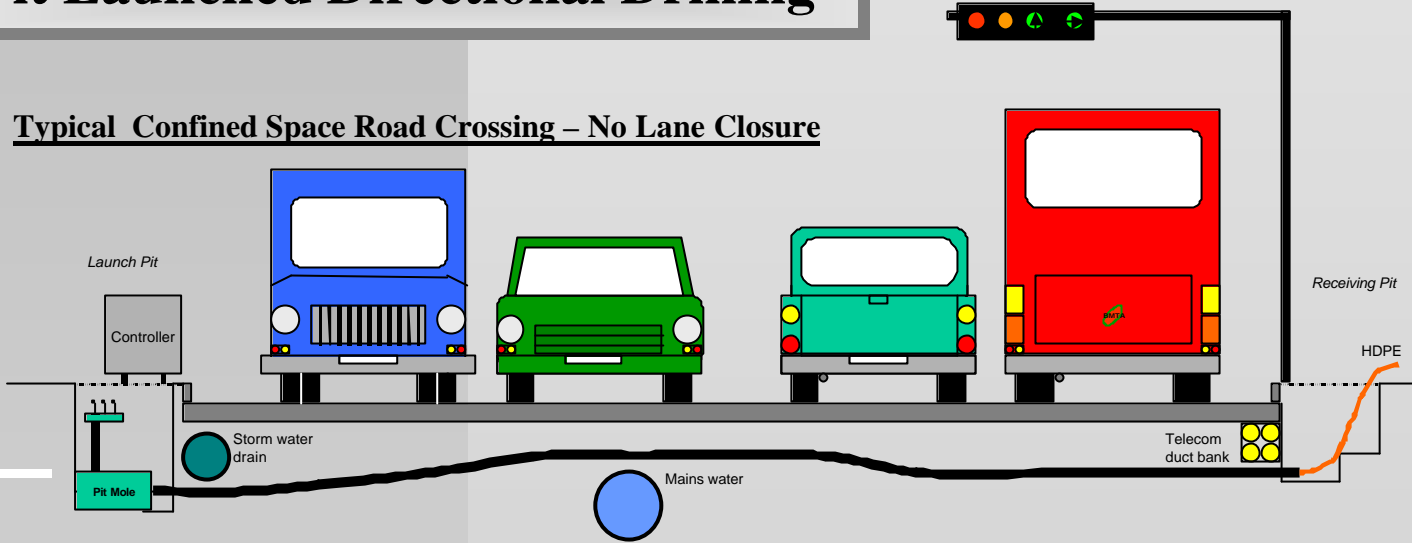


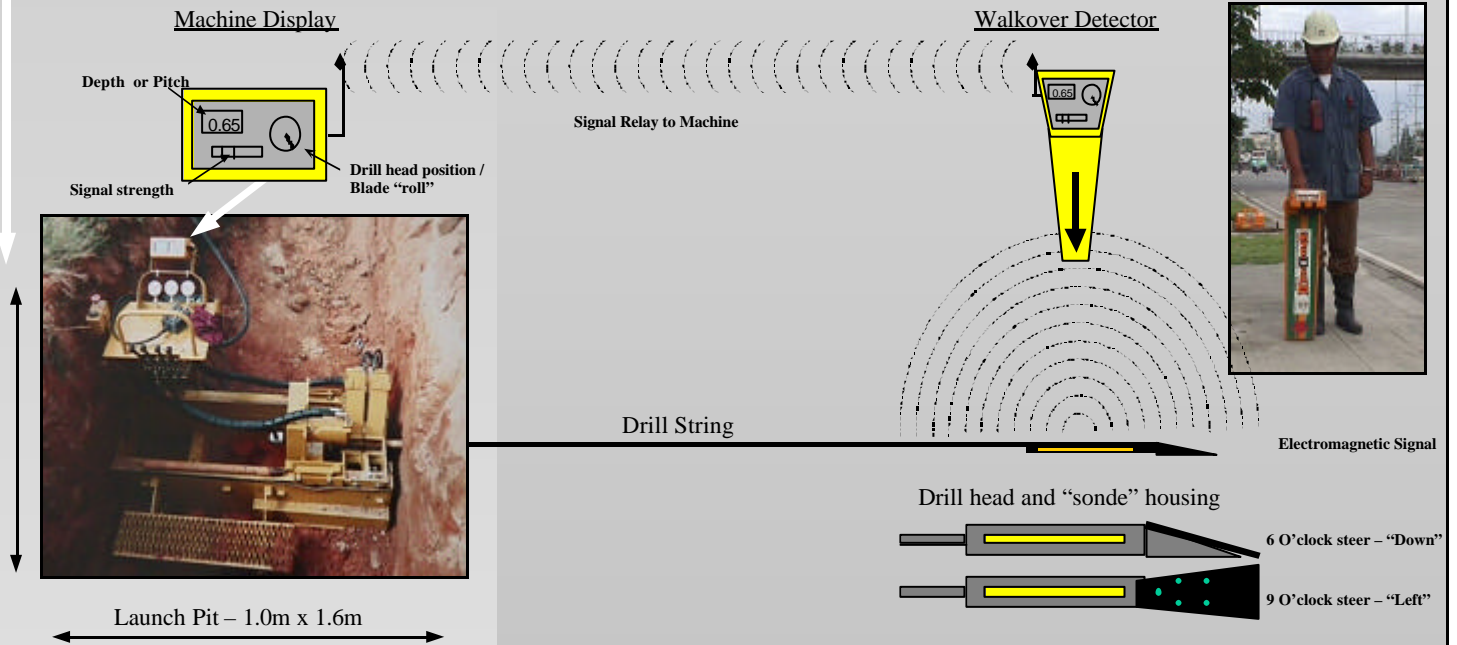
Pit Launched Directional Drilling

Typical Confined Space Road Crossing – No Lane Closure



Pit Launched HDD

The Hammersmith Pit launched HDD machine is used specifically for the trenchless installation of service lines in confined and congested working locations where traditional open cut (or surface launched drilling) is not possible. Typically, services in the range of 50mm to 300mm in diameter and up to 50m in length are achievable, although, as always, ground conditions are the controlling factor. The drilling process is exactly the same as for larger, traditional surface launched machines, incorporating a drill head transmitter (sonde), a steerable drilling head and walkover detection system, however the drill is located in a extremely compact launch pit and has an independent hydraulic power source and drilling fluid system.



Drilling of Pilot Bore from Launch Pit



Detection / Steering



Pilot Bore Arrival Pit



Back Reaming and Pull Back