Rotary Bored Piles can be used to support any structure where the highest load carrying capacity is required. Balfour Beatty Ground Engineering has developed specialist expertise to deliver large, complex and technically challenging projects.

// BASIC TECHNIQUE
An auger is used to excavate the soils, whilst a steel casing is inserted to maintain the bore through the top layers of unstable ground. A steel cage or pattern of reinforcing bars is introduced into the bore before the concrete is poured. The steel casing is later withdrawn.

// STRENGTHS
- Minimal disturbance - hence limited risk of damage to adjacent structures
- Suitable for all soil types
- Ideal for retaining walls
- Speed of installation
// TECHNIQUE ENHANCEMENTS

Use of Oscillator
Where minimum disturbance is critical (e.g. close to an existing building or railway line), an oscillator can be used to install the steel casing with great precision.

Top Down Construction
Foundation piles can be installed from ground level together with the supporting columns for basement floors. By also pre-installing retaining walls, as the building goes up, the basement levels can be excavated simultaneously. This significantly reduces the overall build cycle.

Under-reams
In stable soils the diameter of the pile can be extended up to 6,300mm at the base forming an inverted cone, which delivers a very high load-bearing capacity.

Drilling Fluids
Where unstable ground exists at greater depths, a vinyl polymer, or bentonite drilling fluid is introduced to support the bore during excavation and before the concrete is placed.

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