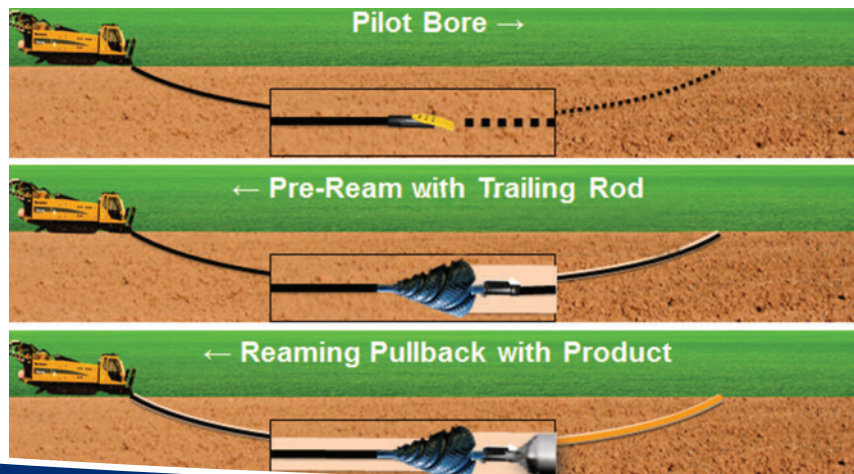




## Horizontal Directional Drilling(HDD)

**HDD** is Total-Western's steerable and trenchless method of installing underground pipes, conduits and cables in a predetermined path by using a surface launched drilling rig, with minimal impact on the surrounding area. Directional drilling is used when trenching or excavating is not practical and minimizes environmental disruption. It is suitable for all ground conditions and jobs including road/river crossing. Installed pipes can be made of materials such as PVC, polyethylene, ductile iron, and steel.

Total-Western is also expert in **Hydro Vacuum Extraction**, a non-destructive method of excavation using high pressure water and vacuum to remove soil. Often used to expose high risk underground services such as fiber optic cables, gas and electrical cables. Hydrovac can also be used when conventional excavation is not suitable.



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