

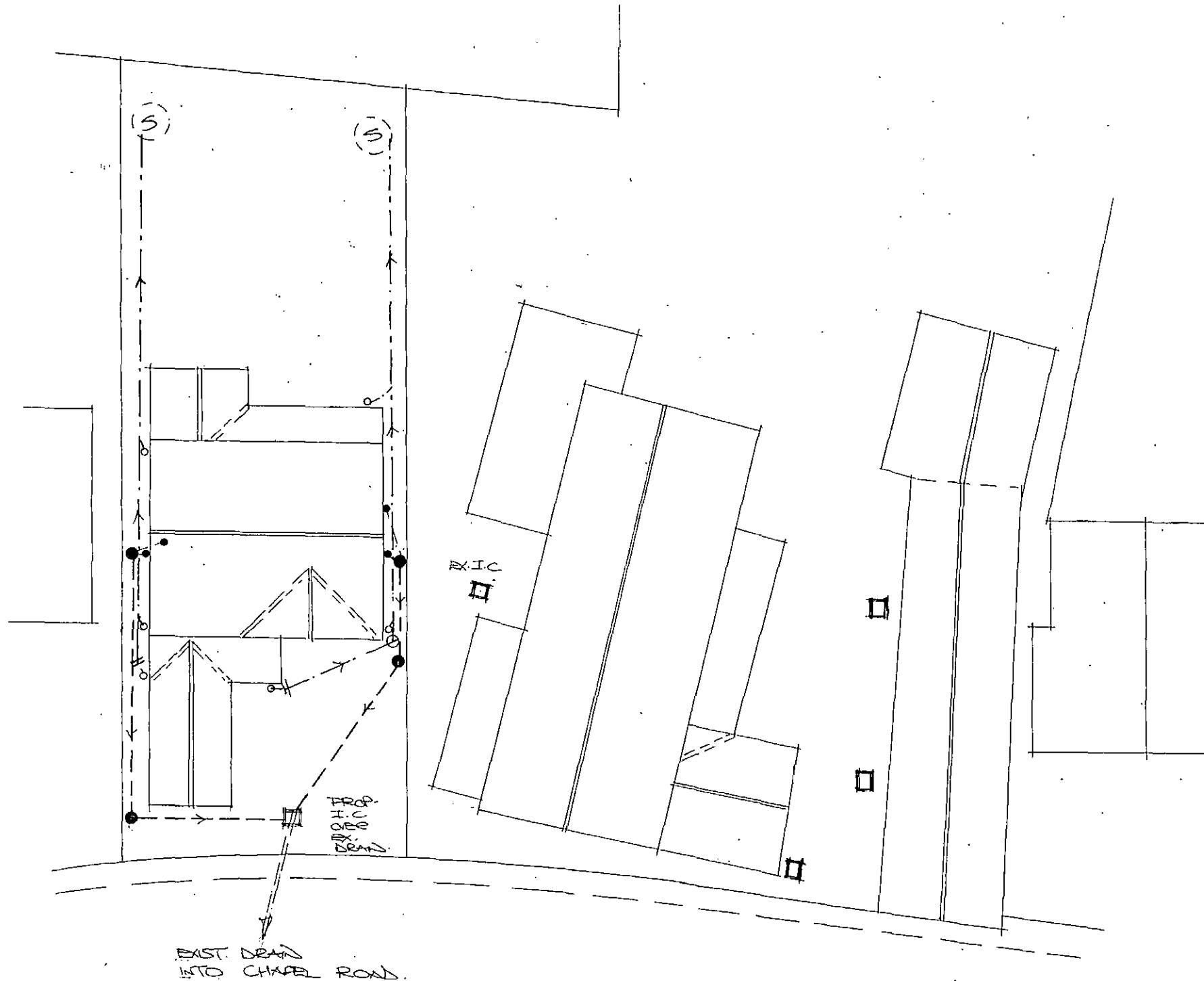


Table 11 Minimum dimensions for access fittings and inspection chambers

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
Access fitting					
small	150 diam				
large	150 x 100				
	225 x 100	150 x 100	150	150 x 100	Same size as access fitting
		225 x 100	225	225 x 100	
Inspection chamber					
shallow	0.6 or less	225 x 100	190		190
	1.2 or less	450 x 450	450	Min 430 x 430	430
deep	> 1.2	450 x 450	450	max 300 x 300	Access restricted to max 350

Notes:
 * The clear opening may be reduced by 20 mm in order to provide proper support for the cover and frame.
 * Drains up to 150mm.
 * 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.

- Foul outlet and drain.
- — Surface water outlet and drain.
- — F. W. Inspection chamber.
- || — S. W. Rodding access
- — S.W. Inspection chamber
- (S) — S.W. Soakaway

Table 12 Minimum dimensions for manholes

Type	Size of largest pipe (DN)	Min internal dimensions		Min clear opening size	
		Rectangular length and width	Circular diameter	Rectangular length and width	Circular diameter
Manhole					
< 1.5m deep to soffit	≤ 150	750 x 675	1000	750 x 675	na
	225	1200 x 675	1200	1200 x 675	
	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					
> 3.0m deep to soffit of pipe	Steps	1050 x 800	1050	600 x 600	600
	Ladder	1200 x 800	1200		
	Winch	900 x 800	900	600 x 600	600

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

Rev	Notes	Date

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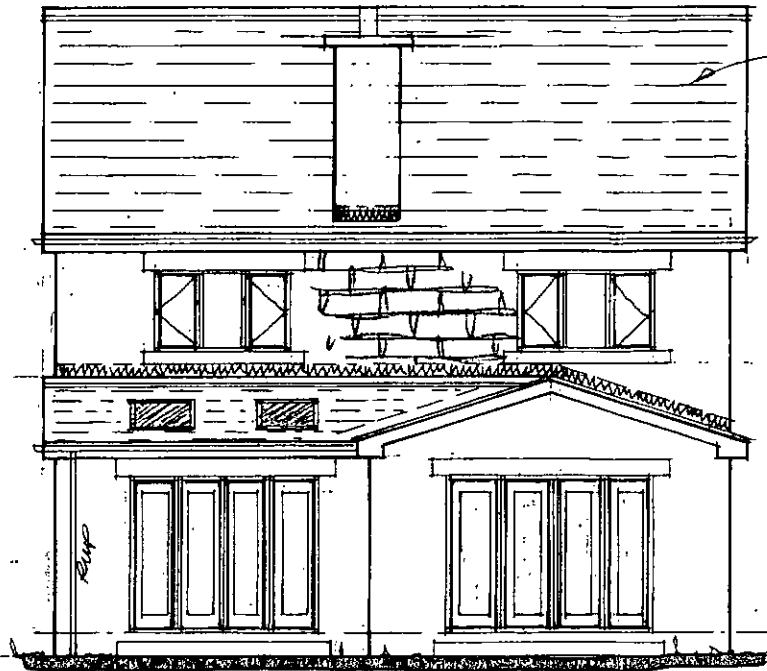
PROJECT	Detached Dwelling	
CLIENT	Mr. Neil Anthony	
TITLE	Drainage Layout	
ADDRESS	Land adj. Gate Inn, Chapel Rd, Pilley, Barnsley. S75 3AR	
DRAWN BY	ggg	
SCALE	1:200	DATE Mar 14
DRAWING No	751-16	REV
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Front

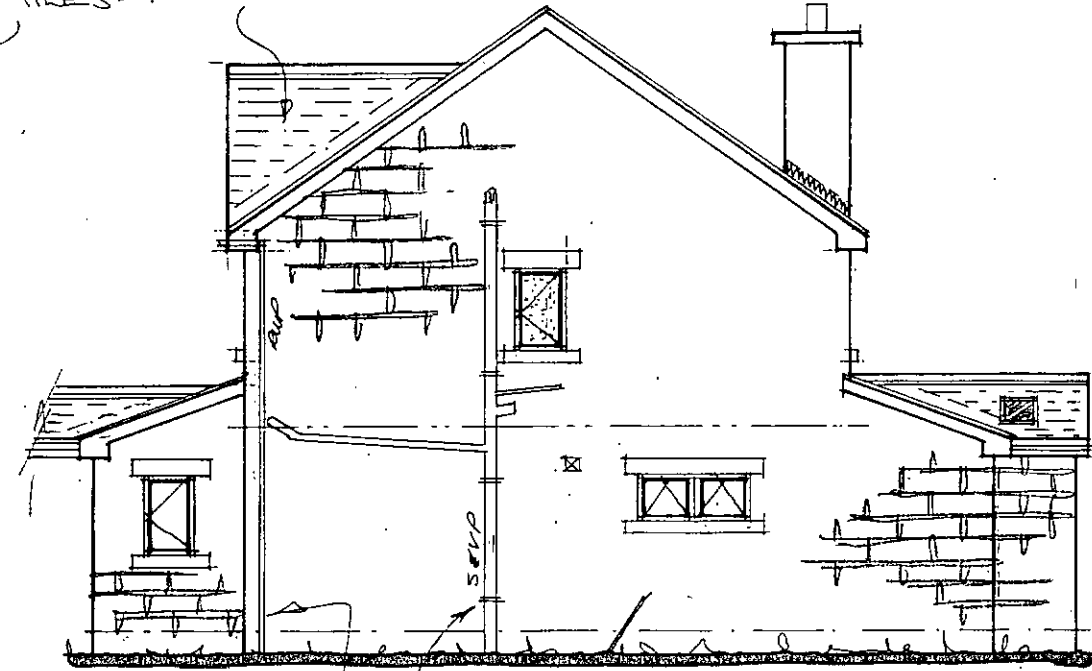
LIGHT OAK VMC
WINDOWS & DOORS.

ARTSTONE HEADS
& CILLS.



Rear

GREY COLOUR; FLAT
PROFILE CONCRETE
INTERLOCKING
TILES.

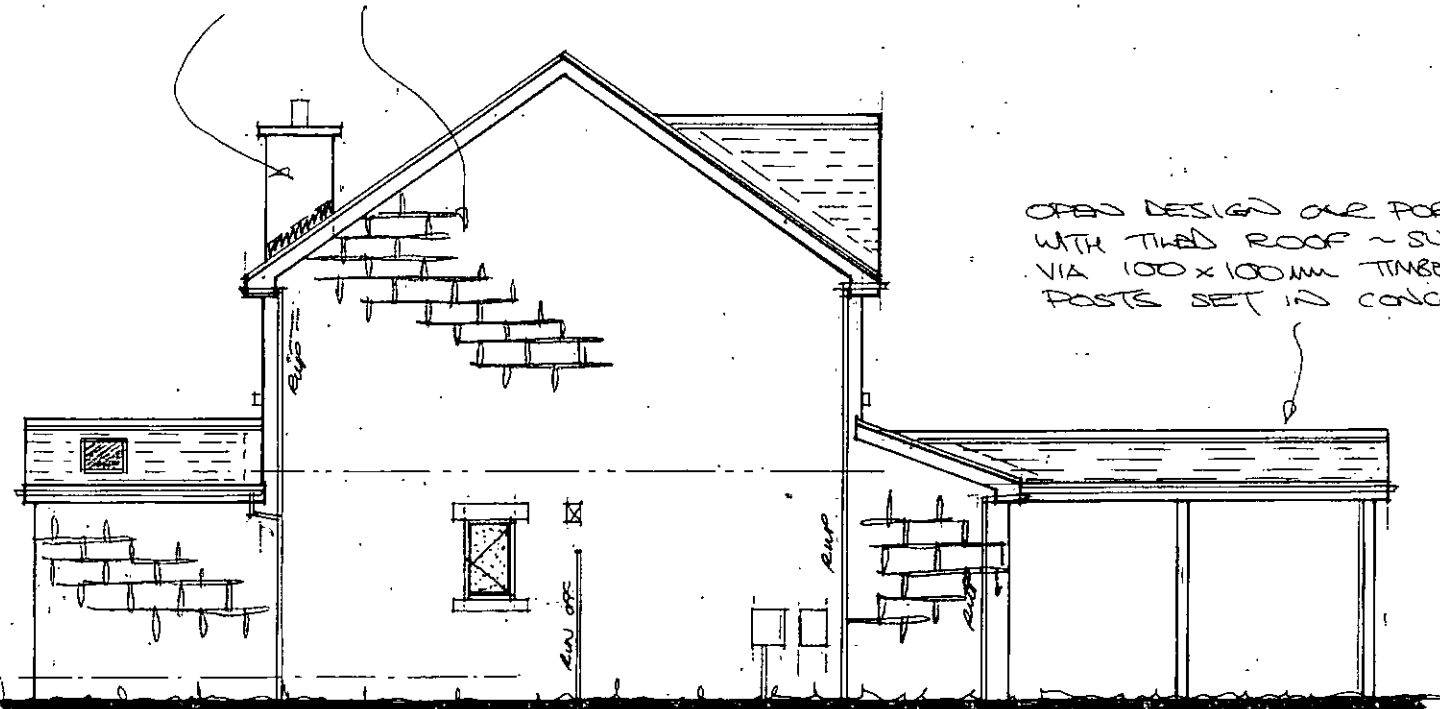


Side

BLACK VMC R.WATER
& SOIL GOODS

NATURAL COURED
PITCHED STONE

OPEN DESIGN ONE PORT
WITH TILED ROOF ~ SUPPORTED
VIA 100x100mm TIMBER
POSTS SET IN CONCRETE



Side

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PROJECT	Detached Dwelling	
CLIENT	Mr. Neil Anthony	
TITLE	Elevations as Proposed	
ADDRESS	Land adj. Gate Inn, Chapel Rd, Pilley, Barnsley, S75 3AR	
DRAWN BY	ggg	
SCALE	1:100	DATE Mar 14
DRAWING No	751-19	REV
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