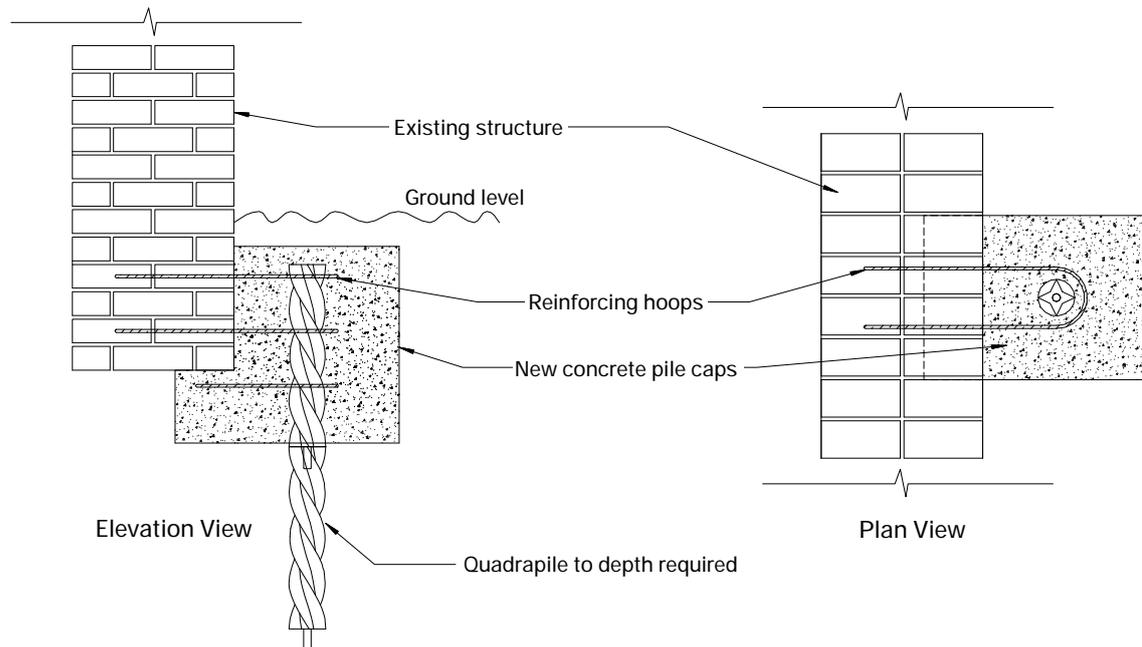




Underpinning Foundations using Quadrapile and Toe-under Cap



METHOD STATEMENT

1. Create a small excavation adjacent to the existing wall and continue the excavation to undercut the existing wall.
2. Drive the Quadrapile through the bottom of the excavation and load test to the specified requirement.
3. Drill into the existing wall below ground level with pairs of holes each side of the pile.
4. Install stainless steel helical reinforcing material using grout, in accordance with the method in HTG-01, but leave the reinforcing as a hoop around the pile and back into the hole on the opposite side.
5. Fill the excavation with concrete to encase the pile top and reinforcing, ensuring that the concrete is well vibrated to fill all voids and make sure it fills the undercut section.

GUIDANCE NOTES *Unless otherwise specified, the following criteria are to be used:*

- a. Excavation to be 450x450x450mm.
- b. Reinforcing to be installed at least 200mm into wall and foundations.
- c. Minimum of 3 hoops of reinforcing should be used.
- d. Pile spacing will be dependent on loads to be supported and should be specified by the designer.
- e. Where masonry is not sufficient to span between pile points, beaming should be used in the masonry as per HB-08 or HB-09.
- f. Undercut should be a minimum of 100mm but will be dependent on the wall construction and should be specified by the designer.

To find out more and to see how we could help you, please contact us

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