

600

SIZE AS TABLE BELOW

Cover slab with 600x600 access (BS752-3)

with 600 x 600 eccentric access hole

10mm uncompressed thickness of

cover slab to be bedded with mortar,

- <del>'-- -- -- -- -- -- -- -- -- -- --</del> --

150 MIN

**CONCRETE PROTECTION** 

150

to BS EN 1917 and BS5911-3

approved sealent to all horizonal joints

Precast concrete chamber sections and

plastometric or elastomeric seal conforming

with max. 4 courses Class B Engineering Brick

to BS.EN124 D400, bedded on class

M1, M2 or epoxy mortar. Cover to

badged FW or SW as appropriate.

Class M1, M2 or epoxy mortar

Heavy duty reinforced concrete

Lifting eyes in concrete rings to

Ladder fixing brackets (3 No. Min) at 2m

max. centres or as required. All fixing

reducing slab to BS.5911

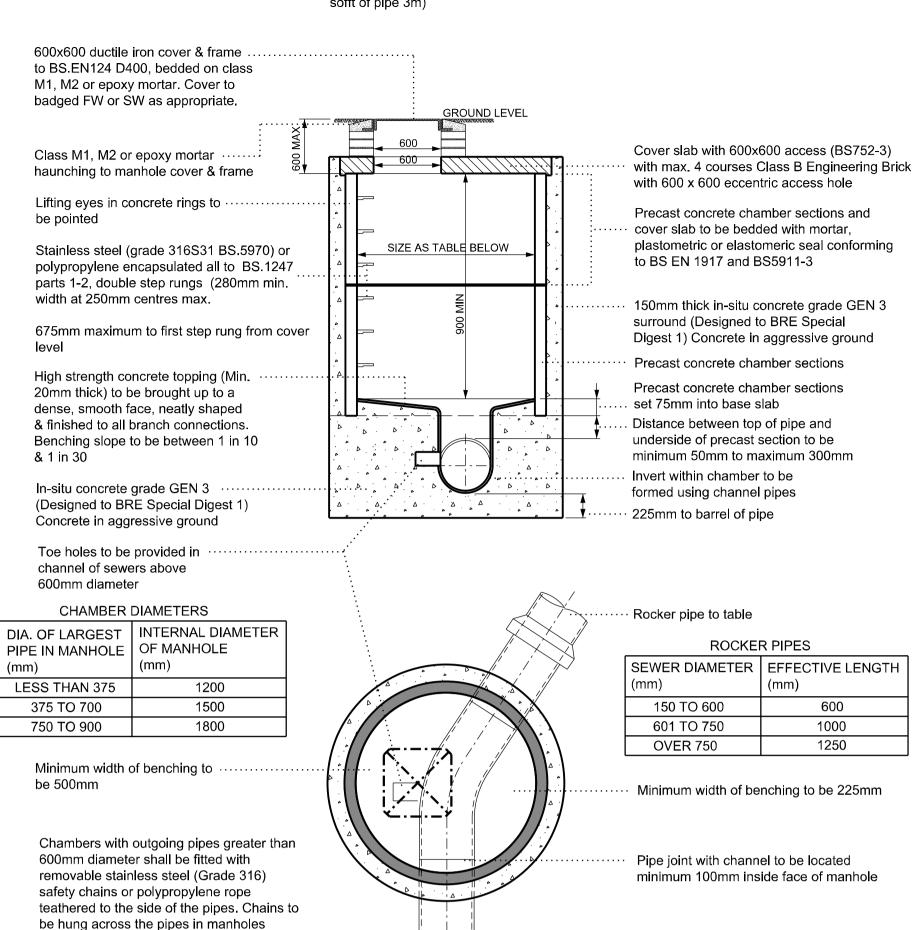
haunching to manhole cover

& frame

be pointed

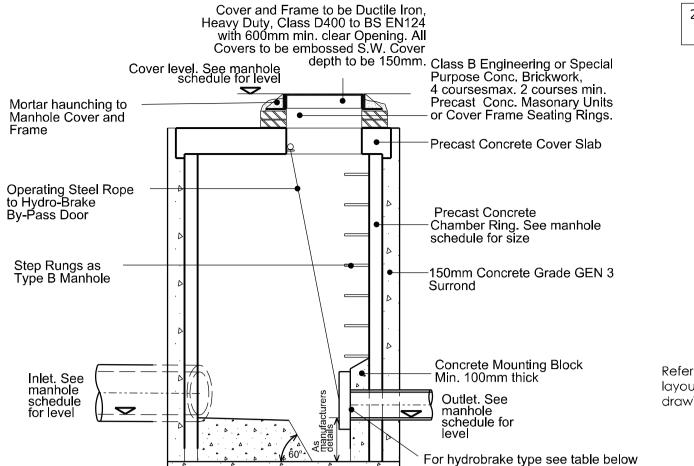
## **TYPICAL MANHOLE DETAIL TYPE 2**

## (Maximum depth from cover level to sofft of pipe 3m)



## TYPICAL FLOW CONTROL CHAMBER DETAIL

INDIVIDUAL FLOW CONTROL CHAMBER DETAILS SUBJECT TO STRUCTURAL ENGINEERS DESIGNS.



SECTION As manufacturers details

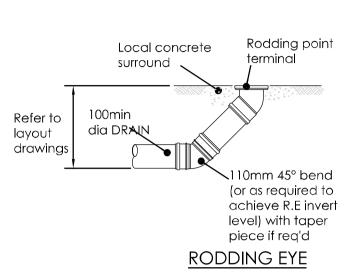
300mm Concrete

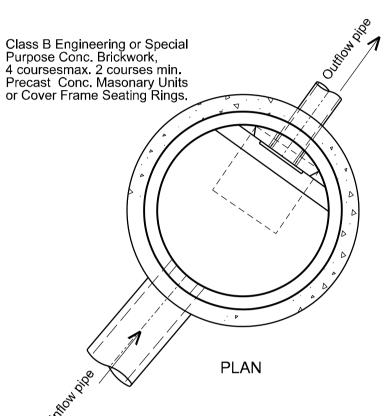
1. Contractors must check all dimensions on site. Only figured dimensions are to be worked from. Discrepancies must be reported to the Architect or Engineer before proceeding. ©

Notes

This drawing is copyright 2. All works to be undertaken in accordance with Sewers for Adoption 7th Edition

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT AUTHORITIES, ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING GIVEN IT IS ENTIRELY AT HIS OWN RISK.





Manhole	Hydrobrake	Design	Permitted flow	Hydrobrake
Ref	type	head		size
S22	"Optimum"	1.5m	31.4 l/s	Refer to manufacturer
S27	"Optimum"	1.0m	50.0 l/s	Refer to manufacturer
S39	MD6	1.0m	30.0 l/s	215mm

INDIVIDUAL WEIR WALLS AND COVER SLABS SUBJECT TO DESIGN BY STRUCTURAL ENGINEER

Backfilling under roads and paving: Backfill from top of granular bedding up to formation level with Granular Subbase Material Type 1 to Highways Agency specification for Highway Works 1998 Clause 803, laid and compacted in 150mm layers.

underside of topsoil with selected Class 1B material. Class 1B fill whether selected from locally excavated material or imported, shall consist of uniform readily compactible material, free from vegetable matter, building rubbish and frozen material, or materials susceptible to spontaneous combustion, and excluding clay of liquid limit greater than 80 and/or plastic limit greater than 55 and materials of excessively high moisture content. Clay lumps and stones retained on 75mm and 37.5mm sieves respectively shall be excluded from the fill material. Laid and compacted in layers not exceeding 300mm.

3. Do not use heavy compactors before there is 600mm of material over pipe.

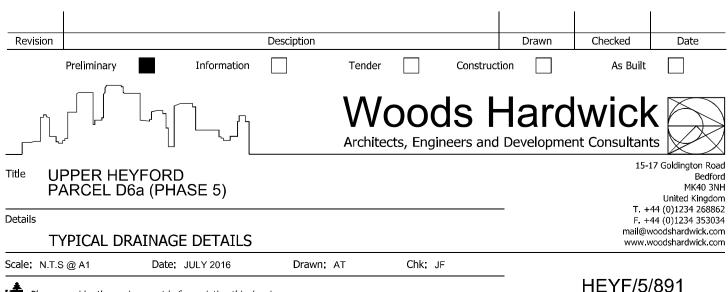
Table - Granular bedding and sidefill materials for rigid pipes Maximum Maximum CF value Nominal Particle Imported granular materials Bore (DN) | Size (mm) | Bedding | (Note a) for as-dug granular material (Note b) 0.30 (Note c) 10mm nominal single- size 100 Course, Medjum or fine sand Over 0.30 (Note c) 100 14mm to 5mm graded to 150 Coarse, medium or fine sand Over 14mm to 5mm graded 0.30 (Note c) or 20mm to 5mm graded 150 All in aggregate or coarse medium 500 or fine sand 14mm to 5mm graded Over 0.30 (Note c) or 20mm to 5mm graded 500 or 40mm to 5mm graded (Note d) All in aggregate or coarse medium or fine sand

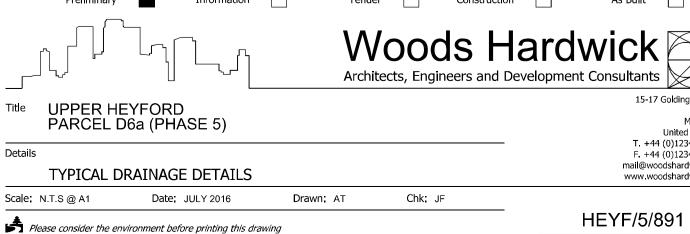
(a) Imported granular materials to include aggregates to BS 882, air- cooled blast furnace slag to BS 1047 and sintered pulverized- fuel ash to BS 3797

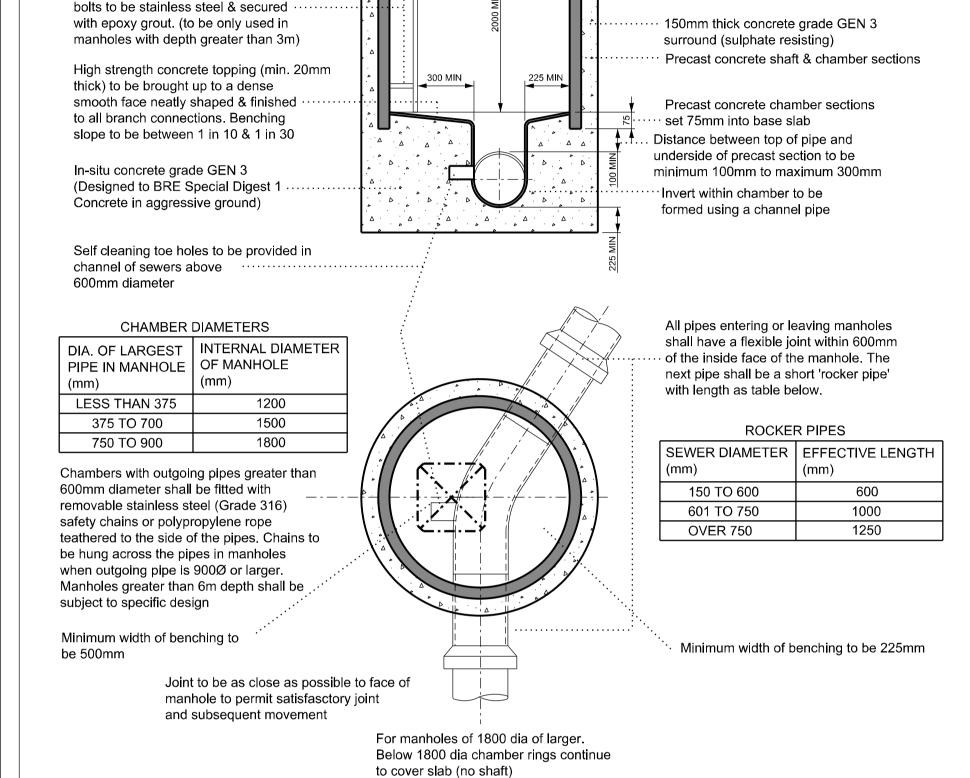
Compaction fraction value, See Appendix A The higher the CF value for as dug bedding and sidefill materials the greater the required

effort for adequate compaction.

(d) Angular materials should be chosen to ensure sufficient support is provided to these heavier pipes. Crushed rock aggregates to BS 882 are recommended. Air- cooled blast furnace slag to BS 3797 or other granular materials may be used if they show a similar degree of angularity







For backfill under roads & paving, see note 1

450mm

150mm

150mm

**CLASS S BEDDING DETAIL** 

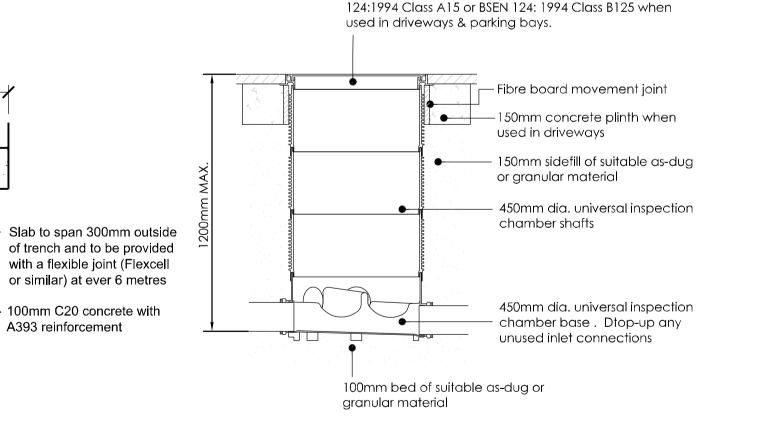
(see Note 3)

Granular bedding and surround

carefully compacted (See table

for permissible gradings)

Landscape areas, see note 2



450mm dia. ductile iron cover and frame to BSEN

when outgoing pipe is 900Ø or larger



For use in soft areas, driveways and parking bays only

material Short radius bend(s) to suit level of main drain — 45° Junction on main drainage run 22.0m MAX. 100mm bed of suitable as-dug or **FOUNDATIONS** granular material

## SHALLOW INSPECTION CHAMBER

250mm Dia. sealed cover

150mm Concrete plinth

when used in driveways

250mm dia. shallow

inspection chamber

— 150mm sidefill of suitable

as-dug or granular

(stop-up any unused inlets)

and frame to bsen

— 124:1994 Class A15

For use in soft areas & driveways only

Joint to be as close as possible to face

of manhole to permit satisfactory joint

600mm

MAX

and subsequent movement