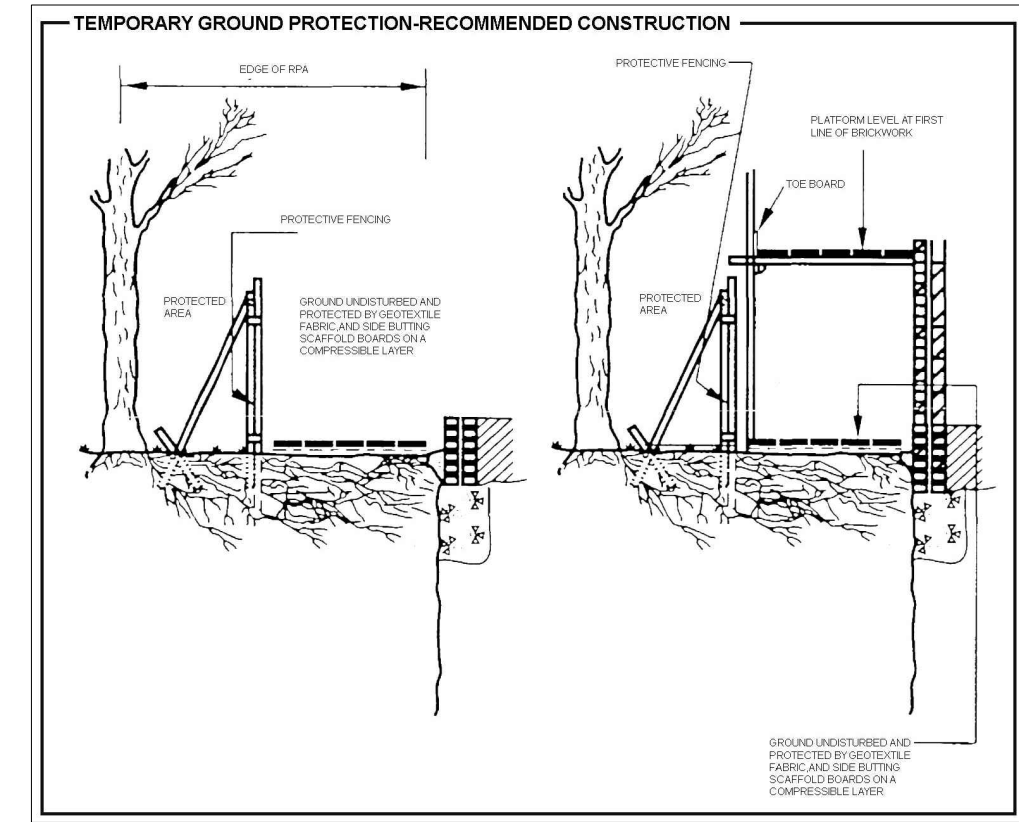
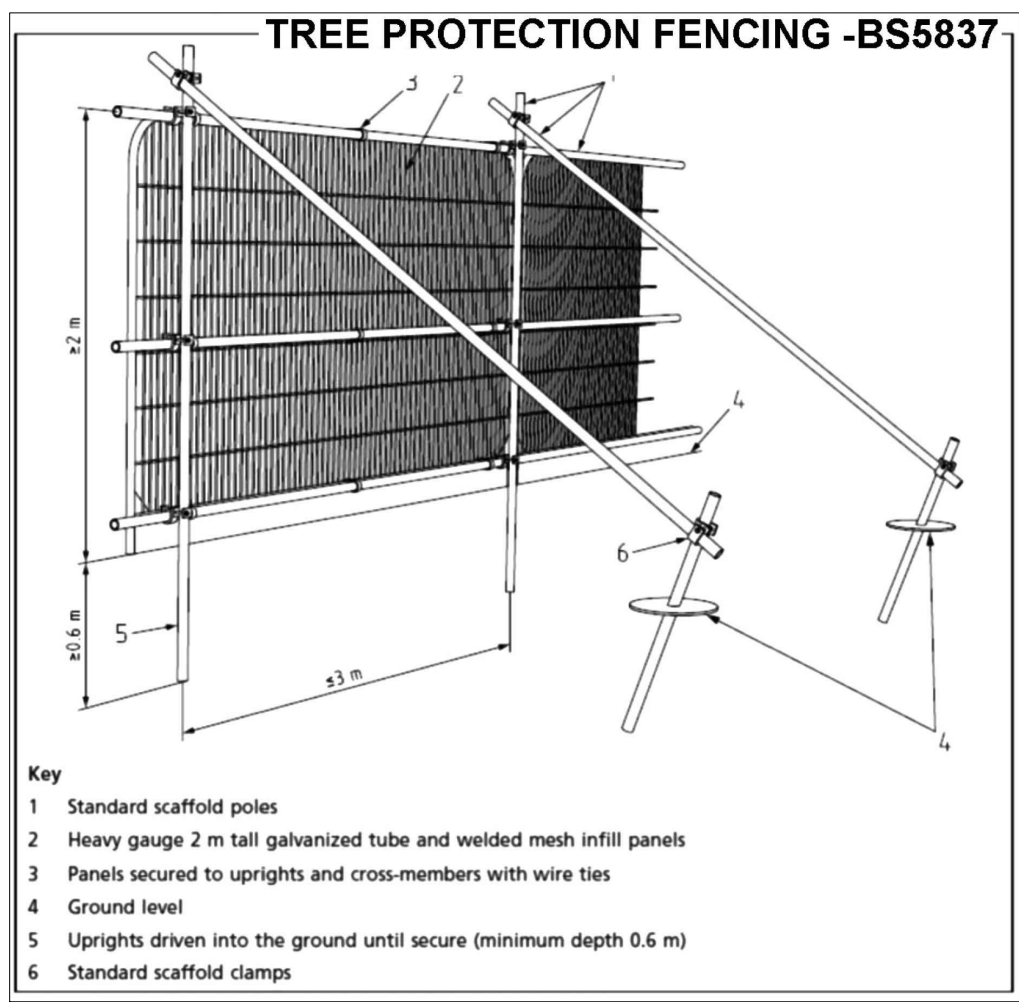




TERRAM GEOCELL

SPECIFICATION, DESIGN & INSTALLATION GUIDANCE

For Tree Root Protection (TRP)

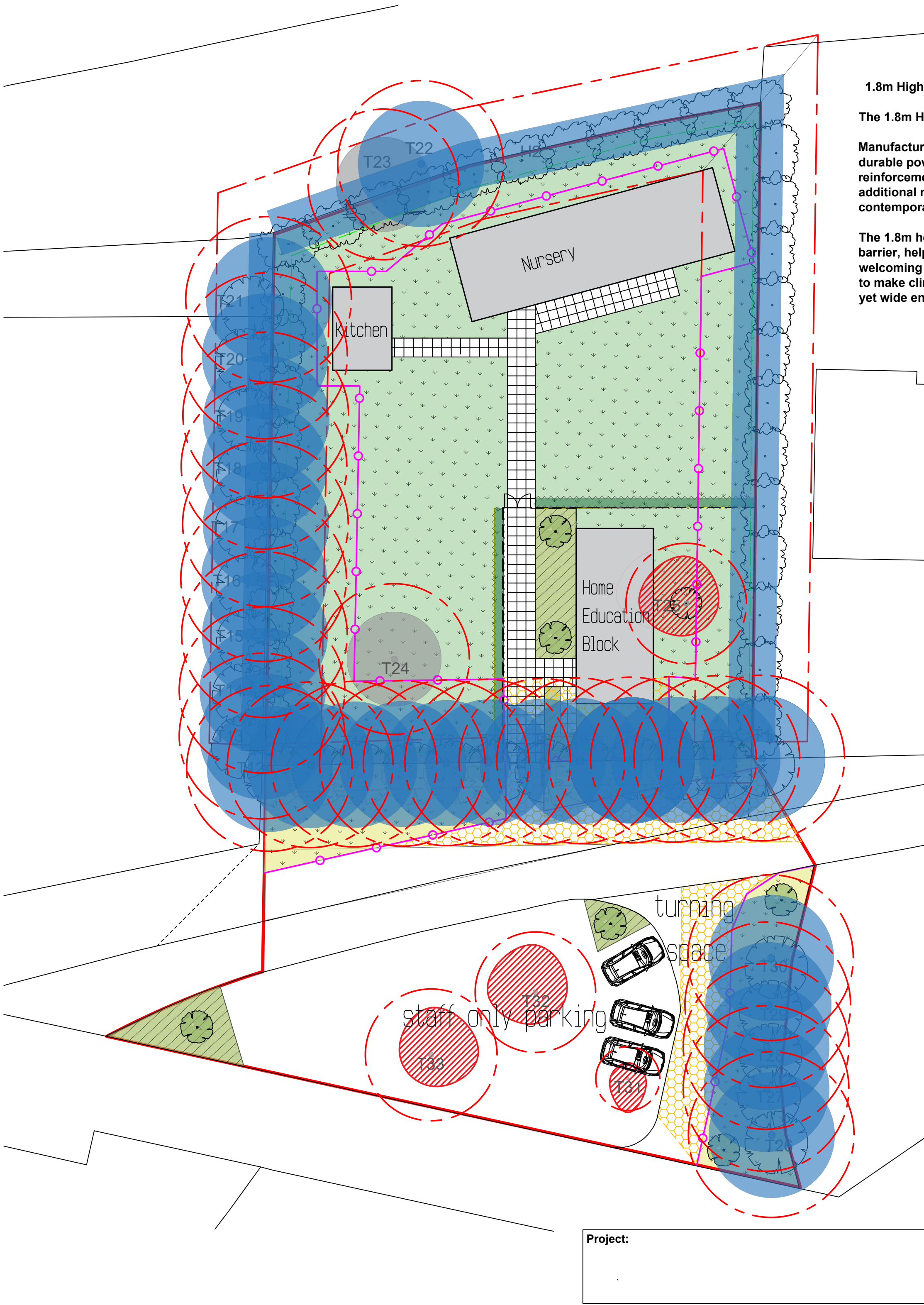
Typical Construction Profile

Installation method for Geocells TRP for permanent access routes and car parks

- Obtain the approval of the Local Planning Department and Arboricultural Officer for the method of construction proposed and any imposed limitations on the use of mechanical equipment.
- Remove all debris and reduce surface levels to the allowable reduced depth whilst strictly avoiding soil compaction and tree root damage. Build-up directly on the existing surface levels may be necessary.
- Ensure that the prepared surface is reasonably even and fill any localized depressions with sharp sand to achieve an even surface profile. Do not roll or consolidate the area.
- Install horizontal timber edging boards or other approved edge retention to the perimeter of the construction zone as appropriate to the total layer profile thickness. Avoid damage to tree roots when placing fixing posts and pins.
- Install a layer of Terram T1000 geocell across the site, overlapping adjacent rolls by a minimum of 150mm. Lightly pin the geocell in place until the overlying layers are installed as required.
- A layer of TERRAM TX160 geocell may be required depending upon the site soil strength, traffic loading intensity/frequency and any restrictions on build-up depth. Place the geocell layer over the T1000 geocell layer and fix down using steel pins to hold flat. Overlap adjacent rolls by minimum 150mm. Avoid tree root damage and soil compaction.
- Open out the TERRAM Geocell layer and pin it in place using steel fixing pins or similar approved between the edging boards. The pins hold the cells in an open and fully expanded position during the filling process. Pin spacing will vary according to the site conditions, generally 1m-2m centres on flat surface around the perimeter and where panels join. Drive the pins in so that they are just touching the top of the cells but do not compress the fabric and avoid tree root damage. Cut the TERRAM Geocell to suit using a sharp knife/scissors or alternatively fold up against the edging.
- Fill the TERRAM Geocell with a clean, open graded angular aggregate (5mm - 45mm) working towards the tree from the furthest point away and using the flat TERRAM Geocell as a platform. (Single sized, rounded aggregate or D10 Type 1 should not be used). Do not roll the surface, a light vibratory compaction plate may be permitted to settle the stone into the cells; seek advice from the specifier or Arboricultural Officer. Do not contaminate the filled cells with site debris, soil or mud.
- Install the permeable surface layer such as TERRAM BODPAVE 85, TERRAM Truckpave, permeable concrete block paving or porous asphalt on top of the TERRAM Geocell according to the manufacturer's recommendations. The type of bedding layer will depend upon the specification of the porous surface, an additional layer of TERRAM T1000 geocell may be required over the filled Geocell to prevent loss of the bedding layer material into the voids. Please refer to Specification, Design and Installation Guidance for BODPAVE 85 and TERRAM Truckpave, or refer to the specific manufacturer's guidance for other surfacing materials.

e.mail: info@terram.com
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KEY

- TREE CATEGORY A
- TREE CATEGORY B
- TREE CATEGORY C
- TREE CATEGORY U
- CALCULATED ROOT PROTECTION AREA
- TREE TO BE REMOVED TO FACILITATE DEVELOPMENT
- PROTECTIVE FENCING TO DETAILS PROVIDED DETAIL ONE
- TEMPORARY GROUND PROTECTION SEE DETAIL TWO

REV:	DESCRIPTION:	BY:	DATE:
STATUS: PLANNING ISSUE			
		DJOGS Limited 32 High Mount Street West Hill, Hednesford WS12 4BL 01543 762726 Mobile 07812640015 www.djogs.co.uk	
CLIENT:		Bilingual Day Nursery Ashby	
LANDSCAPE ARCHITECT:		DJOGS Ltd 32 High Mount Street West Hill, Hednesford Staffordshire WS12 4BL	
SITE:		Proposed Day Nursery, Twycross Zoo	
TITLE: Tree Protection Plan			
SCALE AT A1:	DATE:	DRAWN:	CHECKED:
1:200	14/04/26	PDJ	RB
PROJECT NO:	DRAWING NO:	REVISION:	
2189	TPP	0	