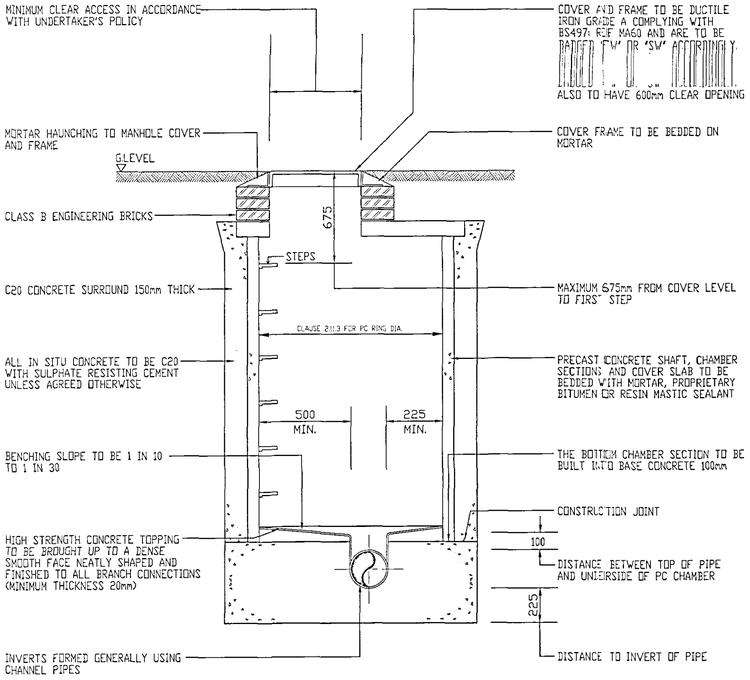
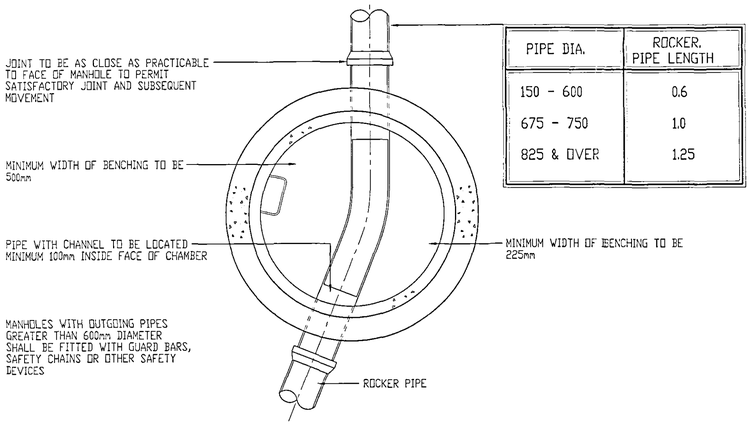


TYPICAL SECTION
(Scale 1:20)



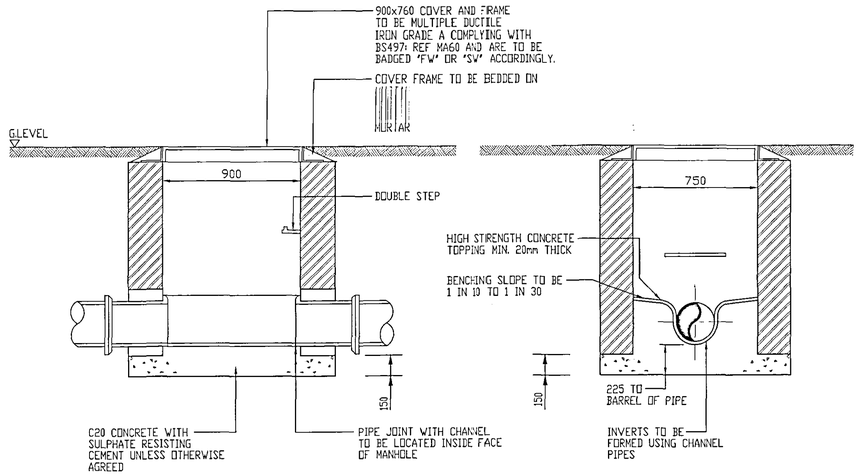
PIPE DIA.	ROCKER PIPE LENGTH
150 - 600	0.6
675 - 750	1.0
825 & OVER	1.25

PLAN
TYPICAL MANHOLE DETAIL TYPE B
(Depth to soffit 1.45m to 3.0m)
(Scale 1:20)

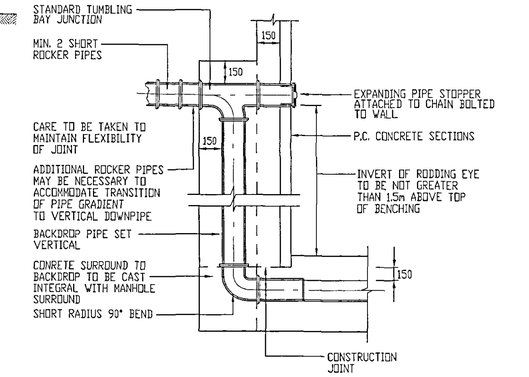
MANHOLE CHAMBER SIZES	
DIA. LARGEST PIPE IN MANHOLE	CHAMBER SECTION DIA. REQUIRED (UNLESS SPECIFIED OTHERWISE)
< 375	1200 (1050 WHERE DEPTH TO SOFFIT IS 1.25m -1.5m)
375 - 450	1350
500 - 700	1500
750 - 900	1800

THE SIZES STATED ABOVE ARE THE MINIMUM ACCEPTABLE, WHERE TWO OR MORE PIPES ENTER THE MANHOLE THE CHAMBER SIZE MUST BE SUFFICIENT TO ACCOMODATE THE REQUIRED BENCHING SHOWN.

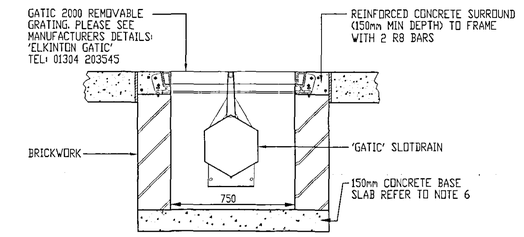
NOTE:
ALL PIPES BUILT INTO MANHOLE INVERT SHALL BE INSTALLED WITH SOFFITS LEVEL.
DETAILS TAKEN FROM SEWERS FOR ADOPTION 4th EDITION.



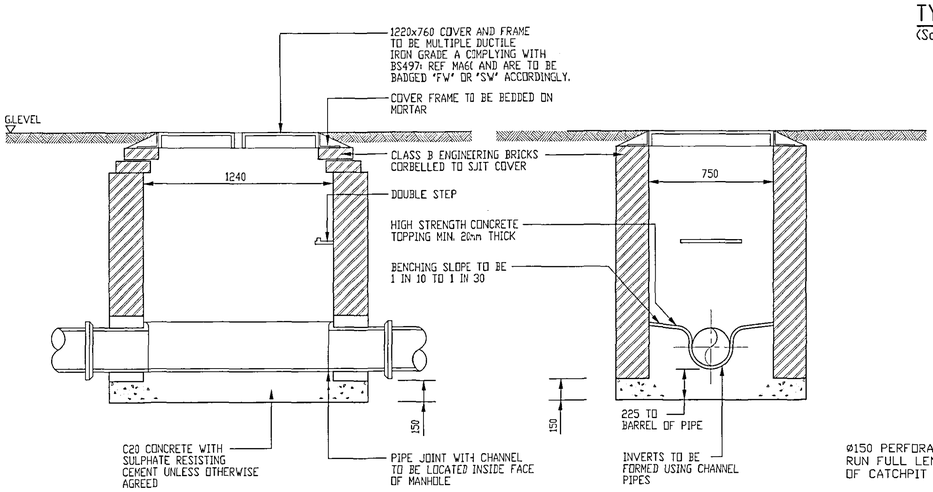
PLAN
TYPICAL MANHOLE DETAIL TYPE D
(Depth to soffit 1.0m or less)
(Scale 1:20)



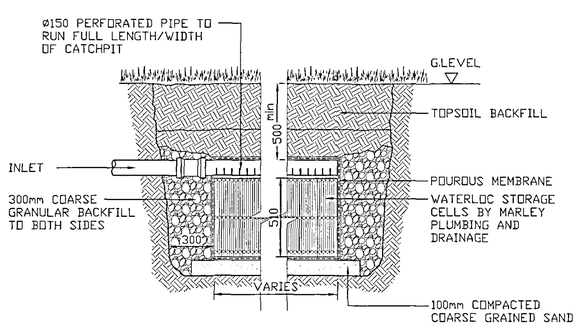
TYPICAL BACKDROP DETAIL
(Scale 1:20)



TYPICAL CATCHPIT MANHOLE
(Scale 1:20)



PLAN
TYPICAL MANHOLE DETAIL TYPE C
(Depth to soffit 1.0m to 1.45m)
(Scale 1:20)



TYPICAL SECTION THROUGH SOAKAWAY
(Scale 1:20)

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NOTES

1. DO NOT SCALE THIS DRAWING.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
4. ALL BRICKWORK MANHOLES TO BE CONSTRUCTED IN 225mm CLASS B QUALITY ENGINEERING BRICKWORK IN ENGLISH BOND AND IN ACCORDANCE WITH BS 5628. ALL MORTAR JOINTS ARE TO BE COMPLETELY FILLED AND FLUSH POINTED
5. STEP IRONS TO BS 1247 AND BS 5911 SPACING AND LOCATION AS SHOWN
6. MANHOLE BASES, AND CONCRETE SURROUNDS TO PRECAST RINGS TO BE IN GRADE C20 P CONCRETE (ST4 WITH 75mm NOMINAL SLUMP TO BS 5328) THE CONTRACTOR MAY OFFER AN ALTERNATIVE MIX, IN ACCORDANCE WITH BS 8110, TO CONTRACT ADMINISTRATOR APPROVAL
7. ALL CONCRETE COVER SURROUNDS TO BE AIR ENTRAINED
8. MORTAR FOR BRICKWORK MANHOLES TO BE CLASS 1 IN ACCORDANCE WITH BS 5628
9. BENCHING TO MANHOLES TO BE FINISHED WITH 25mm 1:3 CEMENT:SAND GRANOLITHIC RENDERING
10. MANHOLE COVERS TO HAVE A MINIMUM CLEAR OPENING OF 600mm UNLESS SPECIFIED OTHERWISE
11. ALL EXTERNAL MANHOLE COVER AND FRAMES TO BE MANUFACTURED TO MEET THE LOAD REQUIREMENTS OF BS:EN 124/FACTA:
    PEDESTRIAN AREAS : CLASS A15/A
    CARRIAGEWAYS (WITHIN 0.5m OF KERBLINE): CLASS C250/C
    CARRIAGEWAYS : CLASS D400/D
    INTERNAL MANHOLE COVERS AND FRAMES WITHIN GROUND FLOOR TOILETS AND KITCHEN AREAS TO BE MANUFACTURED TO MEET THE A15/A LOAD REQUIREMENTS OF BS. EN 124/FACTA.
12. BENCHING SLOPE TO MANHOLES TO BE IN THE RANGE OF 1:10 TO 1:30

SHDC PLANNING & DEVELOPMENT 10 AUG 2006 Ref. 1120/06

Rev.	Amendments	Rev'd By	Date

Client: JOHN HALTON DESIGN LTD ARCHITECTURE

Project: PROPOSED DRAINAGE SCHEME. STATION ROAD, DONINGTON

Title: TYPICAL EXTERNAL MANHOLE DETAILS

Job No	34204
Drawing No	34204/A1/003
Status	PRELIMINARY
Scale	AS SHOWN
Date	AUG 06
Project Engineer	PW
Drawn By	ML
Checked By	PW

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