


VEHICLE CROSSING CONSTRUCTION

WEARING COURSE - 25mm of 6mm nominal DBM Clause 9.4
BASE COURSE - 100mm of 20mm nominal DBM Clause 9.1
SUB BASE - 150mm of Type 1 material Clause 8.1

Where CBR less than 2% an approved Geosynthetic layer to Clause 6.7 will be required

FLEXIBLE CONSTRUCTION (CONSTRUCTION CHART 1):

WEARING COURSE - 40mm of Close Graded Wearing Course to Clause 7.3. To be compacted in accordace with Clause 7.2 to a void content within the range 2% - 10%. The Wearing Course must be bonded to the Basecourse.

BASECOURSE - 110mm of 20mm size Dense Basecourse to Clause 9.1, compacted to clause 7.2 to a void content within the range 2%-8%.

SUB-BASE - Type 1 Sub-Base to conform with Clause 8.1. Depth of Sub-Base depends upon CBR results - see Chart 1.

Thickness 630mm assuming 1.5% CBR.
For thickness if CBR's are greater than 1.5% see Construction Chart 1 of L.C.C.Specification 1999.
For CBR's less than 1.5% see specialists details.
Approved geotextile if used

C.B.R. Tests to be taken to establish depth of Sub-Base as Construction Chart 1.

FOOTWAY CONSTRUCTION

WEARING COURSE - 25mm of 6mm size Dense Wearing Course to Clause 9.4, compacted to a void content within the range 2%-10%.

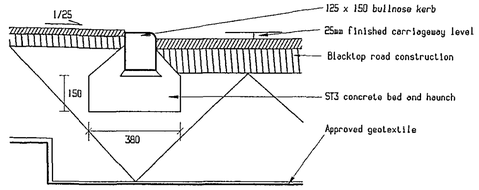
The Wearing Course must be bonded to the Basecourse.

BASECOURSE - 50mm of 20mm size Dense Basecourse to Clause 9.1, compacted to a void content within the range 2%-10%.

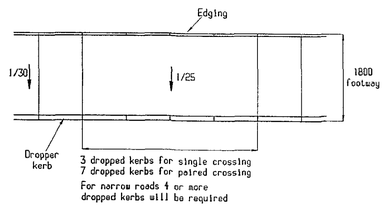
SUB-BASE - 100mm Type 1 Sub-Base to Clause 1.2.

NOTE:
C.B.R.test results from a U.K.A.S. accredited laboratory & construction depths must be approved by the Highway Authority prior to commencement of any works on site.

Carriageway Construction Details

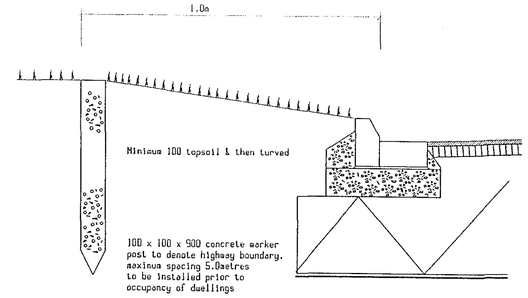



Section

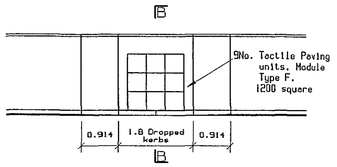



PLAN

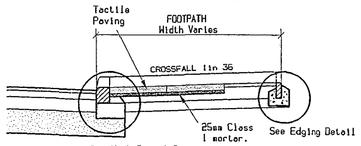
Vehicle Crossing (D.B.M.)




Verge Detail

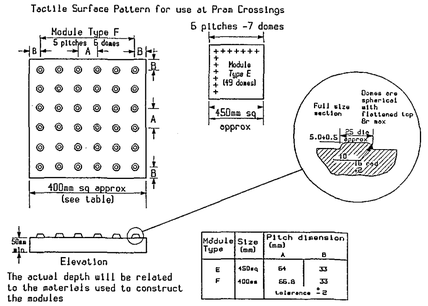



FOOTPATH CONSTRUCTION :- As footway detail except that tactile paving set into 50mm lean concrete under 25mm Class 1 mortar.




Section B-B

Tactile Surface Pattern for use at Pram Crossings




The actual depth will be related to the materials used to construct the modules

| Module Type | Size (mm) | Pitch dimension (mm) A | B |
|---|---|---|---|
| E | 450sq | 64 | 33 |
| F | 400sq | 66.6 tolerance | 33 ± 2 |

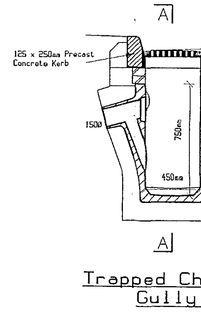
NOTES 1) Colour Buff

NOTES:

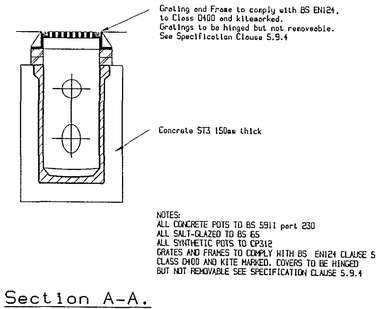
1) Layout indicative only. Tactile paving shall be set out and laid in accordance with DETR 'Guidance on the use of Tactile Paving Surfaces' November 1998.

2) Paving shall be cut as necessary to kerb radius if required.

Pram Crossing Details




Trapped Channel Gully.

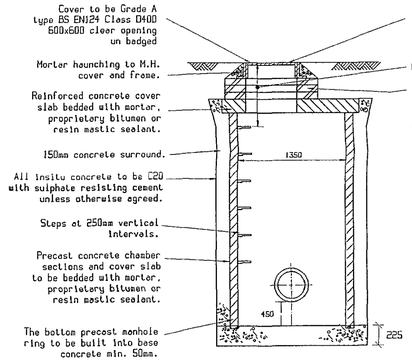


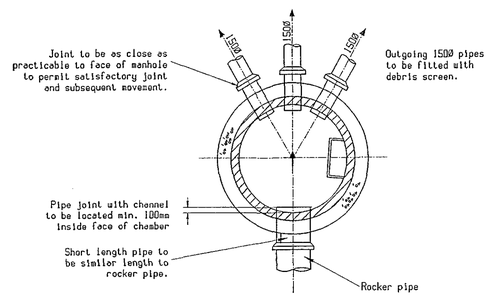

Section A-A.

NOTES:
ALL CONCRETE POTS TO BS 5911 part 230
ALL SALT-GLAZED TO BS 65
ALL SYNTHETIC POTS TO CP312
GRATES AND FRAMES TO COMPLY WITH BS EN124 CLAUSE 5 CLASS D400 AND KITE MARKED. COVERS TO BE HINGED BUT NOT REMOVABLE SEE SPECIFICATION CLAUSE 5.9.4

Typical Channel Gully Details

HIGHWAY DRAINAGE CATCHPIT MANHOLE

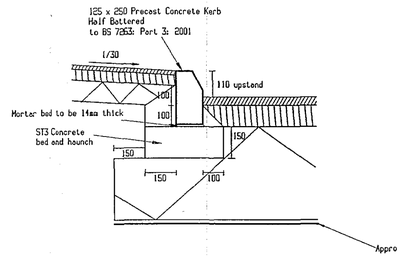



CONSTRUCTION CHART 1 NORMAL FLEXIBLE CONSTRUCTION (For roads up to 0.25 m.s.e.)

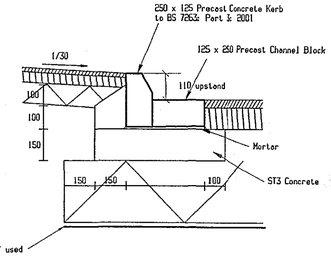
| SUB-GRADE | SUB-BASE (mm) | | SURFACING (mm) | | TOTAL THICKNESS REQUIRED (mm) | |
|---|---|---|---|---|---|---|
| Bearing Capacity (CBR) | When sub-grade is classified as frost susceptible | When sub-grade is classified as non frost susceptible | Basecourse Note 4 | Wearing Course | When sub-grade is classified as frost susceptible | When sub-grade is classified as non frost susceptible |
| Below 1.5% & soft spots | Note 2 | Note 2 | 110 | 40 | Note 2 | Note 2 |
| 1.5% | 630 Note 3 | 630 Note 3 | 110 | 40 | 780 Note 3 | 780 Note 3 |
| 2% | 400 | 400 | 110 | 40 | 550 | 550 |
| 3% | 310 | 310 | 110 | 40 | 460 | 460 |
| 4% | 300 | 260 | 110 | 40 | 450 | 410 |
| 5% | 300 | 225 | 110 | 40 | 450 | 375 |
| 6-15% | 300 | 200 | 110 | 40 | 450 | 350 |
| Above 15% | 300 | 150 | 110 | 40 | 450 | 300 |

Note 1 See Clause 1.1.7
Note 2 See Clause 1.1.6
Note 3 Assumes no improvement is possible using either a sub-soil drainage technique or a geosynthetic. 630mm to 330mm Granular Fill to Clause 6.8 and 300mm Type 1 Sub-Base.
Note 4 Regular laid in one layer.



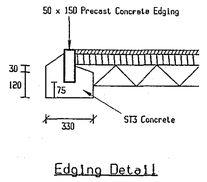

Carriageway and Kerb Detail - up to 5.5m road width (Construction Chart 1)

Kerb Detail 1

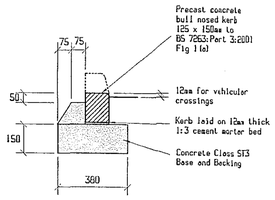



Channel Block Detail (required where gradient < 1 in 150)

Channel blocks will be provided where the carriageway longitudinal gradient is less than 1 in 150 & the channel blocks will need to be laid to 'false falls' where the longitudinal gradient is less than 1 in 250




Edging Detail




Kerb Detail 2
At vehicular crossings

NOTE FOR ALL WORKS:

The Specification shall be in all respects the County Council's 'Development Road Specification and Construction 1999', published by Lincolnshire County Council

| Rev. No. | REVISION | Date | Drawn By | Checks By |
|---|---|---|---|---|
| | | | | |

Written dimensions to be taken. Do not scale off the drawing.
Any discrepancies, written or scaled, should be brought to the attention of the engineer immediately.
This drawing to be read in conjunction with the relevent Bills of Quantities and Local Authority Specification.
CDM NOTE: The design has been undertaken as far as possible to avoid risks to health and safety or to reduce and control the effects of any unavoidable risks.
All relevent information identifying the unavoidable risks has been passed to the planning supervisor for inclusion in the Health & Safety plan.
The Health & Safety plan will be issued by the planning supervisor with these drawings.

WORMALD, BURROWS PARTNERSHIP
Civil Engineering Consultants
12a & 14a Hitchin Street, Biggleswade, Beds SG18 8AX, U.K.
Tel 01767 317244
Fax 315434

Project
Proposed Development at:
Bridge Road, Sutton Bridge, Lincolnshire.

Drawing Description
Standard Road Details Superseded

Client
Allison Homes Eastern Ltd
West Elloe Avenue
Spalding
Lincs
PE11 2BS

Drawing Number
E1332/4

Drawn By AJMB
Date Aug'03

Scale NTS

Checked By WD

Architect

31 OCT 2003
R 1322/03