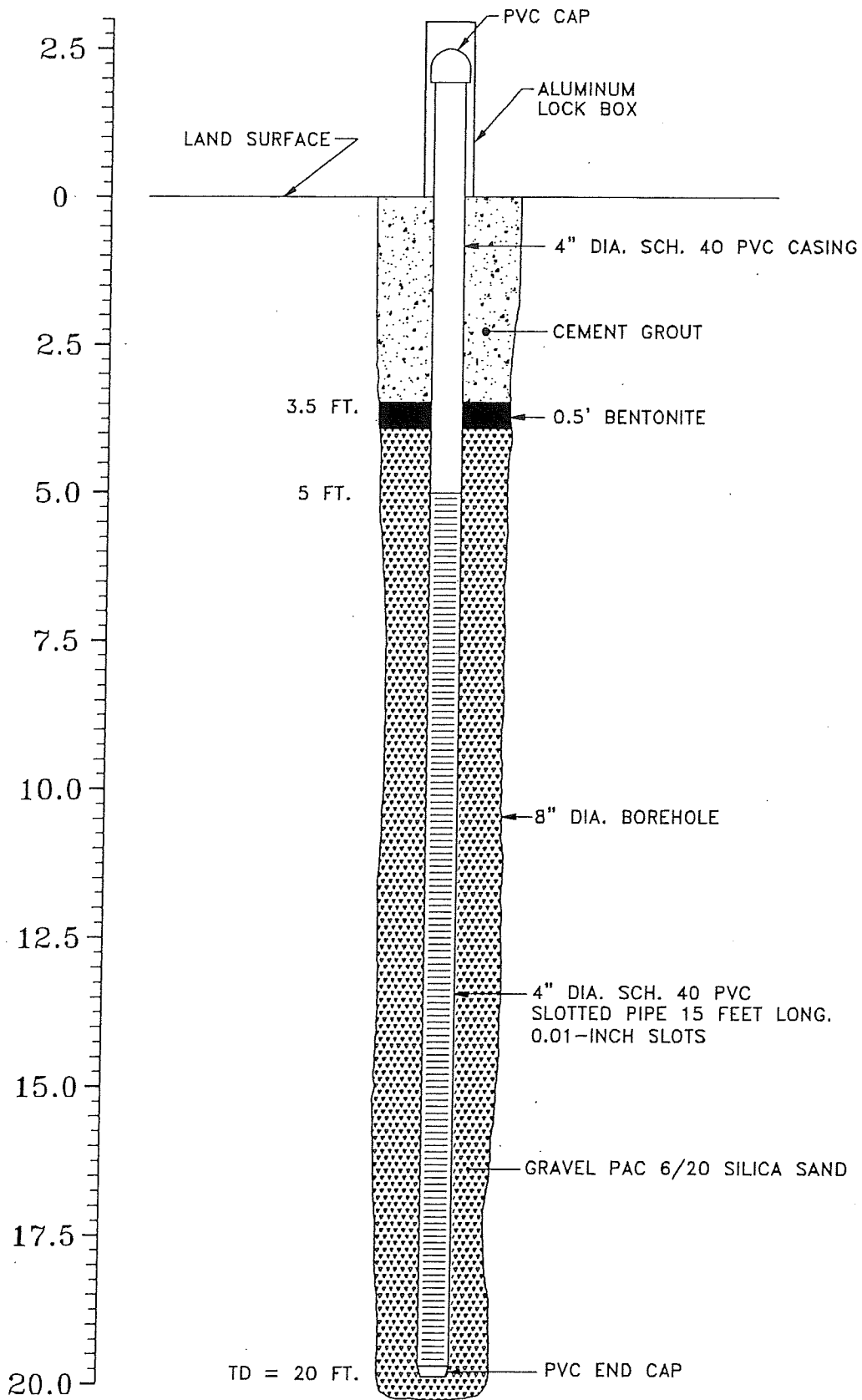


FIGURE 3-1. TYPICAL SCHEMATIC SHOWING CONSTRUCTION DETAILS FOR SURFICIAL AQUIFER MONITORING WELLS.