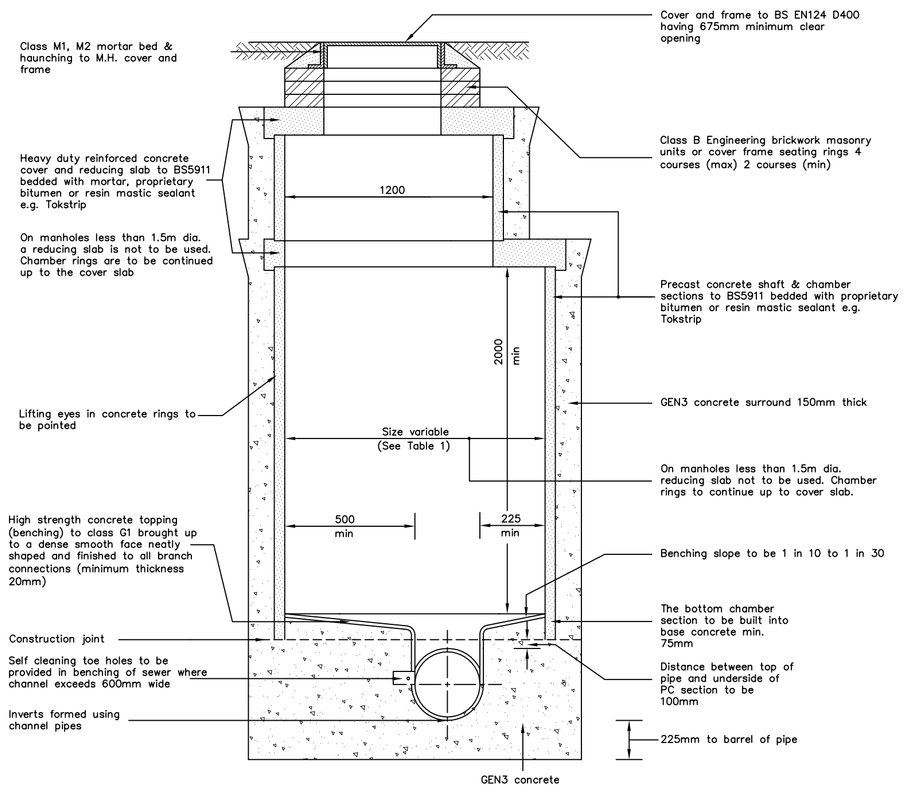
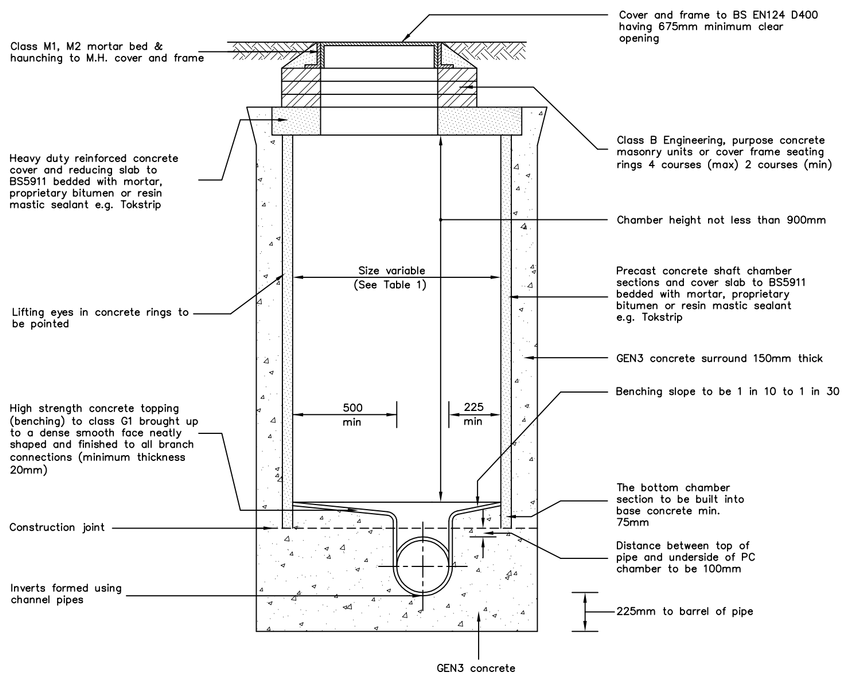
TYPICAL MANHOLE DETAIL– TYPE A

Depth to soffit 3 to 6m Scale: 1/25



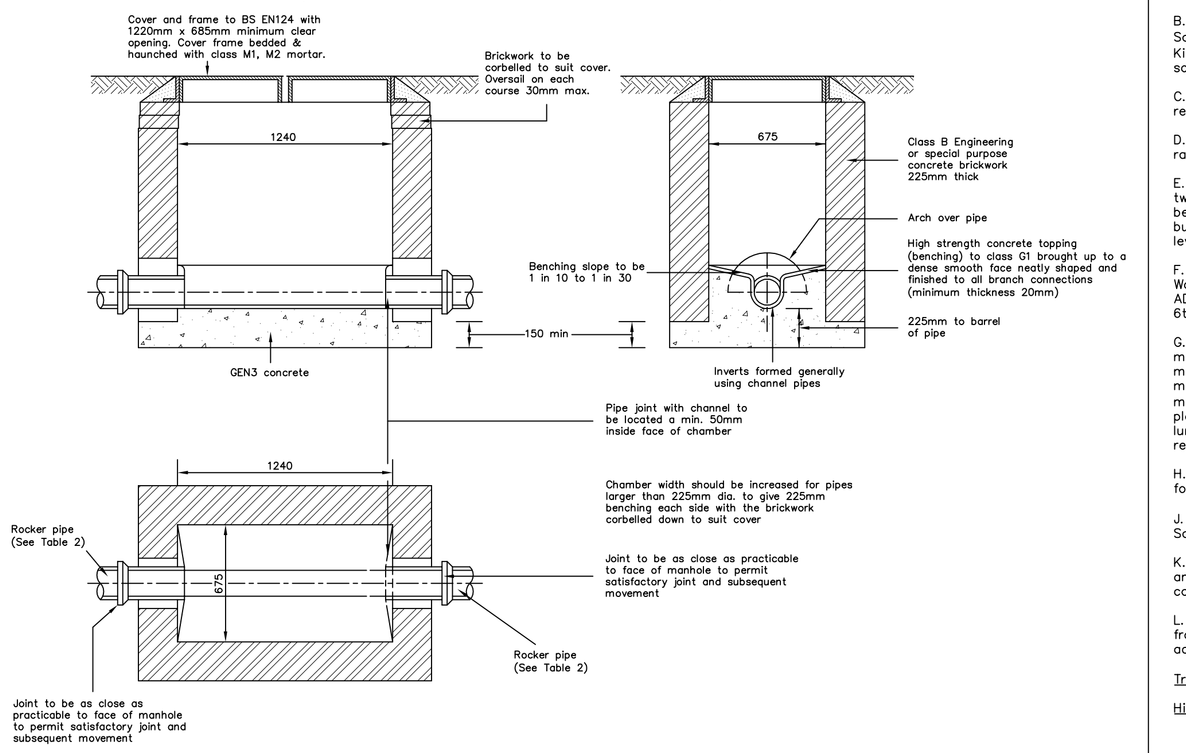
TYPICAL MANHOLE DETAIL– TYPE B

Max. depth to soffit 3m Scale: 1/25



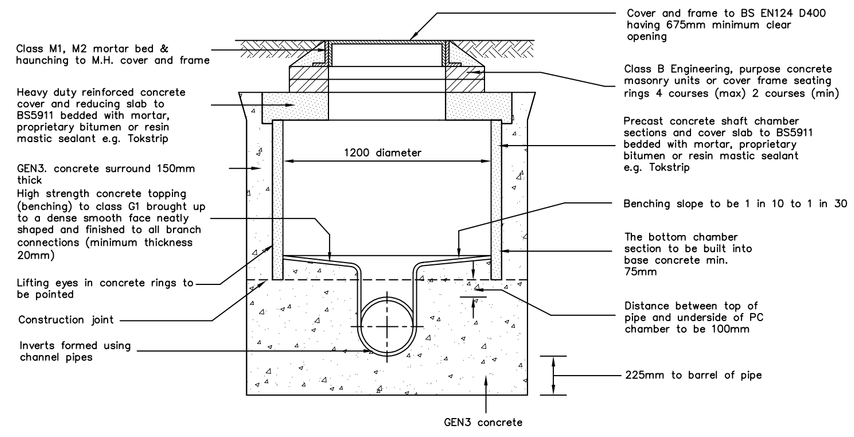
TYPICAL MANHOLE DETAIL– TYPE C

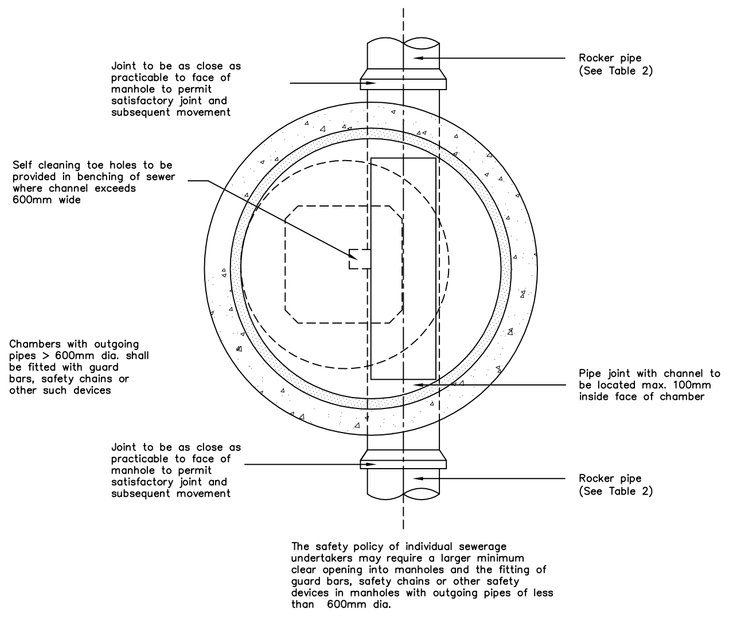
Depth to soffit 1.00 to 1.45m Scale: 1/25

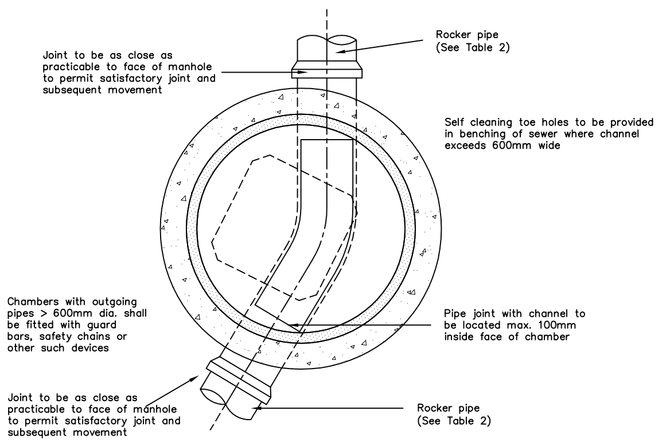


TYPICAL MANHOLE DETAIL– TYPE E

Depth from cover level to soffit pipe 1.0m to 1.5m Scale: 1/25
Maximum sewer diameter 375mm

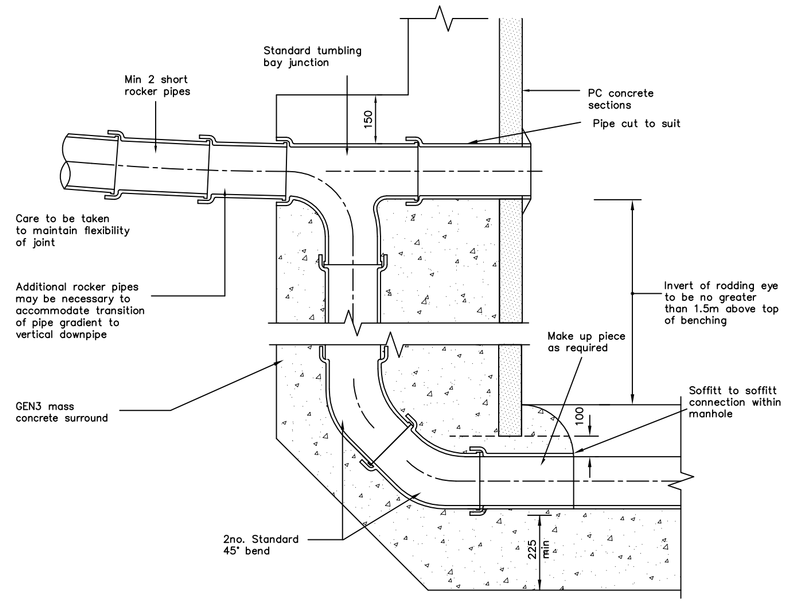




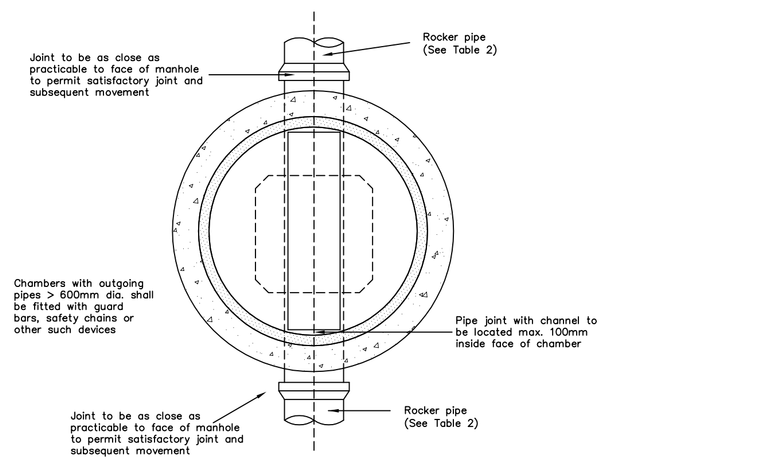


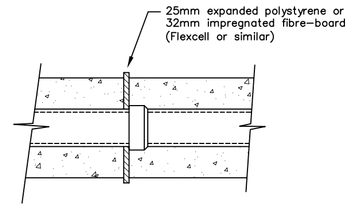
TYPICAL BACKDROP DETAIL

NOTE: Steeper gradients are preferred to the use of backdrops



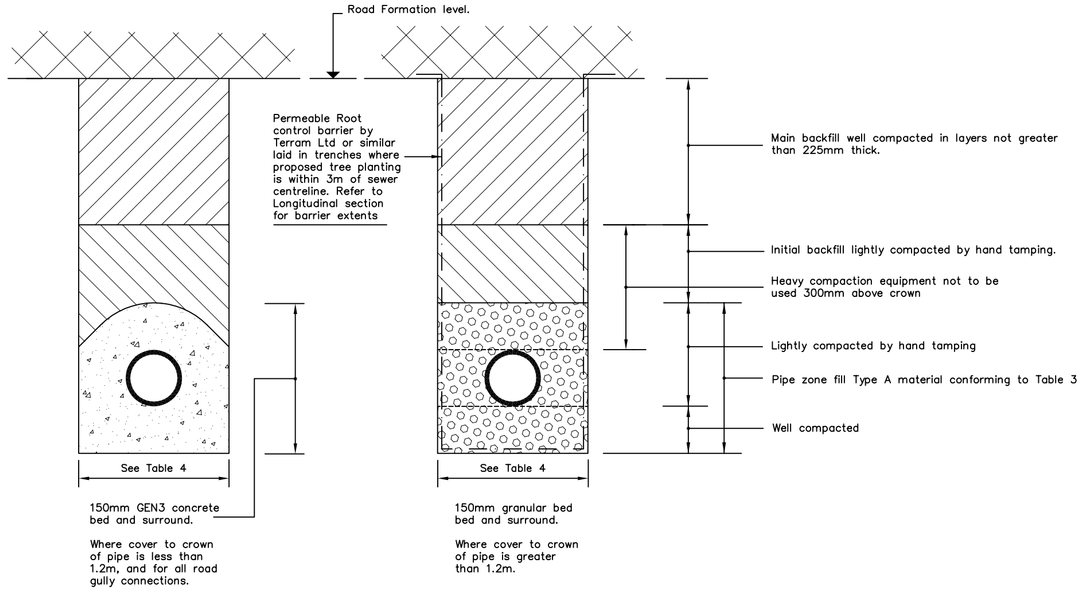
EASY BACKDROP





FLEXIBLE JOINT IN CONCRETE BED AND SURROUND.

PIPE BEDDING & BACKFILL IN HIGHWAYS DETAIL



CLASS A
concrete bed & surround

CLASS S
granular bed & surround

Table 1

Dia. of largest pipe in manhole.	Chamber section diameter.
Less than 375mm 375 – 700 750 – 900	1200 (1050 where depth to soffit is 1.35m – 1.5m) 1500 1800

NB. The above sizes are minimums. If two pipes enter the manhole, the chamber size must be sufficient to accommodate adequate benching. All pipes built into the manhole invert should be installed with soffits level.

NOTE:

All exposed internal surfaces of FOUL manholes are to be built using sulphate resisting cement to prevent damage due to septicity to comply with BRE Digest 363, Class 4.

Table 2

Pipe Dia.	Rocker Pipe Length
150–600	0.60m
675–750	1.00m
825 and over	1.25m

Table 4

TRENCH WIDTHS	
Pipe Dia. (mm)	Trench Width max. (mm)
150–300	600
375–450	750
525–675	975

Table 3

Type A material	
Granular bedding and sidefill materials for flexible pipes	
Pipe Dia. (mm)	Grading
150	10 or 14 single size or 14 to 5mm graded
225 300	10, 14 or 20mm single size or 14 to 5mm graded or 20 to 5mm graded
375 450 525 600	14 or 20mm single size or 14 to 5mm graded or 20 to 5mm graded
Greater than 600	14, 20 or 40mm single size or 14 to 5mm graded or 20 to 5mm graded or 40 to 5mm graded

GENERAL NOTES

A. Manholes with an incoming sewer of 900mm dia. and greater shall be approved by the appropriate Council/Undertaker.

B. All materials shall comply to the BSI Kitemark Certification Scheme and shall be marked with the BSI trade mark (the Kitemark), and/or the containers of such materials are to be so marked.

C. All manhole covers are to exclude FW and SW Badge references.

D. All manhole cover keyholes are to be filled with a greased rag.

E. The manhole chamber sizes quoted are the minimum. If two or more pipes enter the manhole, the chamber size must be sufficient to accomodate adequate benching. All pipes built into the manhole invert should be installed with soffits level.

F. All details on this drawing are to comply with the National Water Authorities Association publication: SEWERS FOR ADOPTION– A Design and Construction Guide for Developers, 6th Edition.

G. Type B material shall be selected excavated or imported material and shall consist of uniform, readily compacted material, free from vegetable matter, building rubbish, materials of excessively high moisture content and frozen material. Clay having a liquid limit greater than 80 and/or plastic limit greater than 55 shall not be acceptable. Clay lumps and stones retained on 75mm and 37.5mm sieves respectively shall be excluded from the fill material.

H. Branch bends to be curved in the direction of flow, e.g. for 90° connections use 45° slippers.

J. The design of manholes shall comply with the Undertaker's Safety Policy.

K. Where two manholes are sited adjacent to each other care and consideration should be taken to ensure adequate compaction is achieved around and between the manholes.

L. Where a cover is located in an area of block paving the frame shall be 150mm deep. Infill type covers are not acceptable.

Trench Backfill

Highway Areas:– Imported clean well graded granular material such as Type 1 of capping material 6F1.

Landscape Areas:– As dug material (See Note G above)

Rev	Date	Details	By
A	27.04.12	Note C amended, Note L added.	SY

Drainage Authority Approval Date

Highway Authority Approval Date

Do not scale from this drawing. Use written dimensions only. When shown relationships between slab levels and ground levels are to be checked on site. Any discrepancy or suggested modification to be reported to Design and Engineering Director.
Note : This drawing is the copyright of Bovis Homes Ltd.

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SITE
HAMPTON PARK
LITTLEHAMPTON, WEST SUSSEX

DRAWING TITLE
TYPICAL SEWER DETAILS
SOUTHERN WATER AREAS

DRAWN BY	DATE	DRAWING NO.	REV
CAD	OCTOBER 2011	LITL-505	A
SCALE: As Shown	CHECKED/DATE		

ARUN DISTRICT COUNCIL LICENSING