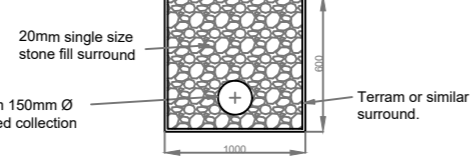


**Footway Construction:**  
 20mm thick of 6mm dense asphalt concrete surface course 160/220, BS EN 13108 (DTP Specification Clause 909). NOTE: Gritstone or Blast furnace slag aggregate material must be used.  
 60mm thick of 20mm dense binder course asphalt concrete 100/150, BS EN 13108 (DTP Specification clause 906).  
 150mm thick MOT Type 1 granular sub-base material to BS EN 13285 (DTP Specification Clause 803).  
**Total Construction Thickness 230mm**

**Carriageway Construction**  
 40mm Surface Course - 10mm SuperDrainasphalt  
 60mm Binder Course - 20mm SuperDrainasphalt  
 100mm Base Course - 32mm SuperDrainasphalt  
 250mm thick MOT Type 3 Granular sub-base (subject to CBR value) BS EN 13285-1 (DTP Specification Clause 803). Refer to Table 1 below.  
**Total Minimum Construction Thickness 450mm**

450mm minimum construction depth required on frost susceptible subgrades. All materials within 450mm of the finished road surface shall be non-frost susceptible.



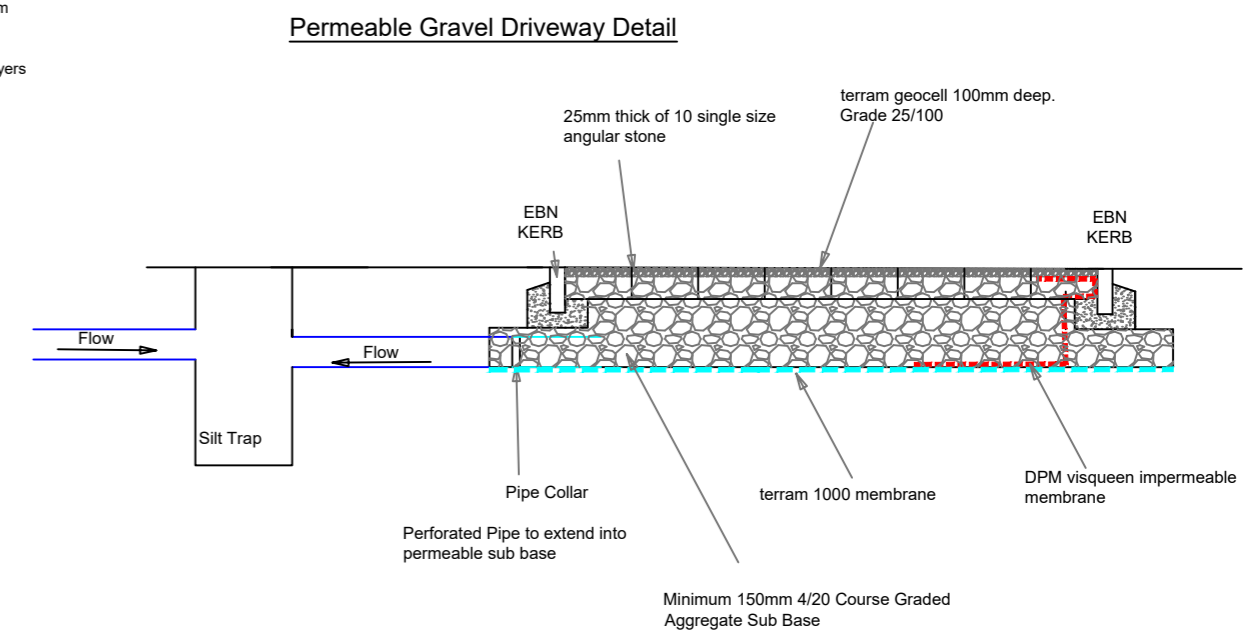
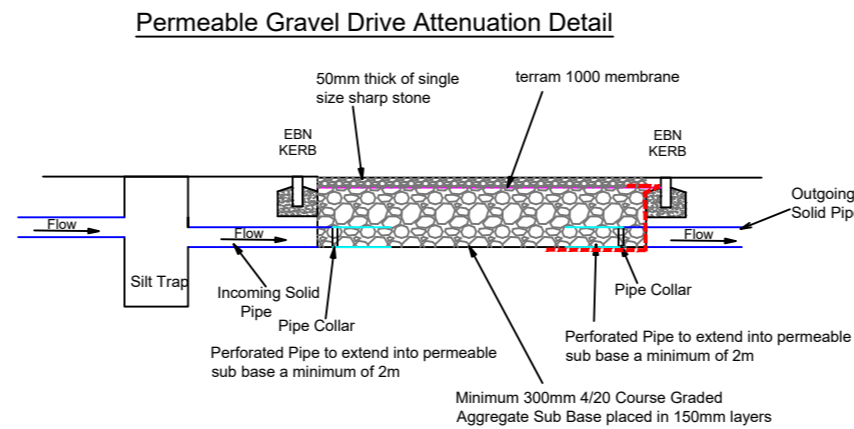
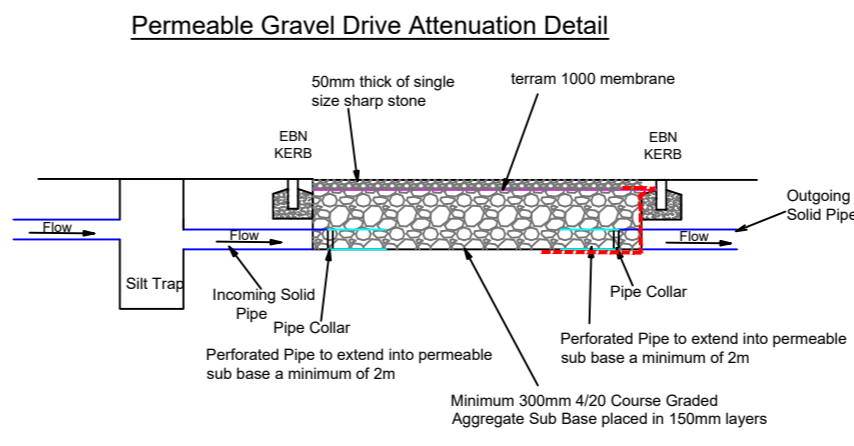
**\*Note:**  
 • Construction based on a formation CBR of 5%. If the CBR falls below this level refer to Engineer.  
 • DTP - Clause refers to Department of Transport Specification for Highway Works.

**Capping Layers:**  
 A capping layer shall be provided where a CBR is less than 5%. This material shall be provided to 6F2 (DTP Specification Clause 613) if a capping layer is required the MOT Type 1 sub-base material may be reduced to 150mm minimum.

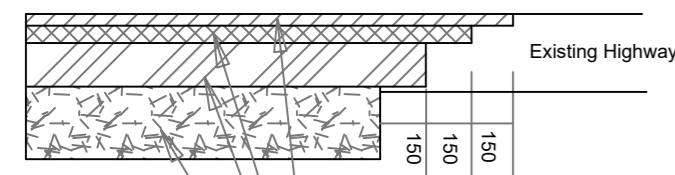
Sub-grade CBR	Capping Layer (mm)	Sub-base (mm)
Above 5%	0	250
2-5%	350	150
Below 2%	600	150

A terram or similar geotextile shall be provided where a CBR of 3% or less is achieved.

**Vehicular Crossing Construction:**  
 20mm consolidated thickness of 6mm dense asphalt concrete surface course 160/220, BS EN 13108-1. (DTP Specification Clause 909). NOTE: Gritstone or Blast furnace slag aggregate material must be used.  
 60mm consolidated thickness of 20mm dense binder course asphalt concrete 100/150, to BS EN 13108 (DTP Specification Clause 906).  
 150mm thick MOT Type 1 granular sub-base material. (DTP Specification Clause 803).  
**Total Construction Thickness 230mm**

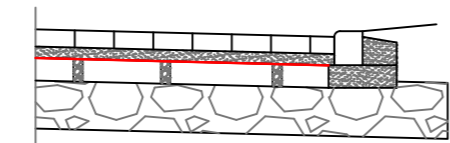


**Tie-in Construction**



**Carriageway Construction**  
 30mm SMA Surface Course with 50 pen binder to BS EN 13108-5:2006 (DTP Specification Clause 912).  
 80mm Dense Binder Course to BS EN 13108-1 (AC 20 dense bin 100/150) (DTP Specification Clause 906).  
 110mm Dense Base Course to BS EN 13108-1 (AC 32 dense base 100/150) (DTP Specification Clause 906).  
 250mm MOT Type 1 Sub-base. (DTP Specification Clause 803).  
**Total Construction Thickness 450mm**

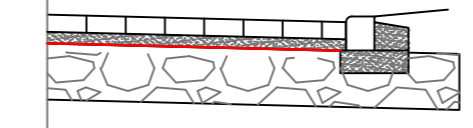
**Permeable Block Paving Access Road Construction**



**Permeable Block Paved Access Road Construction**  
 80mm Marshalls Brindle Porous Block Paving or similar approved  
 30mm Thickness of 3-6mm grit bedding  
 Terram 1000 Geomembrane  
 110mm DBM Roadbase to BS4987-1:2005 Clause 5.2 (DTP Specification Clause 903).  
 250mm Sub-base - less than 5mm fines (DTP Specification Clause 803).  
**Total Construction Thickness 470mm**

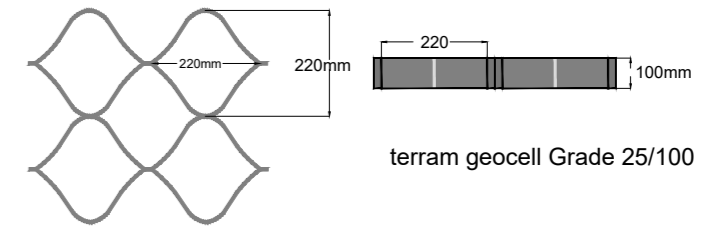
**Note:**  
 Puncture holes to be at 1.0m centers through out the road base construction, holes to be filled with single sized sharp stone.  
 Terram 1000 Geomembrane to be laid between grit bedding and roadbase.

**Permeable Block Paving Driveway Construction**

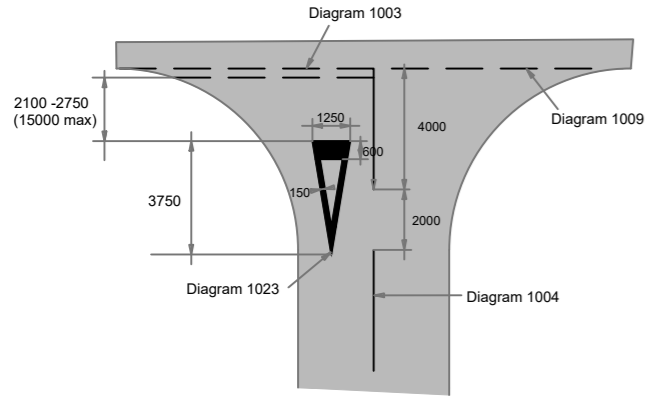


**Permeable Block Paved Driveway Construction**  
 80mm Marshalls Brindle Porous Block Paving or similar approved  
 30mm Thickness of 3-6mm grit bedding  
 Terram 1000 Geomembrane  
 225mm Sub-base - less than 5mm fines (DTP Specification Clause 803).  
**Total Construction Thickness 335mm**

**Note:**  
 Terram 1000 Geomembrane to be laid between grit bedding and sub-base.

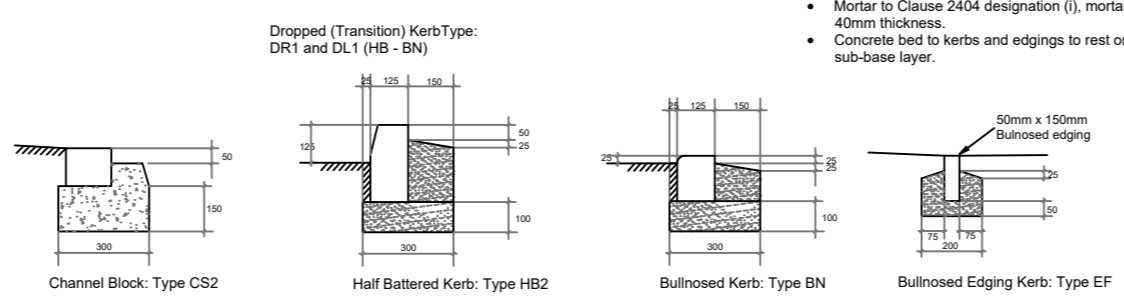
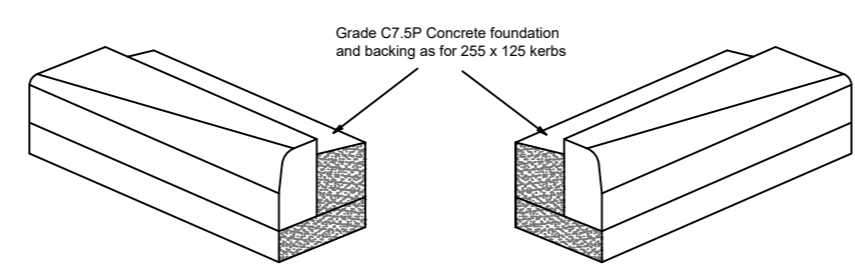


**White Line Junction Markings**



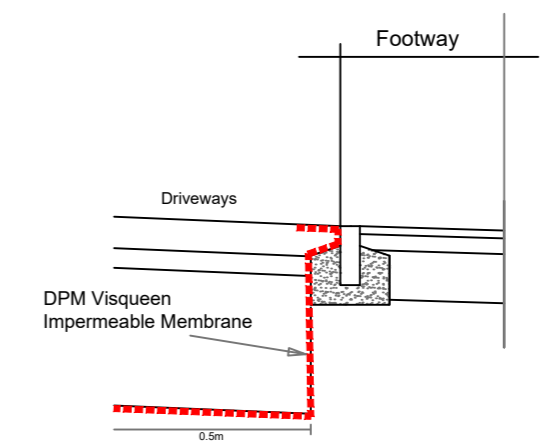
**Notes:**  
 All markings to comply with Traffic Signs Manual Chapter 5 - Road Markings 2019 Figure 5-1.  
 - The prescribed marking (diagram 1003) consist of two broken lines, each comprising 600mm marks and 300mm gaps. The lines are 200mm wide and spaced 300mm apart.  
 - The prescribed marking (diagram 1009) consist of a broken line comprising 600mm marks and 300 gaps. The lines are 100mm wide.  
 - The prescribed marking (diagram 1004) consist of a line 4000mm long. The lines are 100mm wide.

**Kerbing**

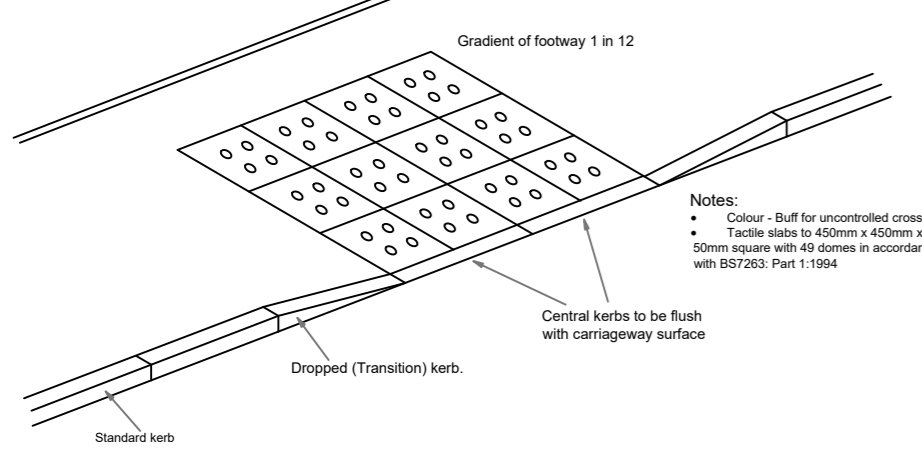


**Notes:**  
 • All Precast concrete kerbs and edgings to BS7263-3:2001  
 • Concrete bed and haunching ST1 Mix to BS EN 206-1:2002 and BS8500 in accordance with SHWW Clause 2602  
 • Kerbs and edgings may be laid directly on a fresh concrete bed within two hours of mixing, then haunching applied. Alternatively, when concrete bed has hardened, kerbs may be laid on a mortar bed.  
 • Mortar to Clause 2404 designation (i), mortar to be 10 to 40mm thickness.  
 • Concrete bed to kerbs and edgings to rest on or within sub-base layer.

**Impermeable Membrane Protection for Footway/Highway Carriageway**



**Pedestrian Crossing Detail**



**Notes:**  
 • Colour - Buff for uncontrolled crossings  
 • Tactile slabs to 450mm x 450mm x 50mm square with 49 domes in accordance with BS7263: Part 1:1994

**Woodsyde Developments Limited**

Project:  
**Proposed Residential Development on Land at Pen-y-lan, Forden, SY21 8NE**  
 Client:  
**D A & O E Williams**  
 Drawing Title:  
**Road Construction Details**  
 Scale: **NTS @ A2** Date: **April 2023**  
 Drawing No.: **PL-RC-305**

The Poppies, Lower Road, Harmer Hill, Shropshire. SY4 3QX.  
 Tel: 01939 290483 Mob: 07527 352084  
 email: andrew@awgough.co.uk