

CLEAR OPENING	
Chamber Depth <900mm	600mm x 1200mm
Chamber Depth >900mm	600mm x 600mm

TABLE 3.

DIAMETER OF LARGEST PIPE	INTERNAL DIA. OF MANHOLE
<375mm	1200mm
375 - 700mm	1500mm
750 - 900mm	1800mm

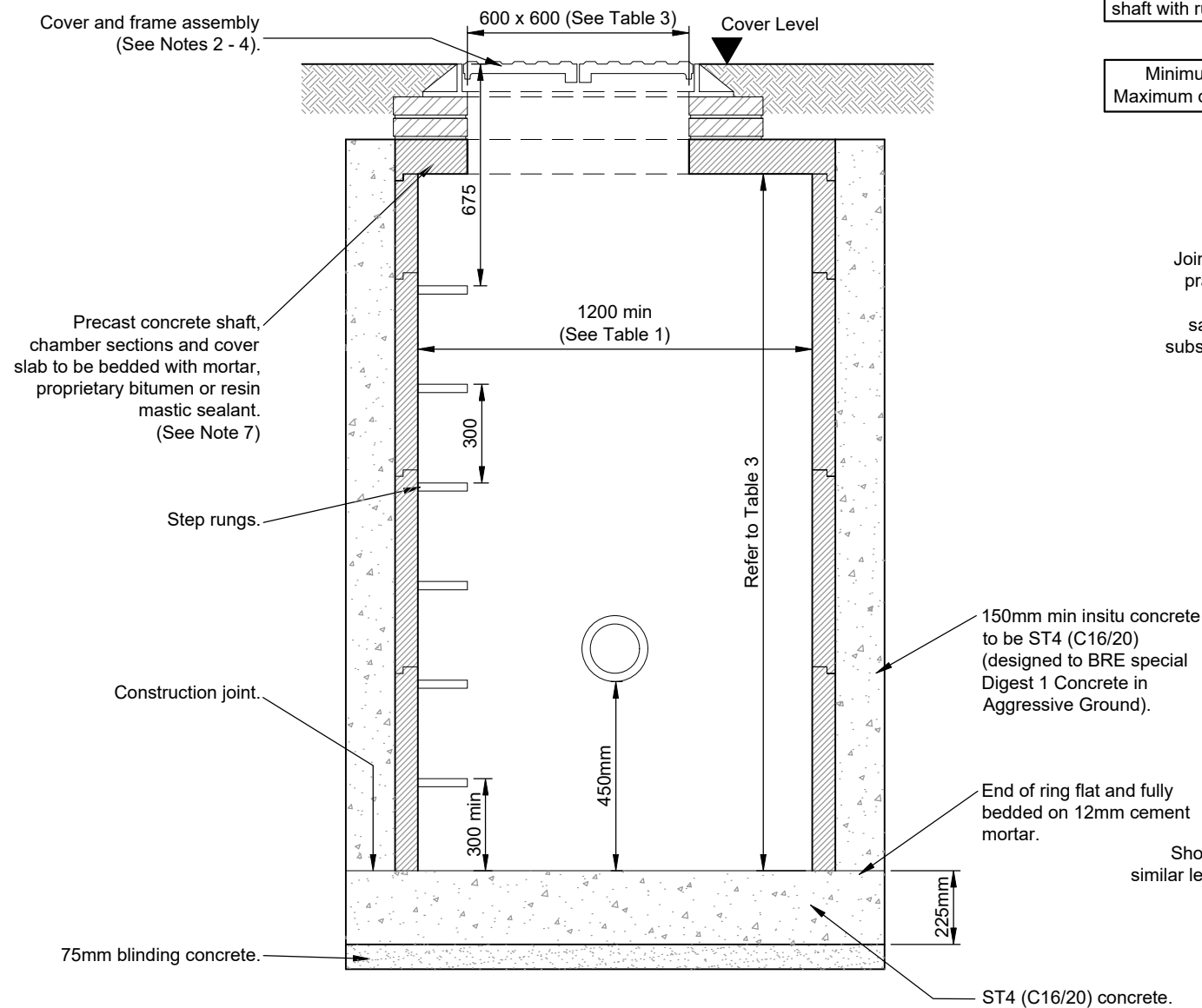
TABLE 1.

NOMINAL DIAMETER	ROCKER PIPE LENGTH
150 - 600mm	0.6m
>600 - 750mm	1.0m
>750mm	1.25m

TABLE 2

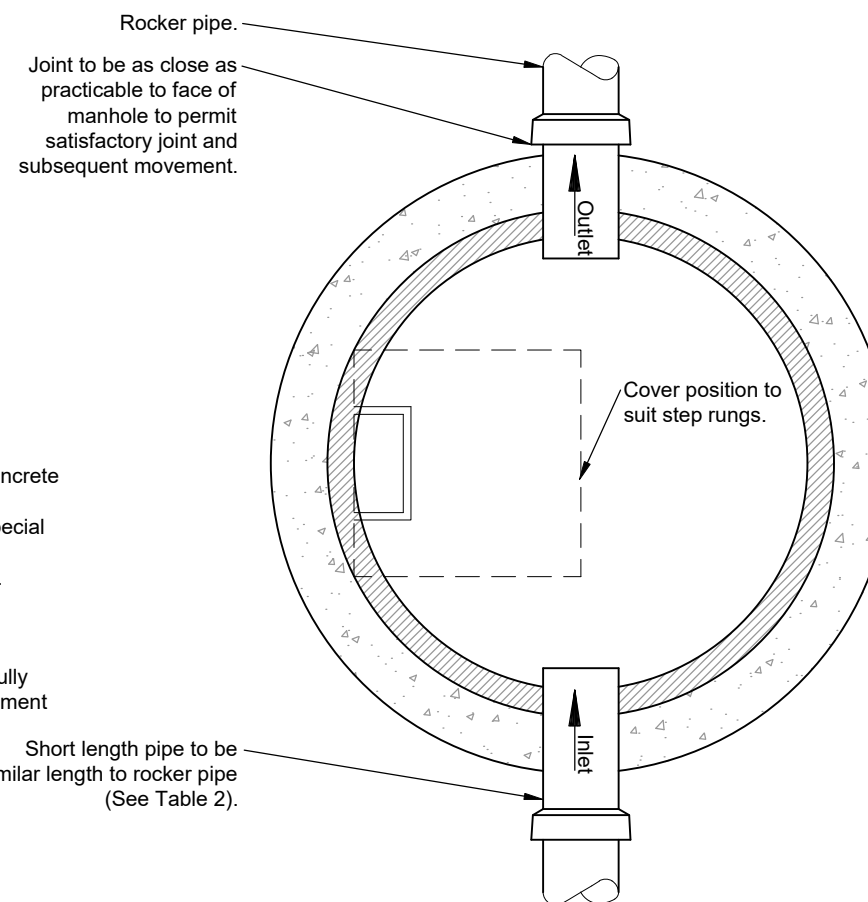
Note: Opening to be offset from centre by approximately 200mm for 1200mm diameter shaft with rungs/ladder.

Minimum depth from cover level to base 1.3m. Maximum depth from cover level to soffit of pipe 3.0m.



SECTION

(Scale 1:20)



PLAN
(Scale 1:20)

NOTES

1. Do not scale from this drawing
2. Cover Grade shall be minimum D400 unless otherwise agreed with the Highway Inspector. 600mm x 600mm clear opening (Refer to Table 3).
3. Manhole cover and frames shall comply with the relevant provisions of BS EN 124, BS 7903 and Highway Agency Guidance Document HA 104/02. They shall be of a non-rocking design which does not rely on the use of cushion inserts. All manhole covers shall be the non-ventilating type and shall have closed keyways. All covers formed of double triangular units shall be loosely bolted together.
4. Frames shall be bedded on a gauged Class 1 (3:1) sand/cement mortar to Cl.2402 of SHW Mortar Designation (i), and between 2 and 4 courses of Engineering Brickwork Class 'B' to BS EN 771-1:2011.
5. Rungs for manholes and other chambers shall be Type D Class 1, complying with the requirements of BS EN 13101: 2002.
6. Precast concrete manhole pattern step irons at 300mm centres vertically and staggered 300mm horizontally between centres.
7. On manholes less than 1.5mØ reducing slab not to be used and PC rings to continue up to cover slab.
8. Pre-cast concrete products shall comply with the relevant provisions of BS 5911: Part 2, 200 & 230.
9. The number of incoming branches and invert levels may vary.
10. Cover and frame may be installed as a 'gully top' where appropriate.
11. Min pipe diameter for carrier pipes to be 225mm.
12. Min pipe diameter for gully laterals to be 150mm.

E	General update	MJA	MJA	15.03.19
D	General update	MJA	HM	07.11.17
C	Min pipe diameters added	DJL	HM	25.04.17
Rev	Revision details	Chkd	Appd	Date
Drawn: MJA			For comment	
Chkd:			For tender	
Appd:			For construction	
Date:			As constructed	
File ref:				
IWP Ref:				

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Project Name

Section 278/38 Highway Agreement Standard Details

Drawing Title

Drainage
Type B Catchpit



Original Drawing Size :	A3
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Scale : As Shown	Dimensions :
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Drawing No.
S278/38/13

Rev
E