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HAVANT BOROUGH COUNCIL
18 JUN 2010
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Appendices Two;

Cellular confinement matting method of installation and construction

The access, parking apron and patio areas will require a no dig method of construction utilising a cellular confinement matting to form the engineering base in order to avoid localized soil compaction and to evenly distribute the carried weight of the vehicles. There are a number of products available that meet this requirement the two most commonly used are; Geoweb produced by the Cooper-Clarke Group and CellWeb produced by Geosynthetics.

The erection of the tree protection fencing specified within this report and in the locations illustrated on the drawing shall be implemented prior to any other works being undertaken. Precautions must be undertaken to ensure that the erection of the tree protection fencing does not penetrate or damage underground plant.

If any there is any ground cover (i.e. Bramble) within demarcated should be killed using a contact herbicide selected from the Pesticides Handbook. Specialist advice should be sought to establish the correct herbicide to prevent the up take of the chemical by the existing trees and its percolation into the ground water. Operators applying the herbicide should have the appropriate qualifications.

In this instance the soil surface can be skimmed to a depth of 100mm to remove leaf litter and establish the required levels for the new surface. If however if any roots in the region of 20mm are exposed these will be severed with hand secateurs and cut back to below the working surface of to a distance of 250mm behind the edge restraints which ever is the most appropriate for the situation encountered.

Tanalised timber stakes 50 x 50mm shall be hammered into the ground at 900mm centers with additional pegs inserted at the corners. The finished height of the pegs should be 25mm below that of the edging boards.

Gravel boards are then secured to the pegs ensuring that both elements are vertical and do not move. The height of the boards should be approximately 25mm below that of the finished level for the passing bay.

A geotextile sheet such as Fibretex F4M or a similar product having the same qualities is laid over the prepared surface between the edge restraints ensuring that there is sufficient overlap (at least 300mm). The geotextile should be secured on a temporary basis using weights to prevent movement.

Install the Geoweb / Cellweb by gradually expanding the cells to their maximum unified shape and secure in position by inserting stainless steel pins during the process, the pins should be distributed evenly across each panel. Eight x 12mm diameter pins should be used per panel. If necessary the panels can be jointed by stapling them together using at least four staples at each overlap. The excess Geoweb / Cellweb shall be removed using a sharp knife.

Starting from the highway boundary the expanded Geoweb / Cellweb cells shall be over filled by 50mm to create a surplus covering. The infilling operation shall be undertaken by hand using 40/20 no fines clean angular stone. The stone is then compacted to ensure a unified structure and height.

Once this phase is completed the base can be used for access into the site or the wearing course can then be installed. The chosen product must allow for the permeation of rainwater and permit gaseous exchange to take place. In this instance the use of dry butt jointed porous concrete blocks is the preferred option.

The above is methodology is for guidance and does not override that issued by the product manufacturers.

The site supervisor is responsible for ensuring that all health and safety requirements are satisfied. The site supervisor shall conduct a visual inspection of the finished surface above the cellular confinement matting prior to the installation of the wearing course. The site supervisor shall provide the associated Quality Assurance document to the client.

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