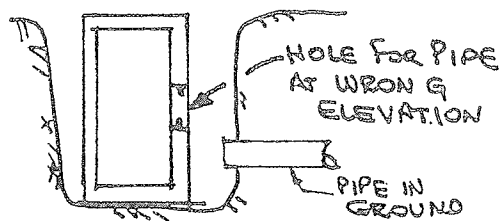


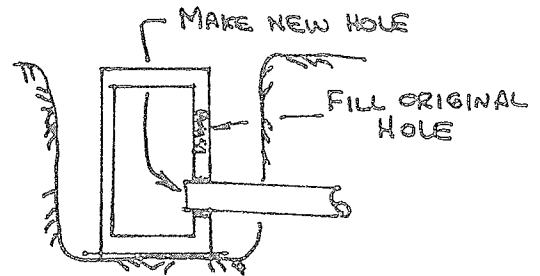
GARY K. MUNKELT, PE

Problem: WHAT PROBLEMS BECOME OBVIOUS DURING INSTALLATION AND WHAT CAN BE DONE TO CORRECT THE SITUATION?

- I. Holes for pipes entering or leaving the manhole are the wrong size or in the wrong place. This situation involves filling the original hole and cutting a new hole. Drilled anchors plus expansion type quick setting grouts make a watertight repair possible.



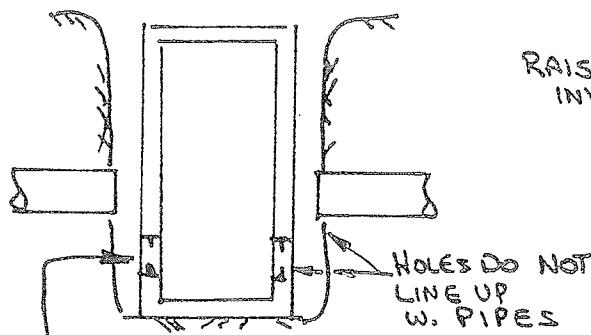
PROBLEM



SOLUTION

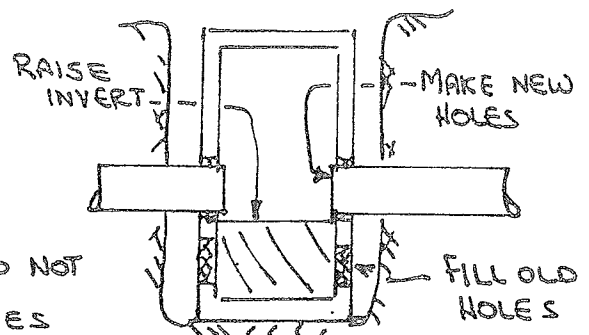
- II. When a base unit is placed at the wrong elevation the holes do not line up with the pipes in the ground.

- A. If the base was placed at a lower elevation, holes can be relocated as described above and the invert rebuilt to match the holes.



BASE IS LOWER THAN CALLED FOR IN CONTRACT DWGS.

PROBLEM



SOLUTION