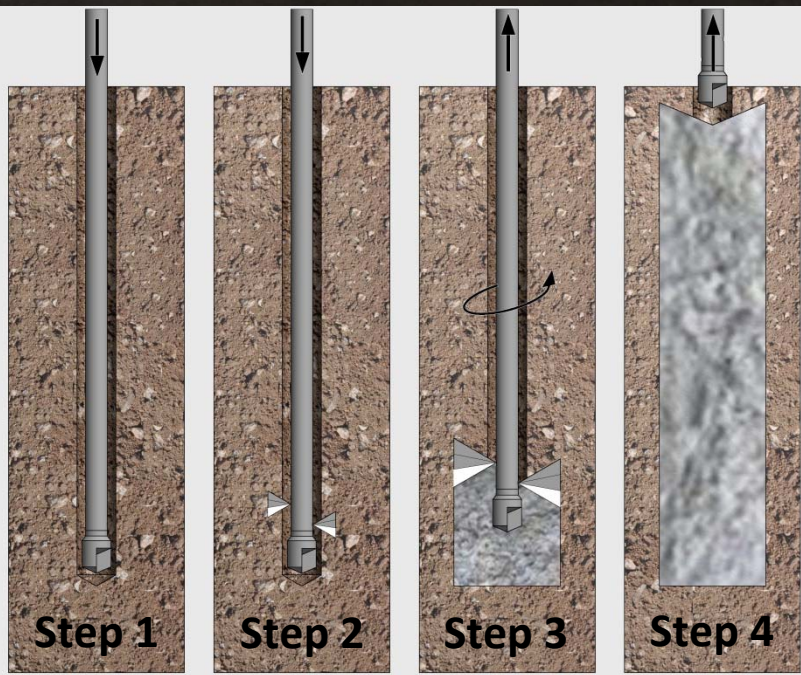


# JET GROUTING



- Step 1** Advance drill rod to design column depth.
- Step 2** Switch to Jet Grouting system, applying high pressure to activate grout monitor.
- Step 3** Column created by rotating rods while simultaneously withdrawing the rods.
- Step 4** Column completed when rod reaches surface.

Jet Grouting creates in-situ columns of grouted soil using very high pressure grout injection. Grouting is performed by pumping high velocity jets of grout (or sometimes grout and air or grout, water and air) through the side of a grout monitor, attached at the end of the drill string. The jets erode and mix the soil as the drill string and the monitor are being rotated and withdrawn.

The jet grouting process constructs jet grout panels, full columns or anything in between (partial columns) with designed strength and permeability. Jet Grout column size is dependent on soil type, soil density, injection pressures and flow rates of the various fluids employed, rotation speed, lift rate and type of system used.

It is best practice to perform a pre-construction test program to calibrate, adjust and verify jet grout parameters and the design.

▲ Jet grout columns in excess of 6 feet (1.8 m) in diameter.

▲ Jet grouting to depths in excess of 80 feet (25 m).



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