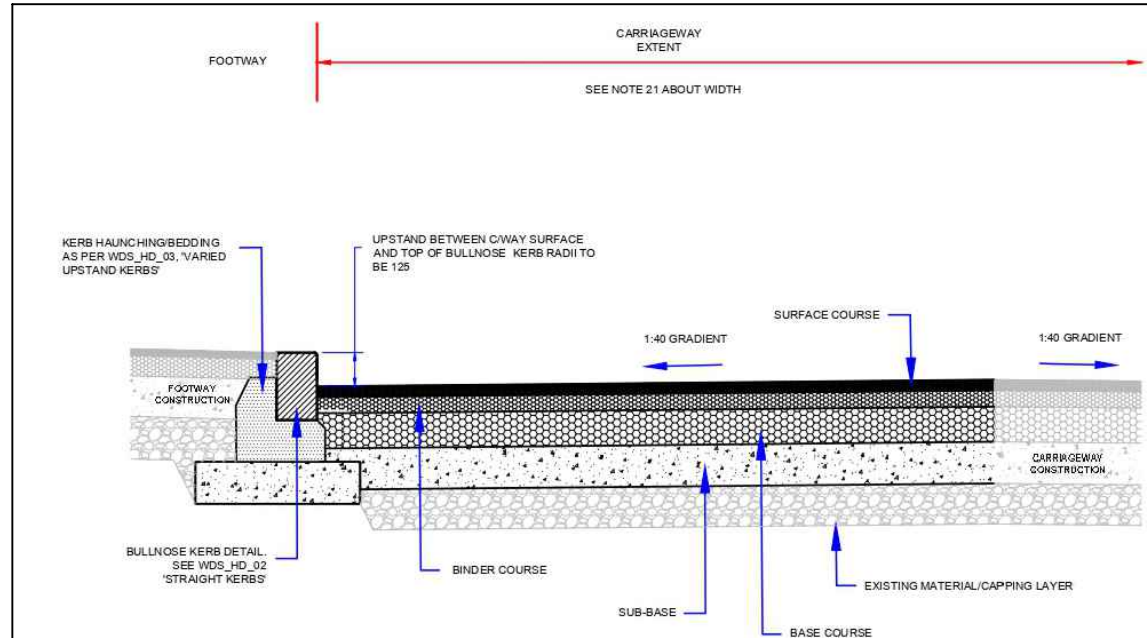
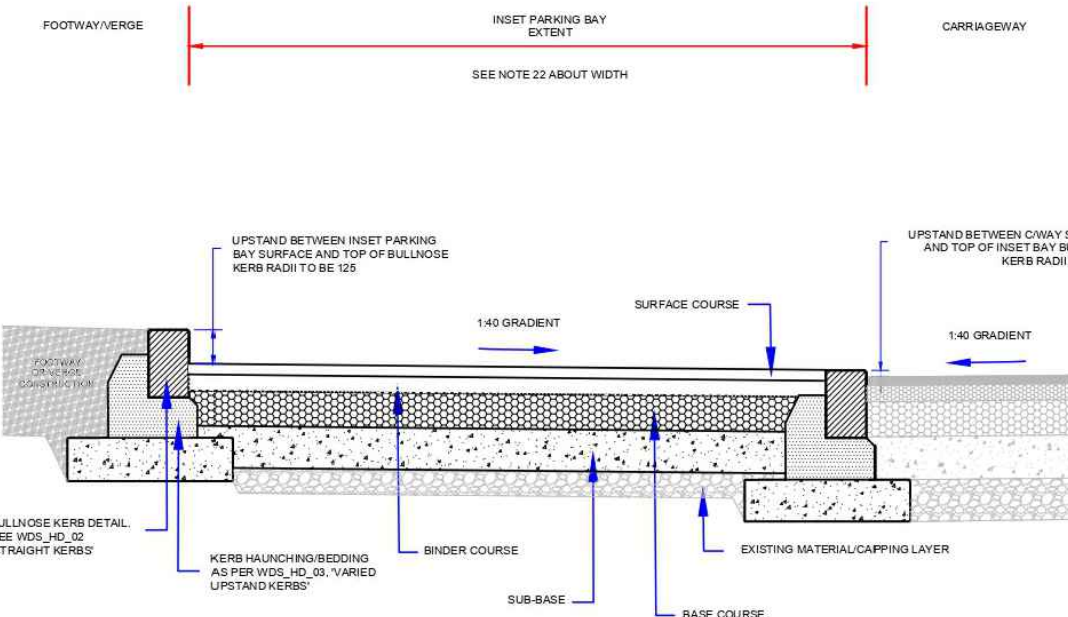




TARMACADAM CARRIAGEWAY
SEE TABLE FOR CONSTRUCTION DETAILS



TARMACADAM CARRIAGEWAY (INSET PARKING BAYS)
SEE TABLE FOR CONSTRUCTION DETAILS

TARMACADAM CARRIAGEWAY

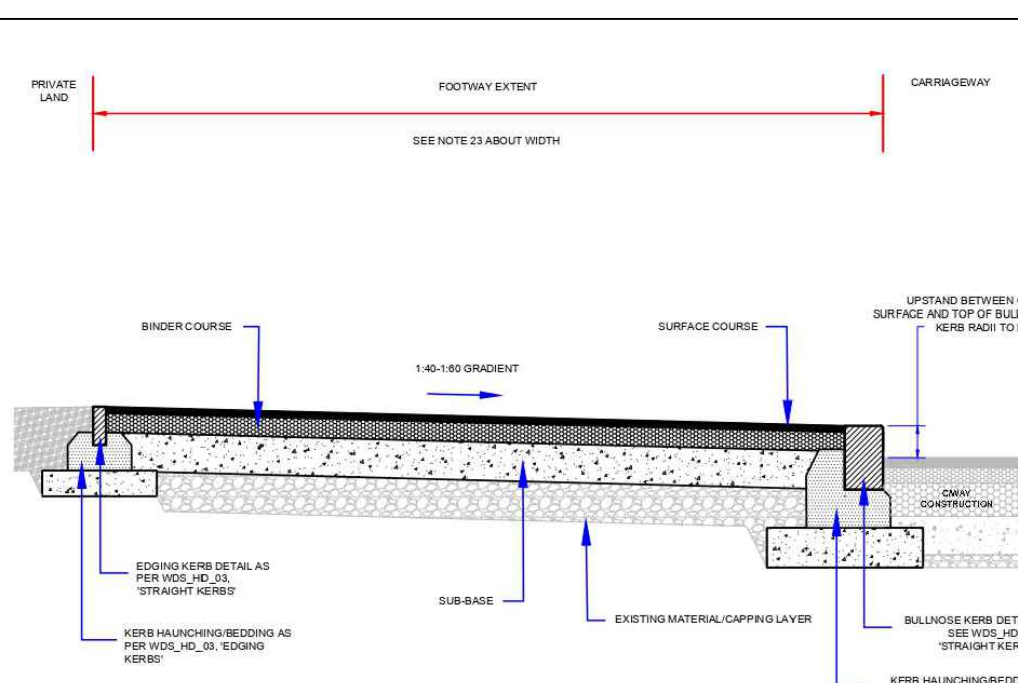
COURSE	SPECIFICATION	THICKNESS
SURFACE	HOT ROLLED ASPHALT, 30/14F + PCC 14/20, PEN 40/60, MIN PSV 63, MAX AAV 14.	40
	CLOSE GRADED AC10, PEN 100/150, MIN PSV 60, MAX AAV 14	40
BINDER	CLOSE GRADED AC20, PEN 40/60.	60
BASE	CLOSE GRADED AC32, PEN 40/60.	130
SUB-BASE	D/T TYPE 1	SEE TABLE NOTE 3
CAPPING	CLASS 6F1 OR 6F2 GRANULAR CAPPING MATERIAL	SEE TABLE NOTE 4

TABLE NOTES

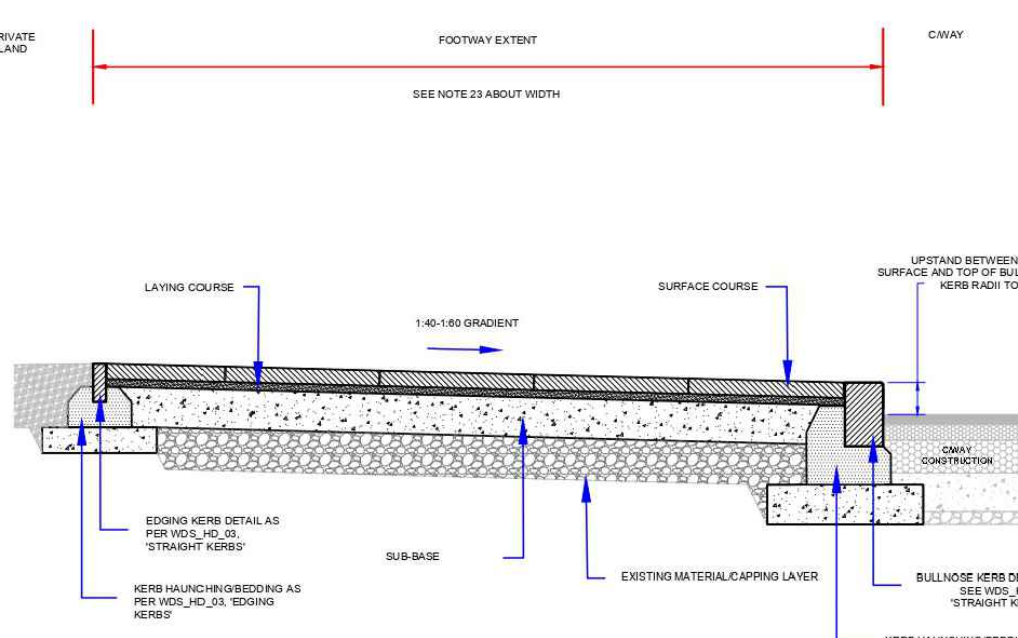
- SEE NOTE 9 FOR DETAILS ON BOND COATS BETWEEN LAYERS;
- SUB-BASE REQUIREMENTS TO BE DETERMINED BY CBR TEST;
- CARRIAGEWAY CAPPING REQUIREMENTS TO BE DETERMINED BY CBR TEST;
- CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

Surface Options	Bituminous	Pavers	Flags	Concrete
Layer				
Surfacing ⁽¹⁾	20mm surface course ⁽¹⁾ 40mm binder course ⁽¹⁾	150mm clay pavers 150mm concrete blocks 30mm laying course sand (compacted) or mortar	300mm x 300mm x 60mm or 400mm x 400mm x 60mm or 450mm x 450mm x 70mm 25mm laying course sand (compacted) or mortar	150mm unreinforced, Grade C30P
Sub-base ⁽²⁾	150mm	250mm 250mm 300mm 150mm	250mm 250mm 300mm 150mm	75mm
Subgrade ⁽³⁾	-	CBR $\geq 2\%$ CBR $\leq 5\%$	CBR $\geq 2\%$ CBR $\leq 5\%$	-

CBR FOR FOOTWAYS & CYCLEWAYS
SUBJECT TO VEHICULAR LOADING



TARMACADAM FOOTWAY/CYCLEWAY
SEE TABLE FOR CONSTRUCTION DETAILS



MODULAR PAVING FOOTWAY
SEE TABLE FOR CONSTRUCTION DETAILS

TARMACADAM (FLEXIBLE) FOOTWAY/CYCLEWAY

COURSE	SPECIFICATION	THICKNESS
SURFACE	CLOSE GRADED AC6, PEN 100/150.	25
BINDER	CLOSE GRADED AC20, PEN 40/60.	75
SUB-BASE	D/T TYPE 1	SEE TABLE NOTE 2

TABLE NOTES

- SEE NOTE 9 FOR DETAILS ON BOND COATS BETWEEN LAYERS;
- SUB-BASE REQUIREMENTS TO BE DETERMINED BY CBR TEST;
- CARRIAGEWAY CAPPING REQUIREMENTS TO BE DETERMINED BY CBR TEST;
- CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

MODULAR PAVING (RIGID) FOOTWAY

COURSE	SPECIFICATION	THICKNESS
SURFACE	DEPENDENT ON LOCATION. SEE TABLE NOTES 1.	SEE TABLE NOTE 1
LAYING	COURSE SHARP SAND. SEE TABLE NOTES 2.	30-50
SUB-BASE	D/T TYPE 1	SEE TABLE NOTE 3

TABLE NOTES

- RIGID CONSTRUCTION ONLY APPLICABLE TO TOWN CENTRES AND OTHER PUBLIC REALM LOCATIONS. SEE HIGHWAYS DESIGN GUIDE TABLE A2 PAGE 52 FOOTWAY AND PAVED AREA FOR APPROVED MATERIALS.
- TO BE TREATED WITH APPROVED ACTIVE PRE AND POST EMERGENCE RESIDUAL WEED KILLER.
- SUB-BASE REQUIREMENTS TO BE DETERMINED BY CBR TEST;
- CARRIAGEWAY CAPPING REQUIREMENTS TO BE DETERMINED BY CBR TEST;
- CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

VEHICULAR CROSSOVERS

COURSE	SPECIFICATION	THICKNESS
SURFACE	CLOSE GRADED AC6, PEN 100/150.	25
BINDER	CLOSE GRADED AC20, PEN 40/60.	75
SUB-BASE	D/T TYPE 1.	SEE TABLE NOTE 2

TABLE NOTES

- SEE NOTE 9 FOR DETAILS ON BOND COATS BETWEEN LAYERS;
- SUB-BASE REQUIREMENTS TO BE DETERMINED BY CBR TEST;
- CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

NOTES

GENERAL NOTES:

- Do not scale from this drawing. Use only written dimensions.
- All dimensions are in millimetres unless stated otherwise.
- This drawing is to be read in conjunction with and checked against all other WBC Standard Detail drawings, Highways Design Guide, British Standards and all other relevant guidance's. In the event of any conflict with said guidance's, the standards shall prevail.
- Appointed WBC Highway Engineer to be present during inspections/CBR testing.
- All kerbs to BS EN 1340:2003.
- All concrete within ground to be AC-4 with design subgrade class of DS-4.

CONSTRUCTION NOTES:

- See Highways Design Guide Table A1 for details on carriageway dimensions according to street hierarchy.
- Edging kerbs shall be provided on all free edges of paved areas not confined by a kerb or boundary wall.
- Footway and highway verges shall fall at 1:40-1:60 towards the carriageway unless otherwise approved by appointed WBC Engineer.
- Vertical alignment of back edging shall be maintained at crossing points and the crossing graded from edging to carriageway level.
- All soft spots and organic material must be removed before construction.
- An approved residual weedkiller which does not contain atrazine or simazine must be applied to all formations.
- Verge areas shall have a 150 covering of topsoil spread 25 above top of kerb or edging to allow for settlement and shall be seeded in accordance with the specification.
- Existing verges adjacent to new kerbing must be regraded and seeded.
- If bituminous layers are not laid immediately after one another, a Bond Coat shall be applied.
- Tact coat to be applied to kerb-faces and ironworks prior to bituminous surface course being laid.
- The aggregate in surface course materials shall have a minimum polished stone value of 60 and a maximum aggregate abrasion value of 14.
- Gravel aggregate will not be permitted in asphaltic concrete.
- Limestone aggregate will not be permitted in surface course material or binder course material which is to be trafficked.
- Type 1 material with crushed gravel aggregate shall not be used in the top 150mm below base course level unless permitted by WBC.
- Use of recycled/reclaimed aggregate material is not permitted unless approved by appointed WBC Engineer.
- Levels of ironworks and apparatus to be adjusted accordingly prior to the laying of bound construction layers. If bituminous layers are placed prior to raising, 300 trimback is required; cut to be made with diamond saw. If cracking or failure occurs, the cut position is to be extended at least 50 beyond that point.
- For the purpose of reinstatement/repairs or tie-ins, material used will typically be that of existing. Departure subject to discretion of approving/supervising WBC engineer.
- If it is not possible grade private land behind the public highway to drain surface water away from the Highway, the owner must install a linear channel drain within the extents of their land at the Highway boundary and connected to a suitable outfall.
- Any existing Highway Authority or Statutory Undertaker service covers within the area of the plateau or ramp shall be re-levelled, strengthened and replaced with appropriate load bearing cover. Existing Highway Authority or Statutory Undertaker services within the same areas shall be lowered where necessary.
- The Highway Authority reserves the right to require Applicants to relocate any Highway Authority or Statutory Undertaker service covers and chambers (including gullies) within the carriageway should these be located immediately in front of ramps.
- See WBC Highways Design Guide Table A1 'Dimensions of Main Carriageway' for carriageway widths according to street hierarchy.
- See WBC Highways Design Guide Table A1 'Parking' for parking bay (including inset bay) widths according to street hierarchy.
- See WBC Highways Design guide Table A1 'Footway, Cycleway, Verge & Margins' for footway widths according to street hierarchy.
- Ramp to extend the full width of the footway with a max gradient of 8%.
- Plateau width to be $\geq 45\%$ of the total Footway width providing maximum ramp gradient of 8% is not exceeded.
- If it is not possible grade private drives to drain surface water away from the Highway, the owner must install a linear channel drain within the extents of their land at the Highway boundary and connected to a suitable outfall.
- Overbanding is not to be used on the public Highway unless it features anti-slip properties and is a proprietary product with HAPAS approval including conforming to British Standards for anti-slip BS EN 1423:2012.

NOTES:

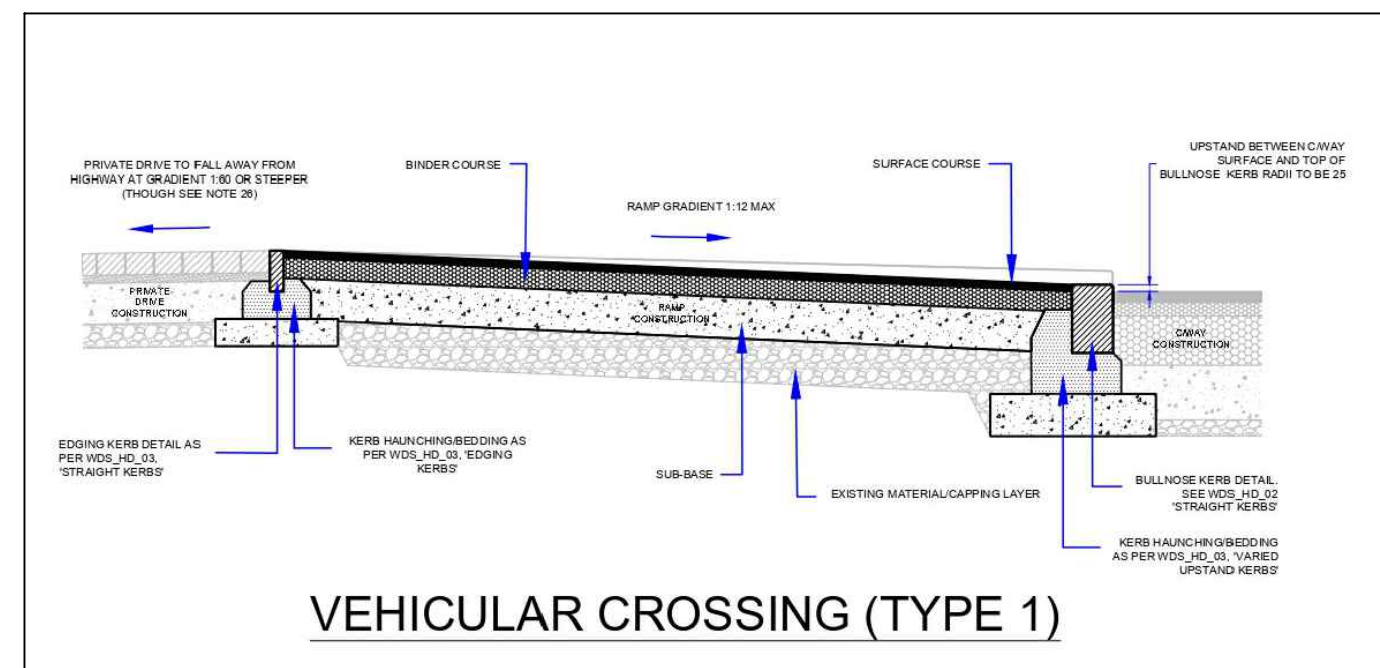
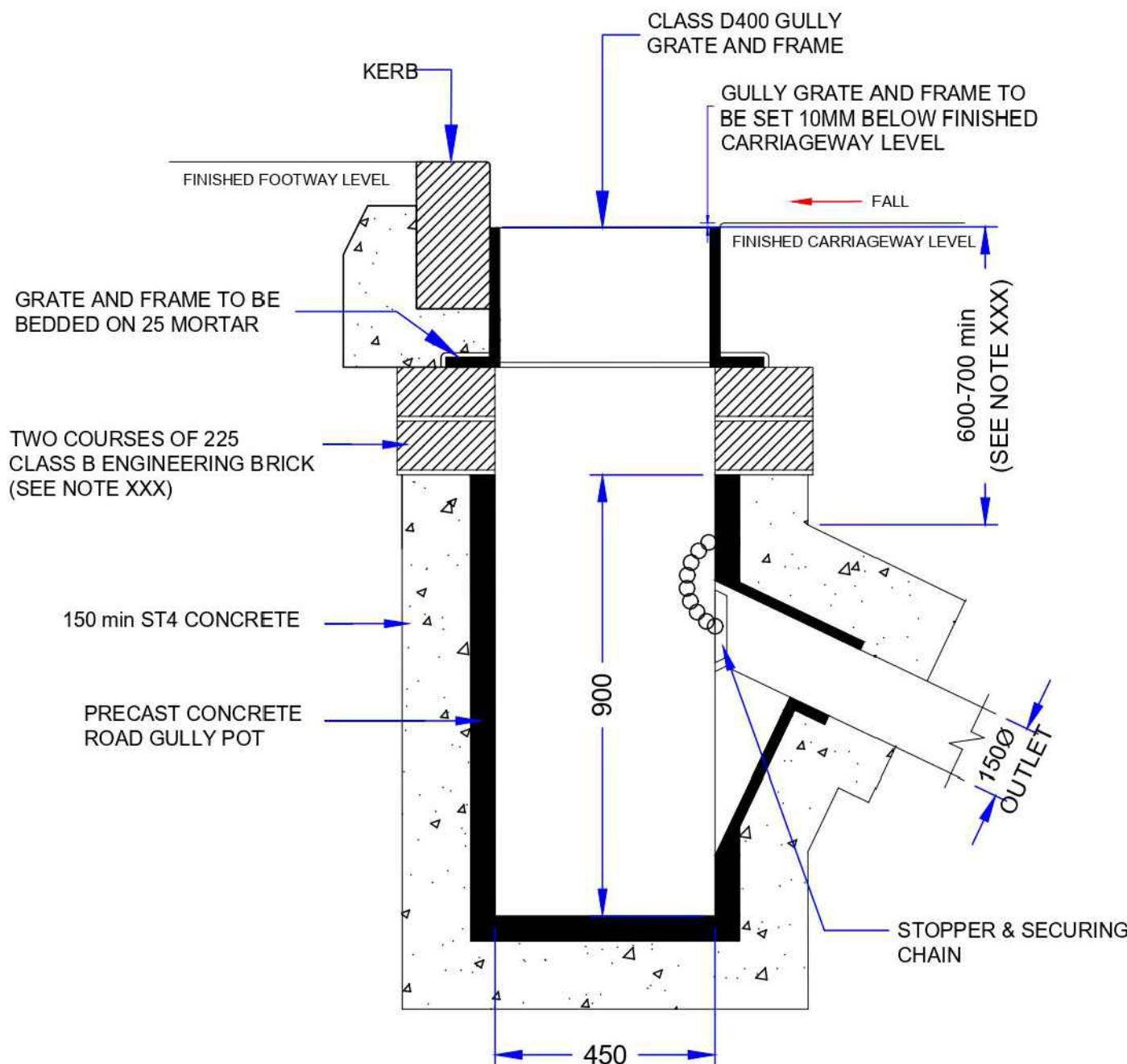
- DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS STATED OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SCHEME DRAWINGS AND SPECIFICATIONS.
- PRIVATE DRAINS AND PAVED AREAS SHALL BE APPROVED BY BUILDING CONTROL.
- ALL HIGHWAY WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST SPECIFICATION FOR HIGHWAY WORKS AND TO THE REQUIREMENTS OF THE LOCAL AUTHORITY

CARRIAGEWAY SUB-BASE ON CAPPING

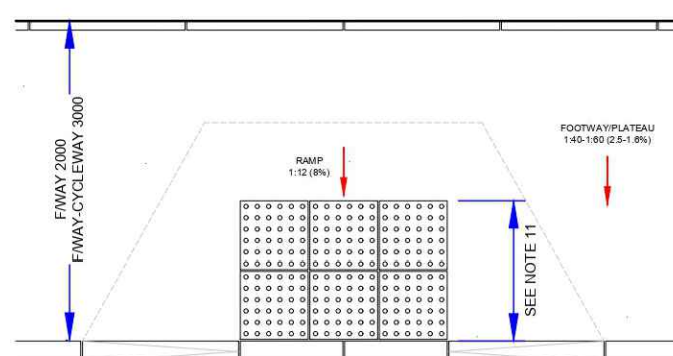
CBR (%)	Subbase on Capping (mm)		Subbase Only (mm)
	Subbase	Capping	
≤ 2.5	Ground Stabilisation	Ground Stabilisation	Ground Stabilisation
2.6 - 2.9	350	250	450
3.0 - 3.9	320	240	400
4.0 - 4.9	270	220	360
5.0 - 5.9	240	210	320
6.0 - 7.9	210	200	300
8.0 - 9.9	200	180	270
10 - 11.9	180	180	250
12.0 - 14.9	170	160	230
15.0+	150	150	200

(figures used in the table above have been extracted from figures 3.1 and 3.2 of IAN 73:06 Rev 1)

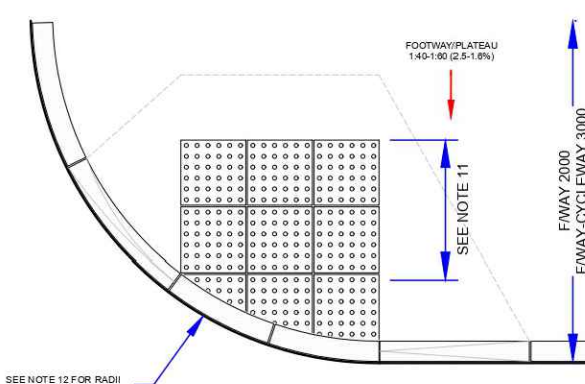
PRECAST TRAPPED ROAD GULLY DETAIL (CHANNEL INLET)



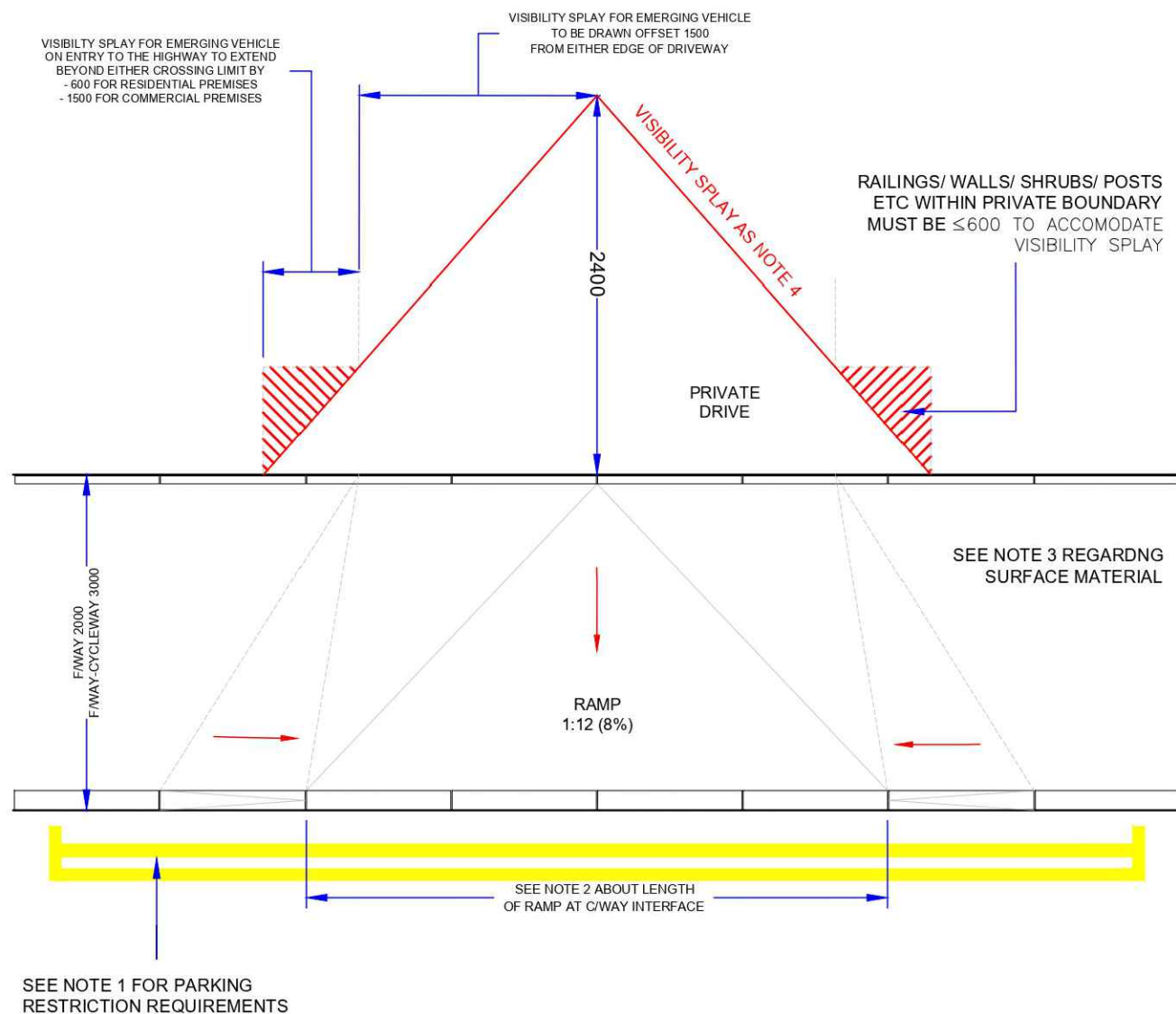
VEHICULAR CROSSING (TYPE 1)



INSET TACTILE PAVING PEDESTRIAN CROSSING POINT AWAY FROM JUNCTIONS



TACTILE PAVING PEDESTRIAN CROSSING AT JUNCTION



VEHICULAR CROSSING TYPE 1

Rev	Description	Rev	Rev	Rev	Rev
001	DRAWING STATUS REVISED	TV	TA	11.11.24	
REVISIONS					
Preliminary Issue	Submitted for S104				
Planning Issue	Issued for Tender				
Submitted for S38	Issued for Construction				
Submitted for S278	As Built				

STUART MICHAEL ASSOCIATES
CONSULTING ENGINEERS

Stuart Michael Associates Ltd
Coombe House, Coombe Square, Thatcham, Berkshire RG19 4JF

T: 01635 867 711
F: 01635 861 715

e: mail@stuartmichael.co.uk
w: www.stuartmichael.co.uk

BARRATT HOMES
DAVID WILSON HOMES
WHERE QUALITY LIVES

FINCHWOOD PARK
PARCEL 9

WORKINGHAM STANDARD DETAILS
SHEET 1 OF 2

DATE	DRAWN	CHECKED	SCALE	NTS	©A1
SEP '2024	TV	TA			
DRAWING NO.	H6866-SMA-XX-XX-DR-CR-300173	C01			6860

© This drawing is the copyright of Stuart Michael Associates Limited. It may not be reproduced or amended without the written approval of Stuart Michael Associates