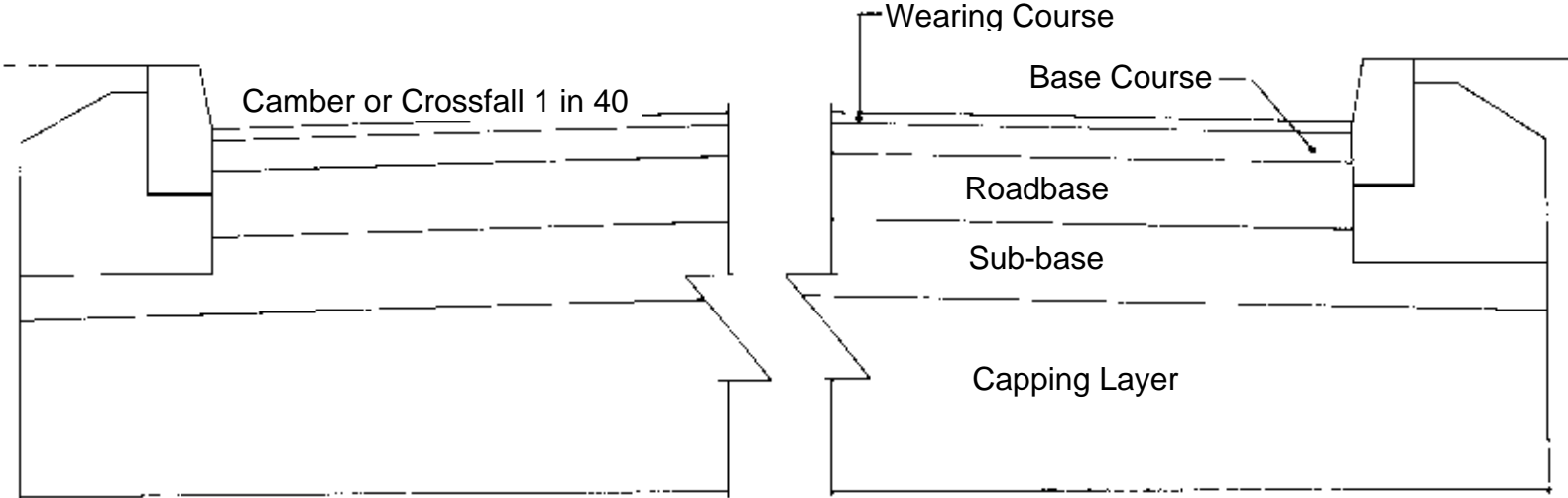


For Construction Specification see Standard Drawing No HE/02

For Kerb Details see Standard Drawing No HE/10




**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Road Construction Details**

**STANDARD DRAWING No.  
HE / 01**

	<b>ROAD TYPE AR1 and INDUSTRIAL ROADS</b>	<b>ROAD TYPES AR2 &amp; AR3</b>	<b>ROAD TYPES AR4, AR5, AR6 &amp; AR7</b>
DENSE BITUMEN MACADAM WEARING COURSE (6mm) BS 4987:Part 1:1993:Cl.7.5 Specification Clause 912	n/a	25mm	25mm
HOT ROLLED ASPHALT WEARING COURSE (14mm) 20mm NS Precoated Chippings for Type 1/2 BS 594:Part1:1992 Specification Clause 910-911	40mm	n/a	n/a
DENSE BITUMEN MACADAM BASECOURSE (20mm) BS 4987:Part1:1995:Cl 6.5 Specification Clause 903	60mm	60mm	50mm
DENSE BITUMEN MACADAM ROADBASE (28mm) BS 4987:Part1:1993:Cl 6.5 Specification Clause 903	150mm (110mm Industrial Cul-de-sac)	140mm	100mm
GRANULAR SUB-BASE MATERIAL Type 1 Specification Clause 803	CBR < 5% 150mm CBR $\geq$ 5% 225mm	CBR < 5% 150mm CBR $\geq$ 5% 225mm	CBR < 2% 550mm 2% 400mm 3% 300mm $\geq$ 4% 275mm (min)
CAPPING LAYER MATERIAL Specification Clause 613	CBR < 2% 600mm 2%-5% 350mm >5% None	CBR < 2% 600mm 2%-5% 350mm >5% None	n/a
	<b>ROAD CONSTRUCTION SPECIFICATION</b>		<b>STANDARD DRAWING No. HE / 02</b>

80mm PRECAST CONCRETE PAVING BLOCKS to BS 6717:Part 1:1993 laid on

50mm optimum thickness of CLEAN SHARP SAND 30mm thick after compaction. Joints filled with sand and vibrated after initial compaction

50mm of 20mm NS DENSE BITUMEN MACADAM to form temporary running surface during site construction. This layer to be retained intact.

TYPE 1 GRANULAR SUB-BASE MATERIAL to Specification Clause 803. Thickness dependant on CBR:

< 2%	550mm
2%	400mm
3%	290mm (min)

**SERVICE STRIP – 2.0m wide.**

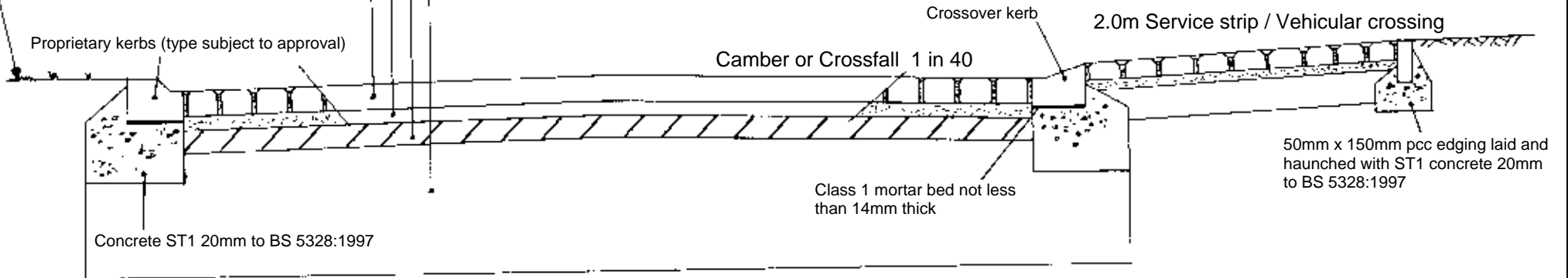
The service strip forms part of the adoptable highway and must not be included for sale as part of adjoining properties.

It shall be laid out as open grass and kept clear of trees, shrubs, walls, fencing, permanent and semi-permanent structures.

60mm PRECAST CONCRETE PAVING BLOCKS to BS 6717:Part 1:1993 laid on 50mm optimum thickness of clean sharp sand, 30mm after compaction

225mm of Type 1 GRANULAR SUB-BASE MATERIAL to Specification Clause 803

Note:  
500mm minimum clearance required to walls or fences where no service strip is to be provided

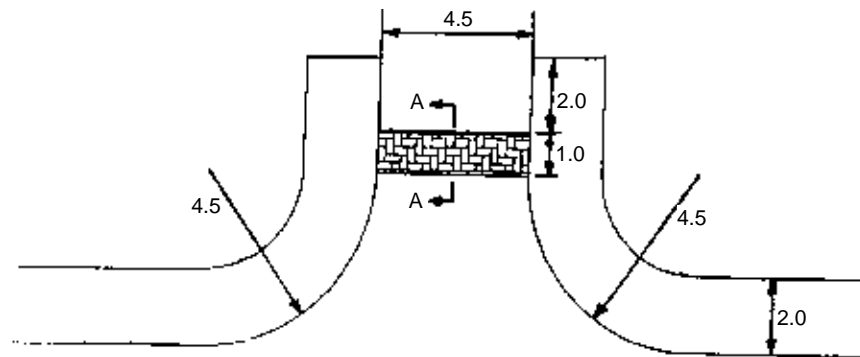


**Wiltshire**  
COUNTY COUNCIL

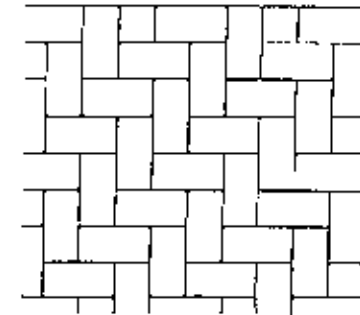
ENVIRONMENTAL SERVICES

**Shared Surface Road  
Access Way**

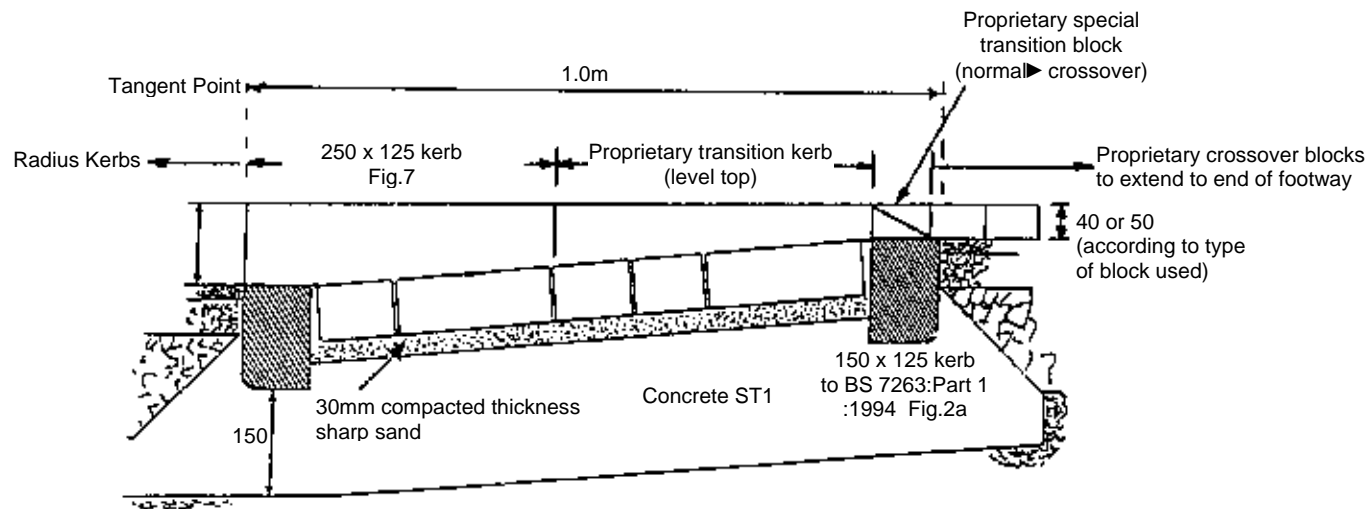
**STANDARD DRAWING No.  
HE / 03**



TYPICAL PLAN



TYPICAL BLOCK LAYOUT  
Herringbone Pattern

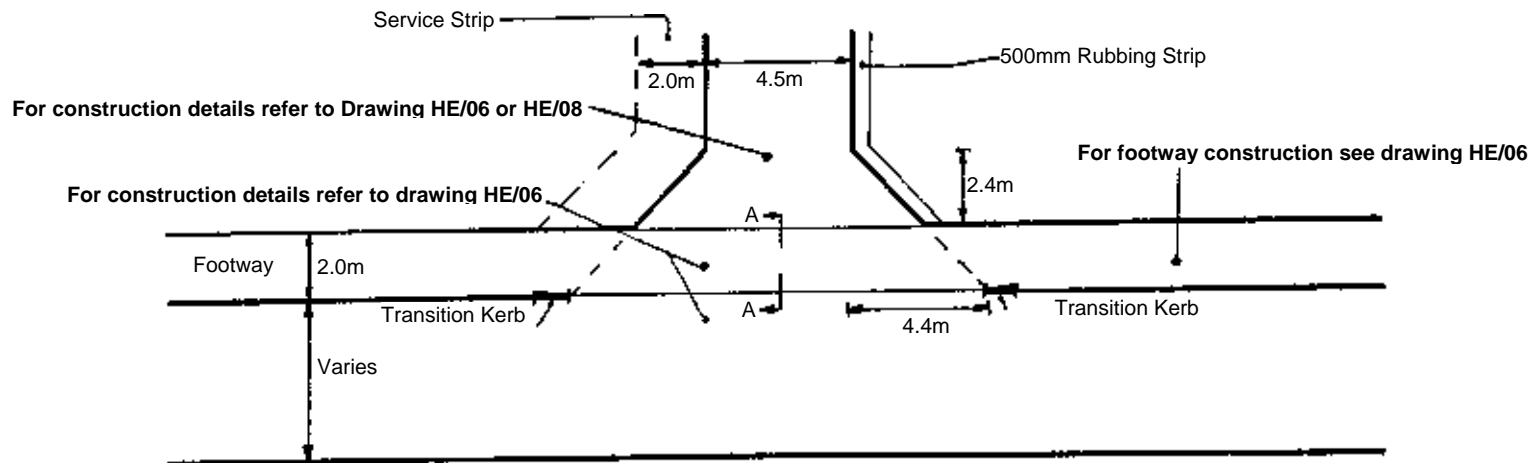


SECTION A - A

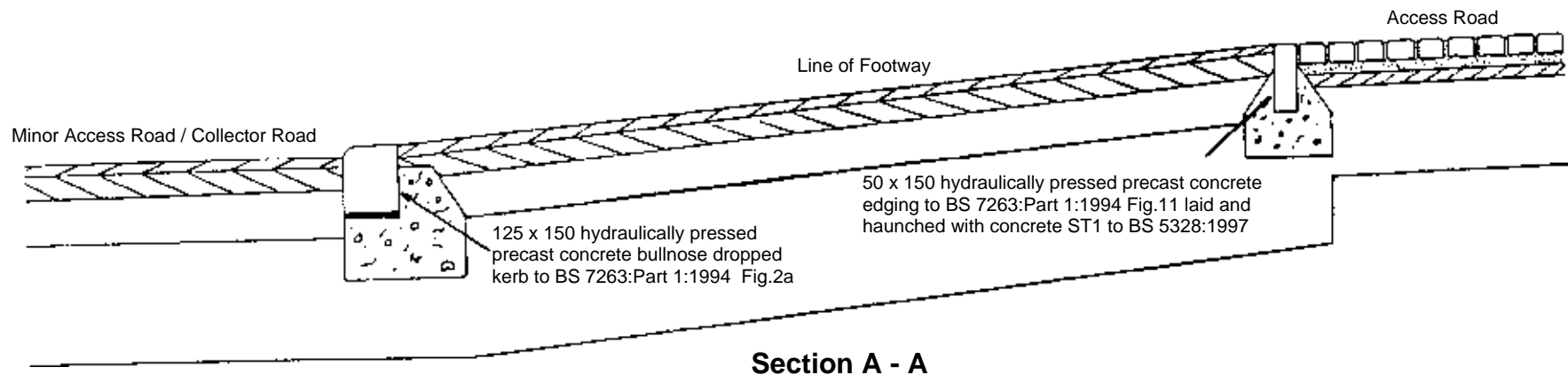
**Wiltshire**  
COUNTY COUNCIL  
ENVIRONMENTAL SERVICES

**Access Way  
Entrance Ramp Details**

**STANDARD DRAWING No.  
HE / 04**



**Typical Plan**



**Section A - A**

**Wiltshire**  
COUNTY COUNCIL

**ENVIRONMENTAL SERVICES**

**Typical Access Way  
Junction Details**

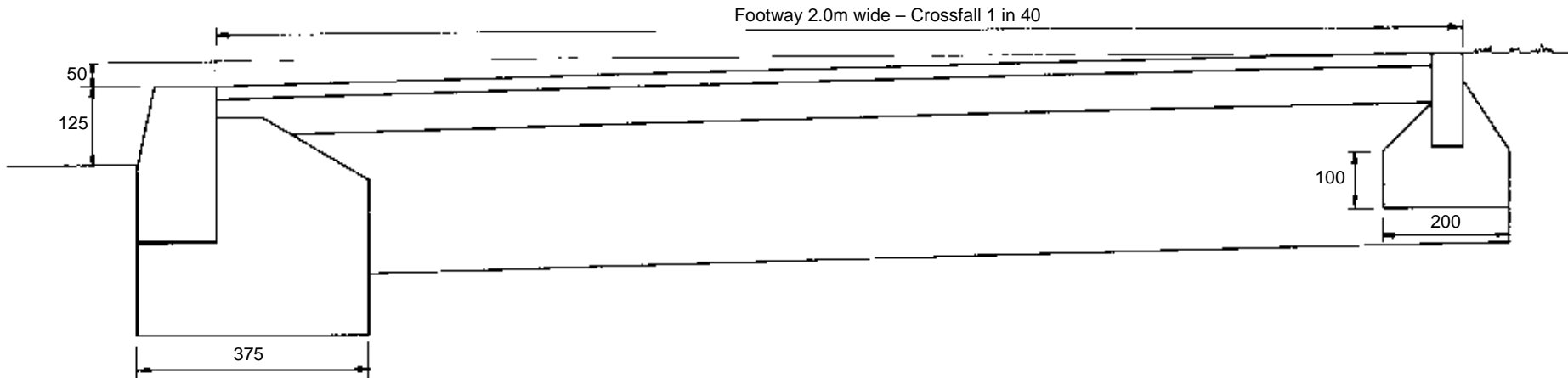
**STANDARD DRAWING No.  
HE / 05**

For Kerb & Edging details see Standard Drawing No HE/10

20mm DENSE BITUMEN MACADAM WEARING COURSE (6mm)  
BS 4987:Part 1:1993 Cl. 7.5  
Specification Clause 912

60mm DENSE BITUMEN MACADAM BASECOURSE (20mm)  
BS 4987:Part1:1993 Cl. 6.5  
Specification Clause 906

225mm TYPE 1 GRANULAR SUB-BASE MATERIAL  
Specification Clause 803



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COUNTY COUNCIL

**ENVIRONMENTAL SERVICES**

**Footway Construction  
Details**

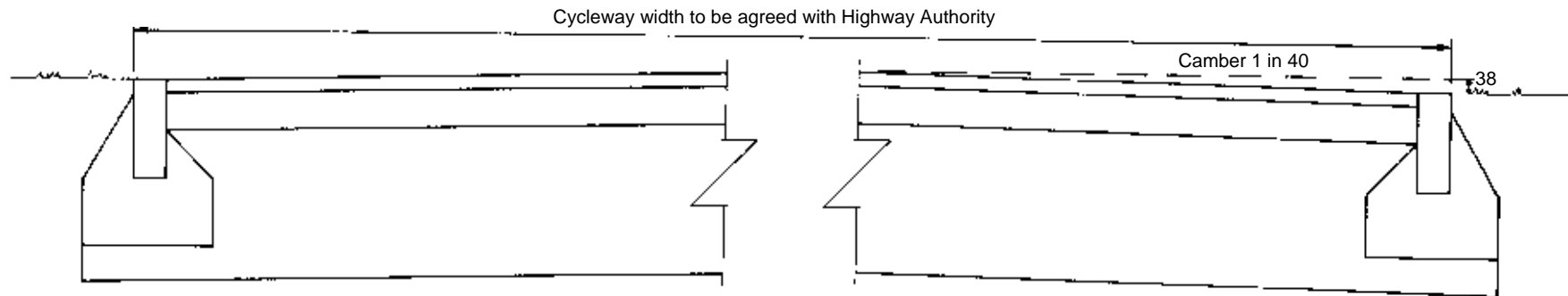
**STANDARD DRAWING No.  
HE / 06**

For Kerb & Edging details see Standard Drawing No HE/10

20mm DENSE BITUMEN MACADAM WEARING COURSE (6mm)  
BS 4987:Part 1:1993 Cl. 7.5  
Specification Clause 912

60mm DENSE BITUMEN MACADAM BASECOURSE (20mm)  
BS 4987:Part 1:1993 Cl. 6.5  
Specification Clause 906

225mm TYPE 1 GRANULAR SUB-BASE MATERIAL  
Specification Clause 803



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COUNTY COUNCIL

**ENVIRONMENTAL SERVICES**

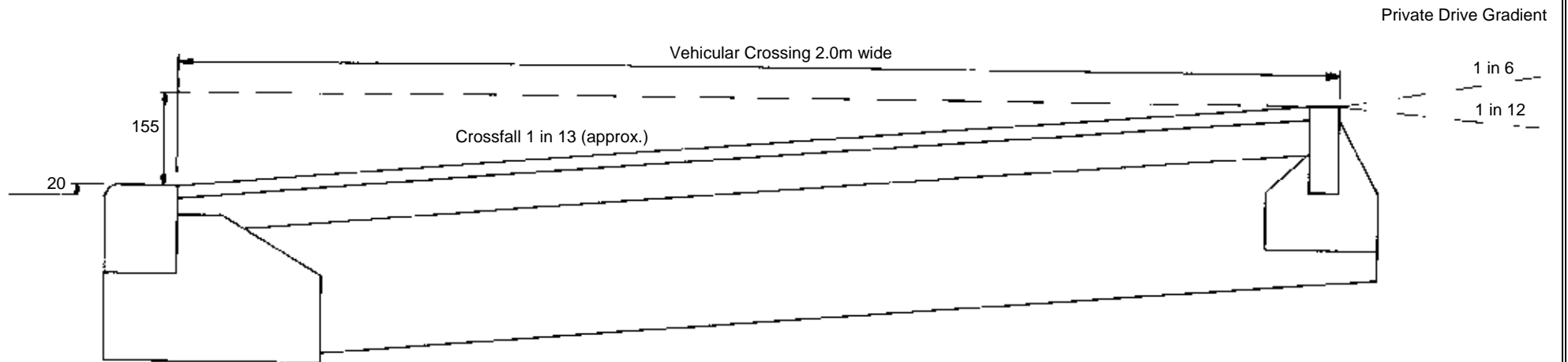
**Cycleway Construction  
Details**

**STANDARD DRAWING No.  
HE / 07**

Construction Specification to be same as standard footway detail.

The footway back edging must not be lowered at vehicular crossings except by permission of the representative of the Director of Environmental Services.

The first 5 metres of private drives shall not be surfaced with loose material and the gradients shown are the maximum acceptable.



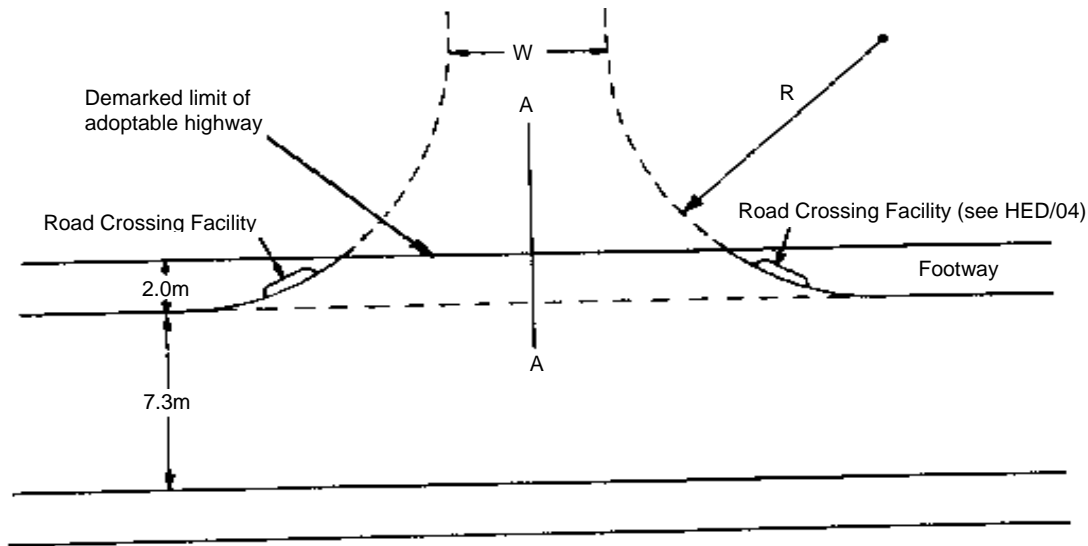
**Wiltshire**  
COUNTY COUNCIL

**ENVIRONMENTAL SERVICES**

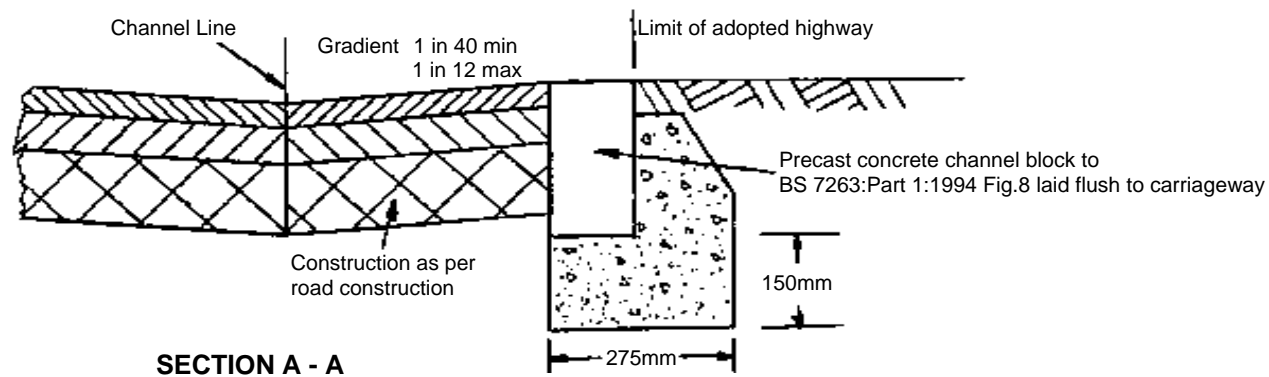
**Vehicular Crossing Details**

**STANDARD DRAWING No.  
HE / 08**





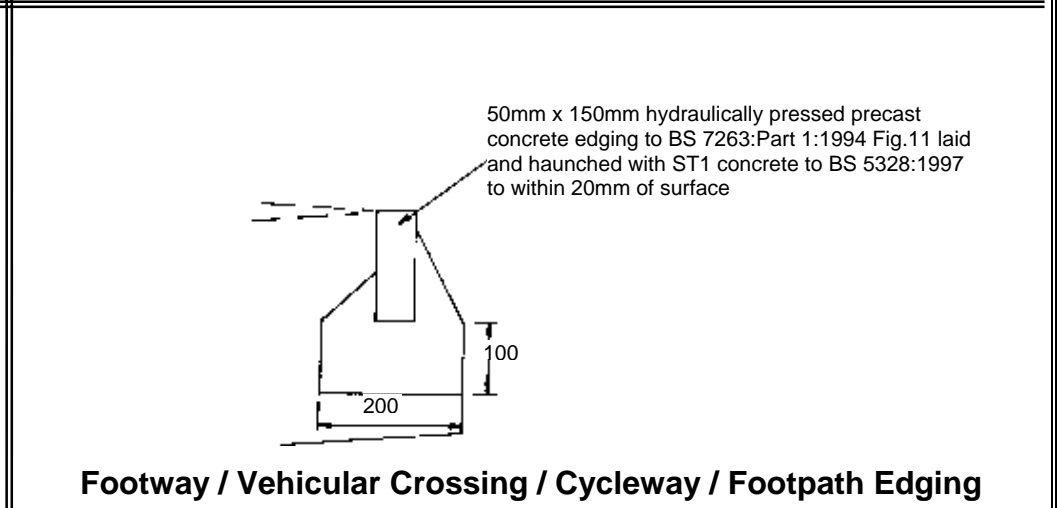
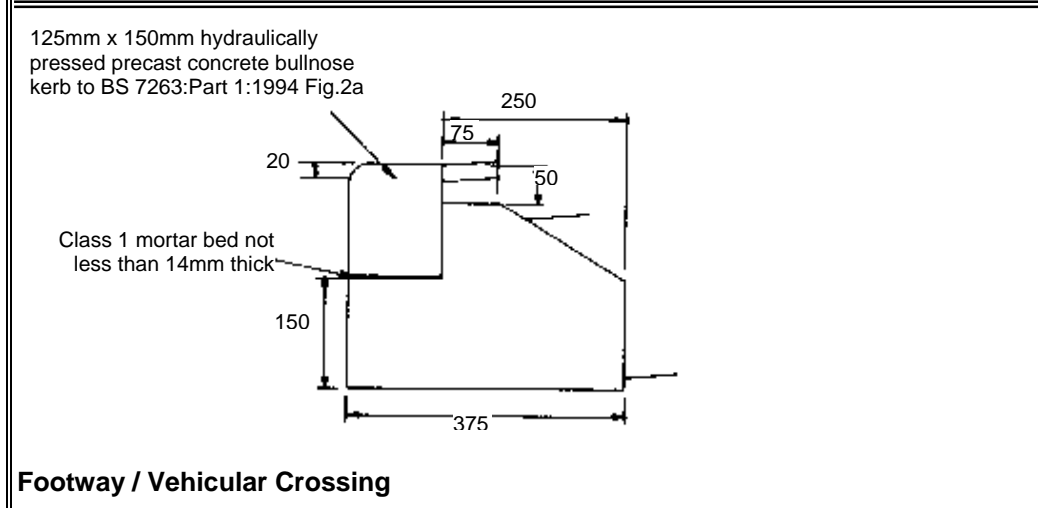
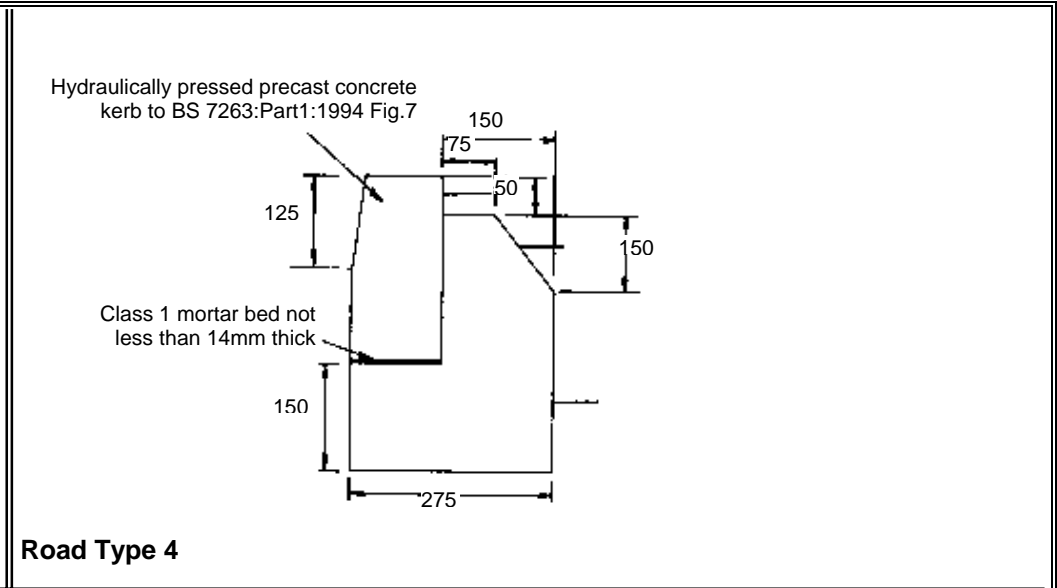
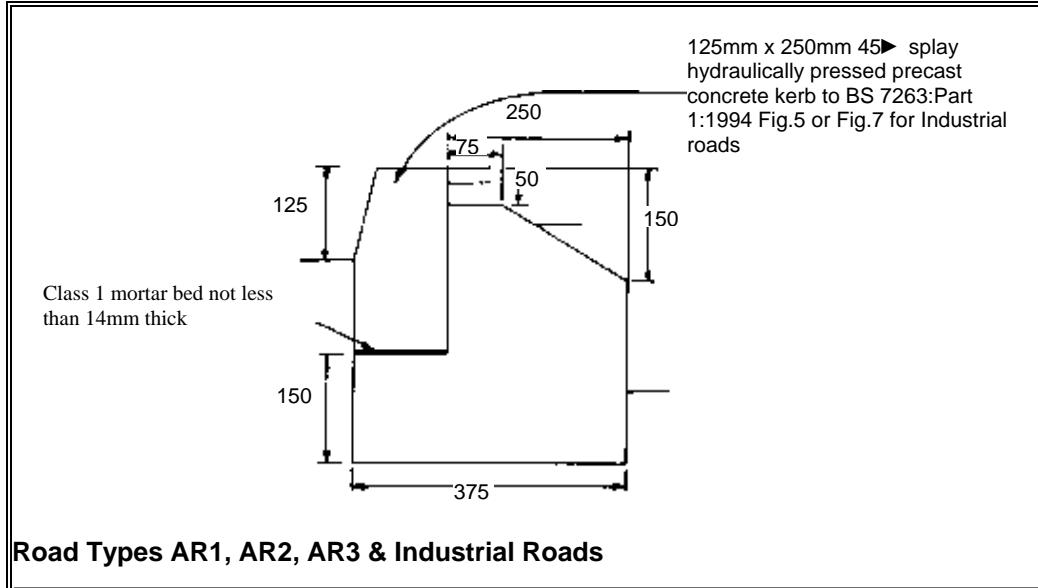
Dimensions (m) (minimum)	W	R
H.G.V. Access	6.0	10.5
Car Park Access	4.5	4.5

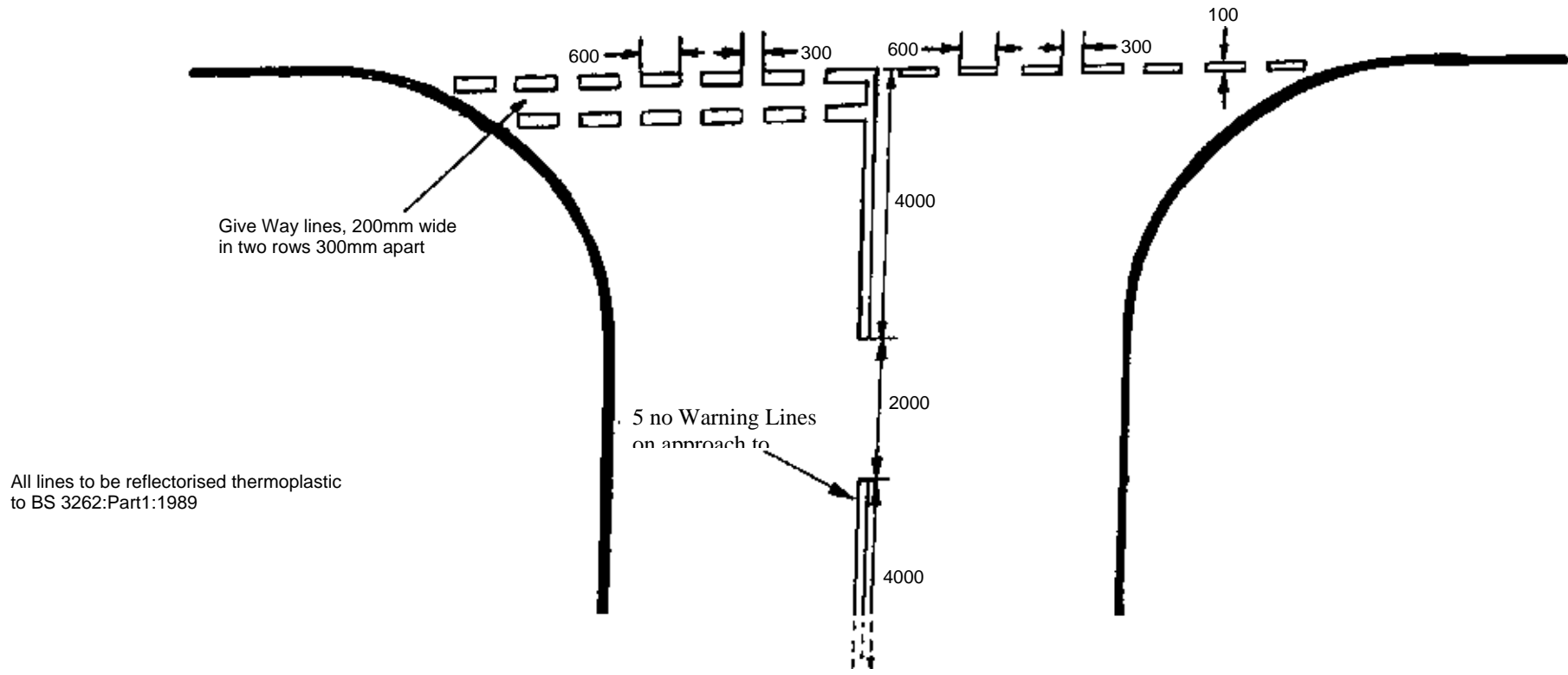


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**ENVIRONMENTAL SERVICES**

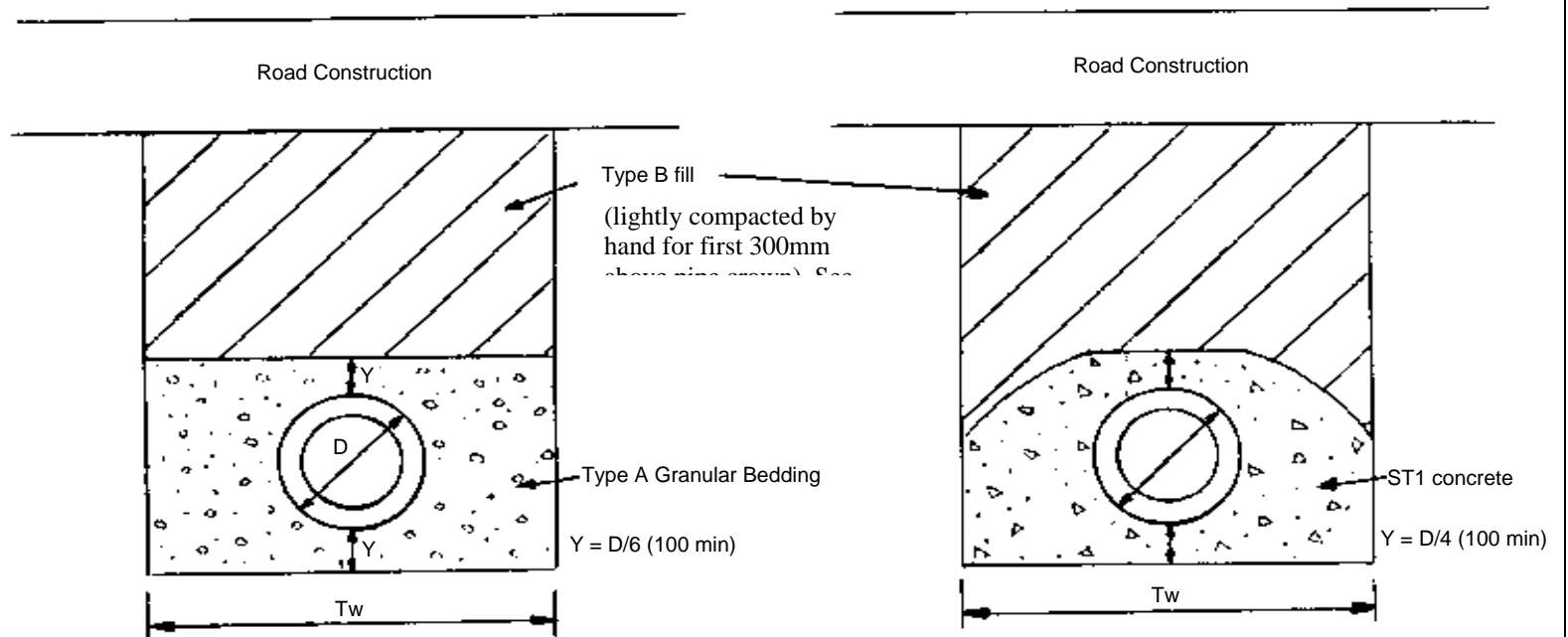
**Industrial Road Footway  
Crossings**

**STANDARD DRAWING No.  
HE / 09**





Pipe Diameter	Trench Width Tw
150	600
225	700
300	750
375	1050
450	1150
525	1200
600	1350
675	1450
750	1500
825	1600
900	1900
1050	2050
1200	2300



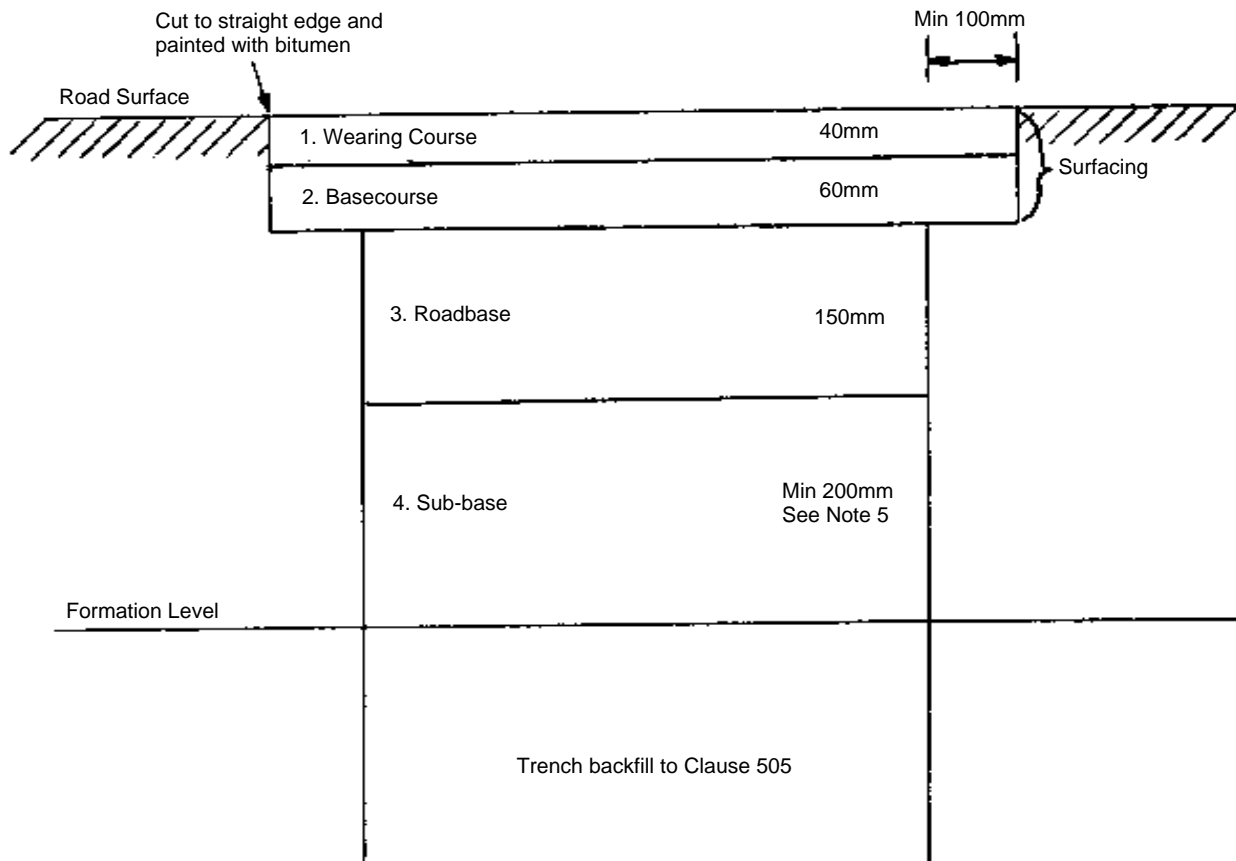
All materials and workmanship to be in accordance with 'Sewers for Adoption'

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COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Pipe Bedding and Trench  
Backfill Details**

**STANDARD DRAWING No.  
HE / 12**



Wearing Course – to match existing road surface or as otherwise specified by the Area Highway Manager

Basecourse – 20mm Dense Bitumen Macadam Basecourse to Clause 906

Roadbase – 28mm Dense Bitumen Macadam Roadbase to Clause 903

Sub-base – Type 1 Granular Sub-base Material to Clause 803

Thickness of sub-base to be increased where existing road construction is greater than 450mm

#### Footpaths

Sub-base – 100mm depth of Type 1 Granular Sub-base Material to Clause 803

Wearing Course – 40mm depth to match existing surface or as otherwise specified by the Area Highway Manager

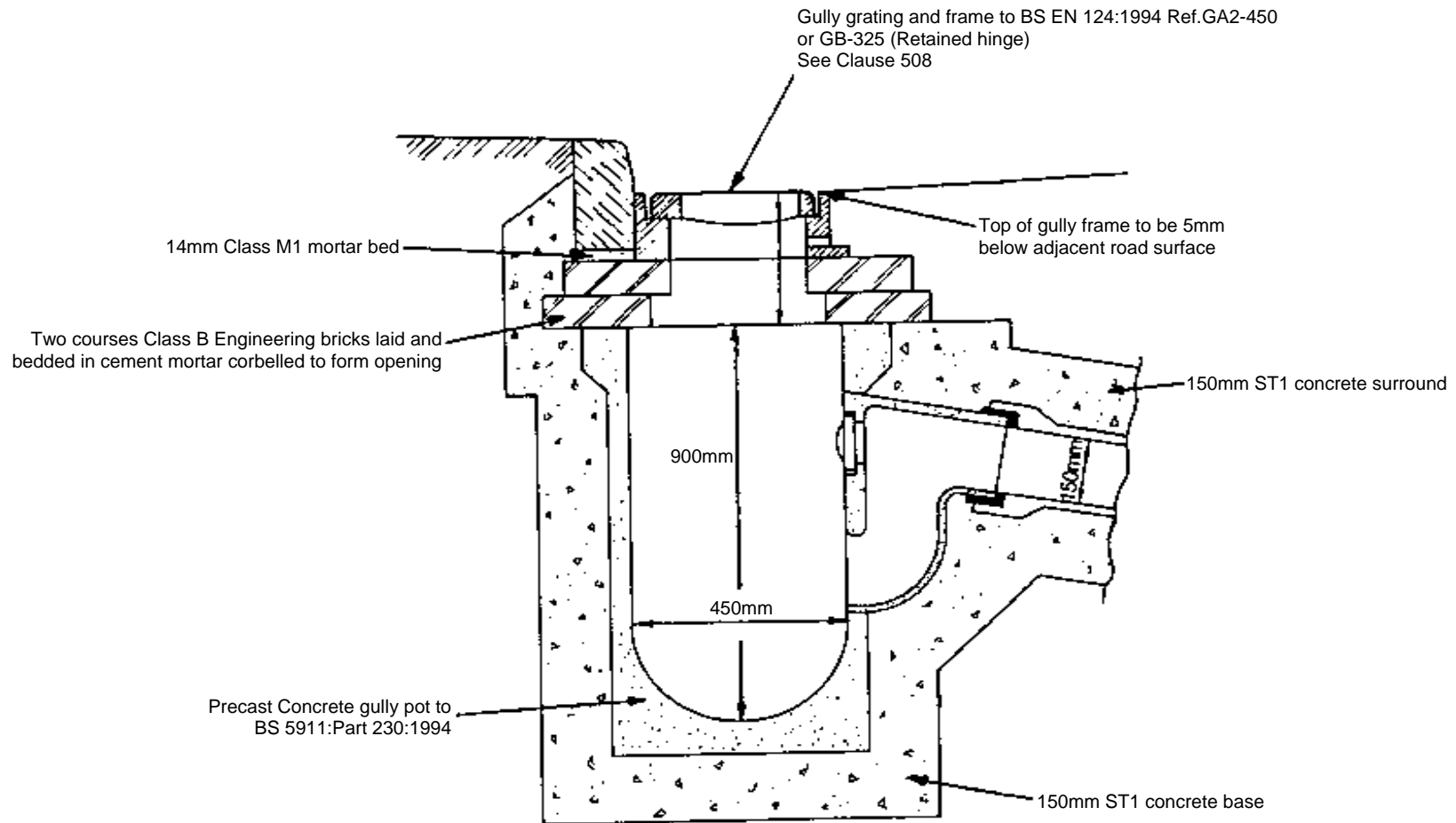
Where reinstatement is carried out in new carriageway or footpath, materials and thickness to match existing construction.

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COUNTY COUNCIL

**ENVIRONMENTAL SERVICES**

**Reinstatement in Existing  
Highways**

**STANDARD DRAWING No.  
HE / 13**



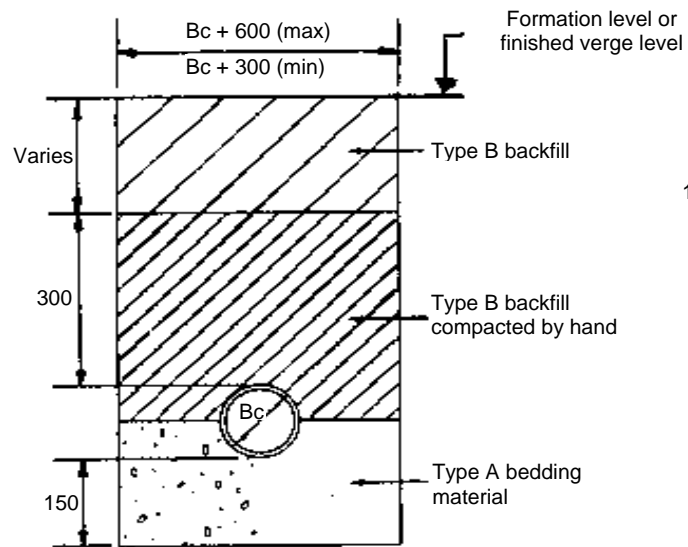
**Wiltshire**  
COUNTY COUNCIL

**ENVIRONMENTAL SERVICES**

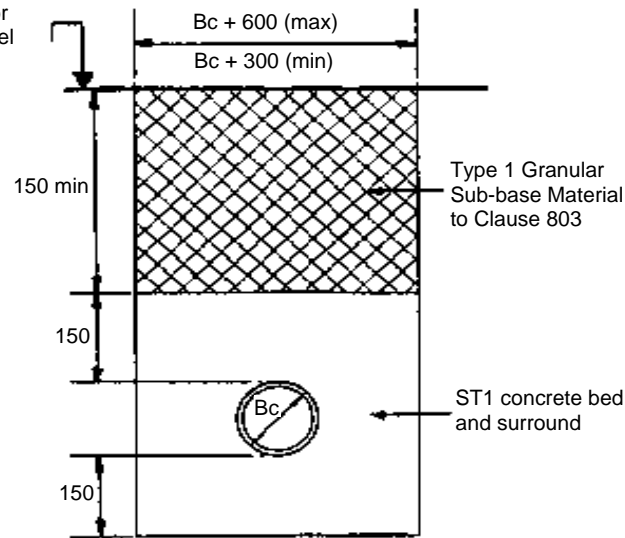
**Gully Detail**

**STANDARD DRAWING No.  
HE / 14**

### UNDER VERGE

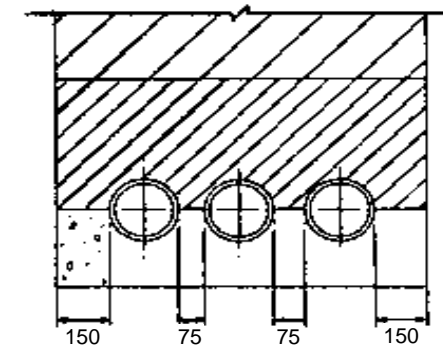


### UNDER CARRIAGEWAY AND FOOTPATH



### MULTIPLE DUCTS

(Bed, surround and backfill requirements as for single duct)



1. Type A bedding and Type B backfill to be to 'Sewers for Adoption'
2. Ducts to be to Clause 510
3. All dimensions in millimetres

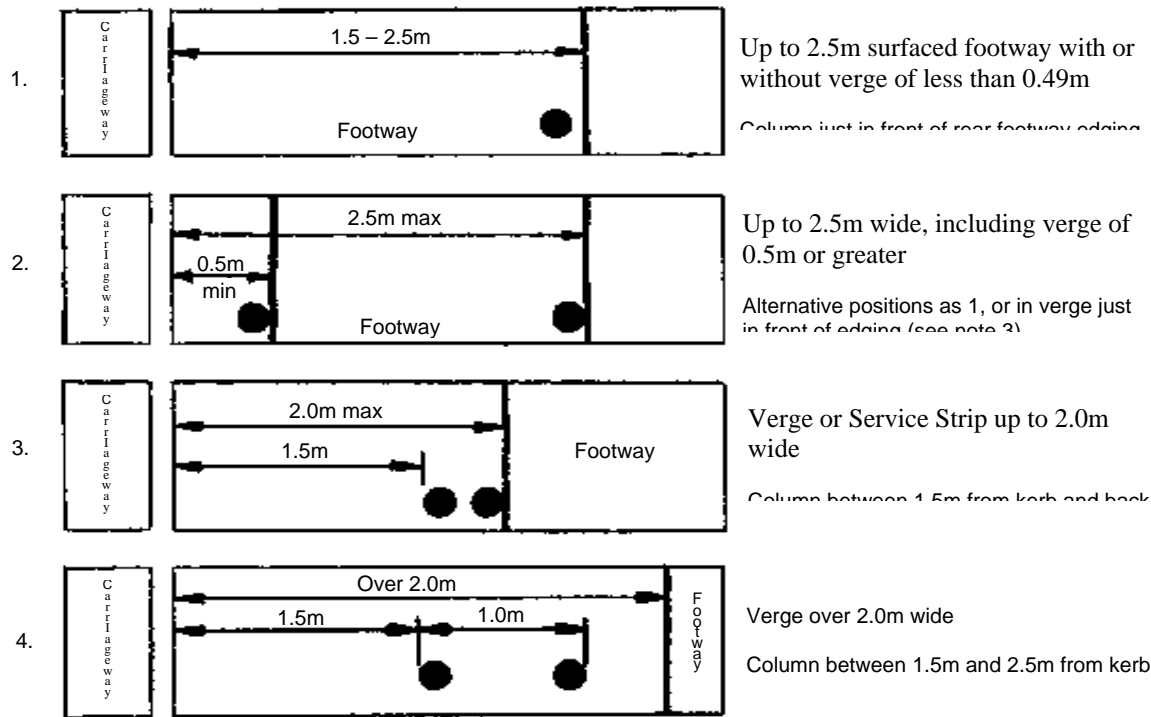
**Wiltshire**  
COUNTY COUNCIL

**ENVIRONMENTAL SERVICES**

**Service Duct Details**

**STANDARD DRAWING No.  
HE / 15**

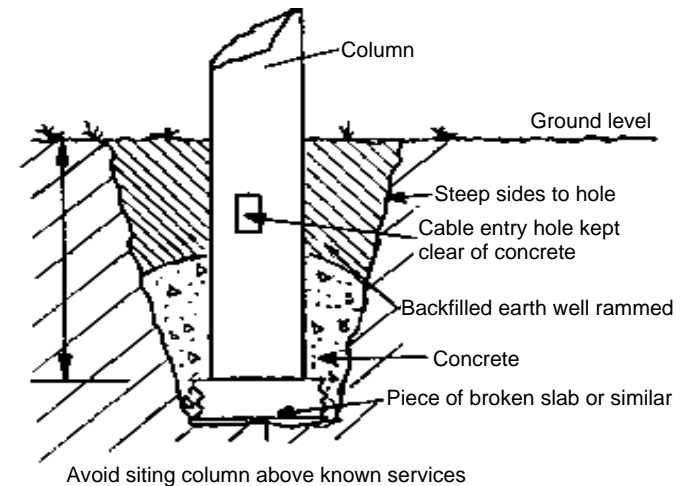
### TYPICAL SET-BACK DISTANCES FOR LIGHTING



### Notes

1. Typical positions indicated may require minor adjustment to avoid services
2. If serious difficulties arise with positions indicated, refer to Wiltshire C.C.
3. Where alternatives are shown, actual positions or set back distances will be indicated by Wiltshire C.C. on plan showing the approved lighting scheme

### METHOD OF COLUMN ERECTION



Column mounting height	Planting depth
5.0m	800mm
6.0m	1000mm
8.0m	1200mm
10.0m	1500mm
12.0m	1700mm

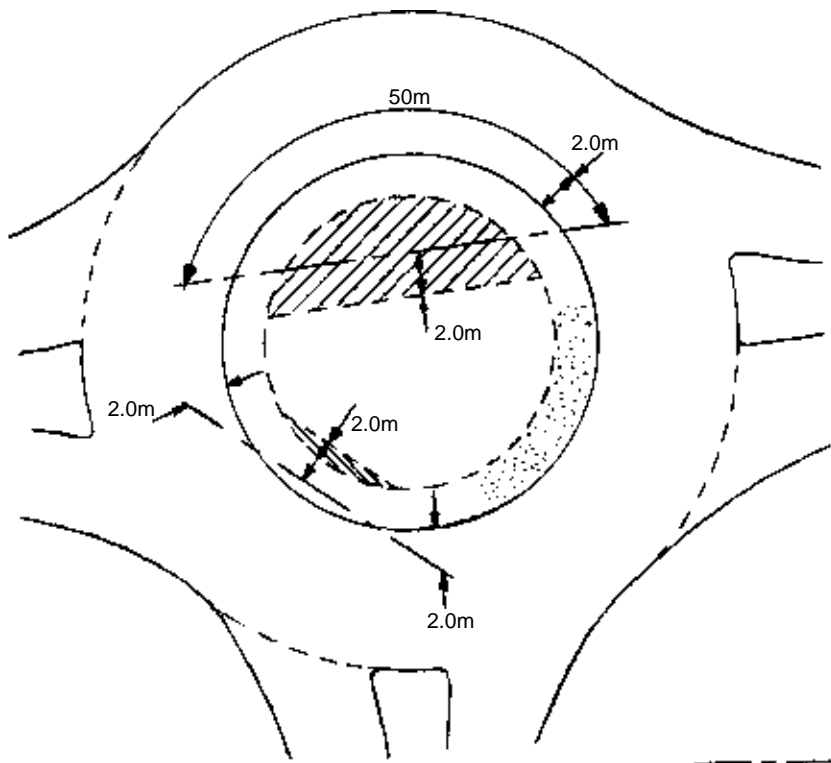
**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Road Lighting  
Siting and Erection Details**



**STANDARD DRAWING No.  
HE / 16**





Block Paving

Paving Blocks 60mm thick  
on 30mm compacted thickness sharp  
sand

-  2m wide block paving
-  Visibility Area  
No planting with mature height greater than 0.6m. Outside visibility area, ground cover plus taller shrubs as agreed with W.C.C.

----- Visibility Line  
From a point 2.0m from central island as far as the next exit, or 50.0m whichever is the lesser.

**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Roundabout Central Island  
Details**

**STANDARD DRAWING No.  
HE / 17**

# FRAMED PEDESTRIAN GUARDRAILS WITH VERTICAL BAR INFILLING

Manufactured from aluminium alloy or mild steel to BS 7818:1995 Table 1:Class A

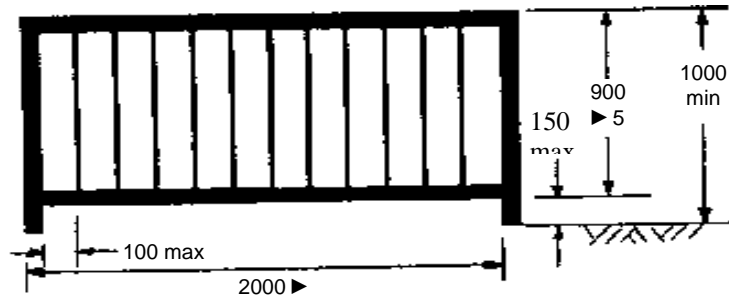


Fig. 1 Bar Infilling

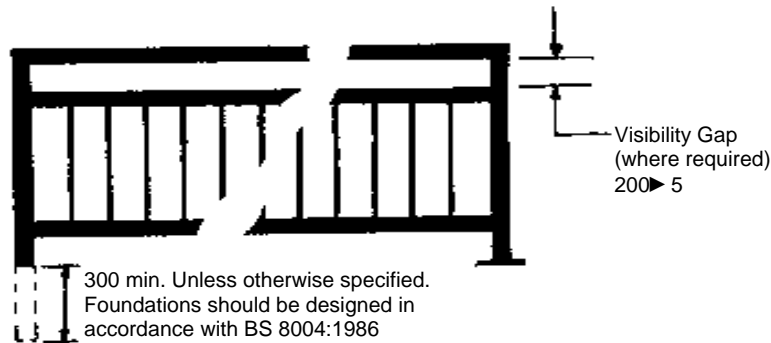


Fig. 2 Visibility Gap and Foundations

Metal Finishing

Aluminium Alloy – Mill Finish

Mild Steel – Descaling by pickling and hot dip galvanised in accordance with BS 729:1971

Table 1 Classes and Design Loads

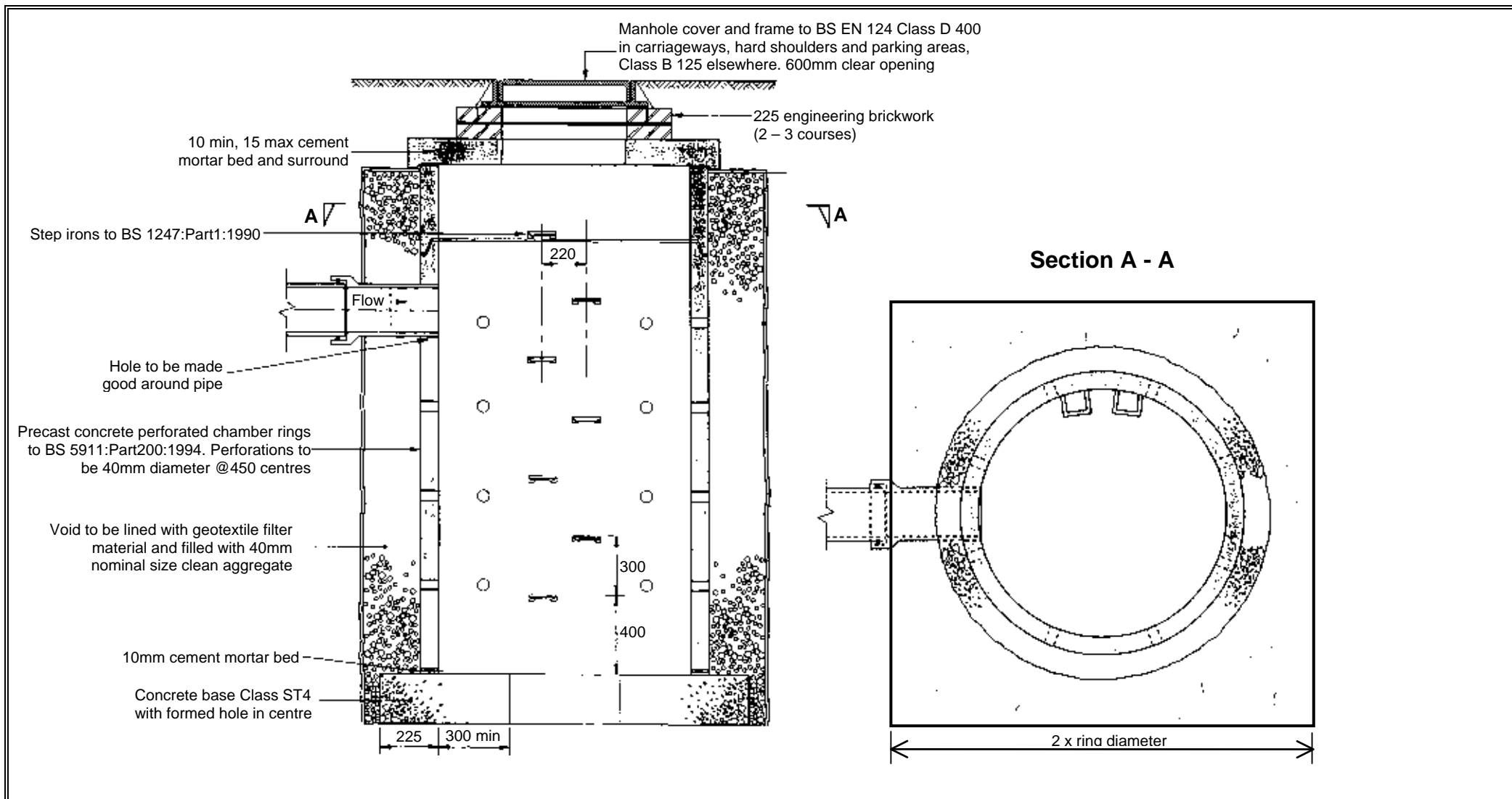
Class	Minimum Design Loads					Infilling
	Rail	End & 90° corner posts		Other posts		
		Parallel	Normal	Parallel	Normal	
	N/m	N	N	N	N	N
A	700	700	700	700	1400	500
B	700	700	700	700	1400	1000
C	1400	1400	1400	1400	2800	1000

**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Pedestrian Guardrails**

**STANDARD DRAWING No.  
HE / 18**



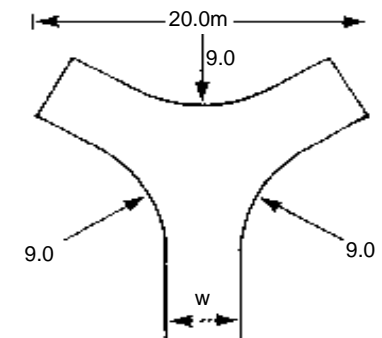
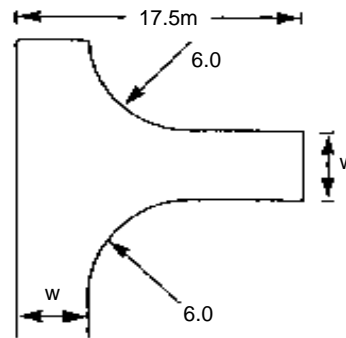
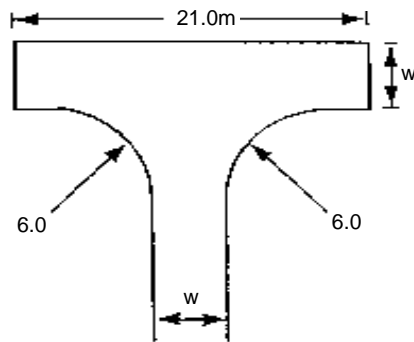
**Wiltshire**  
COUNTY COUNCIL

**ENVIRONMENTAL SERVICES**

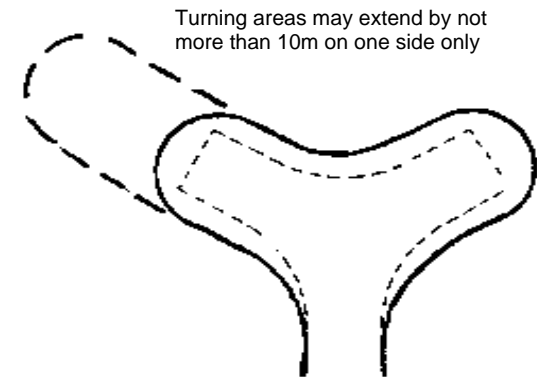
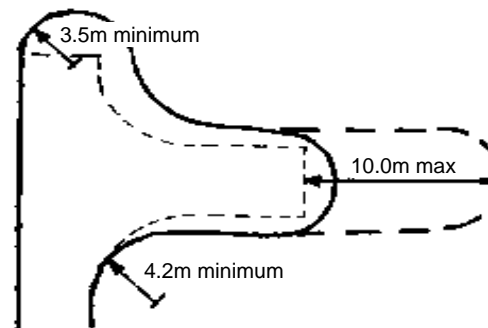
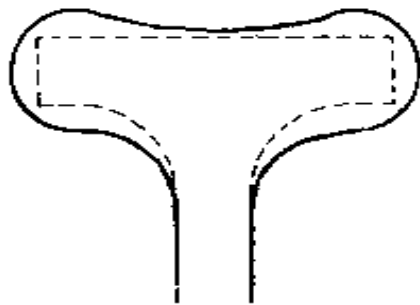
**Typical Soakaway Details**

**STANDARD DRAWING No.  
HE / 19**





**Minimum Turning Manoeuvre Outlines**

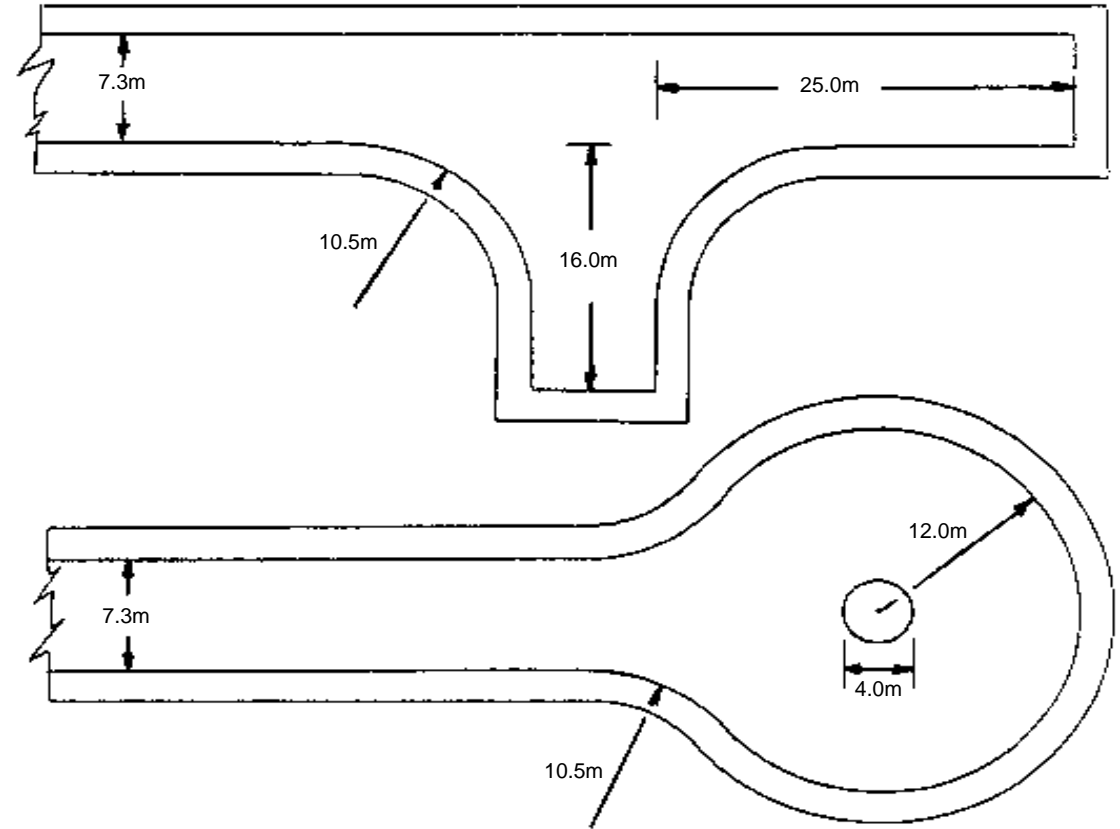
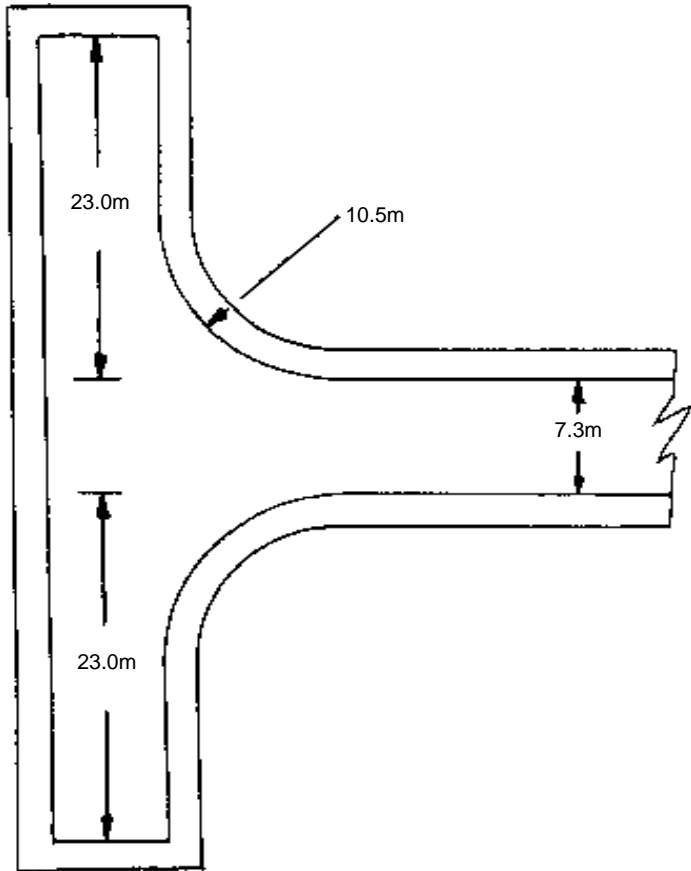


**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Turning Head Details  
Residential**

**STANDARD DRAWING No.  
HED / 01**

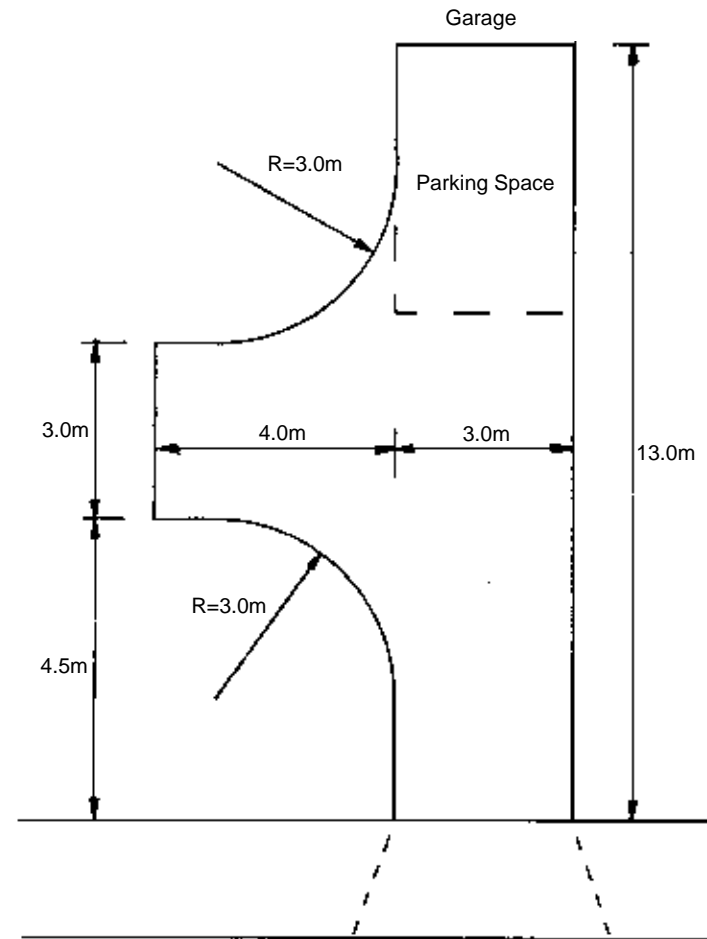
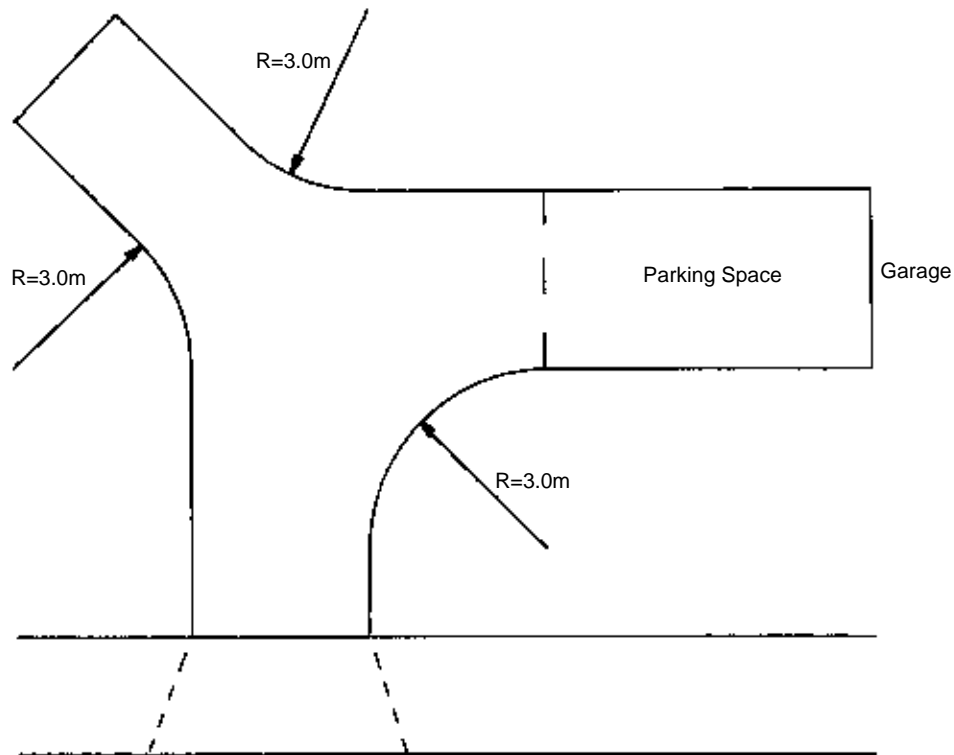


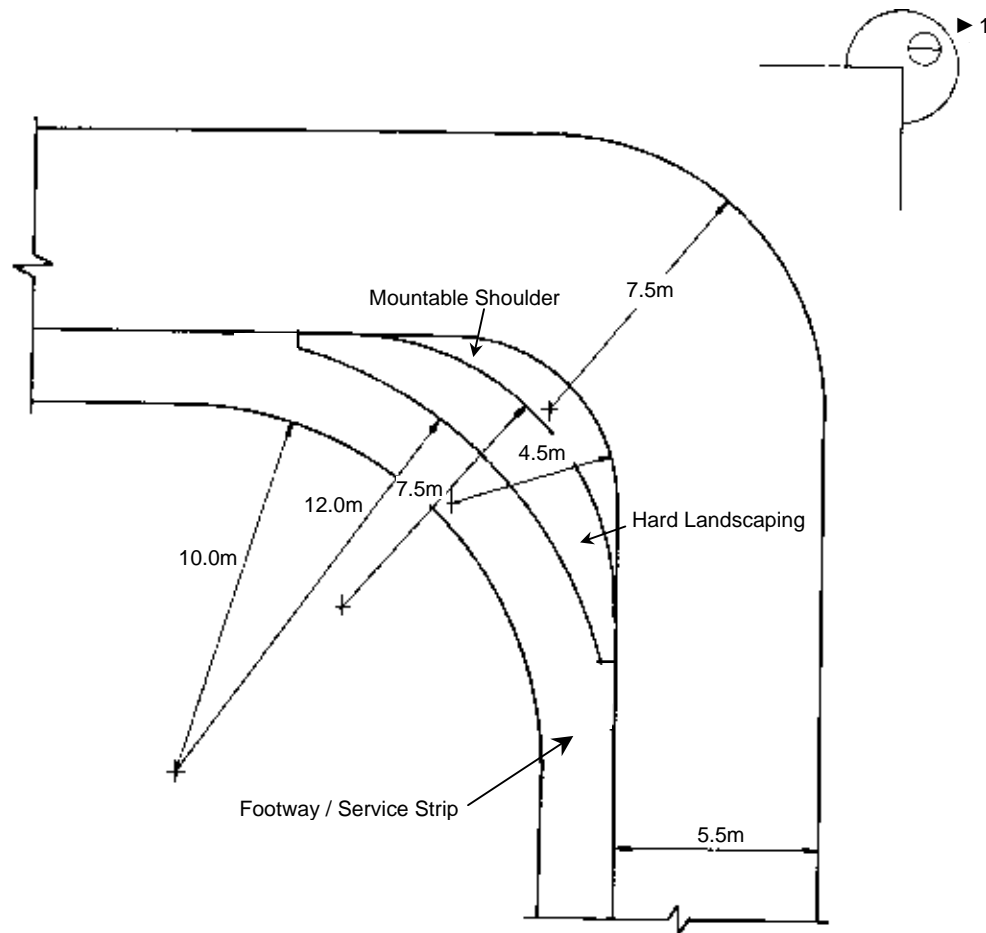
**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Turning Head Details -  
Industrial**

**STANDARD DRAWING No.  
HED / 02**





**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Traffic Calming Devices  
Speed Control Bend**

**STANDARD DRAWING No.  
HED / 04**

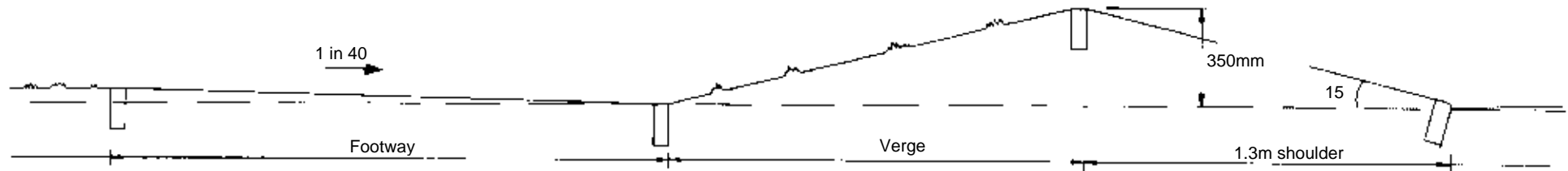


The typical detail generates a shoulder which is 1.3m wide at the apex of the bend (for 90° example).

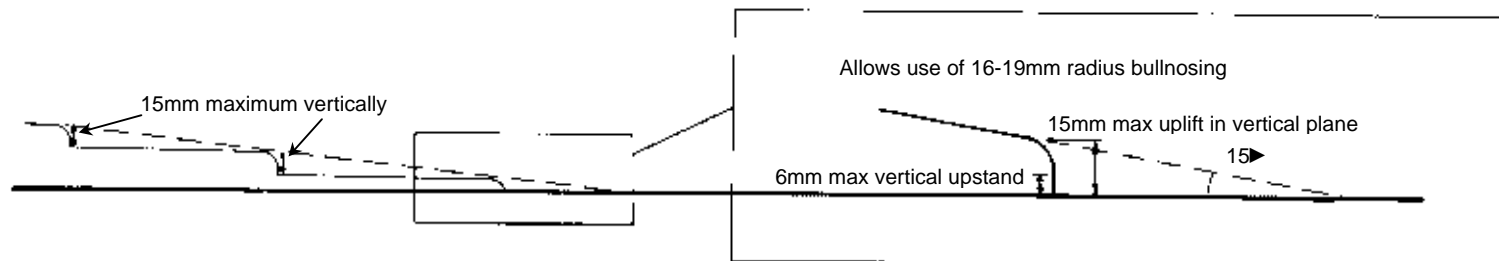
To achieve a 15° slope, the top of the kerb at the back of the shoulder must be 350mm above adjoining carriageway level.

The increase in kerb height can be achieved entirely within the length of the shoulder whether starting from 55mm or 125mm nominal kerb face.

The extra height can be lost in the strip behind the shoulder, with no need to vary the level of the footway.



### Overrun Detail



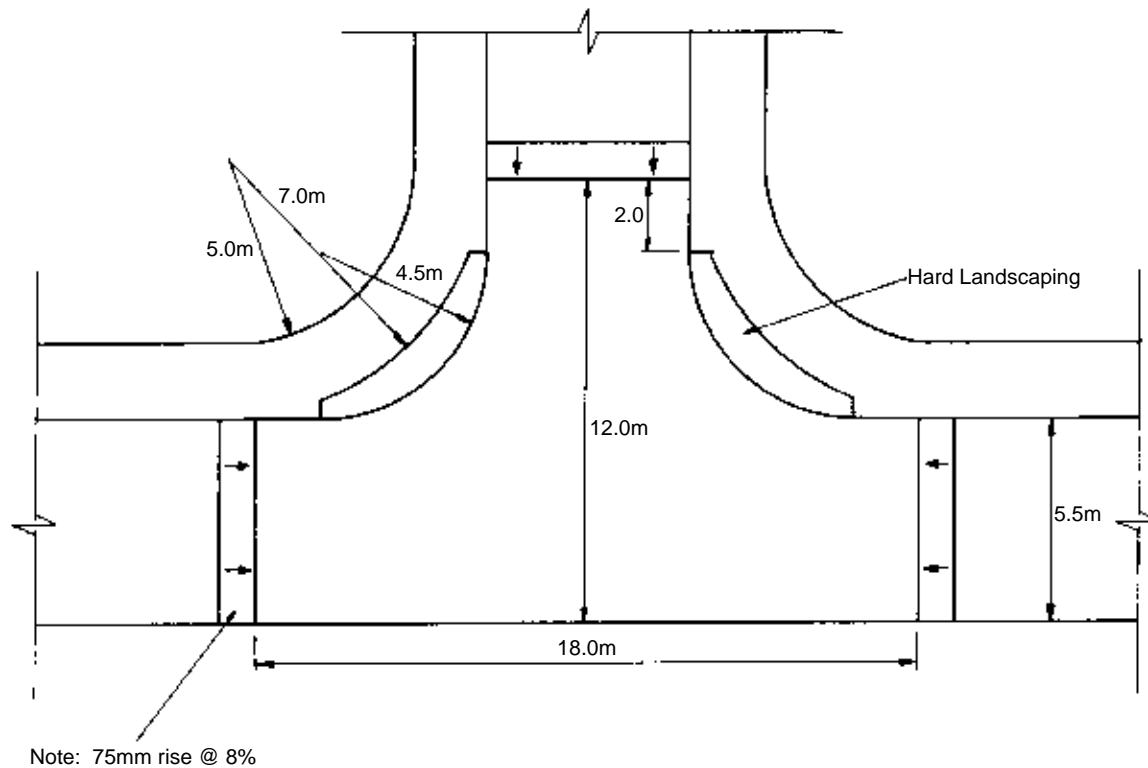
The above diagram shows the specific requirements prescribed in Regulation 5 of the Traffic Calming Regulations which are further explained in the DoT's Traffic Advisory Leaflet 12/93 'Overrun Areas'.

**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Traffic Calming Devices  
Mountable Shoulder on  
Speed Control Bend**

**STANDARD DRAWING No.  
HED / 05**

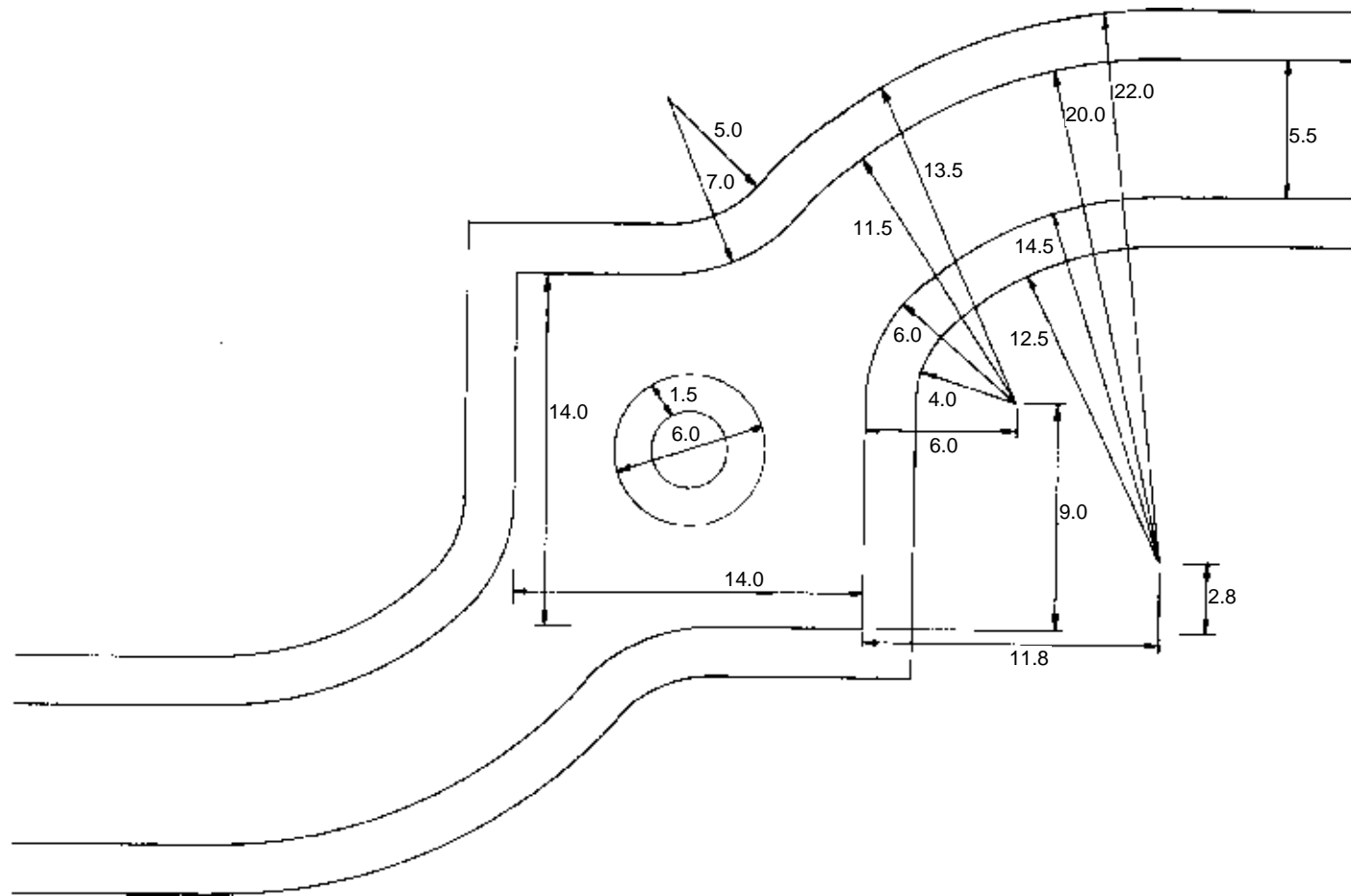


**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Traffic Calming Devices  
Table Junction**

**STANDARD DRAWING No.  
HED / 06**

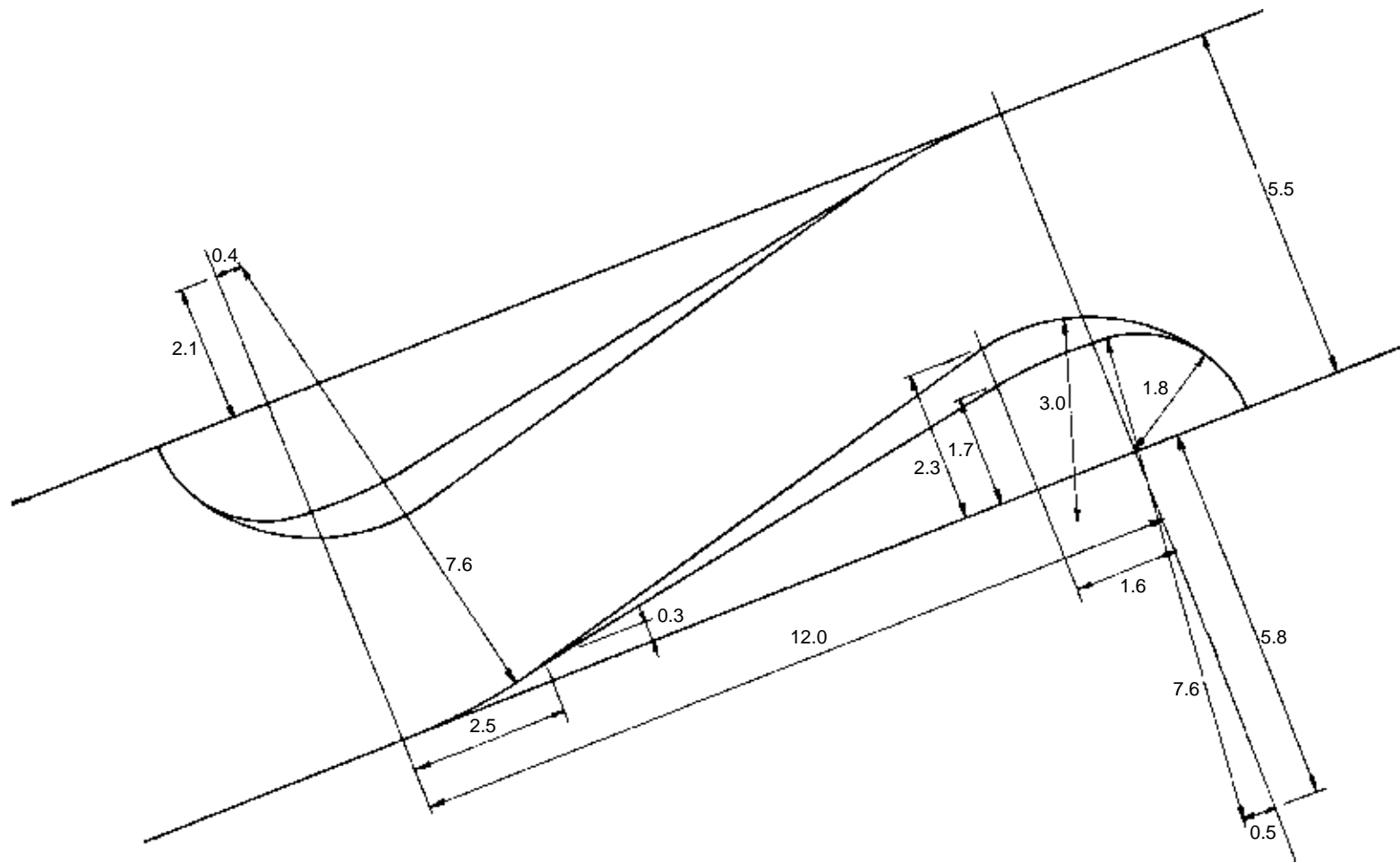


**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Traffic Calming Devices  
Roundabout**

**STANDARD DRAWING No.  
HED / 07**

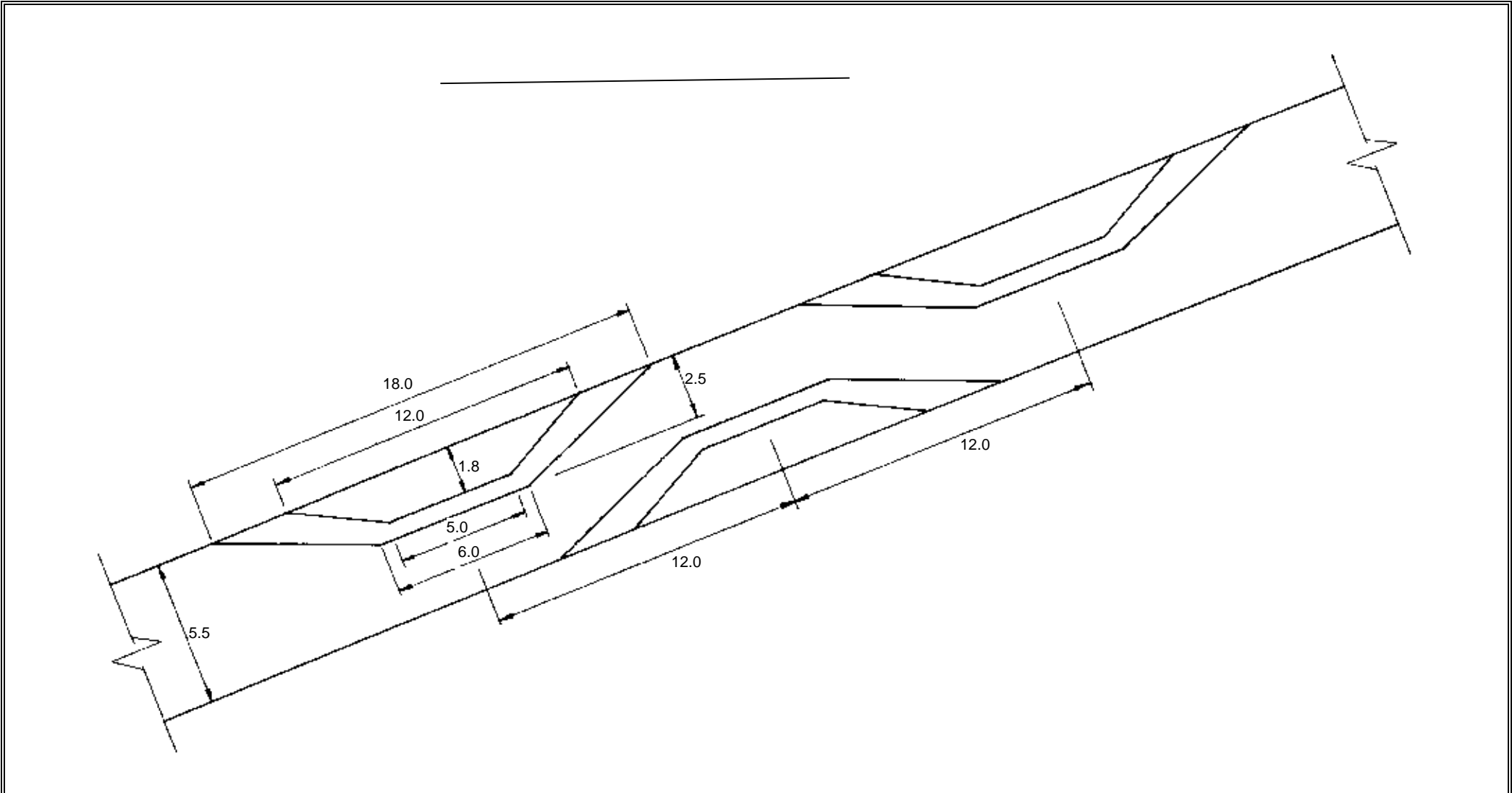


**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Traffic Calming Devices**  
**Chicane**

**STANDARD DRAWING No.**  
**HED / 08**

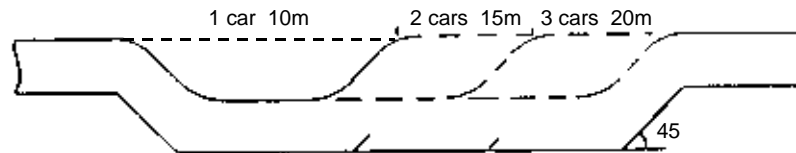
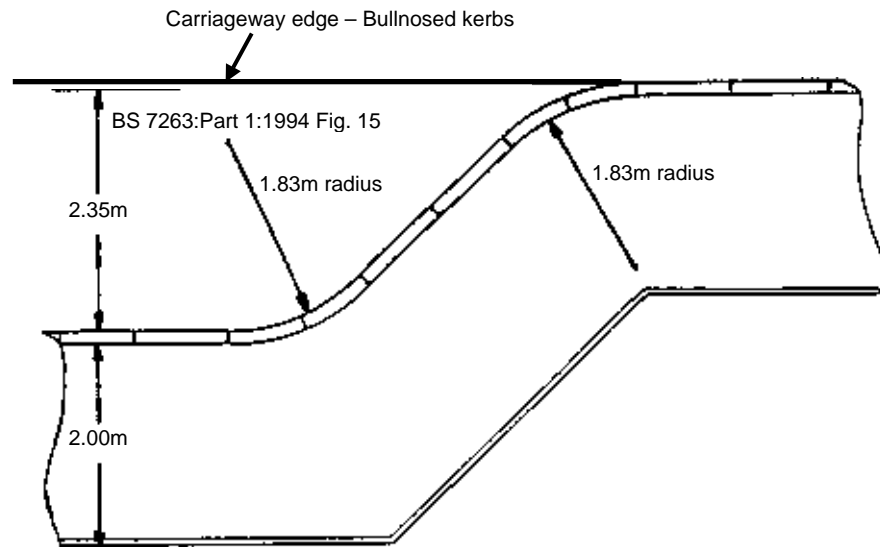


**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Traffic Calming Devices  
Build-Out**

**STANDARD DRAWING No.  
HED / 09**



3 cars maximum – Greater capacity not pro-rata

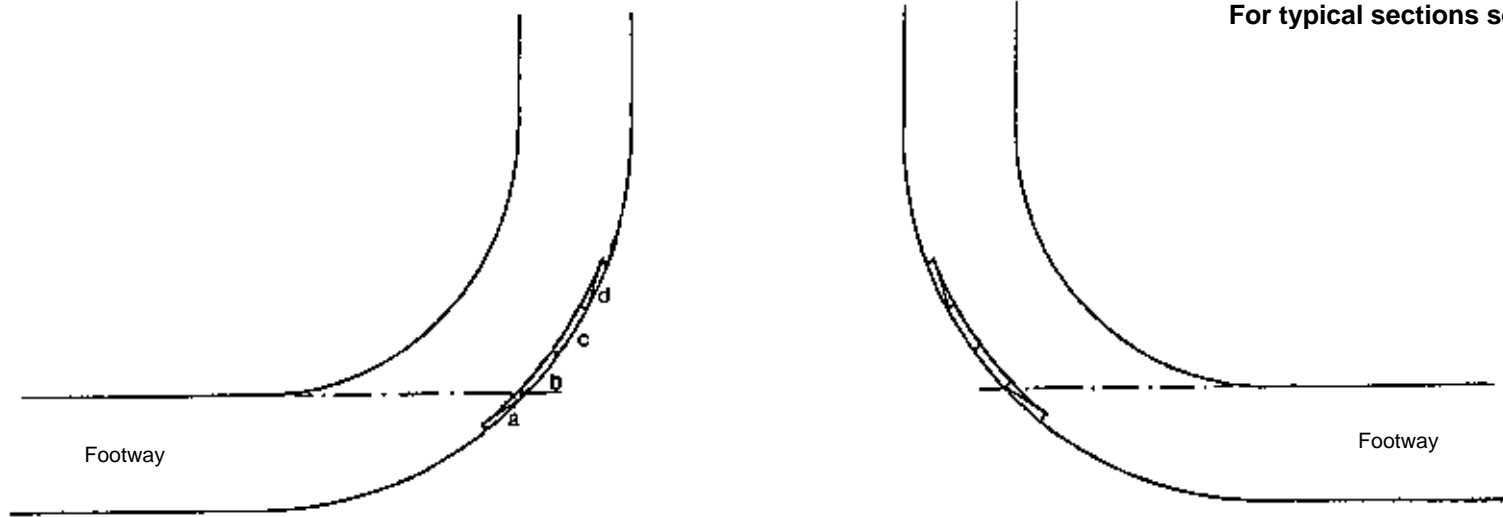
**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

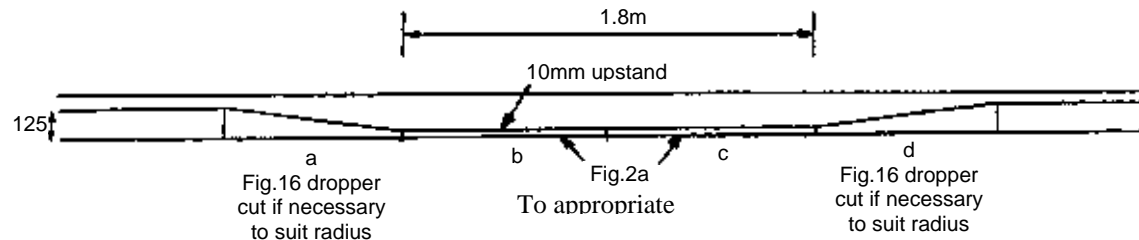
**Lay-by Details  
(Residential)**

**STANDARD DRAWING No.  
HED / 10**

For typical sections see drawing HE/06



PLAN showing location



ELEVATION

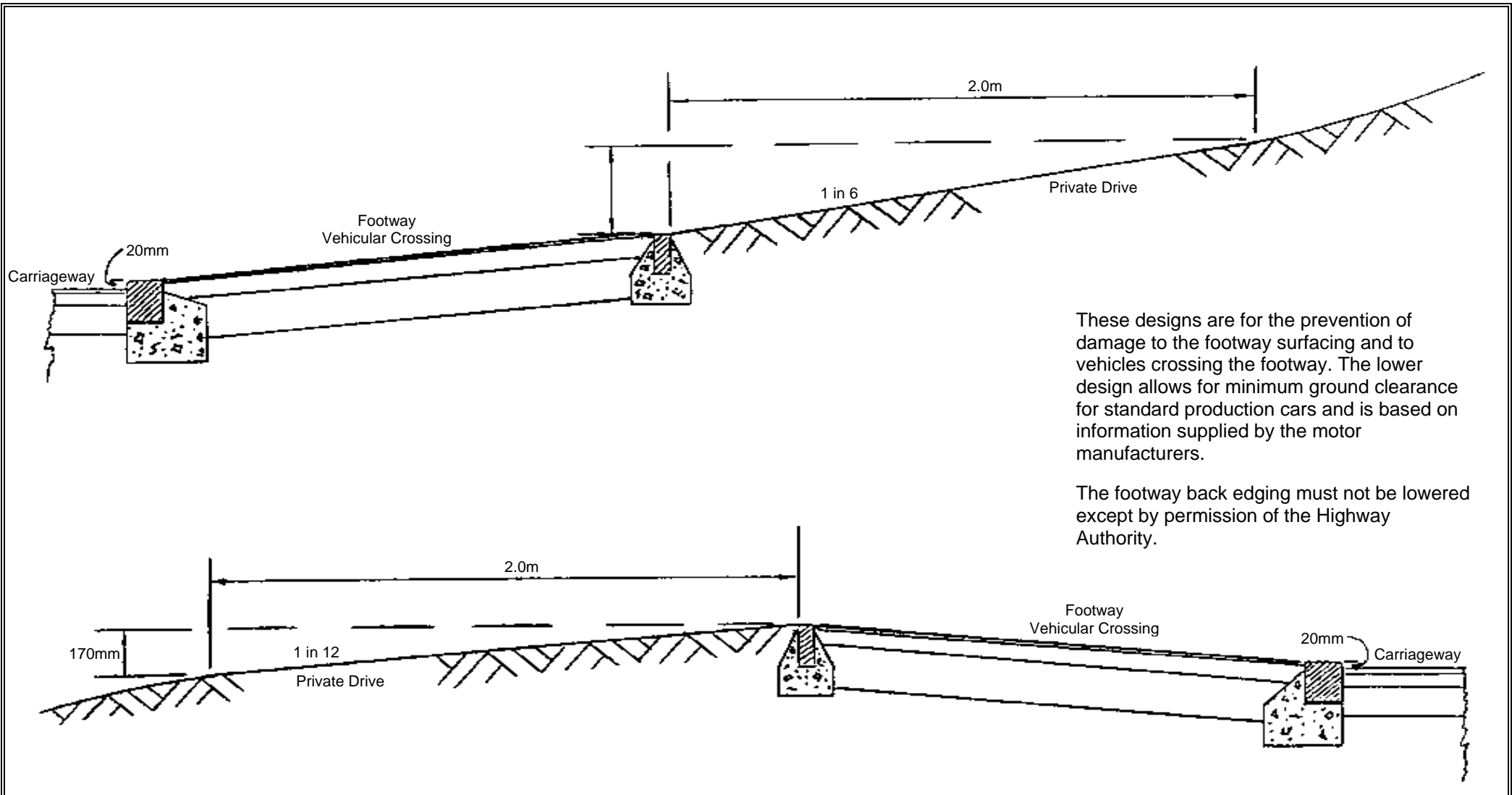
To be provided at all road junctions except at entrance to Access Way

**Wiltshire**  
COUNTY COUNCIL

ENVIRONMENTAL SERVICES

**Road Crossing Facility  
Details**

**STANDARD DRAWING No.  
HED / 11**

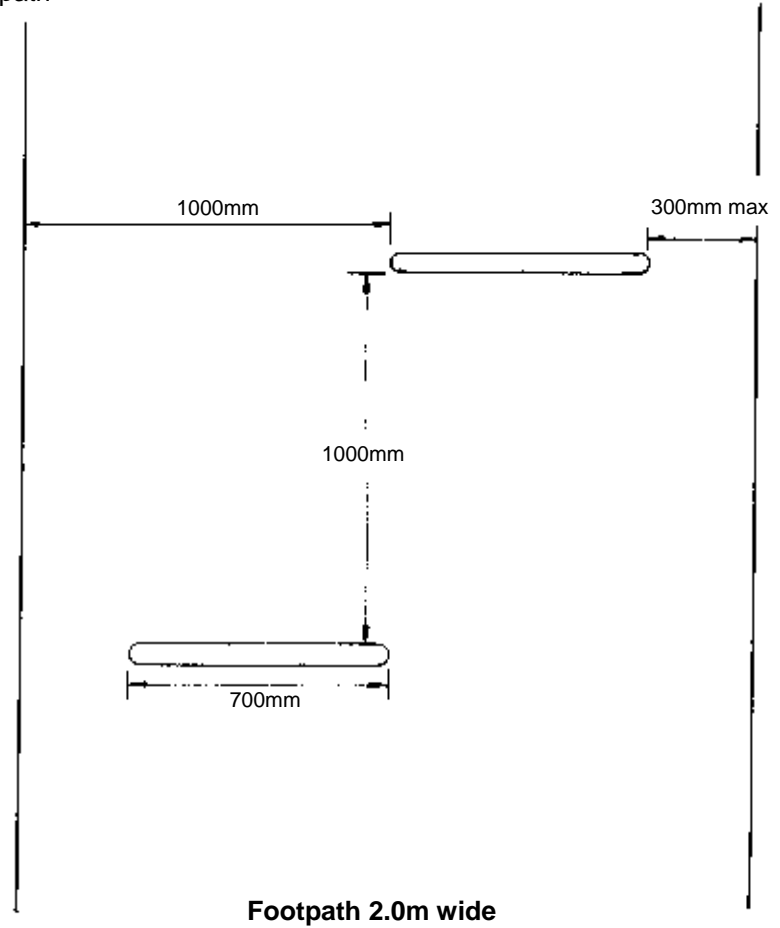
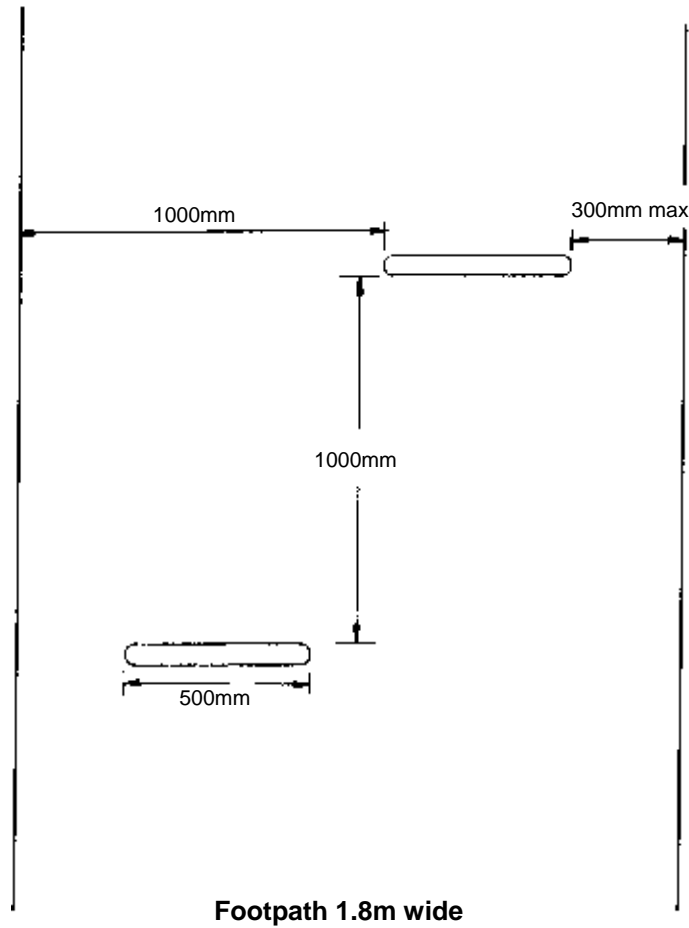


These designs are for the prevention of damage to the footway surfacing and to vehicles crossing the footway. The lower design allows for minimum ground clearance for standard production cars and is based on information supplied by the motor manufacturers.

The footway back edging must not be lowered except by permission of the Highway Authority.



300mm gap assumes vertical object  
e.g. wall adjacent to footpath

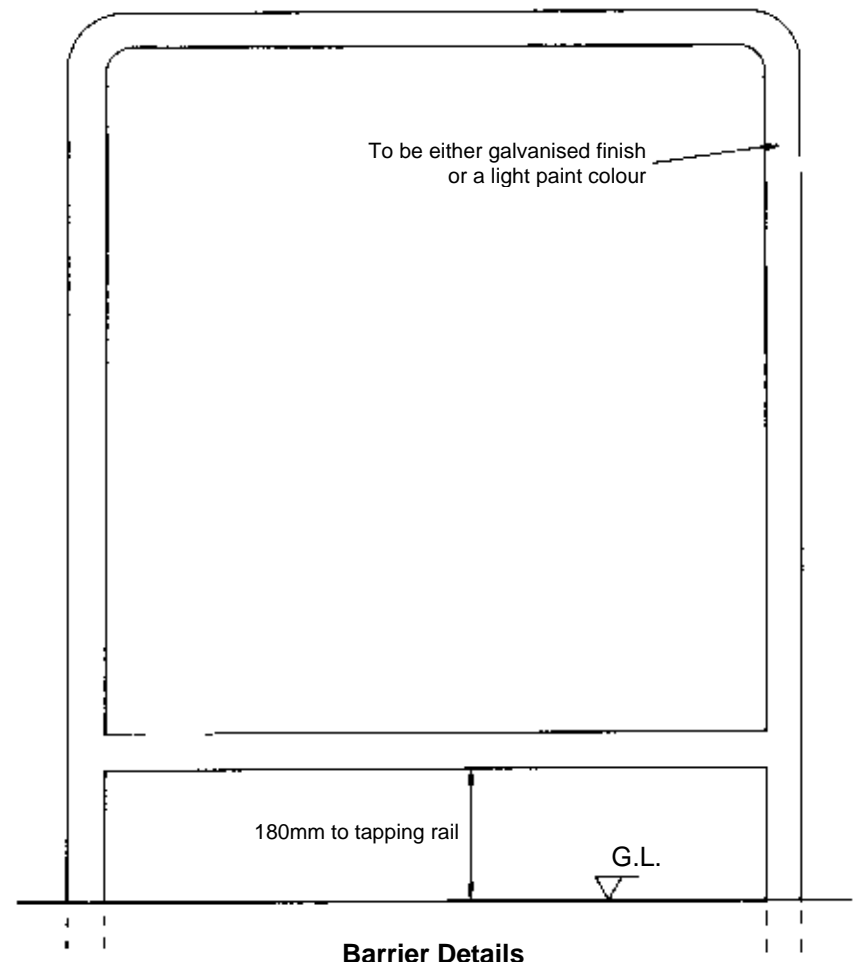
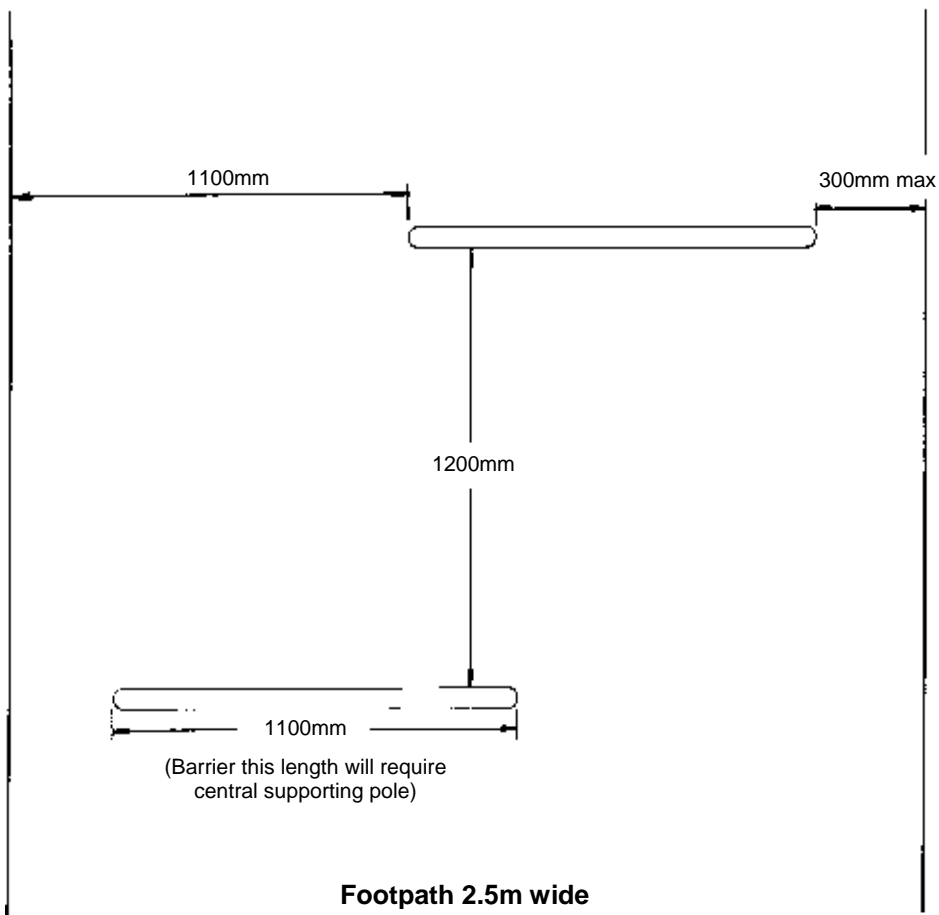


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ENVIRONMENTAL SERVICES

**Footpath Staggered Barrier  
Layout**

**STANDARD DRAWING No.  
HED / 13**



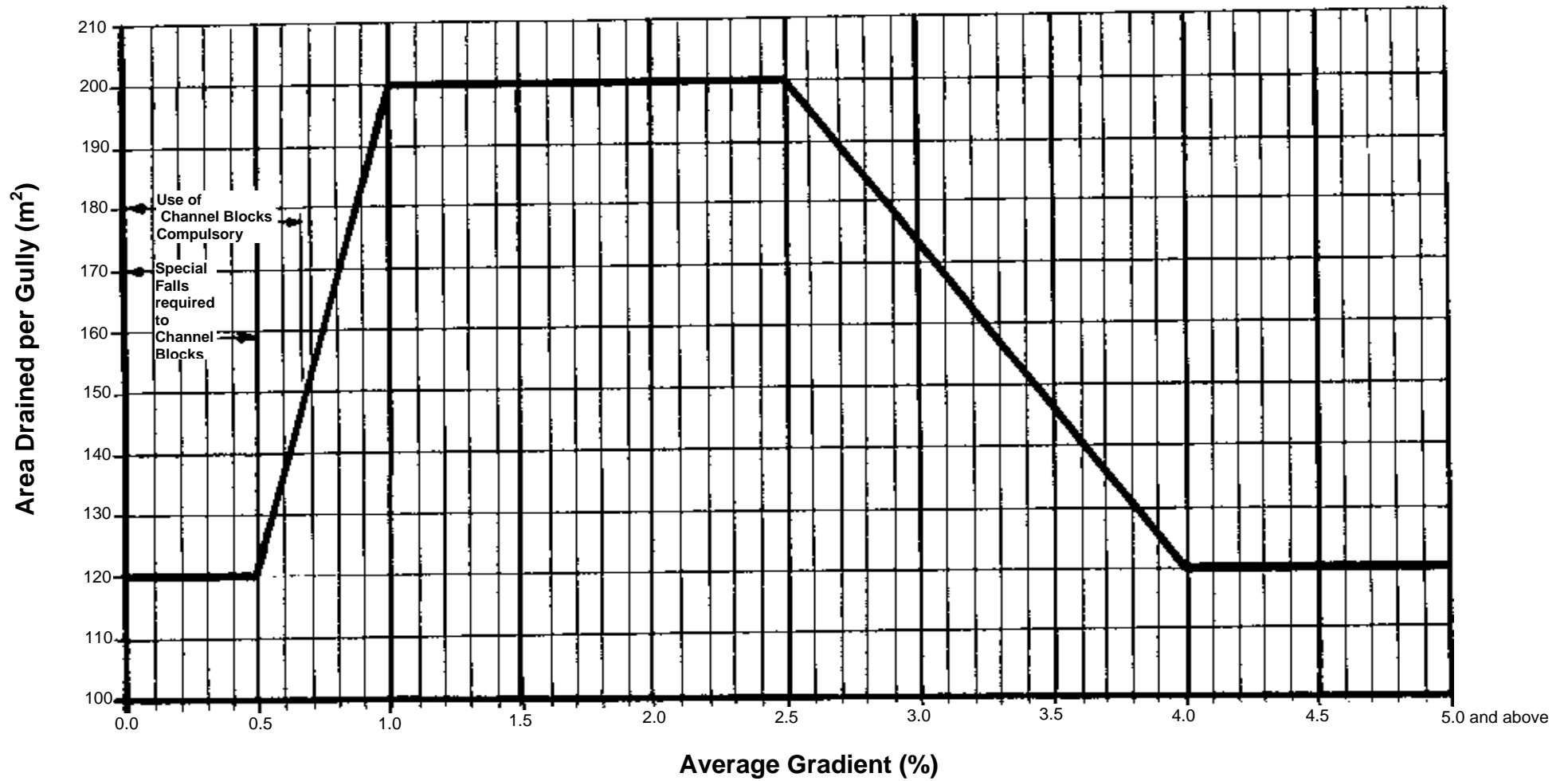
All barriers to comply with the requirements of BS7818:1995

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**Footpath Staggered Barrier  
Details**

**STANDARD DRAWING No.  
HED / 14**

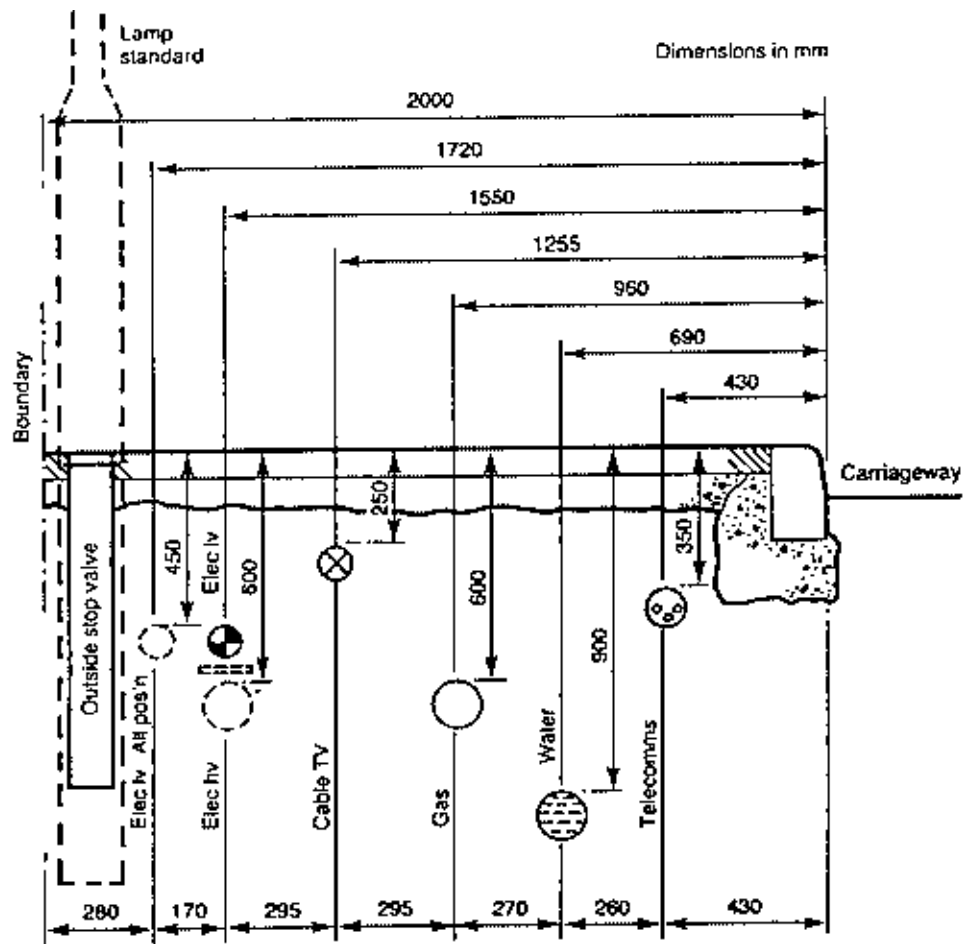


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**Gully Spacing Requirements**

**STANDARD DRAWING No.  
HED / 15**



Recommended arrangement of mains in a 2m footway including cable TV duct based on N J U G publication No.7

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ENVIRONMENTAL SERVICES

## Disposition of Services in Footways

STANDARD DRAWING No.  
HED / 16