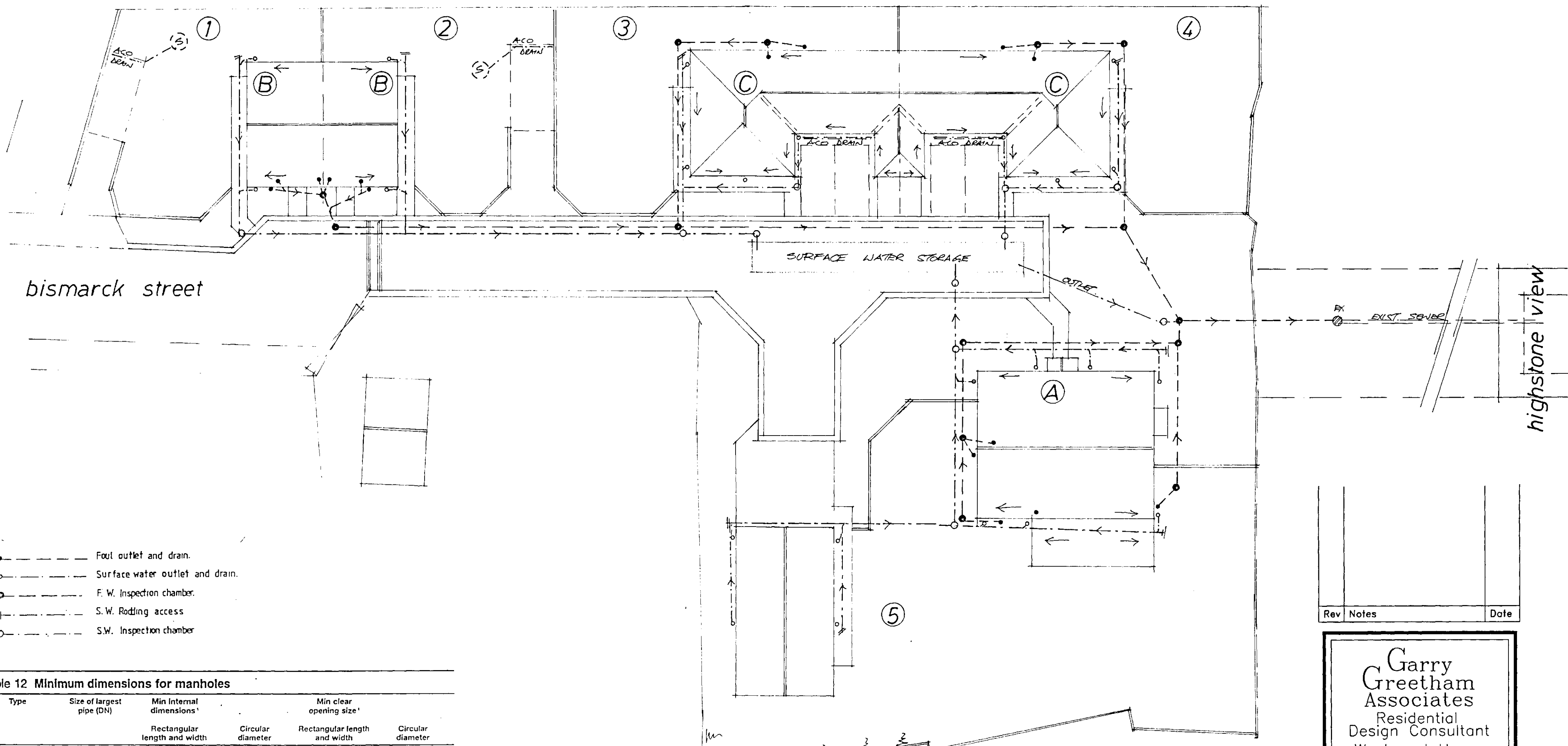




- Foul outlet and drain.
- Surface water outlet and drain.
- F.W. Inspection chamber.
- S.W. Rodding access
- S.W. Inspection chamber

Table 12 Minimum dimensions for manholes

Type	Size of largest pipe (DN)	Min internal dimensions ¹		Min clear opening size ²	
		Rectangular length and width	Circular diameter	Rectangular length and width	Circular diameter
Manhole < 1.5m deep to soffit	≤ 150	750 x 675 ³	1000 ⁴	750 x 675 ³	na ⁵
	225	1200 x 675	1200	1200 x 675 ³	
	300	1200 x 750	1200		
	>300	1800 x (DN+450)	The larger of 1800 or (DN+450)		
> 1.5m deep to soffit	≤ 225	1200 x 1000	1200	600 x 600	600
	300	1200 x 1075	1200		
	375-450	1350 x 1225	1200		
	>450	1800 x (DN+775)	The larger of 1800 or (DN+775)		
Manhole shaft ⁶ > 3.0m deep to soffit of pipe	Steps ⁷	1050 x 800	1050	600 x 600	600
	Ladder ⁸	1200 x 800	1200		
	Winch ⁹	900 x 800	900	600 x 600	600

- Notes:
- ¹ Larger sizes may be required for manholes on bends or where there are junctions.
 - ² May be reduced to 600 by 600 where required by highway loading considerations, subject to a safe system of work being specified.
 - ³ Not applicable due to working space needed.
 - ⁴ Minimum height of chamber in shafted manhole 2m from benching to underside of reducing slab.
 - ⁵ Min clear space between ladder or steps and the opposite face of the shaft should be approximately 900mm.
 - ⁶ Winch only - no steps or ladders, permanent or removable.
 - ⁷ The minimum size of any manhole serving a sewer (i.e. any drain serving more than one property) should be 1200 mm x 675 mm rectangular or 1200 mm diameter.

Table 11 Minimum dimensions for access fittings and inspection chambers

Type	Depth to invert from cover level (m)	Internal sizes		Cover sizes	
		Length x width (mm x mm)	Circular (mm)	Length x width (mm x mm)	Circular (mm)
Rodding eye		As drain but min 100		Same size as pipework ¹	
Access fitting small	150 diam	0.6 or less, except where situated in a chamber	150 x 100	150	150 x 100 ²
large	225 x 100		225 x 100	225	225 x 100 ²
Inspection chamber shallow	0.6 or less	225 x 100	190		190
deep	1.2 or less	450 x 450	450	Min 430 x 430	430
	> 1.2	450 x 450	450	max 300 x 300 ³	Access restricted to max 350 ⁴

- Notes:
- ¹ The clear opening may be reduced by 20 mm in order to provide proper support for the cover and frame.
 - ² Drains up to 150mm.
 - ³ A larger clear opening cover may be used in conjunction with a restricted access. The size is restricted for health and safety reasons to deter entry.

Rev Notes Date

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CORPORATE MAIL ROOM

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