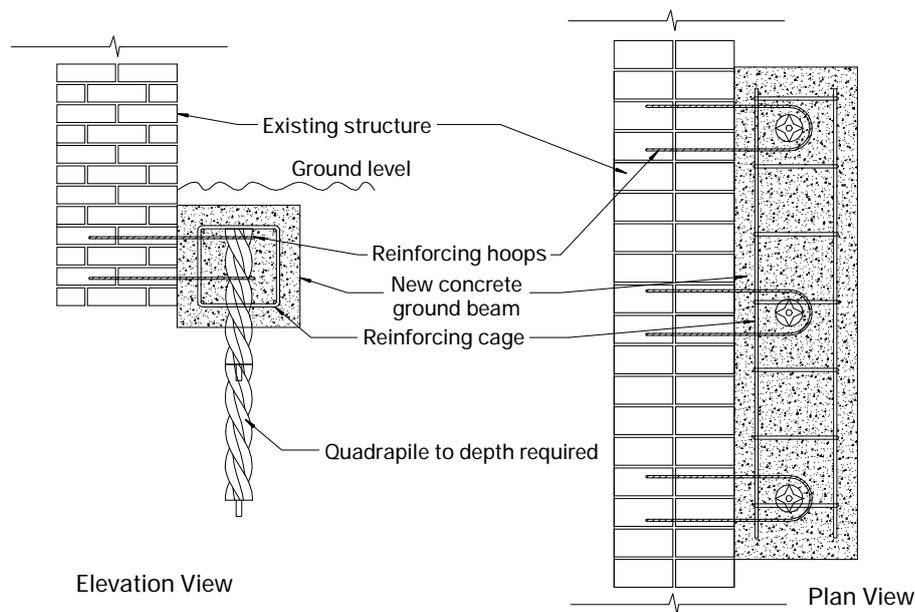




Underpinning Foundations using QuadraPile and Ground Beam



METHOD STATEMENT

1. Create an excavation alongside the existing wall and foundations.
2. Drive the QuadraPile piles through the bottom of the excavation at the specified spacing and load test to the specified requirement.
3. Install the reinforcing cages over the piles.
4. Drill into the existing foundations and wall below ground level with pairs of holes each side of each pile.
5. Install stainless steel helical reinforcing material using grout, in accordance with the method in HTG-01, but leave the reinforcing as hoops around the piles and back into the hole on the opposite side.
6. Fill the trench with concrete to encase the pile top and reinforcing, ensuring that the concrete is well vibrated to fill all voids.

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

- a. Ground beam to be 450x450mm and extend at least 500mm past each side of failed wall section.
- b. Reinforcing cages to be 300x300mm (4No. longitudinal H12 bars 2Top & 2Bottom with H10 link hoops at 250mm spacing).
- c. Reinforcing ties to be installed at least 200mm into wall and foundations.
- d. Minimum of 3 hoops of reinforcing should be used around each pile.
- e. Pile spacing will be dependent on loads and should be specified by the designer but 1m to 3m is typical.
- f. Where masonry is not sufficient to span between pile points, beaming should be used in the masonry as per HB-08 or HB-09.

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

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