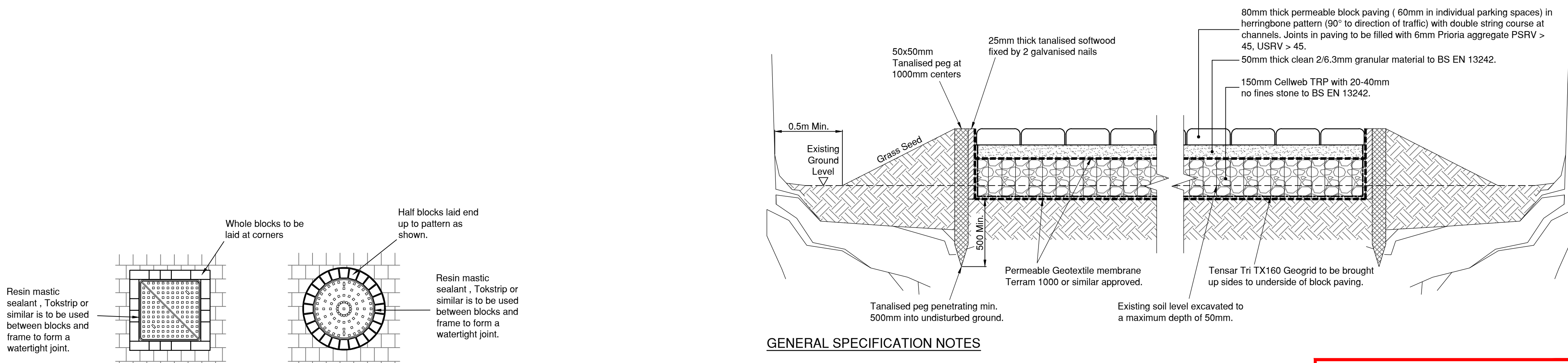


Permeable Block Paving Construction - Roads

Permeable Block Paved Private Driveway/Footway Construction Detail

Typical Section Through Service Trench Located in Impermeable Block Paving

CBR VALUE (%)	Minimum sub-base thickness (mm) Consolidated in accordance with MCHW Volume 1 clause 801, Table 8/1	
	Without geotextile underneath	With geotextile underneath
less than 2	n/a	300
2 - 3	325	225
3 - 5	250	150
5 - 7	150	
7 - 20	100	



Typical Detail Around Manhole Covers in Permeable Block Paving

All works within tree root protection areas must be in accordance with the arboricultural method statement and subject to approval by the arboriculturist.

Typical "No Dig" Permeable Block Paved Construction Detail

NOTES

1. This drawing is to be read in conjunction with other highways construction details.
2. All dimensions are in millimetres unless stated otherwise.
3. Do not scale from this drawing. Only written dimensions are to be used.
4. A design CBR value of 4% has been assumed, this is subject to test results from geotechnical engineering.
5. Adoptable highways works to be constructed in accordance with West Sussex County Council standards and specifications and the Department of Transport "Specification for Highway Works".
6. All dimensions to be in accordance with the Department of Transport's Specification for Highway Works 2005 and WSSCC Model Contract Specification.
7. No works shall commence within the existing public highway until the Agreement is signed.
8. An approved weedkiller (harmless to humans, animals and insects) is to be applied (as per manufacturer's recommendations) to the highway and its verges in the vicinity of new carryways and footways and/or as directed by the Highways Inspector.
9. Any damage caused to the existing highway during the course of the works to be repaired as directed by the Highways Inspector and/or Area Engineer.
10. The Contractor is to provide suitable and sufficient washing facilities to prevent mud from being conveyed onto the public highway and to provide the means to clean the highway to the satisfaction of the Highways Inspector, Area Engineer and/or Local Authority.
11. No concrete to be poured or laid in temperatures below 2 deg C on a falling max/min thermometer or below the minimum temperature of 5 deg C on a rising max/min thermometer (to be provided by the Contractor and displayed in a position agreed by the Highways Inspector).
12. All ballasts shall be approved by the highways inspector prior to their installation.
13. No private apparatus (gullies, rodding eyes, boxes, chambers, etc.) shall be allowed to be located within the adopted highway.
14. All road signs and markings to comply with The Traffic Signs Regulations and General Directions 2016. Road Markings to be thermoplastic.
15. Contractor to comply with Chapter 8 of the Traffic Signs Manual 2009.
16. Refer to the Highway Works Manual for details of the Traffic Signs and Traffic Facing Surfaces 1999. Traffic Pedestrian Crossings to have a 6mm (maximum) upward (not flush). Actual layout of traffic paving to be agreed on site with the Highways Inspector prior to laying slabs.
17. All street lighting to be installed per West Sussex County Council's lighting specification.
18. Kerbs to be straight light grey concrete to be BS EN 1240 & laid to BS 5753-6.
19. Kerbs to be butt jointed. Where kerb alignments incur 'minor open joint tapers' between formed surfaces mortar jointing shall be used as directed by Highways Inspector.
20. All full length PCC kerbs are to be mechanically handied.
21. All precast Kerbs & Edging to be laid to BS EN 1240 & laid to BS 5753-6.
22. All sets of natural stone shall be to BS EN 1342 and BS 7537.
23. All kerb and edging bed and backing to be concrete Class ST1 (C6/8) well compacted. Unless otherwise stated this shall be a minimum bed thickness of 150mm. Carryway marking dimensions to be as per the following table.
24. The minimum length of any cut kerb shall be 450mm.
25. The correct radius kerbs shall be used for all radii of 12m or less. For radius between 12m and 20m, 600mm long straight units shall be used. Radius kerbs shall be used to form corners of laydown areas.
26. The appropriate 914mm long precast concrete transition kerb shall be installed at each change in kerb type, i.e. into existing and at terminations.
27. All external angles on HB kerbs to be quadrants. Suitable quadrant kerbs shall be used to form corners of square areas and to form internal angles.
28. Bituminous materials to comply with relevant Clause No. in BS4847 - 2001.
29. Grading of granular sub-base material to comply with BS1377 - 1975.
30. Where the Subgrade is shrinkable clay and trees have been removed or are to be removed/retained within 10m of the sub-base, the following measures shall be installed between the capping & the sub-base layers, eg Tensar Triax TX160 or similar approved.
31. On heavy clay soils, or where new planting is to be undertaken adjacent the footway, the sub-base/capping layer beneath the footways shall be as per the adjacent carryway and a drainage ditch to be required adjacent the sub-base/capping layer to limit problems with cracks arising from shrinkage or swelling.
32. Overall thickness should not be less than 450mm due to frost susceptibility.
33. Cut blocks to be no less than 1/3 block.
34. Blot paper to be specified as minimum "Polished Paver Value" (PPV) and presented submitted to Engineer. Min value of 15.
35. A water based biodegradable sealant from approved supplier shall be used to prevent loss of sand.
36. Kilm dried sand jointing to be used in accordance with BS7533
37. Refer to Geotechnical report for sulphate resisting class and AECCE class.
38. Mortars shall be designation (ii) or (iii). Clause 2044 SHW.
39. Mortar pigments shall comply with BS EN 12878.
40. Blot paper for engineering Class B to BS EN 771-1 and Class 2406 laid in Class 1 mortar to Class D404 in radial road.
41. All gully grating and frames to be "hinged heavy duty ductile iron minimum grade D400 in accordance with BS EN 124: 1994 of section 508 of the Specification of Highways Works.
42. Concrete used for carryways and footways shall be to the specification using sulphate resisting cement (SRC) in accordance with BS 5911, part 230, 2004.
43. All buried concrete to be Cii(A or B)-S or Ciii A or B to BS 8500-2, Table 1 and Annex A.
44. Unless specified on the layout drawing, where the outlet pipe is under the carryway, or in the footway then 200mm D400 outlet pipe shall be used. Where the outlet pipe is 400mm and shall have a bed Type Z. Where the outlet pipe is under the verge and is greater than 2000 from the edge of carryway/1 shall have a min. 450mm cover.
45. Concrete linings are not to be used.
46. Total Concrete used for construction must be no less than 450mm to negate concrete susceptibility to frost penetration, irrespective of CBR value.

CDM NOTES

1. **EXISTING SERVICES.** Depth of existing services must be determined prior to works commencing. The contractor is responsible for establishing underground services in accordance with HSE Guidance note HS (G) 47. Any services which would be within the proposed construction layers must be lowered to below the sub-base.

A	21.08.20	No dip permeable paving detail added.	LD	PJ	TRS
Rev.	Date	Details	By	Chkd	Appd

Client:-

dandara

Site:- Fontwell Eastergate Arundel	Drawing Title:- TYPICAL CONSTRUCTION DETAILS
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Sheet 2 of 2

Date:	January 2019	Scales:	1:200 at A1
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Drawn:	LD	Checked:	TRS	Approved:	TRS
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Drawing No. **DAN/E4306/010-A**

DAN/E4736/010 A

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FOR INFORMATION ONLY

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