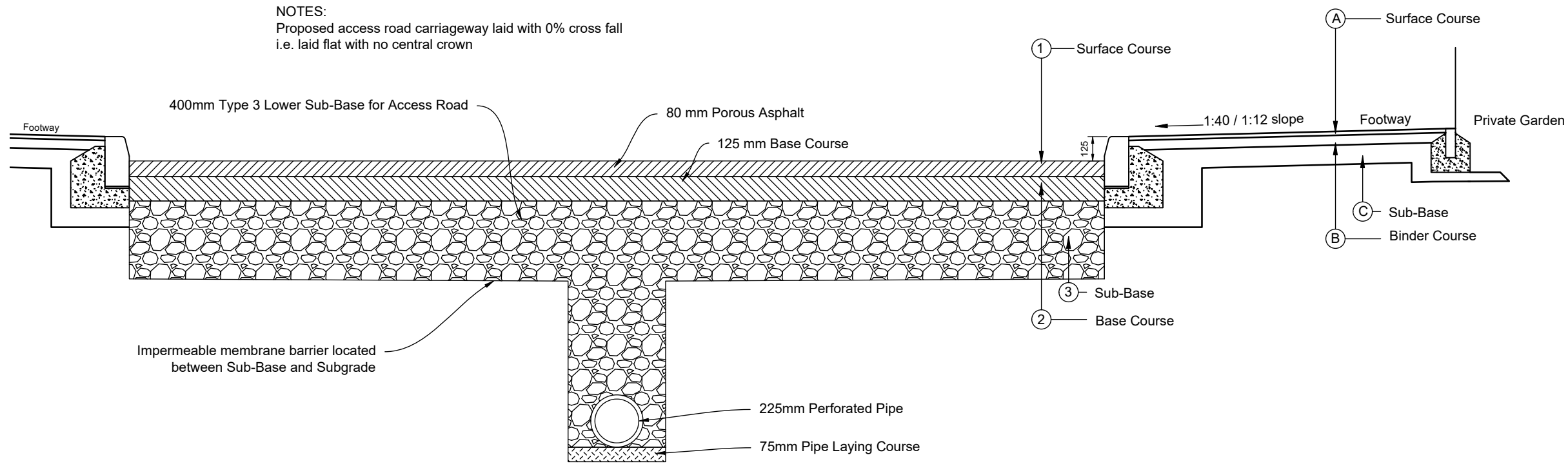


CARRIAGEWAY AND FOOTWAY CONSTRUCTION DETAILS

NOTES:
Proposed access road carriageway laid with 0% cross fall
i.e. laid flat with no central crown



General Notes

- ALL DIMENSIONS ARE INDICATIVE AND IN METRES UNLESS NOTED OTHERWISE.
- DO NOT SCALE THIS DRAWING, USE FIGURED DIMENSIONS ONLY.
- ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (AOD) BASED ON THE TOPOGRAPHICAL SURVEY DRAWING SUPPLIED BY THE CLIENT.
- ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- THE SPECIFICATION IN ALL ASPECTS SHALL BE IN ACCORDANCE WITH THE CURRENT RESIDENTIAL DESIGN GUIDE AND SPECIFICATION IN FORCE WITHIN THE COUNTY AT THE TIME OF CONSTRUCTION.
- COPYRIGHT OF THIS DRAWING IS RETAINED BY THE ENGINEER AND IT MUST NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN CONSENT.
- FOR ADAPTABLE HIGHWAYS, CBR VALUES TO BE CONFIRMED BY INSITU TESTS UNDERTAKEN IN ACCORDANCE WITH LOCAL HIGHWAY AUTHORITY SPECIFICATIONS.
- WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS (SHW), LATEST EDITION AND THE CURRENT BRITISH STANDARDS.
- SHW CLAUSE NUMBERS SHALL APPLY IN THE EVENT OF CONFLICTING INFORMATION.
- THESE DETAILS INCLUDE THE USE OF HEAVY KERBPAVING PRODUCTS WHICH THE CONTRACTOR IS EXPECTED TO HANDLE USING APPROPRIATE MECHANICAL HANDLING AIDS IN ACCORDANCE WITH HSE GUIDANCE.

ACCESS ROAD CONSTRUCTION - POROUS ASPHALT over subgrade with 5% CBR or greater (Traffic category (BS 7533) 6 as defined in The SuDS Manual CIRIA C753 Table 20.5)			
Key	Description	Thickness (mm)	
①	Surface Course	80	Porous Asphalt
②	Base Course (HBCGA)	125	(Hydraulically Bound Coarse-Graded Aggregate (conforming to BS EN 14227-1:2013), minimum cement content 3%, strength class C5/6 as defined in BS EN 14227-1 and minimum permeability 10,000 mm/hr when tested in accordance with ASTM C1701M-09 or other suitable test).
③	Sub-Base (CGA)	400 for access road	Type 3 Unbound Coarse-Graded Aggregate (CGA) Impermeable membrane liner to underside of Sub-Base. Sub-Base to be laid with 1:200 fall towards pipe.

- Minimum Capping Layer thickness based on Subgrade CBR VALUES (if required).
For pavements with lower CBR values that are trafficked by vehicles, the following should be provided:
- 1% CBR subgrade improvements required (see The SuDS Manual CIRIA C753 Section 20.9.3)
 - 2% CBR subgrade improvement layer required (may be incorporated into capping layer to provide a total thickness of 350 mm)
 - 2.5% CBR 300 mm capping
 - 3% CBR 225 mm capping
 - 4% CBR 150 mm capping

VERGE SPECIFICATION

Topsoil Class 5A or 5B to Clause 618. Ground preparation in accordance with Clause 3004 su-clause 8-11. Seeding/turfing to Clause 3005. Seed mix for seeding or turfing to be approved by the LHA Engineer.

FOOTWAY CONSTRUCTION						
Key	Description	Clause	Material	Grade of Binder	Thickness (mm)	Special Requirements
A	Surface Course	912	AC 6 Close graded asphalt concrete	100/150 pen	30	BS EN 13108-1:2006. AC dense surf 100/150 6mm nominal aggregate. Aggregates to exclude gravel. Minimum PSV-50
B	Binder Course	906	AC 14 Dense binder course asphalt concrete	100/150 pen	50	BS EN 13108-1:2006. AC dense surf 100/150 20mm nominal aggregate.
C	Sub-Base	803	Type 1 Unbound granular sub-base material	N/A	100	BS EN 13285 (clause 803).

NON PERMEABLE RESIDENTIAL ACCESS ROAD CONSTRUCTION AT BELLMOUTH

Key	Description	Clause	Material	Grade of Binder	Thickness (mm)	Special Requirements
①	Surface Course	ETT	Close Graded Asphalt Concrete Surface Course	40/60 pen	40	AC 10 Close surf 40/60 to BS 13108-1 (PD 6691 Annex B). Minimum PSV: 55. Maximum AAV: 14. Aggregate: Crushed Rock or Slag.
②	Binder Course	906	Dense Binder Course Asphalt Concrete (Recipe mixtures)	40/60 pen	50	AC 20 Dense bin 46/60 to BS 13108-1 (PD 6691 Annex B). Where blue pennant gritstone is used the binder content should be: 5.2 ± 0.5%
③	Base Course	903	Dense Base Asphalt Concrete (Recipe mixtures)	100/150 pen	70	AC 32 Dense base 100/150 to BS 13108-1 (PD 6691 Annex B). Where blue pennant gritstone is used the binder content shall be: 4.7 ± 0.5%.
④	Sub-Base	803	Type 1 Unbound granular sub-base material	N/A	200	BS EN 13285 (clause 803).

- Minimum Capping Layer thickness based on Subgrade CBR VALUES (if required).
For pavements with lower CBR values that are trafficked by vehicles, the following should be provided:
- 0.0-2.4% CBR 600 mm capping
 - 2.5-3.0% CBR 450 mm capping or 350 mm Type 1 Sub-Base
 - 3.1-5.0% CBR 350 mm capping or 300 mm Type 1 Sub-Base
 - 5.1-15.0% CBR 250 mm capping or 225 mm Type 1 Sub-Base
 - >15.0% CBR 0 mm capping or 150 mm Type 1 Sub-Base

A	For S38/278 Submission	01.03.2023
No.	Revision/Issue	Date

Firm Name and Address

LvW Highways Ltd
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Project Name and Address

Land at Gwelfor,
Heol Llanelli, Trimsaran,
Carmarthenshire.
Proposed Highway &
Footway Construction

Project	2022-730	Sheet	
Date	02.03.2023		601
Scale	1:250@A3L		