

80mm thk. Marshalls Piora permeable block paving (colour tbc) laid in herringbone pattern with double stretcher course around all perimeters. All in accordance with manufacturer's recommendations.

50mm min. Laying course of 2-6.3mm single sized crushed stone to BS EN 13242: 2002. Refer to Table 2 for grading recommendation.

Inbitex geotextile. Overlap by 300mm and bring up to the haunched kerb/edging and cut-off flush with the surface of the paving.

80mm min. nominal thickness of 20mm dense base (designation AC 20 dense base 40/60), to EN13108-1 and in accordance with clause 906 of S.H.W. Prior to laying of surface course to be core drilled with 75mm diameter holes on an orthogonal 750mm grid. Holes to be filled with laying course material.

Min. 400mm thick Coarse graded aggregate sub-base, all in accordance with BS EN 7553-13:2009 Annex A. Refer to Table 3 for preferred grading recommendation to BS EN 13242: 2002.

Marshall's MG15 Grid, to improve ground conditions, installed in accordance with manufacturer's guidelines and recommendations.

Impermeable membrane, in accordance with BS 7553-13, Cl 6.5, to be laid according to manufacturer's recommendations to ensure its integrity and that joints are adequately sealed. Bring up to the haunched kerb/edging and cut-off flush with the surface of the paving. Include fleece protection beneath membrane in accordance with manufacturer's recommendations.

Capping should not required based on the above detail if CBR value of 5% or greater is present, if during site works lower CBR values are encountered then consult with BEAL Consulting Engineers Ltd.

Where fill has been placed it is assumed that the material is clean acceptable engineering material for use under pavement construction such as class BF16F2 capping material to S.H.W. clause 613, and has been appropriately compacted. Surface level tolerance shall be +20mm and -30mm from the design levels.

Table 2 Laying course & jointing grading in accordance with BS EN 13242:2002		
Grading Requirements		
Aggregate Size (mm)	2/6.3	
Grading/Tolerance Category	Gc 80/20	
Grading Details		
Sieve Size (mm)	Percentage by mass passing ISO 565 Sieve	
14	100	
10	98 - 100	
6.3	80 - 99	
2	0 - 20	
1	0 - 5	
0.063	0 - 2	

Table 3 Course graded sub-base grading in accordance with BS EN 13242:2002, (with min. 30% void ratio)		
Grading Requirements		
Aggregate Size (mm)	4/20	
Grading/Tolerance Category	Gc 80/20 GTC 20/15	
Grading Details		
Sieve Size (mm)	Percentage by mass passing ISO 565 Sieve	
40	100	
31.5	98 - 100	
20	90 - 99	
10	25 - 70	
4	0 - 15	
2	0 - 5	

**Pavement Notes**

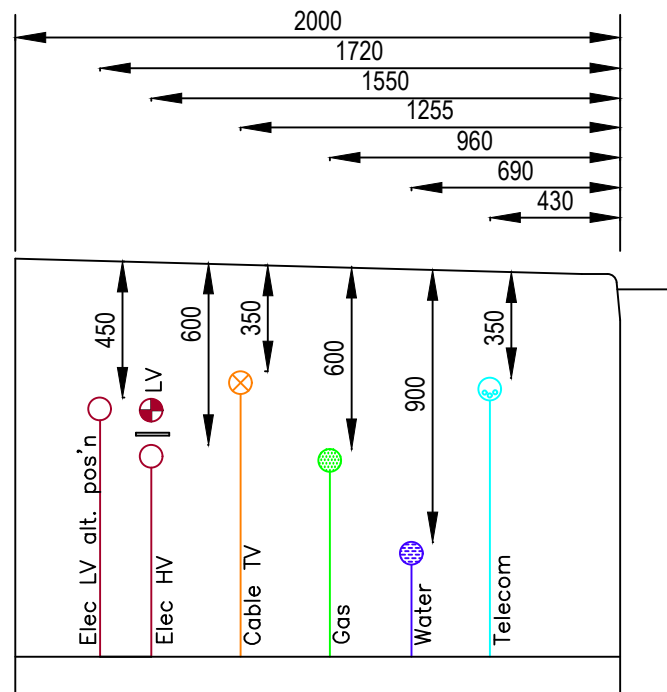
1. Final construction depth and capping requirements dependent on on-site CBR tests undertaken during works. Prior to placement of the sub-base or capping the formation shall be trimmed and rolled to S.H.W. clause 616. Any soft spots shall be brought to the attention of the Engineer for selection of appropriate remedial measures (also see Pavement Notes). If sub-grade is deemed as frost susceptible sufficient construction material to be provided (min. 450mm) to ensure that the construction is not be adversely affected by frost heave.

2. If the impermeable asphalt course is used as a temporary running surface for construction traffic, any areas of resulting surface damage must be made good prior to the cleaning and overlaying.

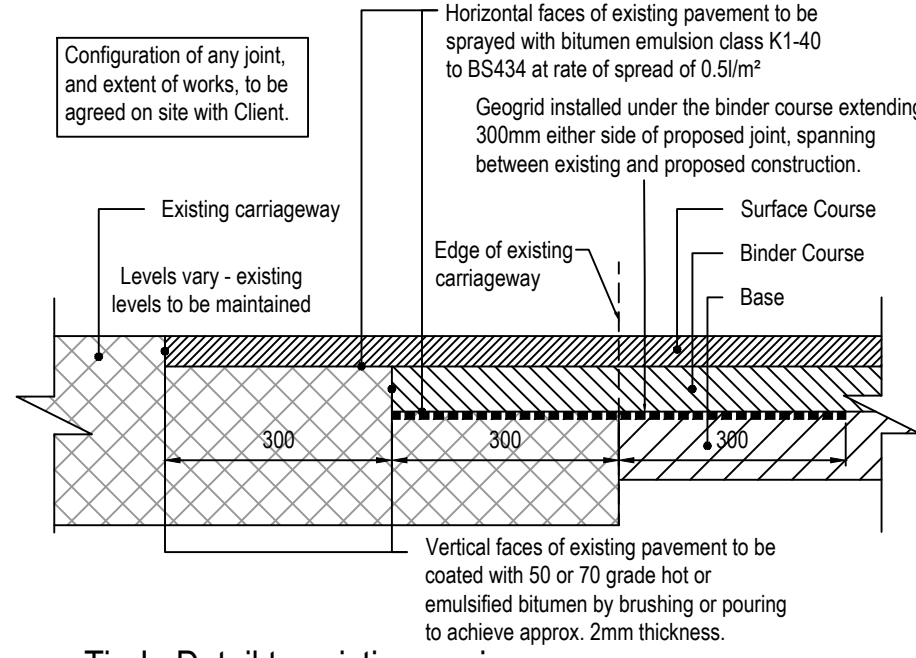
(NB: The likelihood of such damage occurring can be significantly reduced by the liberal application of a sealing grit to the finished asphalt concrete dense surface immediately after installation).

#### Permeable Block Paving (tanked) Access & Parking Detail

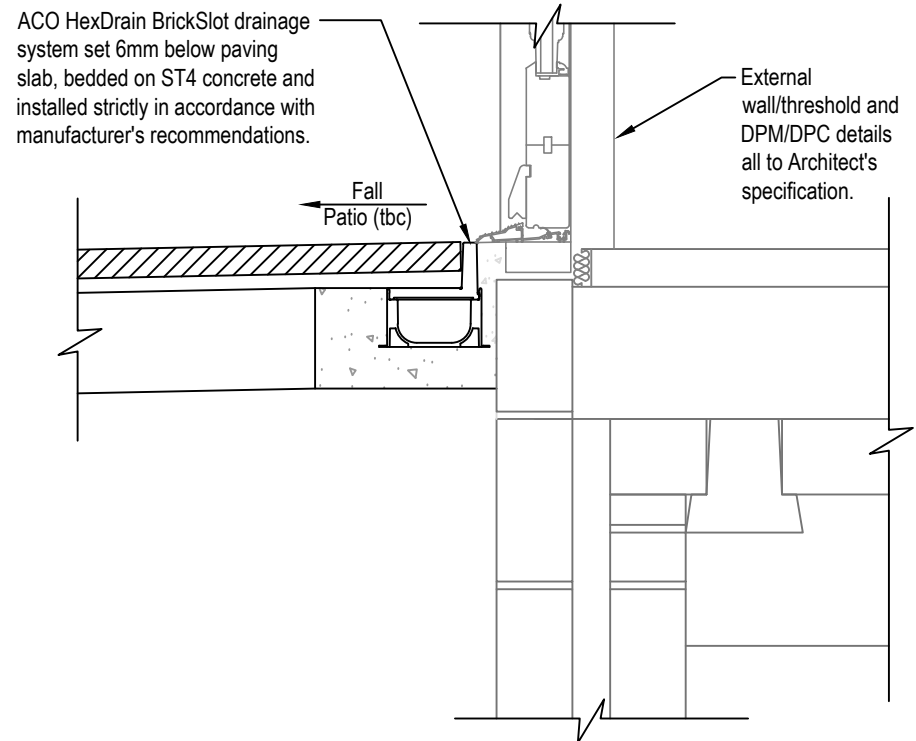
(Scale 1:25)



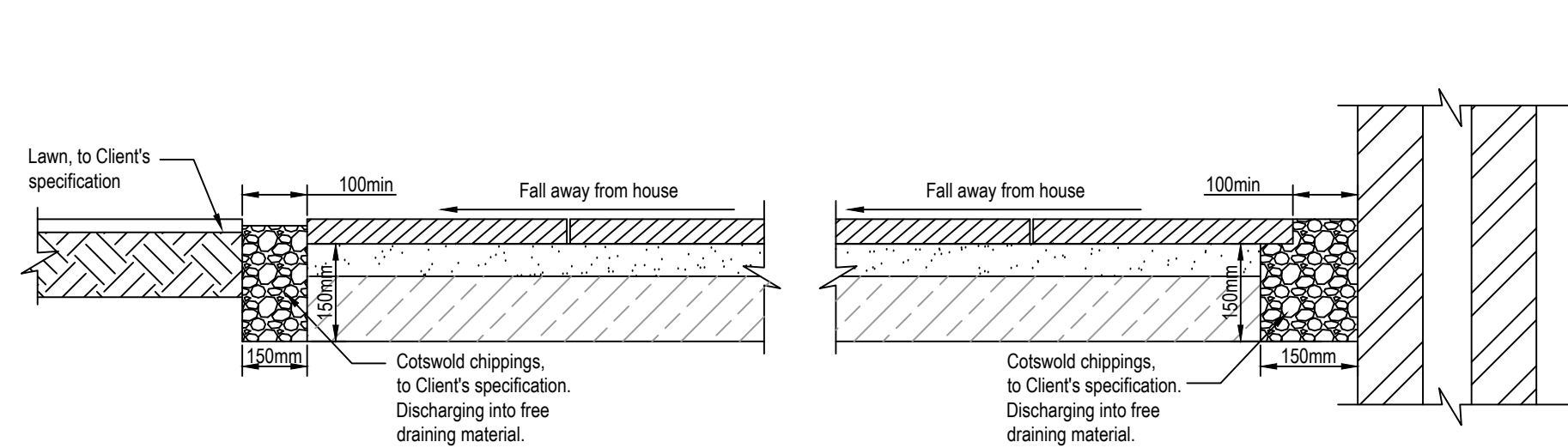
Typical Position of underground pipes & cables in 2m footpath  
(As per NJUG7 - Scale NTS)  
(Dimensions in mm)



Tie-In Detail to existing carriageway  
(Scale 1:10)

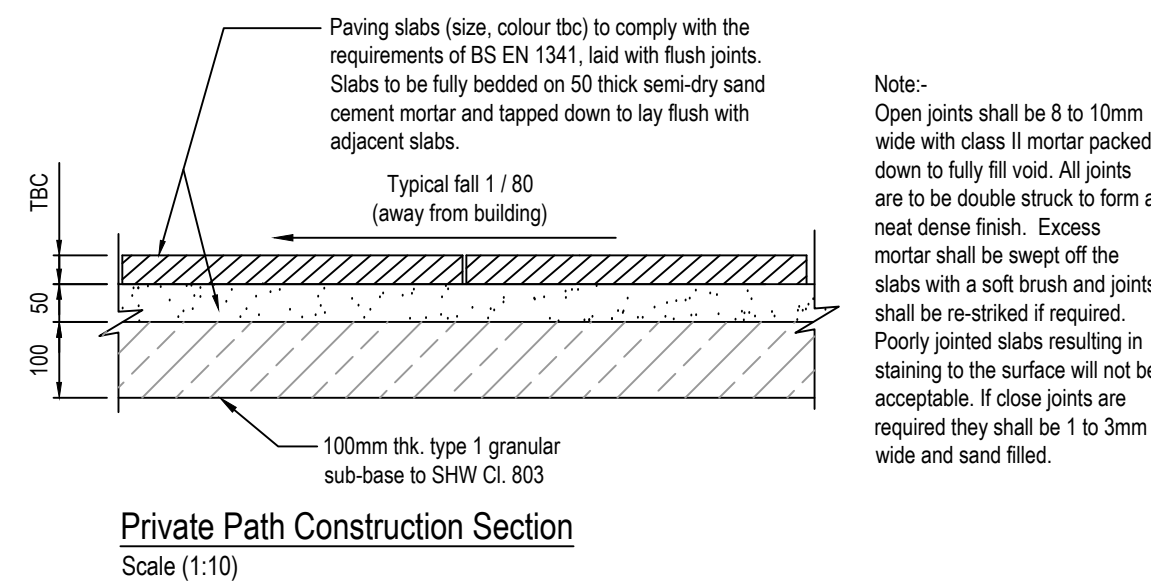


Slot Drain Detail Adjacent to Level Threshold Doors  
Scale (1:10)  
Refer to BEAL Drainage Layout drawing for positions of slot drains.

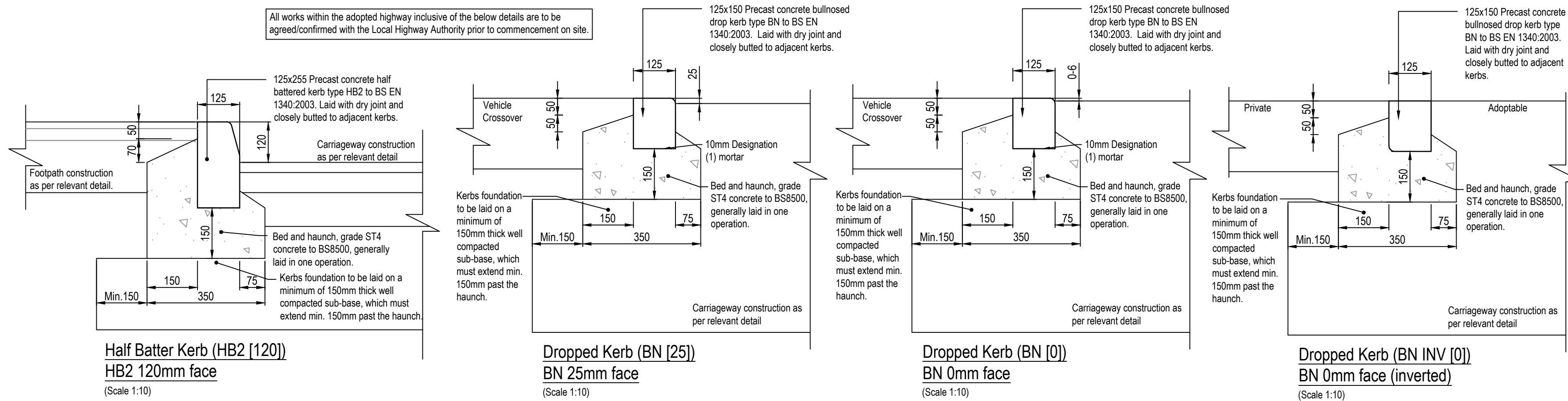


Paving Detail adjacent to garden  
Scale (1:10)

Paving Detail adjacent to external wall of houses  
Scale (1:10)



Private Path Construction Section  
Scale (1:10)



**Kerb Notes**

1) All dimensions are in millimetres.

2) Transition kerbs to be used at all changes in kerb face.

3) Where kerb bed is laid in advance of kerbs 200 x 20 dia mild steel dowel bars will be required in backing at 450 centres and kerbs will be bedded on 10 min mortar designation (i) SHW Series 2400.

4) Dowel bars may be required in backing to standard kerbs where they are deemed vulnerable, to be agreed with the Local Highway Authority.

5) For radii of 12m or less kerbs & channels of the appropriate radius shall be used, between 12m & 18m straight kerbs 600 long shall be used and no kerb or channel shall be less than 450. Edgings shall be no less than 300. The cutting of kerbs shall be by approved mechanical means.

6) Minimum number of bullnosed kerbs at crossing points shall be: Pedestrian (2 No.) & Vehicular (4No.).

7) Edging kerbs shall be provided on all free edges of paved areas not confined by a kerb or boundary wall.

## PRELIMINARY

Rev:	Date:	Description:
Client:		
<b>W E Black Ltd.</b>		
Project:		
Land at Blackmore Way, Uxbridge		
Drawing Title:		
External Construction Details		
 <div>Haddenham Business Centre, Chiltern House, Thame Road, Haddenham, Bucks, HP17 8BY. 01844 396233 www.beal-uk.com</div>		
Designed: <b>SH</b>	Drawn: <b>SRC</b>	Checked: ----
Scale: <b>As shown @A1</b>	Date: <b>Aug 2024</b>	Approved: ----
Drawing Number: <b>619:003</b>	Revision:	-

