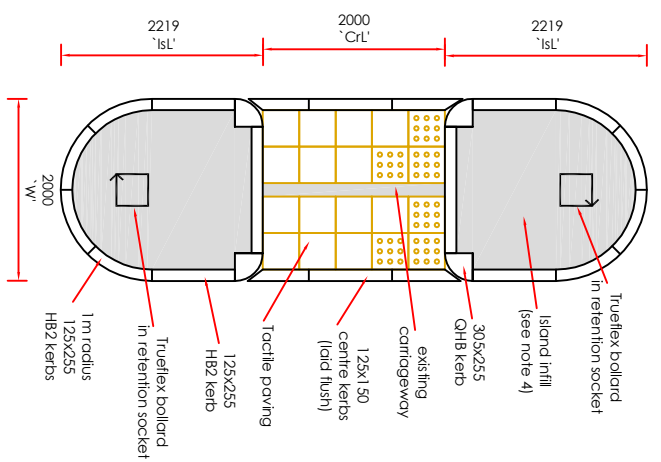
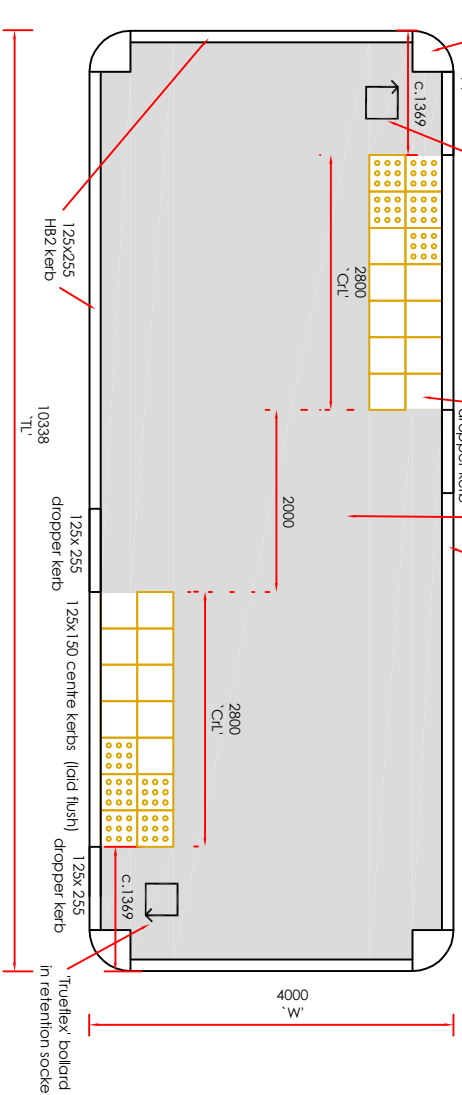


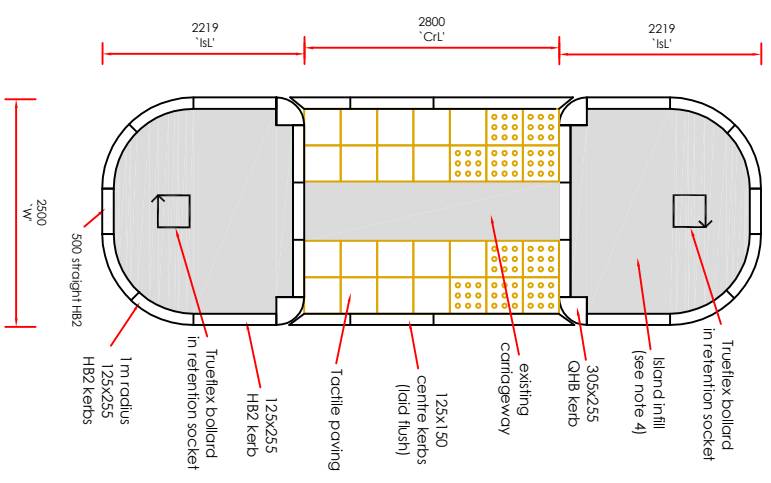
Refuge island A
Refuge island B



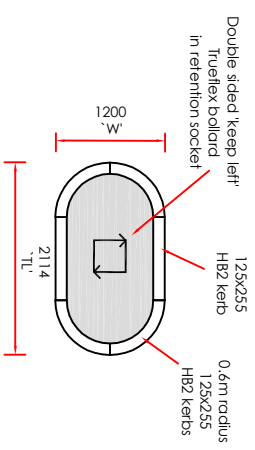
Refuge island D



Refuge island C



Traffic island E



Drawing Number
SD/1100/09

- Notes
- All dimensions are in millimetres (except where stated otherwise).
 - All island design and positioning must be to the approval of the Engineer. Dimensions may be varied by Engineer.
 - Minimum recommended 'Crl' distance for pedestrian crossings is 2000, for cyclists 2500. Minimum recommended 'W' distance for pedestrians is 1500, for cyclists 2500.
 - Island Infill to be as follows: Tack coat to c/wy, binder course (0/20 nominal size) to within 20mm of kerb height, 20mm surface course (0/6 nominal size).
 - Centre kerbs to be flush with c/wy (max tolerance +6). If instructed by Engineer BN kerbs may be used instead.
 - HB2 kerbs to be laid 125 above c/wy surface
 - Island to be aligned with corresponding dropped crossing points on footways.
 - Tactile paving to be 400x40x65 pcc slabs laid on a 50 sand bed and 100 type 1 sub-base. Buff in colour
 - 'Truelflex' 'Keep Left' bollard to be installed in a MNL retention socket with adapter plate on each half of island. Socket to be installed in 400x40x400 S14 concrete base. Min. 20 surface course (0/6 nominal size) laid up to edges of socket. Bollard to be centred relative to width of island (except for 'Refuge Island C', where it shall be offset by 600 from edge). Offset from end of island by 600.
 - Crossing points on 'Refuge island D' shall fall towards carriageway as per section B-B in SD/1100/03.
 - 'Truelflex' bollard in street lit areas to be a 'Solar Truelflex'. Alternative bollard types may also be specified.
 - Additional Digg-610 signs (back-to-back) on a post may be specified. Mounting heights to be agreed with Engineer.
 - Tactile paving colour of controlled crossings will be red.
 - 'Refuge Island C' may require vada rail to direct pedestrians and cyclists.
 - 'W' and 'Tl' dimensions may vary on 'Refuge island C' to suit pedestrian/cyclist flows and road width.
 - Drawing to be read in conjunction with SD/1100/01 and SD/1100/03.

Do not scale this drawing

Rev	Date	By	Checked
A	07/06	JW	
B	11/11	RB	

Drawing No.	SD/1100/09	Revision	B
Scale	NOT TO SCALE	Date	Nov 2011
Drawn	RMB	Checked	GK
Approved	GK	Date	Nov 2011

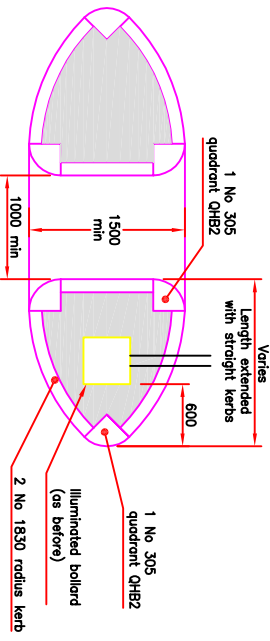
Environment Directorate
Town Hall, St. Ives Road
Maldenhead, Berks,
SL6 1RF
Tel: 01628 798898
Fax: 01628 796774
http://www.rdw.gov.uk



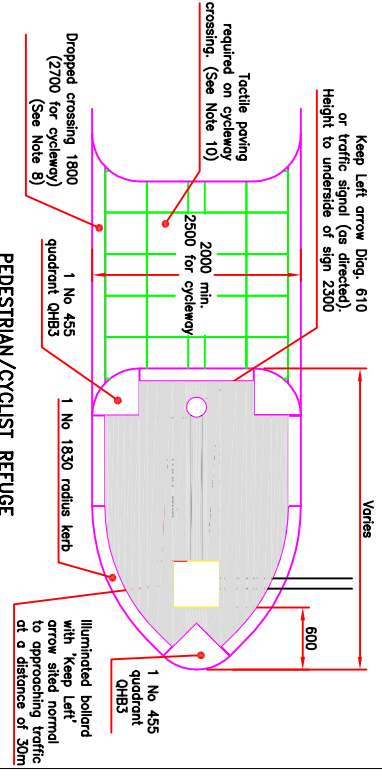
Project
Title

STANDARD DRAWINGS
REFUGE AND TRAFFIC ISLANDS

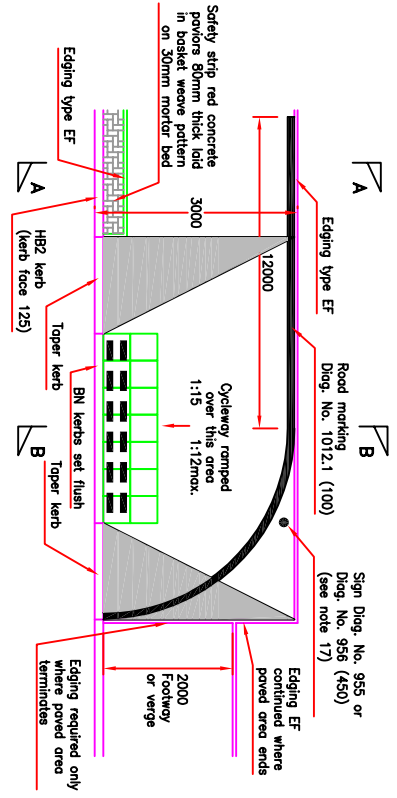
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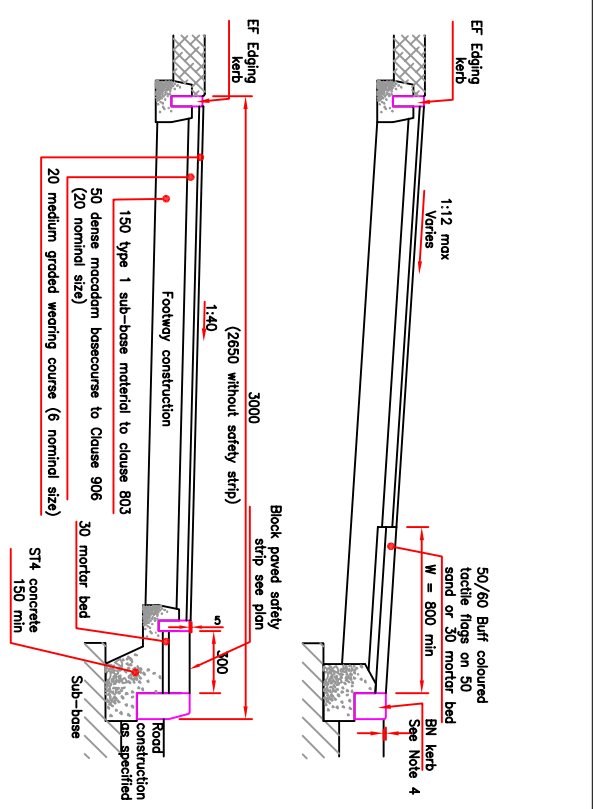
SEPARATION ISLANDS



PEDESTRIAN/CYCLIST REFUGE



SHARED UNSEGREGATED FOOTWAY/CYCLEWAY WITH SAFETY STRIP SHOWING TERMINATION POINT



Community Services Directorate
Town Hall, St. Ives Road
Maldenhead, Berks,
SL6 1RF

Tel: 01628 798888
Fax: 01628 796774
http://www.dwmn.gov.uk



Project	STANDARD DRAWINGS
Title	TRAFFIC ISLANDS AND FOOTWAY CONSTRUCTIONS

Drawing Number
SD/1100/10

- Notes
- All dimensions are in millimetres.
 - This drawing must be read in conjunction with SD/1100/1 and 3.
 - All island design and positioning must be to the approval of the Engineer.
 - Minimum island widths:
Separation island (pedestrian flows insignificant) 1500
Pedestrian refuge 2000
Cycleway refuge 2500
 - Separation islands and pedestrian refuges may be one island or two separate identical islands minimum dimensions as shown.
 - Pedestrian refuge area 2000 square min. This dimension must be increased to 2500 for busy sites and cycleway crossings.
 - All islands to be of flexible footway construction unless otherwise specified.
 - Kerb height at crossing point to be:
Pedestrian - 10
Cycleway - 0
 - A dropped crossing must be provided in footways and cycleways opposite the islands.
 - Tactile surfaces in accordance with guidance on the use of Tactile Surfaces DfT, to be laid at cycleway crossing points and elsewhere as directed.
Uncontrolled crossings - buff slabs.
Controlled crossings - buff slabs.
Where the gap between the two areas of slabs is less than 500 the slabs must be laid from kerb to kerb.
 - A 'Keep Left' bollard must be installed facing on coming traffic on each island.
 - An externally illuminated 'Keep Left' arrow Diag. 610 may be required in addition to bollards.
 - Crossing points shall be constructed as shown on Section B-B. Kerb face shall be 0 to +6.
 - Macadam shall comply with BS 4987-1 sub-base shall be D.O.T. Type 1 material.
 - Footway see SD/1100/3.
 - Block paviers and flags see SD/1100/5.
 - Road markings and signs to comply with Traffic Signs Regulations and General Directions 2002.
 - Height to under edge of signs on cycleways 2.4m.
 - 'Give Way' markings to be laid at uncontrolled crossings.
- Do not scale this drawing

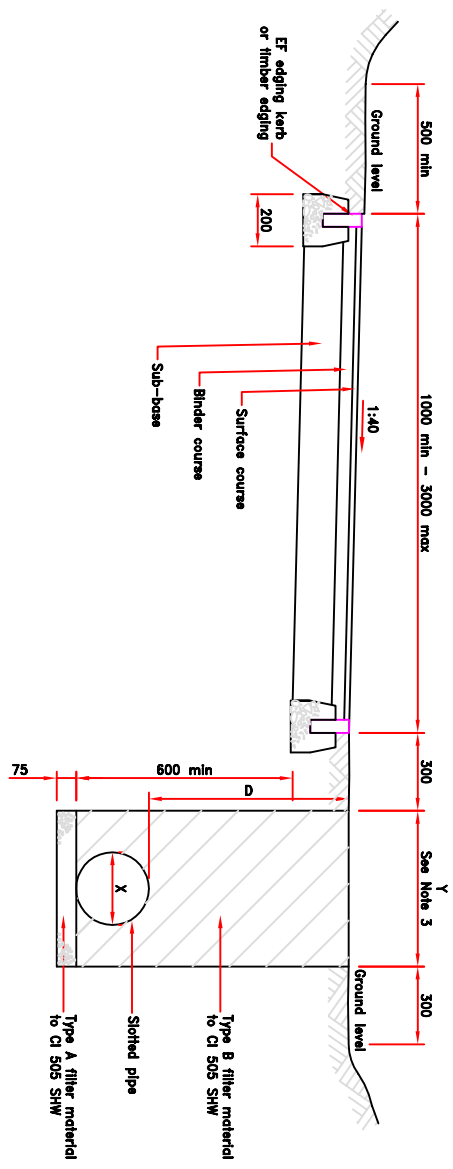
Rev	Date	Notes revised and updated	Checked
A	07/06		JW

Drawing No.	SD/1100/10	Revision	A
Scale	NOT TO SCALE	Date	JULY 06
Drawn	RWJY	Checked	JW
		Approved	JR

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Drawing Number
SD/1100/11

- Notes**
1. All dimensions are in millimetres.
 2. Appropriate drainage should be provided where necessary.
 3. Minimum drain width, Y
Y=X+300 for drains D not exceeding 1500
Y=X+450 for drains D exceeding 1500
 4. See SD/1100/1 & 2 for kerb details.
 5. Formation to be sprayed with approved non-toxic weedkiller.



CONSTRUCTION

Surface course. 25mm close graded material
Binder course. 40mm dense materials to BS 4987
Sub-base. 200mm Type 1 granular material.

Areas with Low Flow only

Surface course. Combined surface course/base course, 50mm Close Graded Materials to BS 4987.
Sub-base. 200mm Type 1 granular material.
OR
Running surface. 20mm limestone, 3mm to dust, Or 75mm Coxwell gravel (30mm fines) or similar.
Sub-base. 150mm Type 1 granular material.

Community Services Directorate
Town Hall, St. Ives Road
Maidenhead, Berks,
SL6 1RF

Tel: 01628 798888
Fax: 01628 796774
http://www.rbwmm.gov.uk



Project
STANDARD DRAWINGS

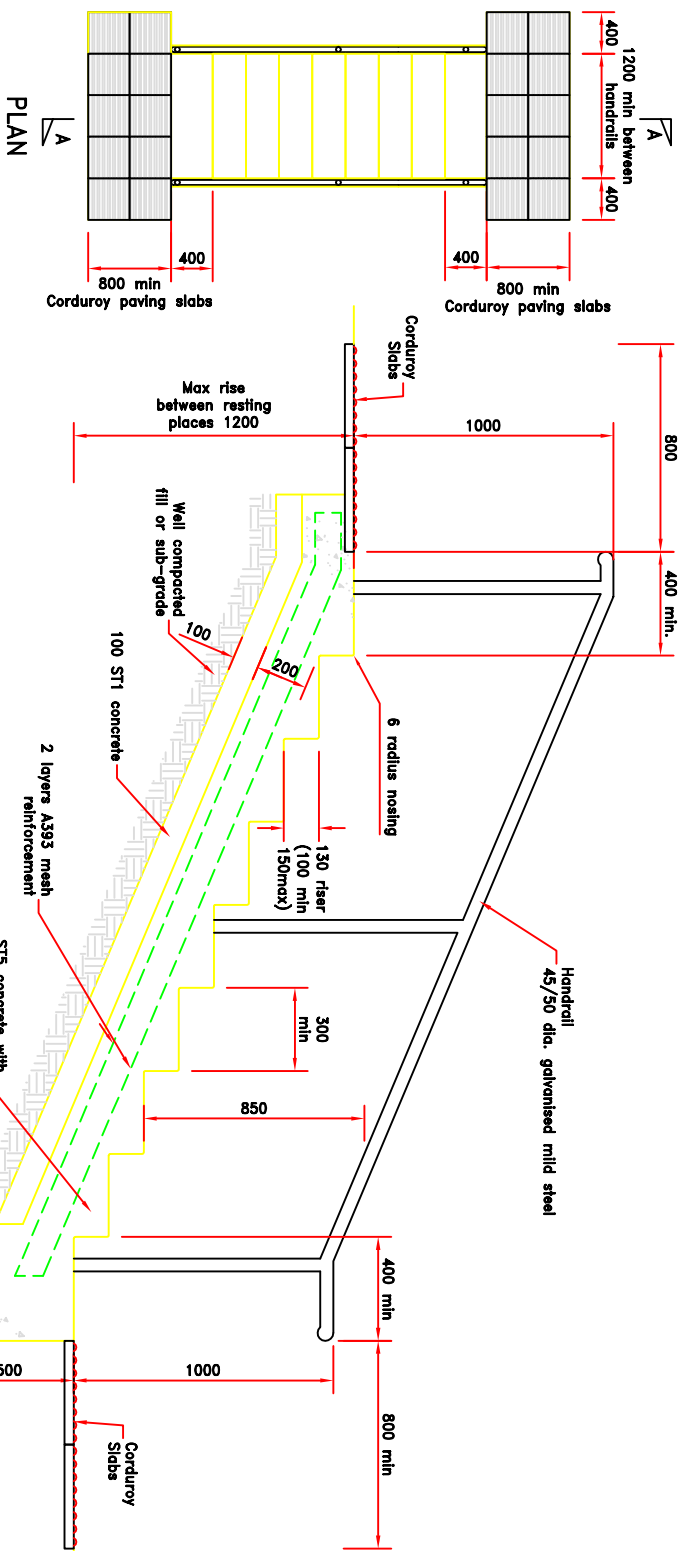
Title
FOOTPATHS AND CYCLEPATHS
RURAL CONSTRUCTION

Do not scale this drawing

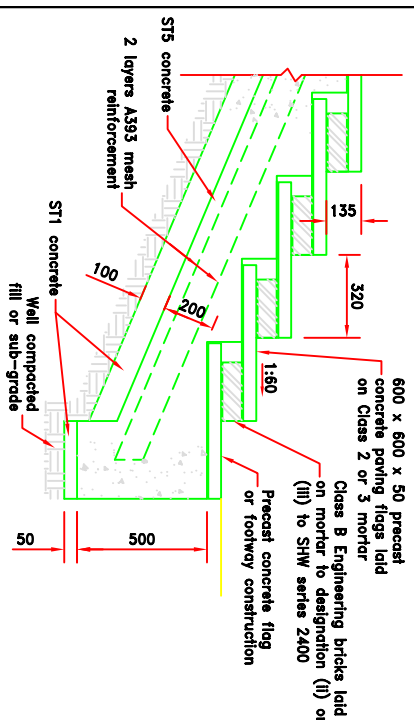
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A	07/06	Notes revised and updated	JW

Drawing No. SD/1100/11	Revision A
Scale NOT TO SCALE	Date JULY 06
Drawn RW/JY	Checked JW
Approved JR	

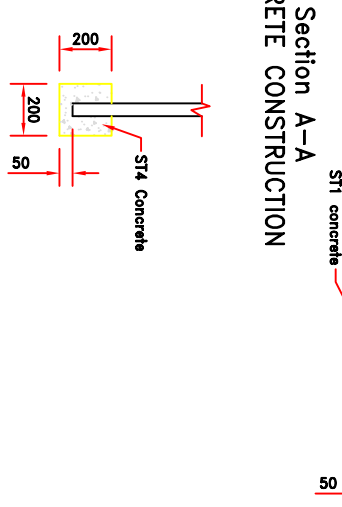
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BRICK AND SLAB CONSTRUCTION



HANDRAIL FOUNDATION DETAIL



Drawing Number
SD/1100/12

Notes

1. All dimensions in millimetres.
2. Reference must be made to Guidance on the use of Tactile Surfaces published by DfT.
3. Steps are not permitted in footways alongside carriageways.
4. Where steps are necessary provision should be made for a complimentary ramp.
5. A gradient steeper than 1:20 constitutes a ramp and max. permissible gradient is 1:12.
6. Width of steps and ramps to be 2000. Minimum 1200 in restricted areas.
7. There must be a minimum of 3 steps in a flight.
8. Level resting places must be provided at intervals of 6000 horizontally in ramps and flights of steps exceeding a rise of 1200.
9. Resting places to be 1800 long 1200 min.
10. Corduroy paving must be laid at all points where steps start and finish.
11. Treads of steps to have a non-slip finish.
12. Noses of treads to be finished with a colour contrasting non-slip strip.
13. Handrails to be provided on both sides of steps and ramps and may be constructed of tubular guardrailing. See SP/400/2.
14. Handrails may be fixed to adjacent walls with 45 clearance.
15. Handrails must be finished with a solid end piece.
16. Handrails must be fixed according to the manufacturers instructions.
17. Ramps shall be constructed to footway specification and surfaced with a non-slip material.
18. Sub-grade must be to the approval of the Engineer.
19. For footway construction see SP/1100/3 and 5.

Do not scale this drawing

Rw	Date	Notes revised and updated	Checked
A	07/06	Notes revised and updated	JWV

Drawing No. SD/1100/12	Revision
Scale NOT TO SCALE	Date JULY 06
Drawn RWJY	Checked JWV
Approved JWR	

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Maidenhead, Berks.
SL6 1RF
Tel: 01628 798888
Fax: 01628 796774
http://www.rbwmt.gov.uk

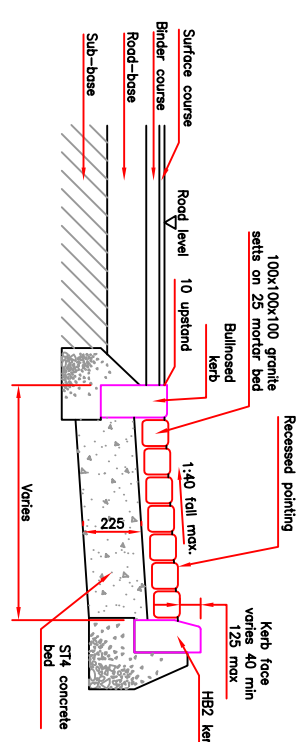
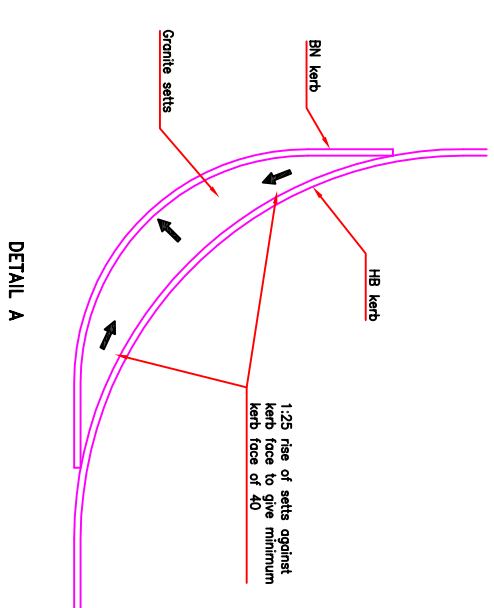
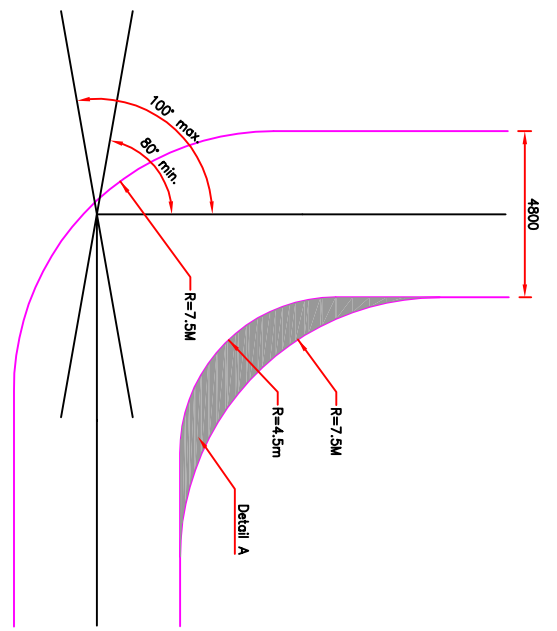


Project
STANDARD DRAWINGS

Title
STEPS AND RAMPS
(Remote from the Carriageway)

Drawing Number
SD/1100/13

- Notes**
1. All dimensions are in millimetres
 2. The layout of Estate roads must have the approval of the Planning and Highway Authorities.
 3. This construction detail may also be used of other speed control features included in the design guide.
 4. For kerbing and road construction details see :-
SD/1100/1 SD/1100/2 SD/1100/3
SD/900/1 SD/900/2



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Rev	Date	Notes revised and updated	JW	Checked
A	07/06	Notes revised and updated	JW	

Drawing No.	Revision
SD/1100/13	A

Scale NOT TO SCALE	Date JULY 06
Drawn RWJY	Checked JW
Checked JW	Approved JR

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Community Services Directorate
Town Hall, St. Ives Road
Maldenhead, Berks,
SL6 1RF

Tel: 01628 798888
Fax: 01628 796774
http://www.dbwm.gov.uk



Project
STANDARD DRAWINGS

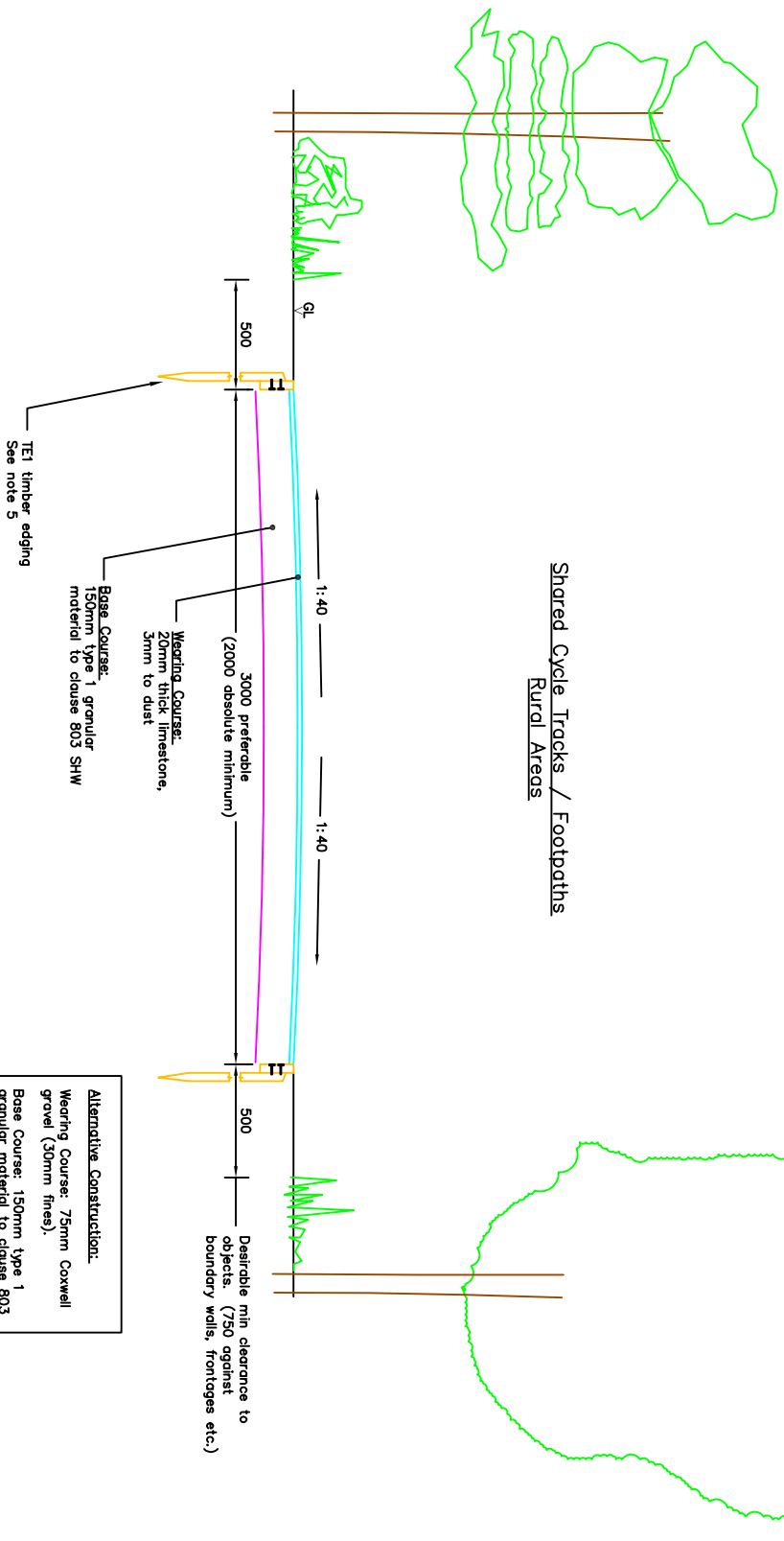
Title
SPEED CONTROL FEATURE

Drawing Number
SD/1100/14

Notes

1. All dimensions are in millimetres.
2. Cycle ways and shared facilities shall be 3000 wide (2000 minimum). A 2000 wide verge must be provided behind footways and cycle ways on embankments.
3. An additional 150 of Type 1 material to be laid if footway or cycle way is on embankment.
4. Footway and highway verges shall normally fall at 1:40. (1:30 max.) towards the highway.
5. Timber edging shall be provided on all free edges of paved areas not confined by a kerb or boundary wall. Edging may be omitted with the approval of the Engineer.
6. Vertical alignment of back edging shall be maintained at crossing points and the crossing graded from edging to carriageway level.
7. Sub-base shall be D.O.T Type 1 material.
8. All soft spots and organic material must be removed before construction.
9. Formation to be sprayed with approved non-toxic weedkiller.
10. 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
11. Existing verges adjacent to new paving must be regraded and seeded.

Shared Cycle Tracks / Footpaths
Rural Areas



Alternative Construction:
Wearing Course: 75mm Coxwell gravel (30mm fines).
Base Course: 150mm Type 1 granular material to clause 803 SHW

Community Services Directorate
Town Hall, St. Ives Road
Maldenhead, Berks,
SL6 1RF

Tel: 01628 798888
Fax: 01628 796774
http://www.rbwmt.gov.uk



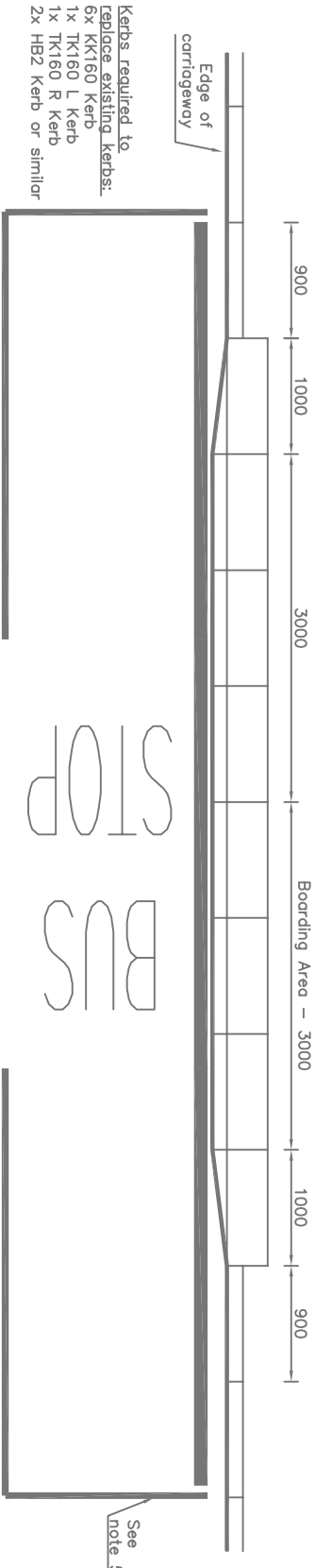
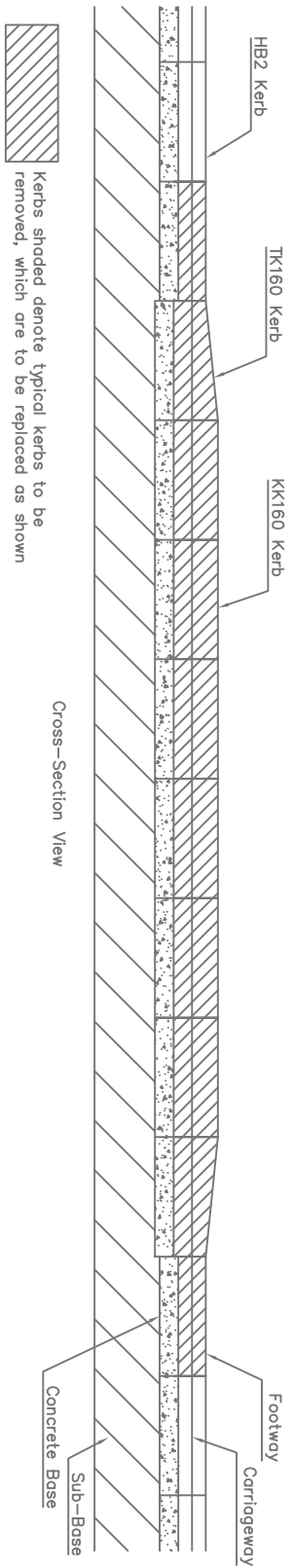
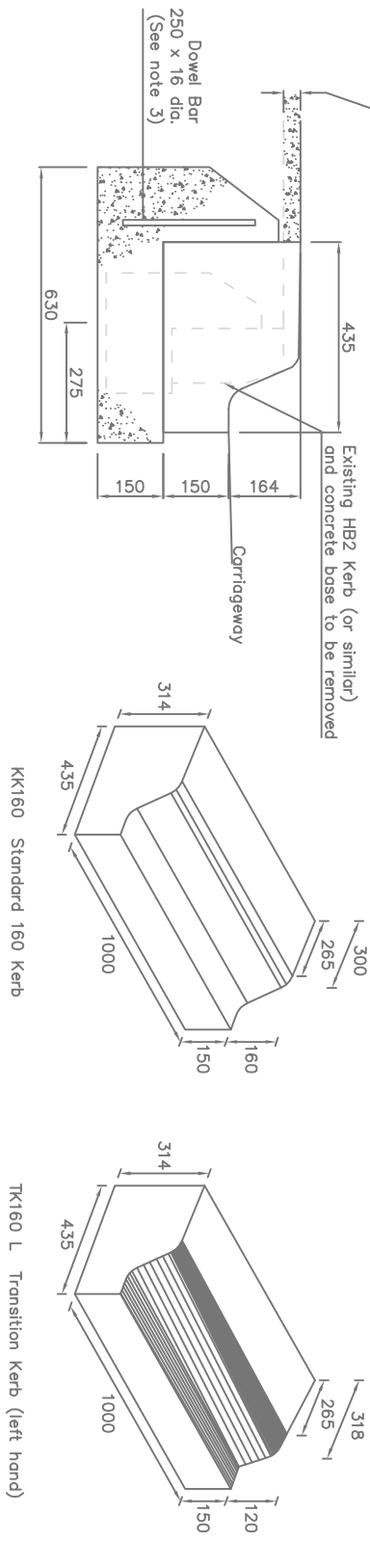
Project: STANDARD DRAWINGS
Title: SHARED CYCLE TRACKS / FOOTPATHS
RURAL AREAS

Drawing No.	Revision
SD/1100/14	
NOT TO SCALE	

Drawn	Checked	Approved	Date
JW	JR	JR	JULY 06

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Footway to be built up by c.39mm and existing crossfall to be maintained (See note 4)



Kerbs required to replace existing kerbs:
 6x KK160 Kerb
 1x TK160 L Kerb
 1x TK160 R Kerb
 2x HB2 Kerb or similar

Community Services Directorate
 Town Hall, St. Ives Road
 Maidenhead, Berks,
 SL6 1RF
 Tel: 01628 798888
 Fax: 01628 796774
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ST
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 BR
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Project	STANDARD DRAWINGS
Title	BUS STOP KERB DETAIL

Drawing Number
SD1100-15-A

Notes

- All dimensions in millimetres unless otherwise stated
- Kerbs manufactured in accordance with BS7263
- Dowel bars may be required in backing to kerbs in circumstances where the kerbs are vulnerable
- Footway and highway verges shall normally fall at 1:40 (1:30 max) towards the highway
- Bus Stop markings are shown for indicative purposes only
- Macadam shall comply with BS4987, Sub-base shall be D.O.T Type 1 material
- All in situ concrete to foundation and haunch to be ST4 concrete
- Kerb foundation to be laid on rolled sub-base of minimum thickness 100mm
- The kerb bed and backing shall normally be laid in one operation
- The kerb shall be laid with dry joints and closely butted to adjacent kerbs and channels of the appropriate radii shall be used
- Cutting of kerbs and channels shall be by approved mechanical means
- The length of any kerb or channel shall not be less than 300
- Materials to be used for adjustments to footway to match existing construction

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Rev	Date	Checked

Drawing No.	SD1100-15-A
Revision	

Drawn	Checked	Date
RSG	RB	SEP 07

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