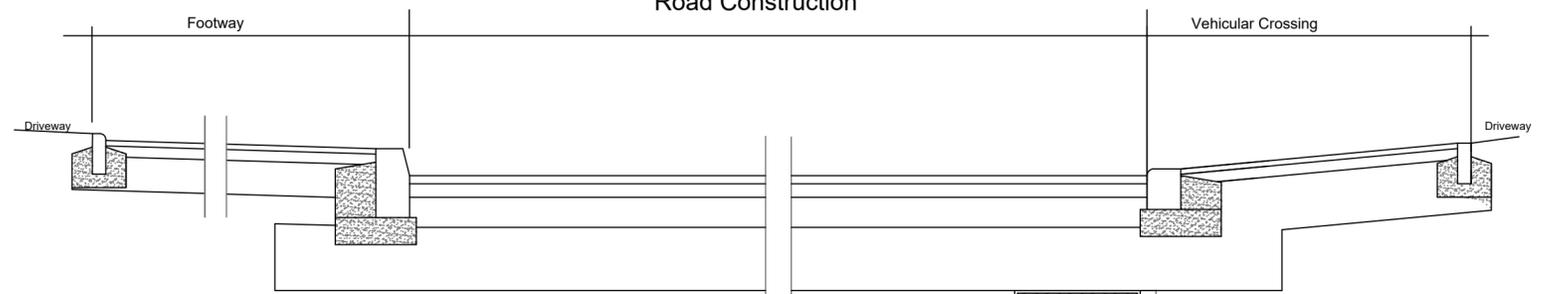


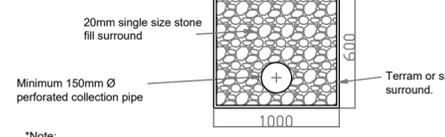
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Road Construction



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 - 40mm base, 75mm holes punched at 750mm centres and filled with 6mm grit.
 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.

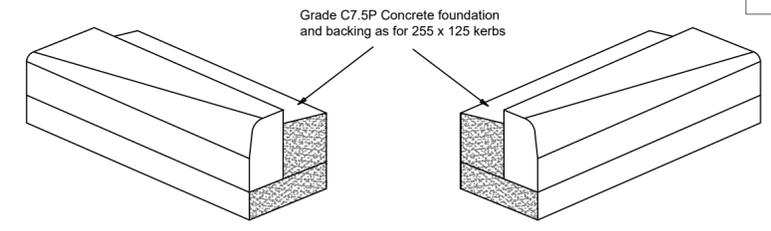
Capping Layers:
 A capping layer shall be provided where a CBR is less than 5%. This material shall be provided to 6F2 (DTp Specification Clause 613) If a capping layer is required the MOT Type 1 sub-base material may be reduced to 150mm minimum.

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.

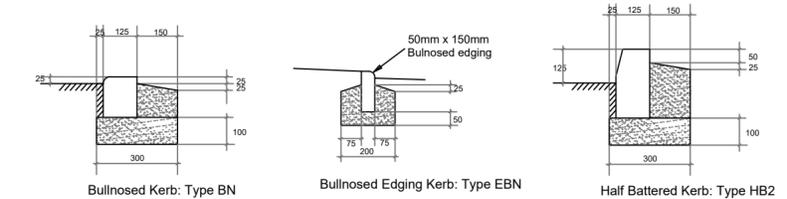
Vehicular Crossing Construction:
 20mm consolidated thickness of 6mm dense asphalt concrete surface course 160/220, BS EN 13108-1, (DTp Specification Clause 909). NOTE: Gritstone or Blast furnace slag aggregate material must be used.
 60mm consolidated thickness of 20mm dense binder course asphalt concrete 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

Kerbing



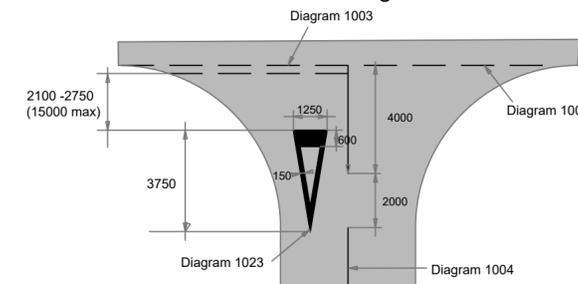
Grade C7.5P Concrete foundation and backing as for 255 x 125 kerbs

Dropped (Transition) Kerb Type: DR1 and DL1 (HB - BN)



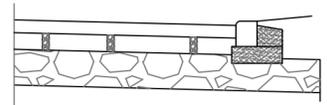
- Notes:**
- All Precast concrete kerbs and edgings to BS7263-3:2001
 - Concrete bed and haunching ST1 Mix to BS EN 206-1:2002 and BS8500 in accordance with SHWW Clause 2602
 - Kerbs and edgings may be laid directly on a fresh concrete bed within two hours of mixing, then haunching applied. Alternatively, 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.
 - Dowel bars are specified when small element edging is used. They are to be bedded at 500mm centres.

White Line Junction Markings



- Notes:**
 All markings to comply with Traffic Signs Manual Chapter 5 - Road Markings 2003
- 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.

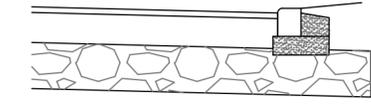
Permeable Asphalt Access Road Construction



40mm Breedon Porous Asphalt or Similar Approved
 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 400mm

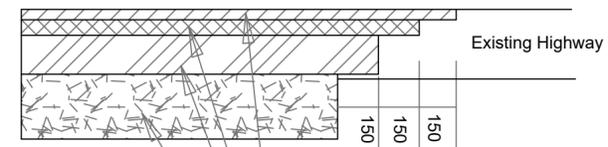
Note:
 Puncture holes to be at 1.0m centers through out the road base construction, holes to be filled with single sized sharp stone.

Private Road Construction



30mm Close Graded Asphalt Concrete Surface Course AC 10 Close Surf 100/150 to BS EN 13108-1 : 2005. (DTp Specification Clause 912).
 110mm Dense Base Asphalt Concrete to BS EN 13108-1 : 2005. AC 32 Dense base 100/150. (DTp Specification Clause 906).
 250mm MOT Type 1 Sub-base. (DTp Specification Clause 803).
Total Construction Thickness 390mm

Tie-in Construction



Carriageway Construction
 30mm SMA Surface Course with 50 pen binder to BS EN 13108-5:2006 (DTp Specification Clause 912).
 60mm 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

- Notes:**
Method of Construction:
- Gully pot placed in position with temporary cover
 - All pavement courses laid except surface (wearing course)
 - Pavement excavated no more than 200mm beyond sides of gully grating and frame fixed.
 - Excavation backfilled with ST4 concrete to underside of wearing course.
 - Gully located 50mm away from kerb face to create newt corridor
 - Infill to rear of gully frame in concrete up to binder level.
 - Surface course to fall towards gully from kerb face to prevent ponding

Gully Grating and Frame
 Grating & frame to BS EN 124:1994 as amended by BS7903 Class D400, 450mm nominal width, min bedding width of frame 75mm. Lower order roads - Ductile iron, min frame depth 100mm single piece, hinged, non-rock.

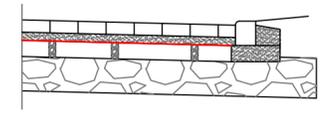
Brickwork beneath frame:
 Class B Engineering bricks to BS3921, mortar to BS5628: part 3, Table 15 designation (i).

Gully:
 Precast concrete gully to BS5911, or gully may be cast insitu using plastic gully as permanent integral shutter with minimum 150mm concrete surround.

Trapped part of gully not to be more than 750mm below finished road surface.

Where gully connections have less than 1.2m cover, they should be provided with a type Z concrete surround.

Permeable Block Paving Access Road Construction

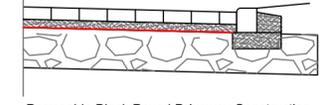


80mm Marshalls Brindle Porous Block Paving or similar approved
 30mm Thickness of 3-6mm grit bedding
 Terram 1000 Geomembrane
 110mm DBM Roadbase to BS4987-1:2005 Clause 5.2 (DTp Specification Clause 903).
 250mm Sub-base - less than 5mm fines (DTp Specification Clause 803).
Total Construction Thickness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

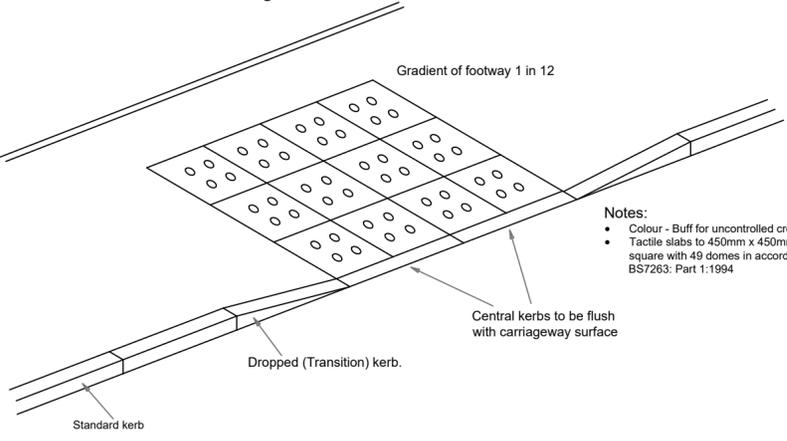
Permeable Block Paving Driveway Construction



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.

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

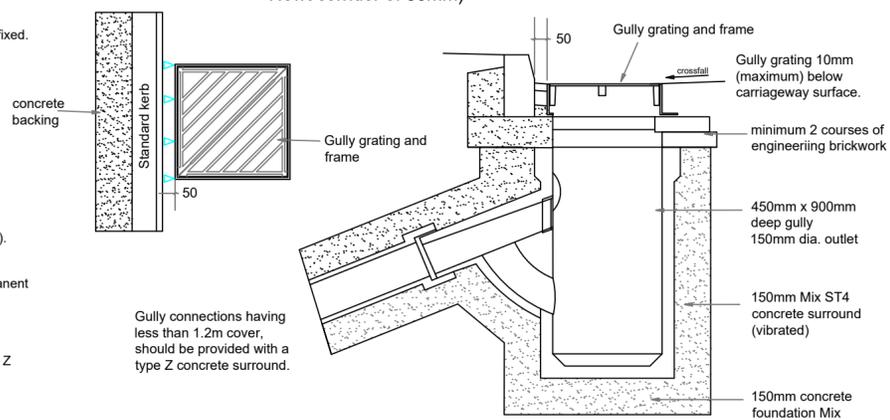
Gradient of footway 1 in 12

Central kerbs to be flush with carriageway surface

Dropped (Transition) kerb.

Standard kerb

Gully Detail (with Newt corridor of 50mm)



Gully connections having less than 1.2m cover, should be provided with a type Z concrete surround.

Rev B: Additional Details Amended AG 12.07.2023
 Rev A: Private road construction detail added AG 20.06.2021

Woodsyde Developments Ltd

Project:
Proposed Residential Development on Land adjacent to Oldcastle Avenue, Guilsfield
 Client:
Richarl Ltd
 Drawing Title:
Road Construction Details
 Scale:
NTS @ A2 Date:
April 2021
 Drawing No:
GD-RC-205: Rev B

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