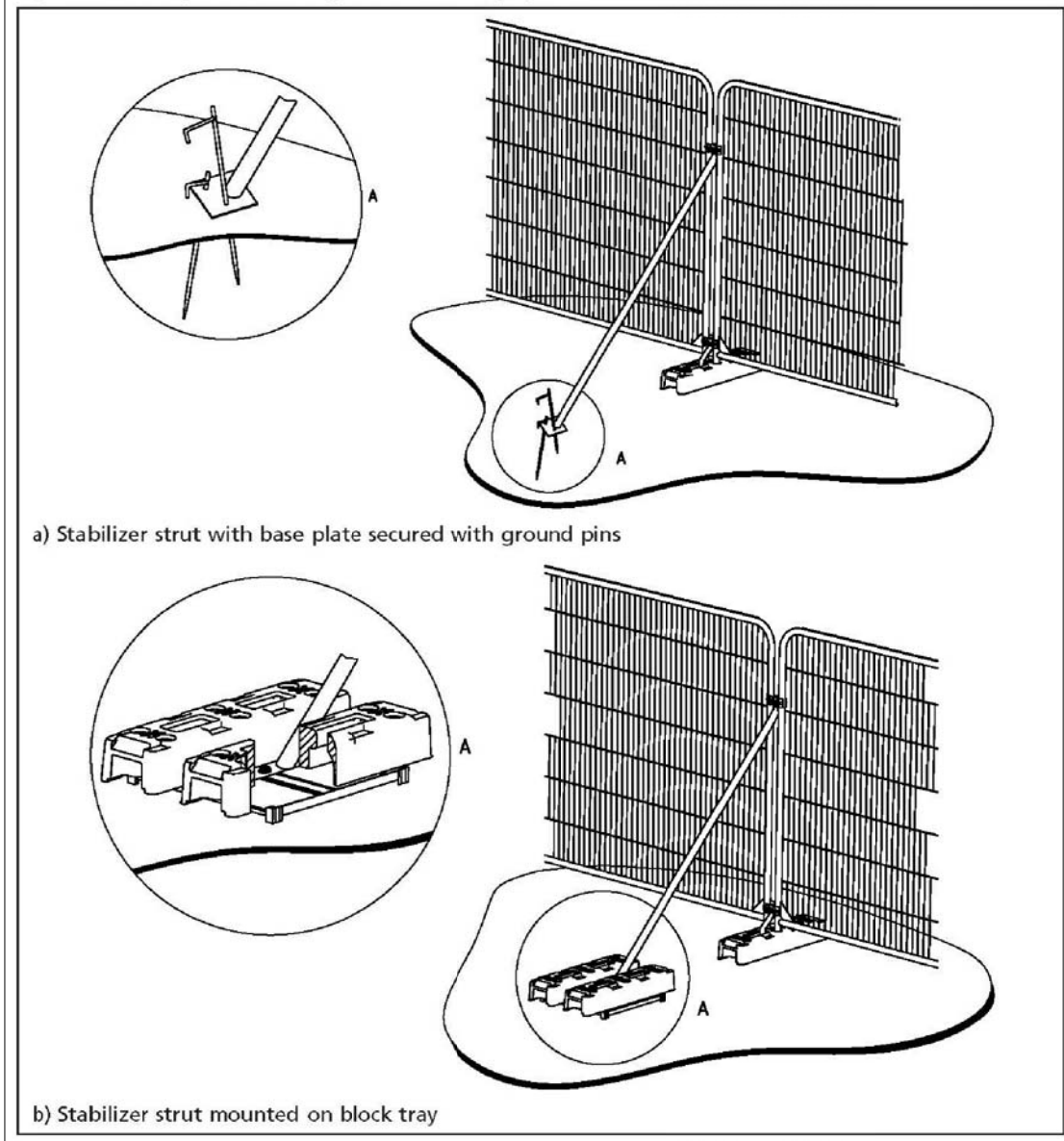


Figure 3 Examples of above-ground stabilizing systems



1. Pre-start Meeting

- a. Prior to commencement of any operations on site a pre-start meeting shall be arranged between the Client's representative, design team (project architect, engineer, landscape architect), main contractor, Arboricultural Consultant, and the local planning authority. The meeting shall address the following issues:
- Introduction of parties, contact details and protocols;
  - Roles and responsibilities of each party;
  - Health and safety matters relating to arboricultural works;
  - The scope of the Arboricultural Method Statement;
  - Site zoning, including vehicle access and circulation; compound and materials storage; tree protection and Construction Exclusion Zones; service routes and wayleaves;
  - Review of approved development plans, taking into account any post-consent alterations affecting trees. Review and amend barriers and ground protection to ensure satisfactory site operation and tree protection;
  - Arboricultural monitoring and reporting procedures.

2. Advance Arboricultural Works

- a. Tree felling works are required to allow construction activities to proceed.
- b. Prior to commencement of tree work operations, the appointed arborist contractor must provide a Risk Assessment and Method Statement for inclusion within the Development Health and Safety File.
- c. All work will be carried out by suitably qualified operatives carrying all relevant NPIC certificates for chainsaw operations, tree climbing and pruning.
- d. This work must be carried out before commencement of all other site operations, including erection of protective fencing, excavations, or construction activities.
- e. All works will be carried out in accordance with the BS3998: 2010, *Tree work - Recommendations* as a minimum requirement. Current FISA and AFAG Safety guidance note recommendations must be adhered to.
- f. The arborist contractor will agree working exclusion zones during the course of tree work operations. These zones must be clearly signed and secured throughout the duration of the works. Access to working zones will be limited to tree work contractors and their plant and machinery.
- g. Only those trees identified in the schedule above, and hatched red on the Tree Protection Plan, shall be removed.

3. Protective Fencing

- a. On completion of tree work operations, and before the commencement of any construction works on site, protective fencing will be erected around all trees to be retained.
- b. The protective fencing delineates **Construction Exclusion Zones (CEZ)** within which all construction activity is prohibited.
- c. The local planning authority will be notified in writing once the fencing is in place.
- d. Protective fencing shall be erected in accordance with Section 6.2.2 and Figure 2 or 3 of BS5837:2012. This shall be 2m tall welded mesh panels (Heras) on rubber or concrete feet, joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence. The distance between the fence couplers should be at least 1 m and should be uniform throughout the fence. The panels should be supported on the inner (tree) side by stabilizer struts, which should normally be attached to a base plate secured with ground pins. Where the fencing is to be erected on retained hard surfacing or it is otherwise unfeasible to use ground pins, e.g. due to the presence of underground services, the stabilizer struts should be mounted on a block tray.
- e. The fencing will remain in place until completion of the main construction phase and then only removed with the consent of the local planning authority to permit completion of the scheme.
- f. The area enclosed by the fencing will become a **Construction Exclusion Zone (CEZ)** and is to remain sacrosanct. All activity within the CEZ is prohibited, including the following:
- Storage of building materials including debris, topsoil and sand;
  - Storage of diesel, oil, paints, liquids;
  - Location of portable buildings;
  - Mixing of cement, mortar or adhesive;
  - Parking and usage of vehicles;
  - Lighting of fires.
- g. The protective fencing will only be dismantled upon completion of all construction activity and following written approval from the local planning authority.

4. Site Logistics and Material Storage

- a. The site compound and materials delivery/storage areas shall be as agreed at the pre-start meeting.
- b. Vehicle and machine access within and across the site shall be restricted to the existing and proposed road network.
- c. No materials will be stored within the CEZ. Diesel, oil, paints, cement and liquids should be sited away from trees to avoid damage from accidental spillages that could contaminate the soil.
- d. In the event of any soil contamination the advice of the appointed Arboricultural Consultant should be sought in respect of the best remediation treatments.
- e. No mixing of cement will take place within 10 meters of any CEZ. All cement mixing will take place on level ground to avoid potential runoff into the rooting zone of trees.
- f. Particular care will be taken not to damage the canopies of retained trees when moving materials using elevated plant (crane, forklift trucks, tele-handler, etc.).

5. Drainage and Utility Routes

- a. All utilities will be positioned outside the CEZ. The location of all utilities is shown on the drawing. Any proposed amendment to utility routes must be approved in writing.

6. Boundary Treatment

- a. Where timber boundary fences are to be constructed within the RPA of retained trees, all post holes shall be hand dug. Any tree roots encountered that are greater than 25mm diameter shall be retained intact, and position of the post shall be adjusted to avoid root disturbance.
- b. Tree roots of less than 25mm diameter should be cut cleanly using hand saw or bypass secateurs, back to the face of the post hole.
- c. Post holes should be lined with an impervious polythene or polypropylene membrane to prevent contact between postcrete and any exposed tree roots.

7. Soft Landscaping within the CEZ

- a. New soft landscaping, including the formation of garden ground, is proposed in proximity to the retained trees.
- b. Where existing vegetation is to be removed and replaced under tree canopies, the existing surface will be skimmed by hand, removing no more than 50mm of the topsoil. The depth of any material (soil, turf etc) placed on the skimmed surface should not exceed 100mm.
- c. Displaced soil from any skimming will be moved outside of the CEZ and disposed of in agreement with the appointed Arboricultural Consultant.
- d. No materials will be stored in the CEZ.
- e. Tree and shrub planting beneath the canopy of existing trees should be done using notch planting to minimise soil disturbance and root damage.
- f. Where larger planting pits are necessary, these will be dug by hand taking care not to damage the roots of surrounding trees and vegetation.
- g. No machinery is to enter the CEZ.

8. Duties of the Appointed Arboricultural Consultant

- a. The Arboricultural Consultant will carry out inspections at intervals to monitor site works and tree protection.
- b. All site visits carried out by the Arboricultural Consultant will be recorded and detailed. Circulation of the report will occur by the close of the following working day.
- c. Routine visits will be dictated by the build programme and will include pre- and post-arboricultural works inspections, site supervision during works within CEZ, tree condition inspections (including post construction), details of routine works and photographic records.

