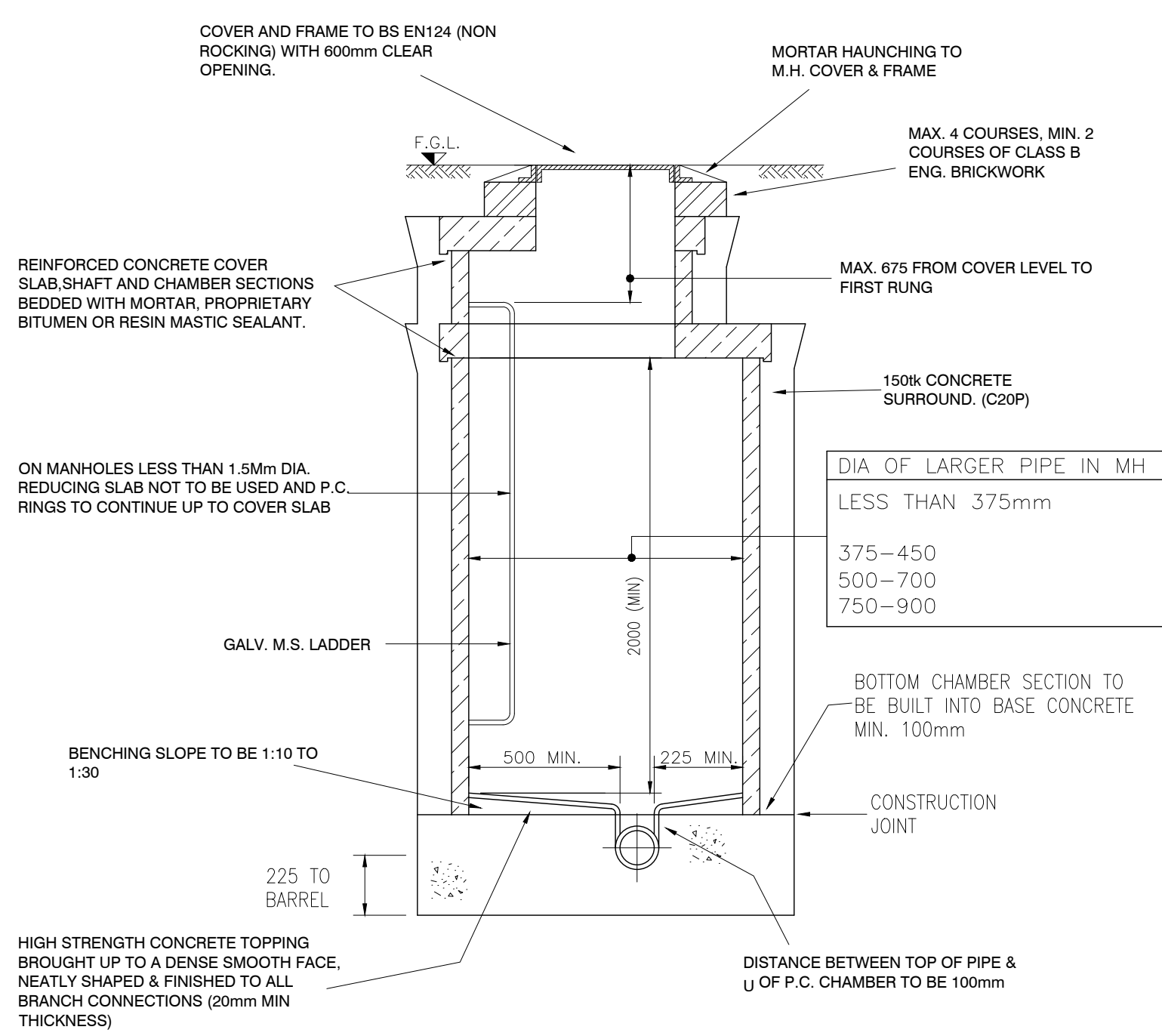
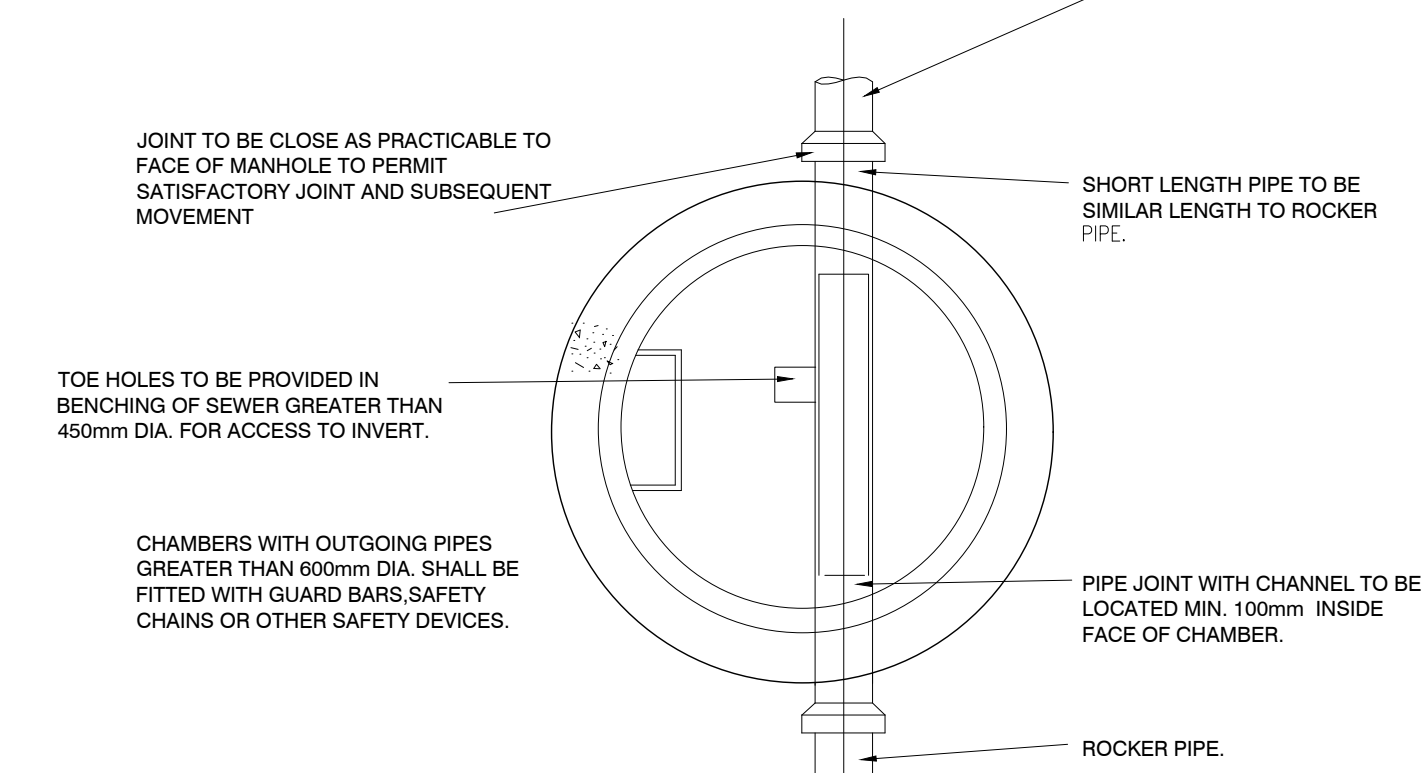
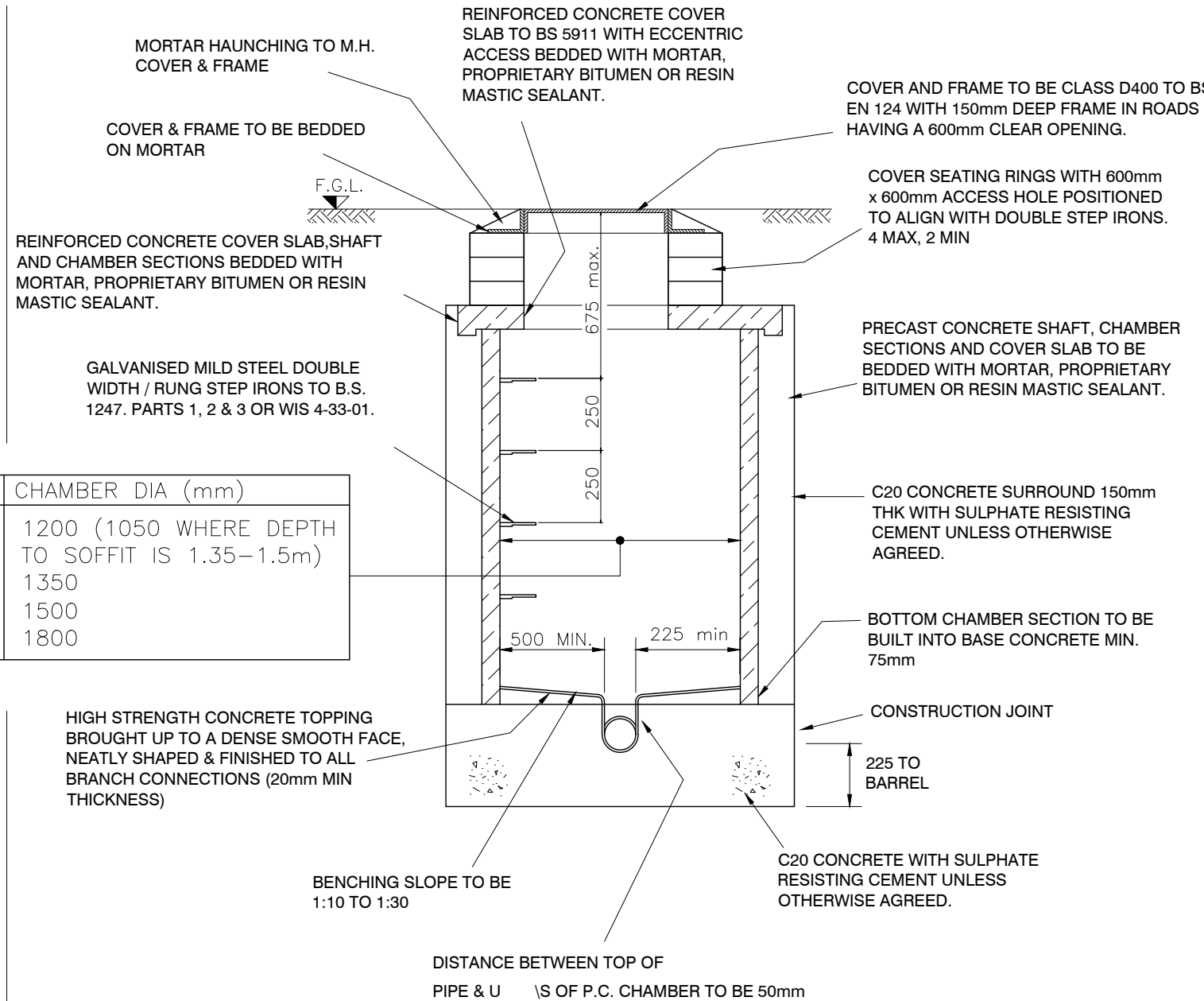




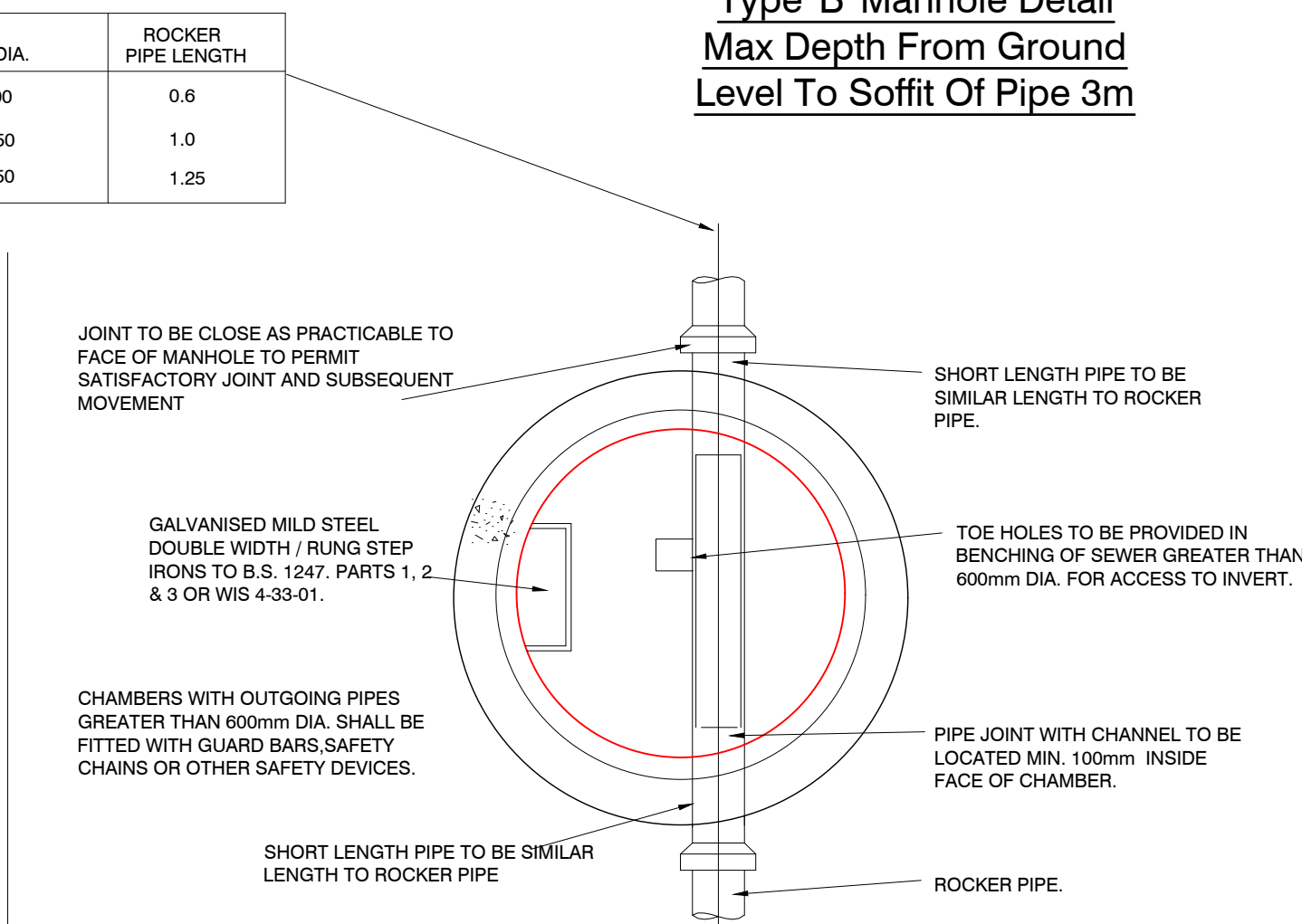
Type 'A' Manhole Detail
Depth From Ground Level
To Soffit Of Pipe 3m to 6m



Plan
Manhole Type 'A'



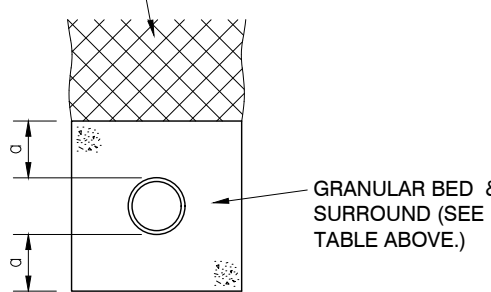
Type 'B' Manhole Detail
Max Depth From Ground
Level To Soffit Of Pipe 3m



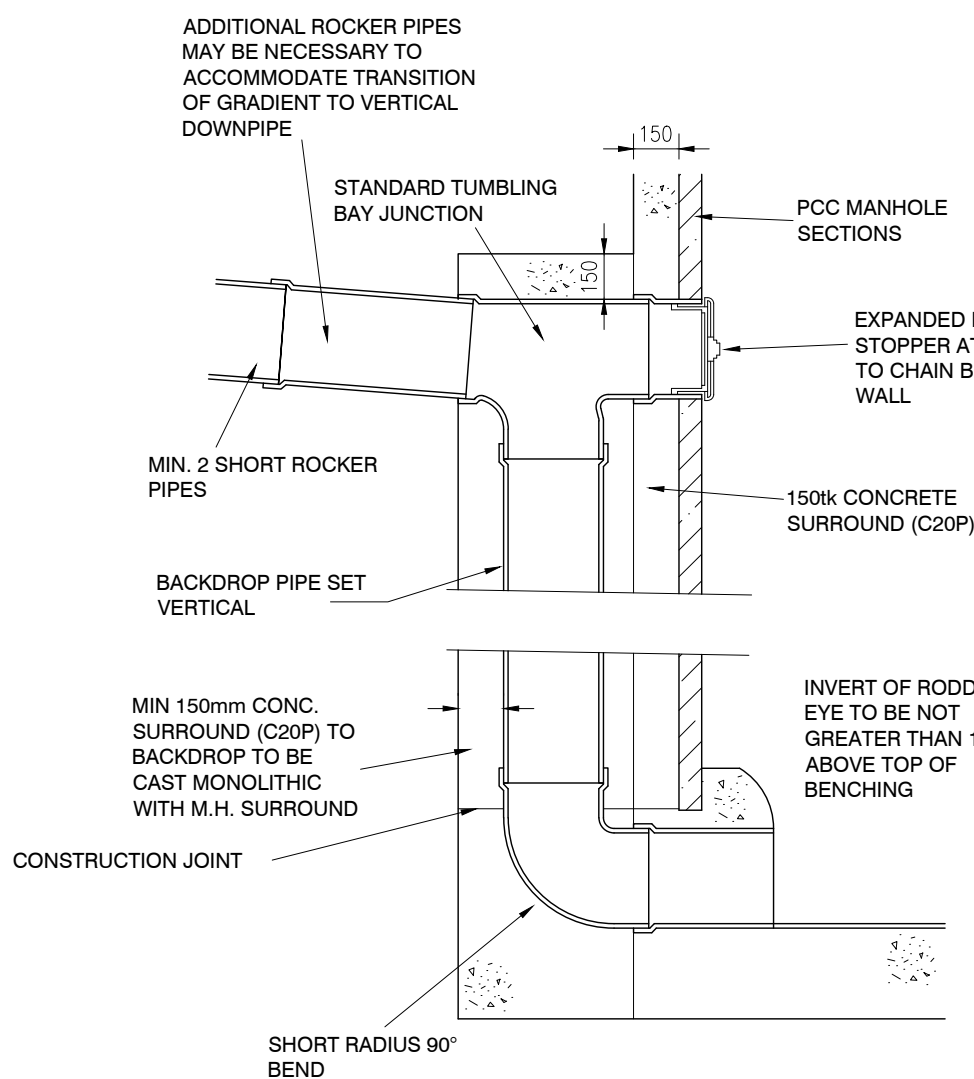
PLAN
MANHOLE TYPE 'B'
Table A

TABLE 1			
PIPE NOMINAL BORE (DN)	MAX. PARTICLE SIZE (mm)	CLASS OF BEDDING	SUITABLE IMPORTED GRANULAR MATERIALS
OVER 100 TO 150 dia	15	S	10mm OR 14mm NOMINAL SINGLE-SIZED OR 14mm TO 5mm GRADED.
OVER 150 TO 500dia	20	S	10, 14 OR 20mm NOMINAL SINGLE-SIZED OR 14mm TO 5mm GRADED OR 20mm TO 5mm GRADED.
OVER 500	40	S	10, 14, 20 OR 40mm NOMINAL SINGLE-SIZED CRUSHED ROCK OR 14mm TO 5mm GRADED OR 20mm TO 5mm GRADED OR 40mm TO 5mm GRADED.

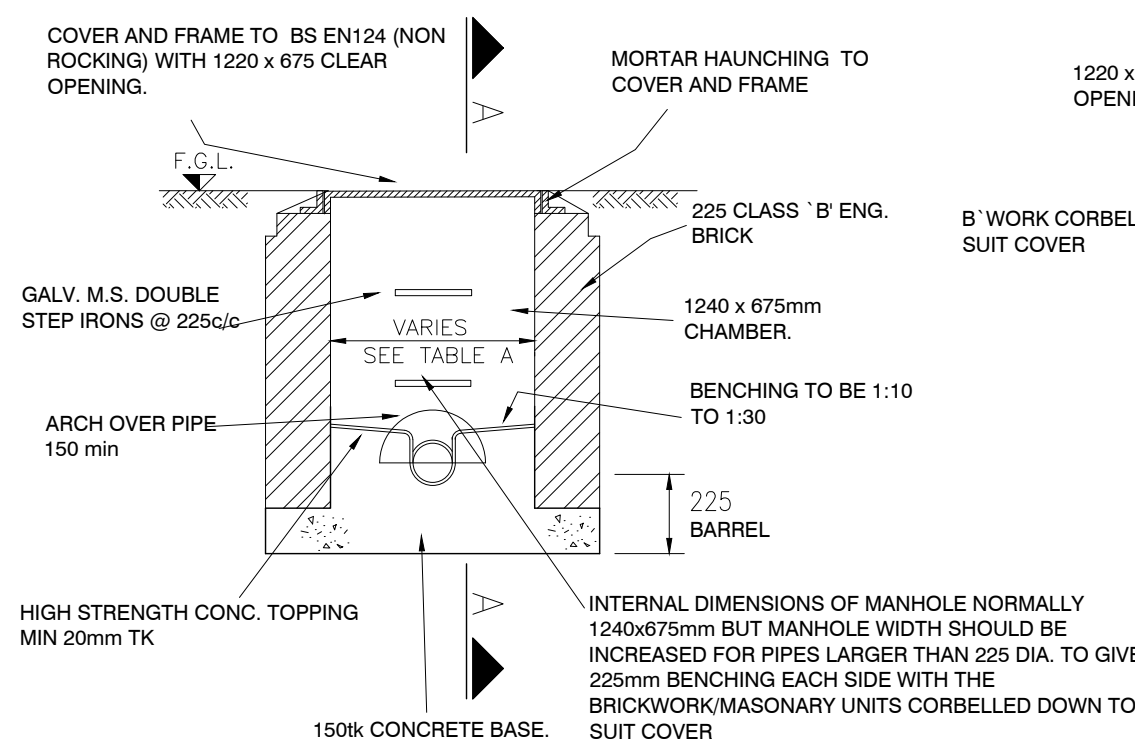
UNDER ALL HARDSTANDING AREAS BACKFILL WITH 40mm DOWN GRADED STONE - HARD-CORE ELSEWHERE (in SOFT LANDSCAPED AREAS) BACKFILL WITH APPROVED SELECTED MATERIAL.



Class 'S' Pipe Bedding Detail

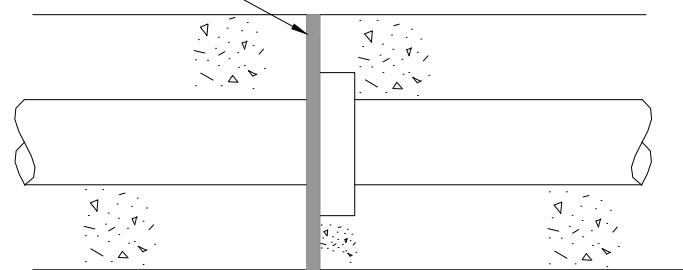


Vertical Backdrop Detail



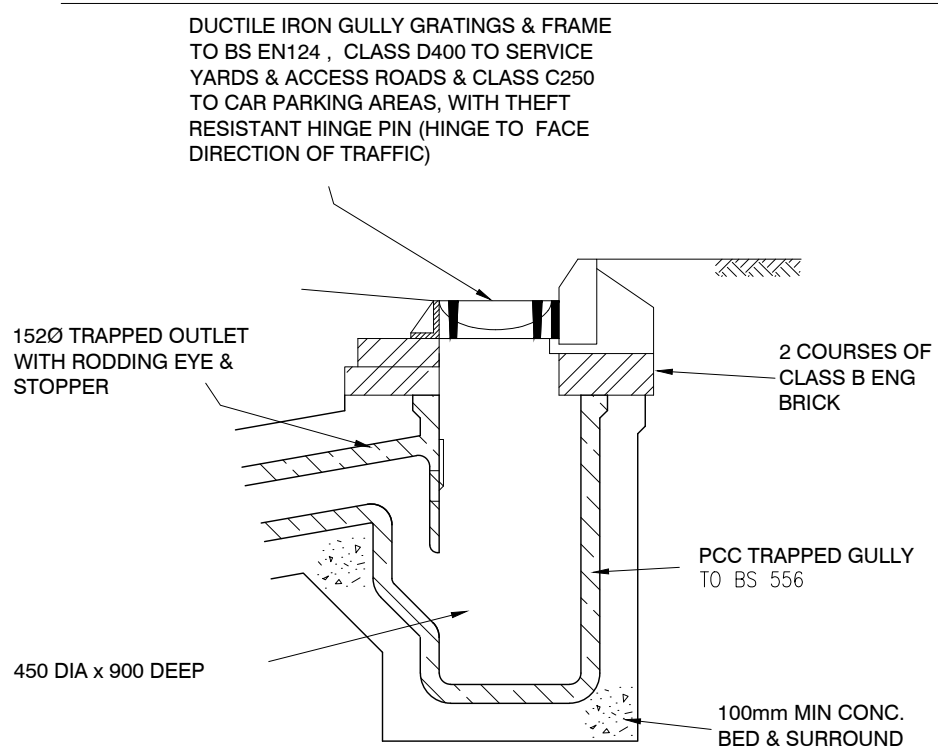
Type 'C' Manhole Detail
Max Depth From Ground
Level To Soffit Of Pipe 1.45m

NOMINAL DIA OF PIPE (mm)	THICKNESS OF COMPRESSIBLE FILLER (mm)
LESS THAN 450	18
450-1200	36
EXCEEDING 1200	54

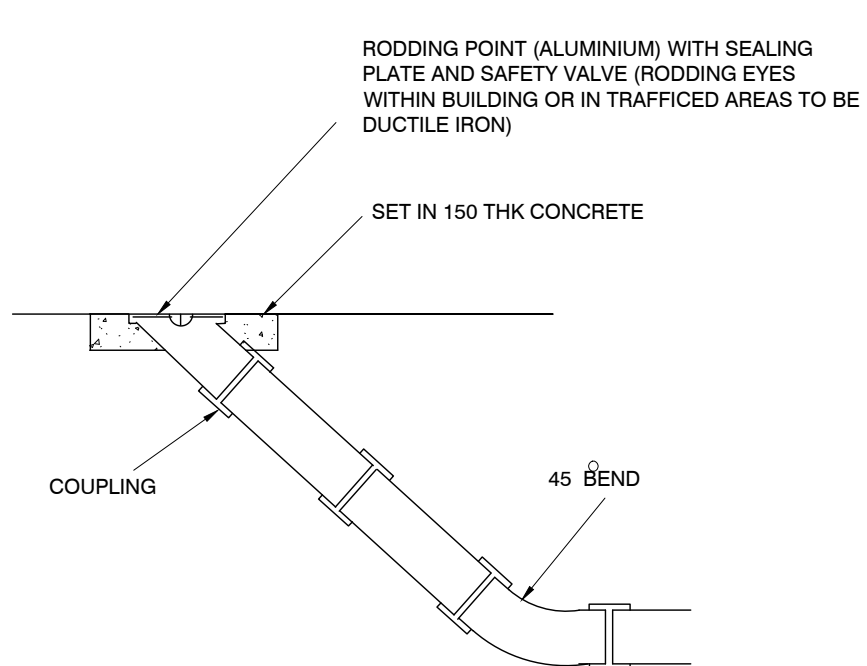


MOVEMENT JOINT TO CONCRETE
PIPE SURROUND

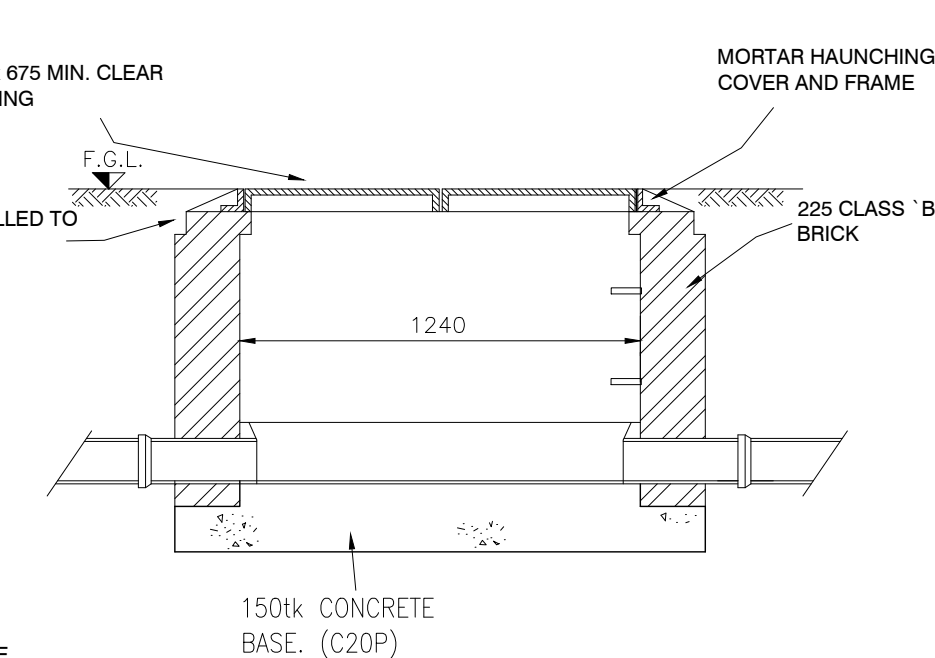
Table A



Typical Road Gully Detail



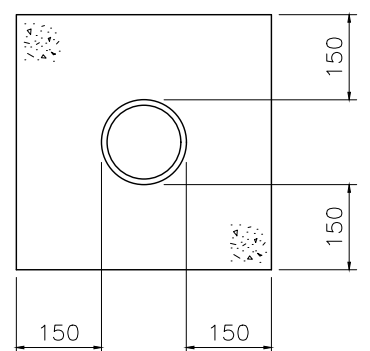
Rodding Eye Detail
(NOT TO SCALE)



Section A - A
Section Through MH Type C

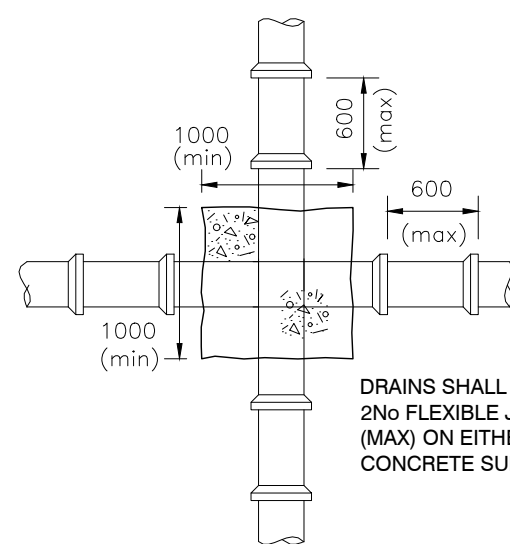
PIPE DIA.	INTERNAL MANHOLE SIZE	CORBELL DETAILS
UPTO 225	1240x675	NOT REQUIRED
300	1240x750	2 BRICK CORBELL
375	1240x825	3 BRICK CORBELL
450	1240x900	3 BRICK CORBELL
MAX. BRICK CORBELL PER COURSE TO BE 38mm		

Table A

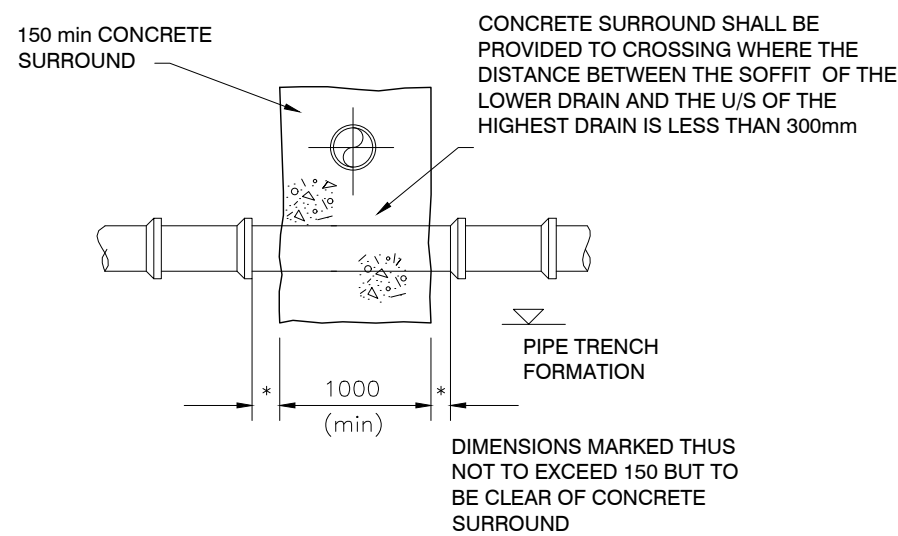


TYPICAL CONCRETE PIPE
SURROUND DETAIL

Table A



Plan On Pipe Crossover



Section

DO NOT SCALE FROM THIS DRAWING

GENERAL

- These notes are intended to augment drawings and specifications. Where conflict of requirements exists the order of precedence shall be as shown in the specifications. Otherwise the strictest provision shall govern.
- This drawing is to be read in conjunction with all other relevant Engineers and Architects drawings.
- Drawings not to be scaled. All dimensions to be checked on site by the Contractor prior to the commencement of any work or shop drawing. Any discrepancies to be notified to the Architect & Engineer and further instructions obtained before work is commenced.

DRAINAGE NOTES

- Invert of foul and surface water inspection chambers to be min 600mm below FFL.
- Covers HD in road, MD in paths and landscaped areas.
- All branches from stacks 100mm Ø.
- All inspection chambers 450mm Ø with 450mm covers.
- Manholes generally to be 1200x/50 or 1050 Ø with 600x600 or 600 Ø covers except manholes between 1.5 & 2.7m deep which are to be minimum 1200mm Ø.
- Ground floor ensuite shower and bath connections made below floor into nearest run min. 2000mm downstream using 135 branch pipe. Trap to be demountable for rodding.
- RWP to discharge into roddable access gullies compatible
- Gullies in hardstanding to be Hepworth semi-universal-square top (200m² capacity).
- Ensure trap is fitted on laundry installation (separate connection).
- Drain runs in the car park area to be surrounded in minimum 150mm pea gravel giving class s bedding factor 2.5.
- All soil stacks to be vented - those marked SVP are taken through the roof and vented to air, all other to be fitted with Agreement Certified Air Admittance Valves.
- Invert levels, pipe diameters, gradients, and connection points associated with petrol interceptors, storage and infiltration areas to be specified by Subcontractor.
- Rocker pipes are to be fitted at each side of any pipes penetrating walls or relieving lintels are to be provided.
- See project specification for further information.
- 1500 drains assume 1:150 unless stated
- 1000 drains assume 1:80 unless stated
- Kitchen wastes connected to above floor grease trap and then into soil stack.
- Where manhole/inspection chamber covers are located in paved or block paved areas, then covers need to be recessed to accept paving type.

DRAWING REVISIONS

REV	DESCRIPTION	DATE	BY	CHK
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CLIENT

M J Russell

PROJECT

Proposed Alterations & Extensions
Midlake House off Hillock Lane
Gresford

DRAWING TITLE

Drainage Details

DRAWING STATUS

FOR COMMENT

SCALE	DATE	
1:50 @ A1	Oct 2021	
DRAWN BY	CHECKED BY	
SS	GB	
JOB NO.	DWG NO.	REV
3136	SL(5)501	-