SHW = Specification for Highway Works (current amendment)

* Refer to Engineering Layout

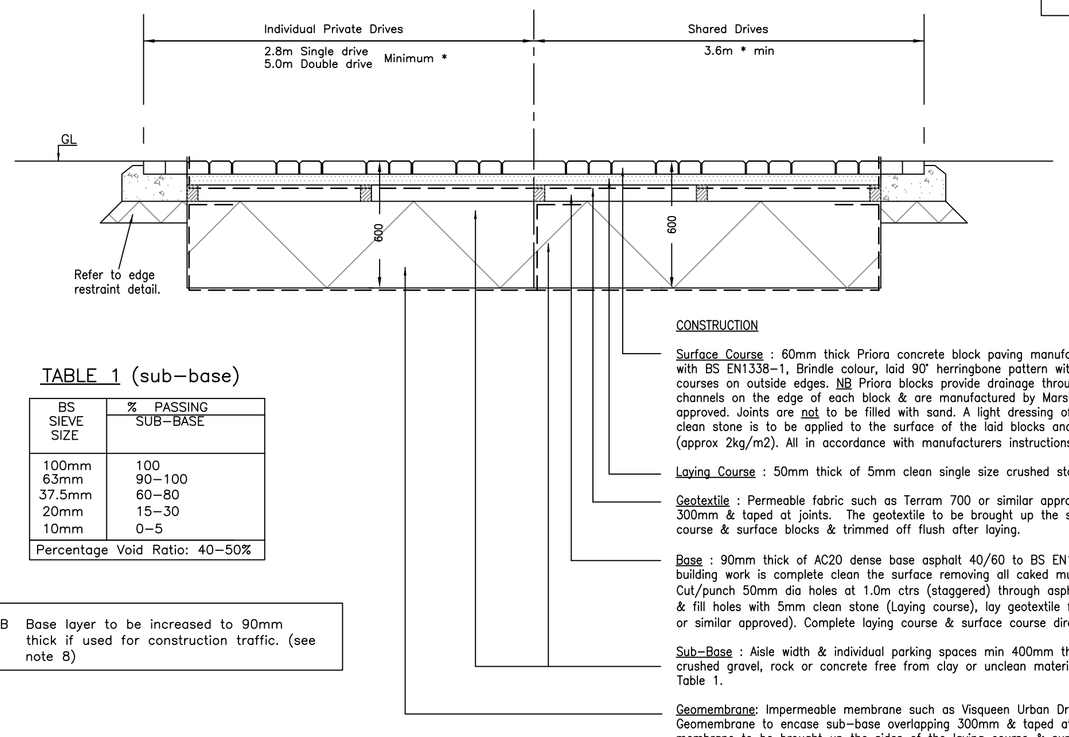


TABLE 1 (sub-base)

BS SIEVE SIZE	% PASSING SUB-BASE
100mm	100
63mm	90-100
37.5mm	60-80
20mm	15-30
10mm	0-5
Percentage Void Ratio: 40-50%	

NB Base layer to be increased to 90mm thick if used for construction traffic. (see note 8)

CONSTRUCTION

Surface Course : 60mm thick Priora concrete block paving manufactured to comply with BS EN1338-1, Brindle colour, laid 90° herringbone pattern with two stretcher courses on outside edges. NB Priora blocks provide drainage through vertical cut channels on the edge of each block & are manufactured by Marshalls or similar approved. Joints are not to be filled with sand. A light dressing of 3mm single size clean stone is to be applied to the surface of the laid blocks and brushed in (approx 2kg/m2). All in accordance with manufacturers instructions.

Laying Course : 50mm thick of 5mm clean single size crushed stone to BS EN13242

Geotextile : Permeable fabric such as Terram 700 or similar approved overlapping 300mm & taped at joints. The geotextile to be brought up the sides of the laying course & surface blocks & trimmed off flush after laying.

Base : 90mm thick of AC20 dense base asphalt 40/60 to BS EN13108-1. After building work is complete clean the surface removing all caked mud, slurry etc. Cut/punch 50mm dia holes at 1.0m ctrs (staggered) through asphalt into sub-base & fill holes with 5mm clean stone (Laying course), lay geotextile fabric (Terram 700 or similar approved). Complete laying course & surface course directly after.

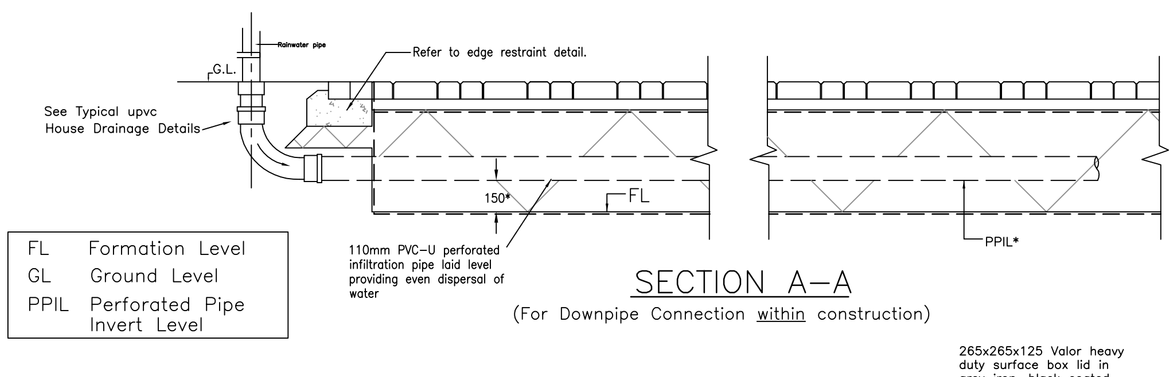
Sub-Base : Aisle width & individual parking spaces min 400mm thick of clean crushed gravel, rock or concrete free from clay or unclean material & graded as per Table 1.

Geomembrane: Impermeable membrane such as Visqueen Urban Drainage Geomembrane to encase sub-base overlapping 300mm & taped at joints. The membrane to be brought up the sides of the laying course & surface block & trimmed off flush after laying.

Sub-grade : The sub-grade shall be excavated with a fall as per fall of drive, unless otherwise specified on the Engineering Layout. (502/1/2/3 – Engineering Layouts) The above overall construction depth is the minimum.

TYPICAL PERMEABLE DRIVE CROSS SECTION

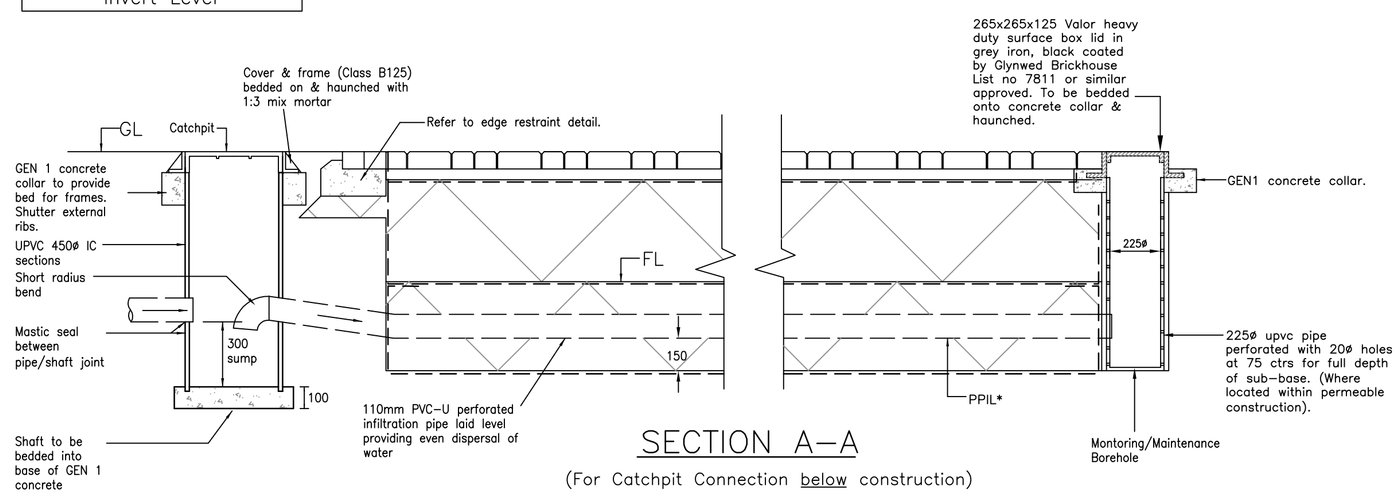
Scale 1/20



FL Formation Level
GL Ground Level
PPIL Perforated Pipe Invert Level

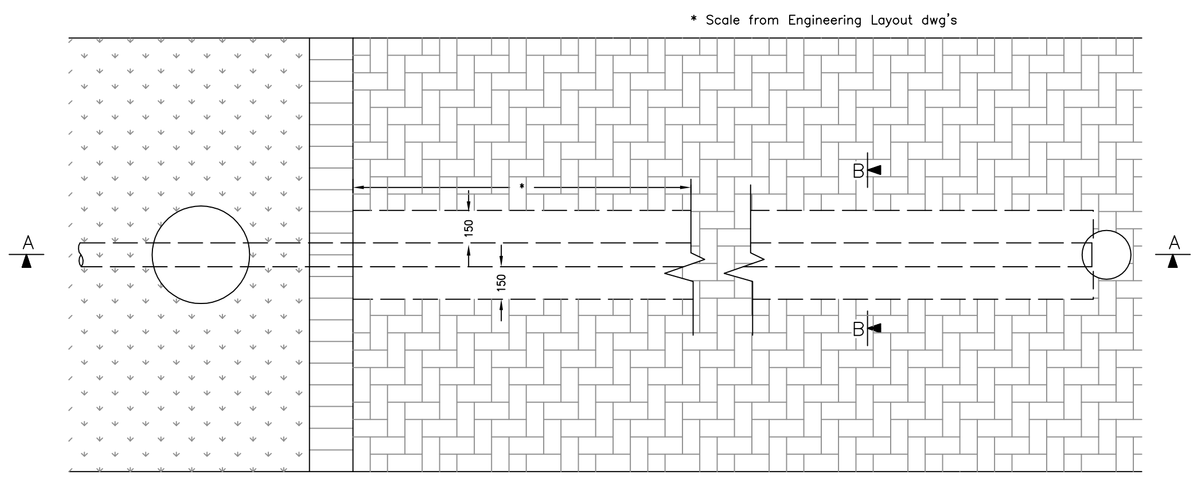
SECTION A-A

(For Downpipe Connection within construction)



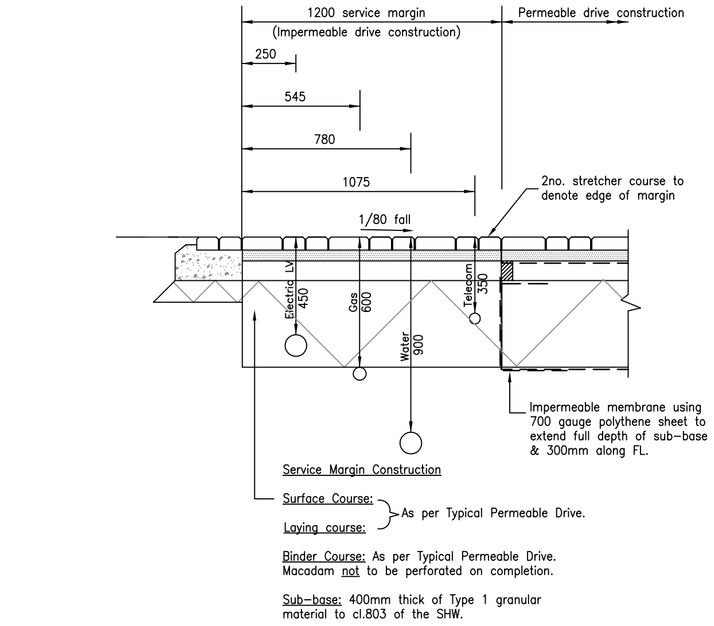
SECTION A-A

(For Catchpit Connection below construction)



PLAN INFILTRATION PIPE DISTRIBUTION

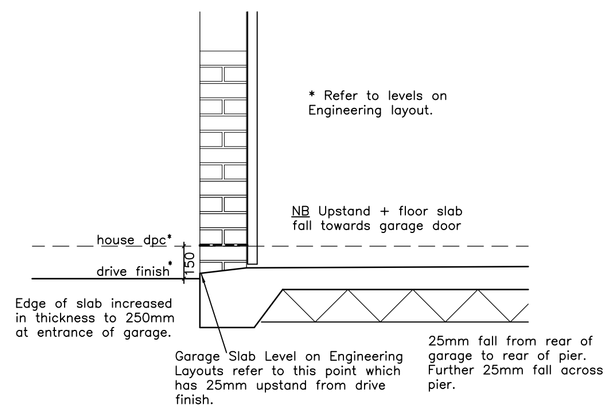
Scale 1/20



SERVICE MARGIN CONSTRUCTION DETAIL

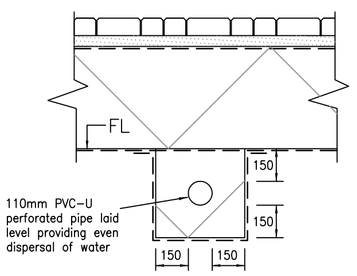
Refer to Combined Services Layout for location of margin

Scale 1/20

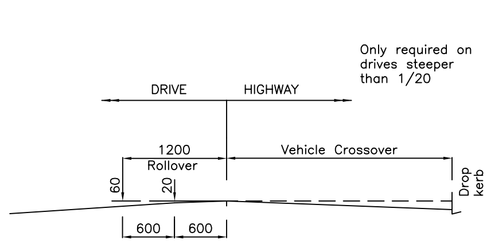


Garage Slab Detail

Scale 1/20

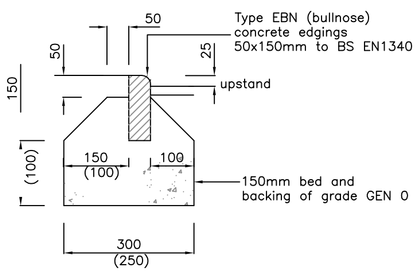


SECTION B-B



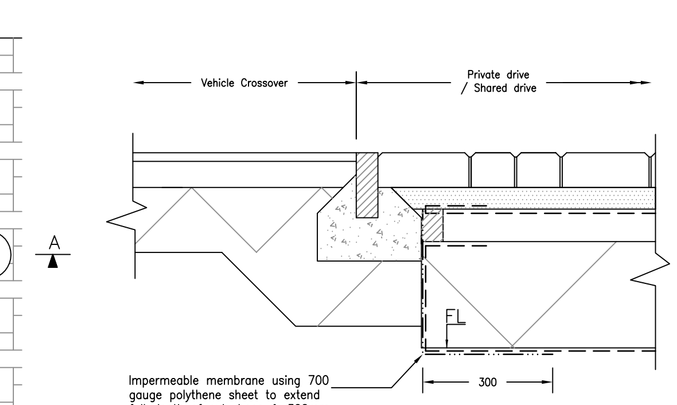
ROLLOVER DETAIL

Scale 1/50



KERB RESTRAINT

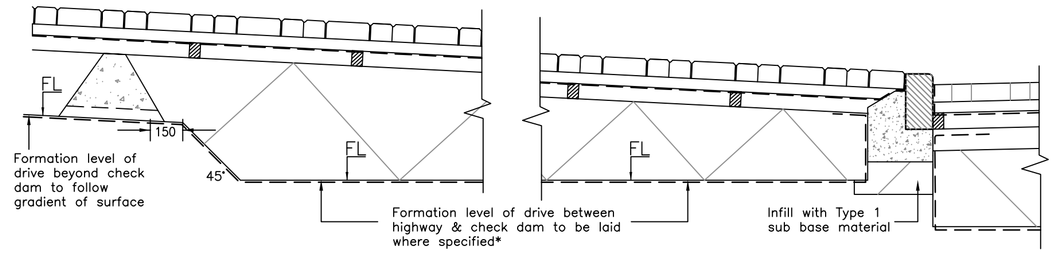
Scale 1/10



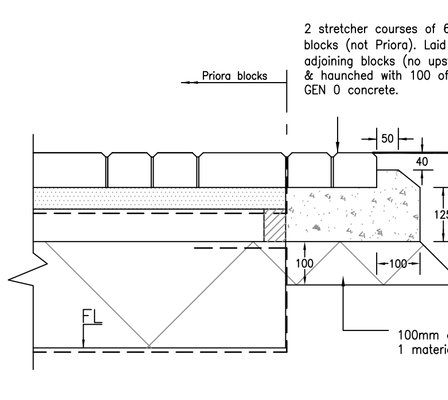
EDGE RESTRAINT AT VEHICLE CROSSOVERS.

Scale 1/10

(Similar arrangement when drive abuts garage / house & service margin).

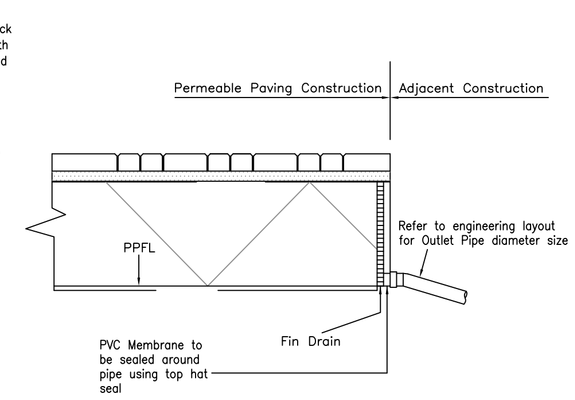


STEPPED FORMATION IN PERMEABLE DRIVE

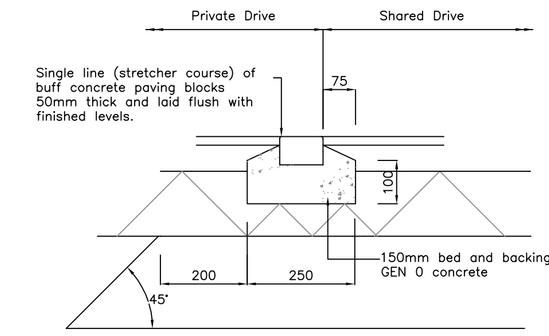


EDGE RESTRAINT

Scale 1/10

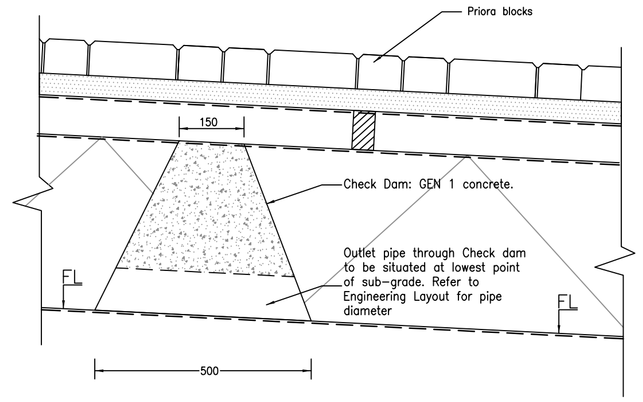


POROUS DRAIN IN PERMEABLE BLOCK PAVING



DEMARCATION (dm)

Scale 1/10



CHECK DAM IN PERMEABLE DRIVE

Scale 1/10

General Notes

1. The formation level (FL) shall be free of all vegetation and roots & shall be treated with a granular weed killer of the pre-emergent type.
2. The F.L. shall receive one pass of the designated roller to minimise any subsequent settlement.
3. If for any reason the F.L. is exposed to wet weather longer than 8 hours without a protective layer then the F.L. shall be reduced to a new level 200mm below the F.L. stated, or to a depth agreed with the Engineer on site. Any such material shall be classed as unacceptable.
4. Additional material required to make up levels in fill areas shall be of a well compacted granular material with a compacted CBR of 15% or greater and shall be laid and compacted in accordance with BS6031 (Code of Practice for Earthworks) An increase in width of 200mm beyond the kerb haunching will be required to facilitate adequate compaction at the edges.
5. CBR tests shall be taken once 2 above has been completed to determine/finalise the overall construction thickness, or trial holes can be taken prior to commencement of construction. These tests to be carried out by an Engineer.
6. All drive construction materials shall be laid and compacted in accordance with their respective British Standard.
 Macadams – BS 594987
 Type 1 – Series 800 of SHW.
 Kerbs – BS 7533-4
 Blocks – BS 7533-3
7. If the binder course is to be left as a running surface then it shall be sealed with coated grit immediately on compaction of the Binder course (basecourse).
8. A tack coat of K1-40 or A1-40 shall be applied to the binder course prior to the surface course being laid if the previous course is not to be covered immediately by the next layer. The rate of application shall be 0.4 L/m2.
9. Where possible surface course and binder course to the shared drives shall be machine laid using a mini-paver and compacted using a smooth wheeled roller 6-12t dead weight or equivalent. Private drives shall be hand laid.
10. Samples of Laying Course & sub-base material shall be made available to the Engineer for compliance testing 4 weeks prior to use. Random testing will be undertaken during the actual construction of the drives.

Grading & material certificates to be forwarded to BH Engineer for approval.

FL Formation Level
GL Ground Level
PPFL Permeable Paving Formation level

* Refer to Engineering layout for width, levels etc.

Rev	Date	Details	By
A	04.07.16	Drawing revised to suit permeable storage system.	NM

Drainage Authority Approval Date

Highway Authority Approval Date

Do not scale from this drawing. Use written dimensions only. When shown relationships between slab levels and ground levels are to be checked on site. Any discrepancy or suggested modification to be reported to Design and Engineering Director.
Note : This drawing is the copyright of Bovis Homes Ltd.

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SITE

HAMPTON PARK
LITTLEHAMPTON, WEST SUSSEX

DRAWING TITLE

PRIVATE DRIVE DETAILS
PLOTS 6 - 117

DRAWN BY	DATE	DRAWING NO.	REV
NM	OCT 2015	LITL-506/1	A
SCALE: AS SHOWN	CHECKED/DATE		