

MILL RYTHE HOLIDAY VILLAGE

PROPOSED MASTERPLAN - LANDSCAPING DETAILS

Trees roots are often within the top 600mm of the soil. Construction, excavation and compaction can damage or even destroy roots to the point where trees may not survive. This can lead to the serious hazards of unpredictable tree failure, potentially causing property damage and injury.

Arbicultural Practice Note (APN) 12 SS5837/2012 Trees in relation to design, demolition and construction.

Above-Ground, No-Dig Construction – (Driveways close to trees), APN12 advises that a driveway can only be installed, within a root protection area, if it can be done so without disturbing the root system. The British standards including BS 5837:2005 on how to protect trees during development, the No Dig construction can be achieved by using perforated CORe-protectoR available in depths of 50mm, 100mm, 150mm and 200mm. When filled with granular materials, the system creates a three dimensional erosion barrier and structural bridge that uniformly distributes weight-bearing loads. The cellular nature of CORe-protectoR or Calvea TRB confines free draining subbase materials, stabilising the ground whilst enhancing drainage and preventing build-up of hydrostatic pressure.

CORe-protectoR Subgrade Preparation

1. Regularly over exposed tree roots with graded top soil.
2. Install geotextile membrane (GCI1000 or similar)
3. Install 'geopod' 'vertical' subject to intended traffic load and site conditions - install 'geopod' directly above geotextile membrane (GCI160 or similar), this will improve sub-base strength and extend life span of installation.

CORe-protectoR Panel Placement and Connection

4. Position and expand CORe-protectoR panels to the appropriate dimensions. Hold individual panels in their expanded positions with either 1 hook lifting pins or wooden stakes.
5. Ensure each panel is expanded uniformly and correctly aligned.
6. Install join advanced roller or wooden stakes in every other cell along the joints and around the perimeter of each panel. This will hold the CORe-protectoR panels firmly in place and prevent the expanded cells from collapsing during the infill process. To reduce the amount of infill pins required, use connecting studs (G4002) to pin adjacent panels. Once panels are filled filling pins may be removed to back.

Infill

7. Fill expanded cells with specified material progressively from front to back.
8. When filling the panels ensure to only drive over filled cells, this will prevent the empty expanded cells from collapsing.
9. Overfill cells with infill material, limit the drop height of infill material to 1m to avoid displacement of the empty cell wall.
10. Overfill cells to a depth of approximately 75-50mm and level for exposed aggregate surfaces. Maintain the 25-30mm wearing course over CORe-protectoR panels to prevent damage to the cell walls.
11. Compact infill to a minimum of 95 percent Standard Proctor. If intended as a Permanent Sub-Base Stabilisation
12. Overfill CORe-protectoR to a depth of approximately 25mm to allow for a flush finish after compaction. *Depth of overfill depends on compaction rate of material used and depth of specified panel. Compact to a minimum of 95 percent Standard Proctor. *A larger aggregate infill will require a capped layer of 3-6mm grit, compacted to a level fill to provide a firm uniform base with no voids for the wearing course.
13. Install geotextile membrane (GCI1000 or similar).
14. The wearing course may consist of permeable asphalt/concrete/paver stones/gravel or grass stabiliser. An edge restraint may be required depending on chosen wearing course.



Tree roots under path at locations of RPA

50mm Permeable paving material

CORe-protectoR / Cellweb TRP 100/200mm with clean angular stone 4/20

Refer to product Method Statement & data sheets etc

Subbase 300mm clean angular stone 4/20

Existing ground, Assumed CBR 1.0%

Geotextile separation membrane, Terrain 1000 or similar approved.

NOTE

Finished surface levels should coordinate with existing levels within RPAs

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PATH TREE PROTECTION INDICATIVE DETAIL - 1A

NOTE

Refer to product literature and brochure

Exceededge allsteel A456M to form path edging detail installed to manufactures details.

125x150 channel kerb laid on 225x300mm thick concrete (strength class C16/20) bed and haunch. Radial less than or equal to 10.0m shall be constructed using BS 7283 radius kerb sections. Radial greater than 10.0m shall be constructed using straight kerbs with chamfered joints to produce a uniform sweeping kerb.

35mm thick dense surface course, nominal stone size 6mm to ref no. 7.5 of BS 4897:2:2001 and grade 100/150 pen of BS EN 12591.

50mm thick dense binder course, nominal stone size 20mm to ref no. 6.5 of BS 4897:2:2001 and grade 100/150 pen of BS EN 12591.

200mm thick (minimum) MOT Type 2 sub-base, well compacted by rolling with a vibrating roller, initial layer minimum 225mm thick

Geotextile membrane, Terrain 1000 or similar approved.

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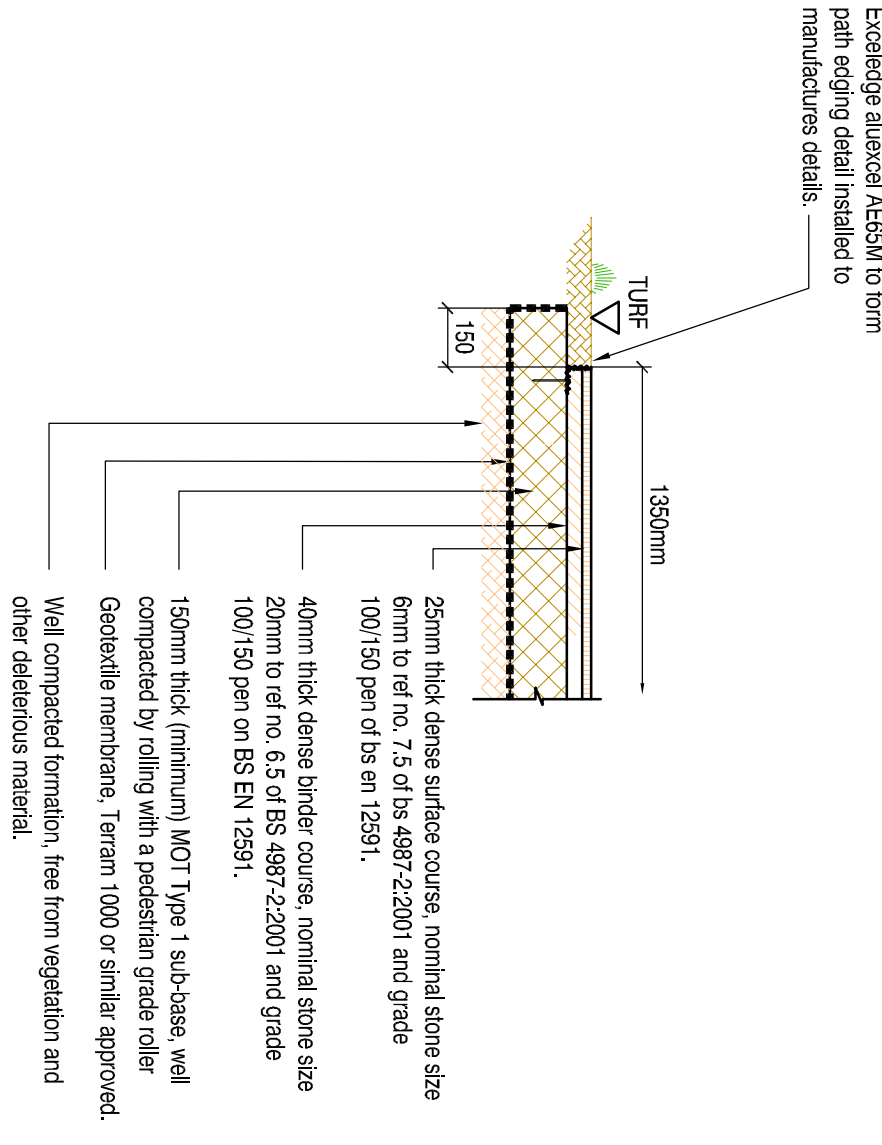
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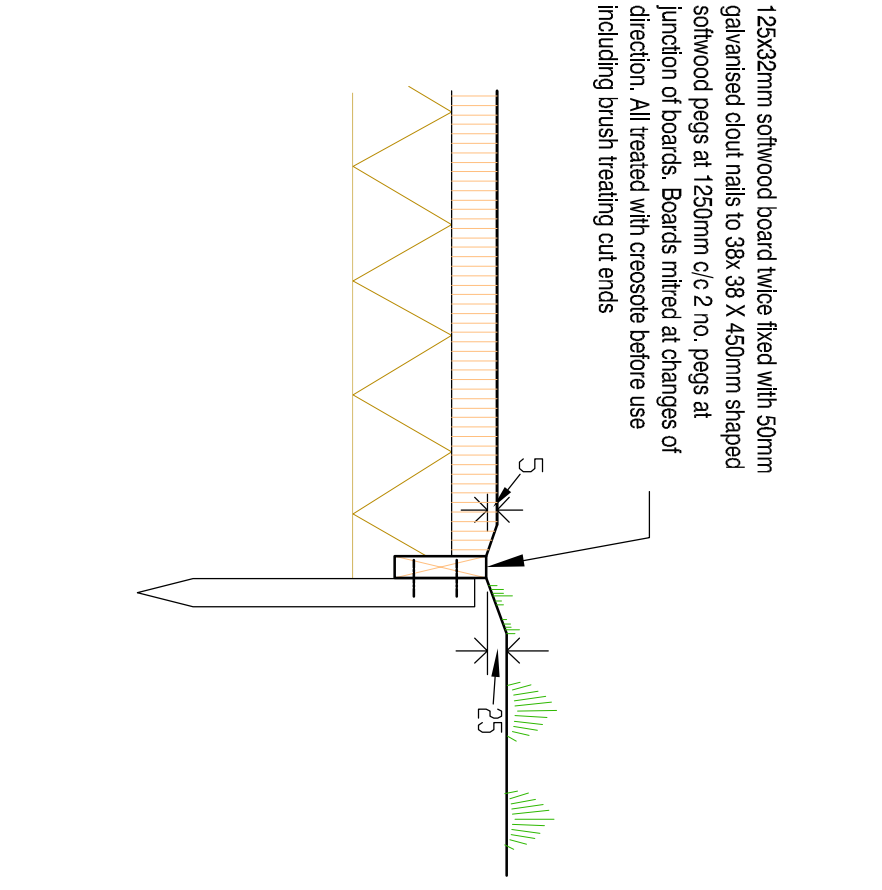
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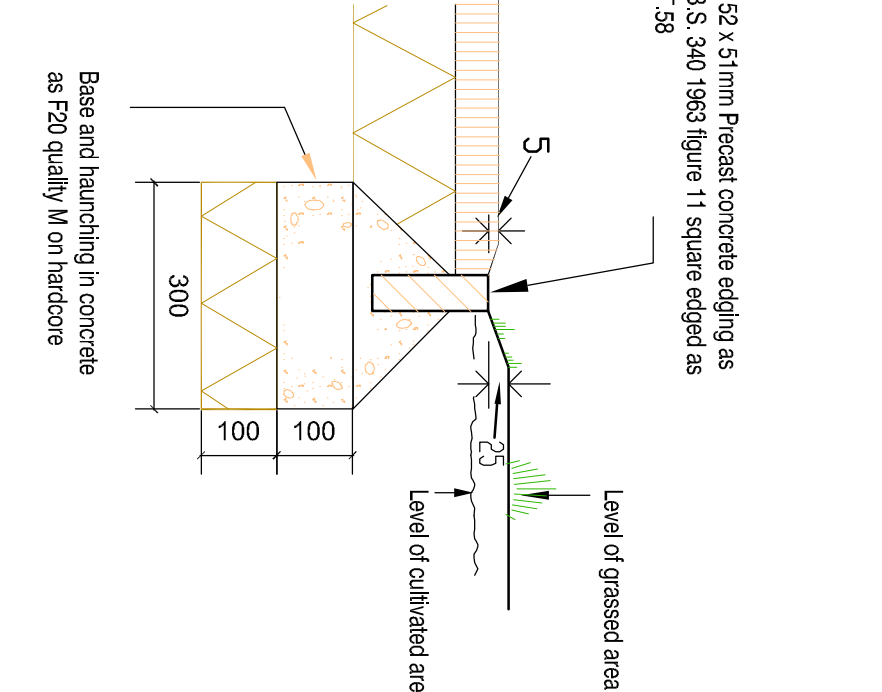
TYPICAL MAIN FOOTPATH DETAIL ALUMINIUM EDGING - 4 1:20



SOFTWOOD BOARD EDGING TO RESIN OR GRASSSED AREA - 5 (tbc) 1:10



VERTICAL PRECAST CONCRETE EDGING TO GRASSSED OR CULTIVATED AREA - 6 1:10



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EARTH MOUNDING
Mounding is not to be steeper than 1:3 gradient.

ROAD/DRIVE TREE PROTECTION INDICATIVE DETAIL - 1B 1:20

NOTE

Refer to product literature and brochure for Road build up recommendations

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EARTH MOUNDING
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Typical three dimensional cellular confinement system design with no dig kerbs and reinforced edges.

All dimensions are illustrative and subject to engineer's specifications

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