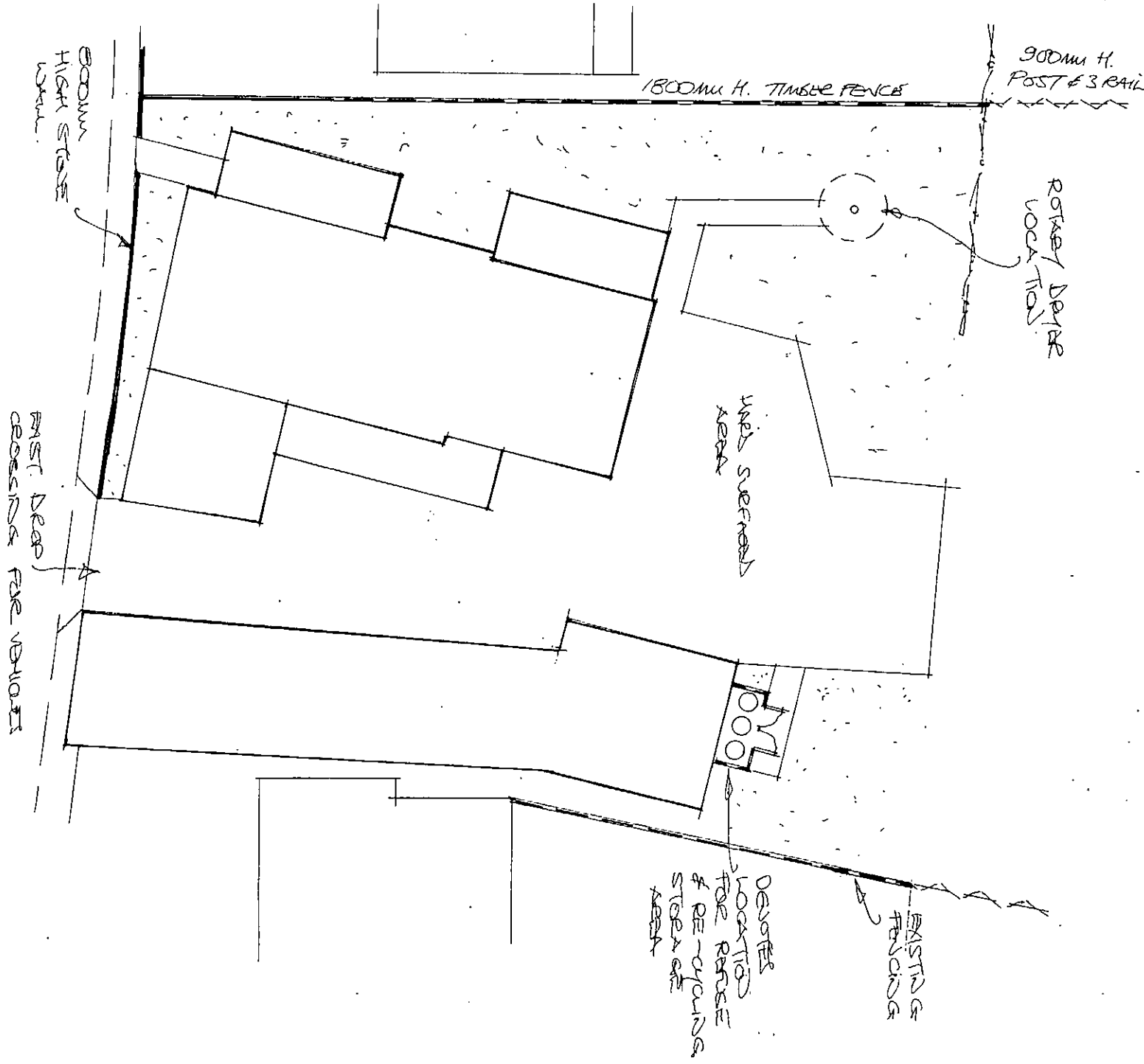




Rev	Notes	Date

Garry Greetham Associates Ltd
 Residential Design Consultant
 Westwood House
 18 Carr Lane
 Tankersley
 Barnsley S75 3BE
 Tel(01226)746573

PROJECT	Various Extensions		
CLIENT	Mr. & Mrs. N. Anthony		
TITLE	External Works Layout		
ADDRESS	"Gate Inn", Chapel Road, Pilley, Barnsley. S75 3AR		
DRAWN BY	999		
SCALE	1:200	DATE	Dec 14
DRAWING No	751-09	REV	

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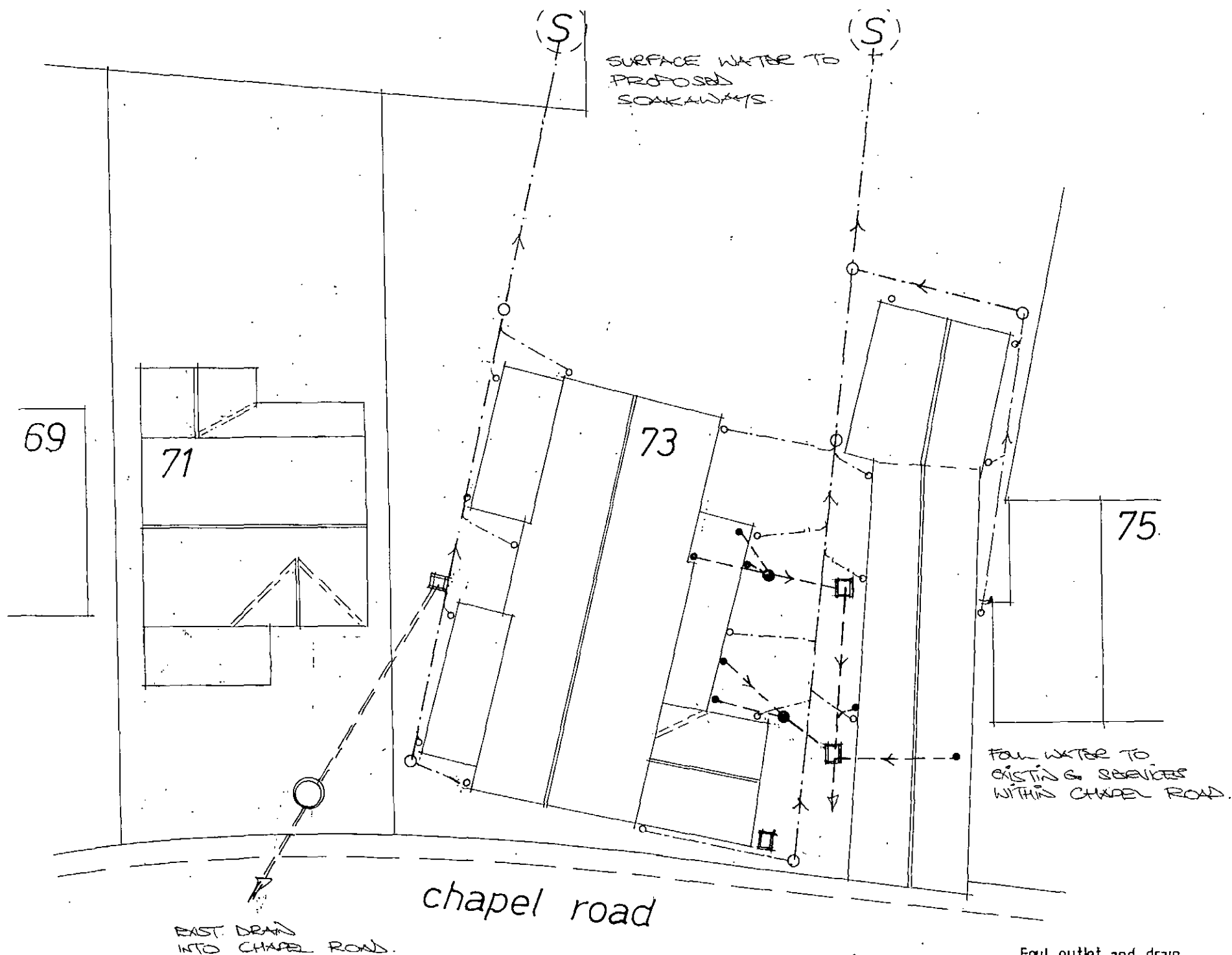


Table 11 Minimum dimensions for access fittings and inspection chambers

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 ¹	Same size as access fitting
large 225 x 100		225 x 100	225	225 x 100 ¹	
Inspection chamber					
shallow	0.6 or less	225 x 100	190		190 ¹
	1.2 or less	450 x 450	450	Min 430 x 430	430
deep	> 1.2	450 x 450	450	max 300 x 300 ²	Access restricted to max 350 ³

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.

Table 12 Minimum dimensions for manholes

Type	Size of largest pipe (DN)	Min internal dimensions ¹		Min clear opening size ¹	
		Rectangular length and width	Circular diameter	Rectangular length and width	Circular diameter
Manhole					
< 1.5m deep to soffit	≤ 150	750 x 675 ¹	1000 ¹	750 x 675 ²	na ¹
	225	1200 x 675	1200	1200 x 675 ²	
	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 ⁴					
> 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

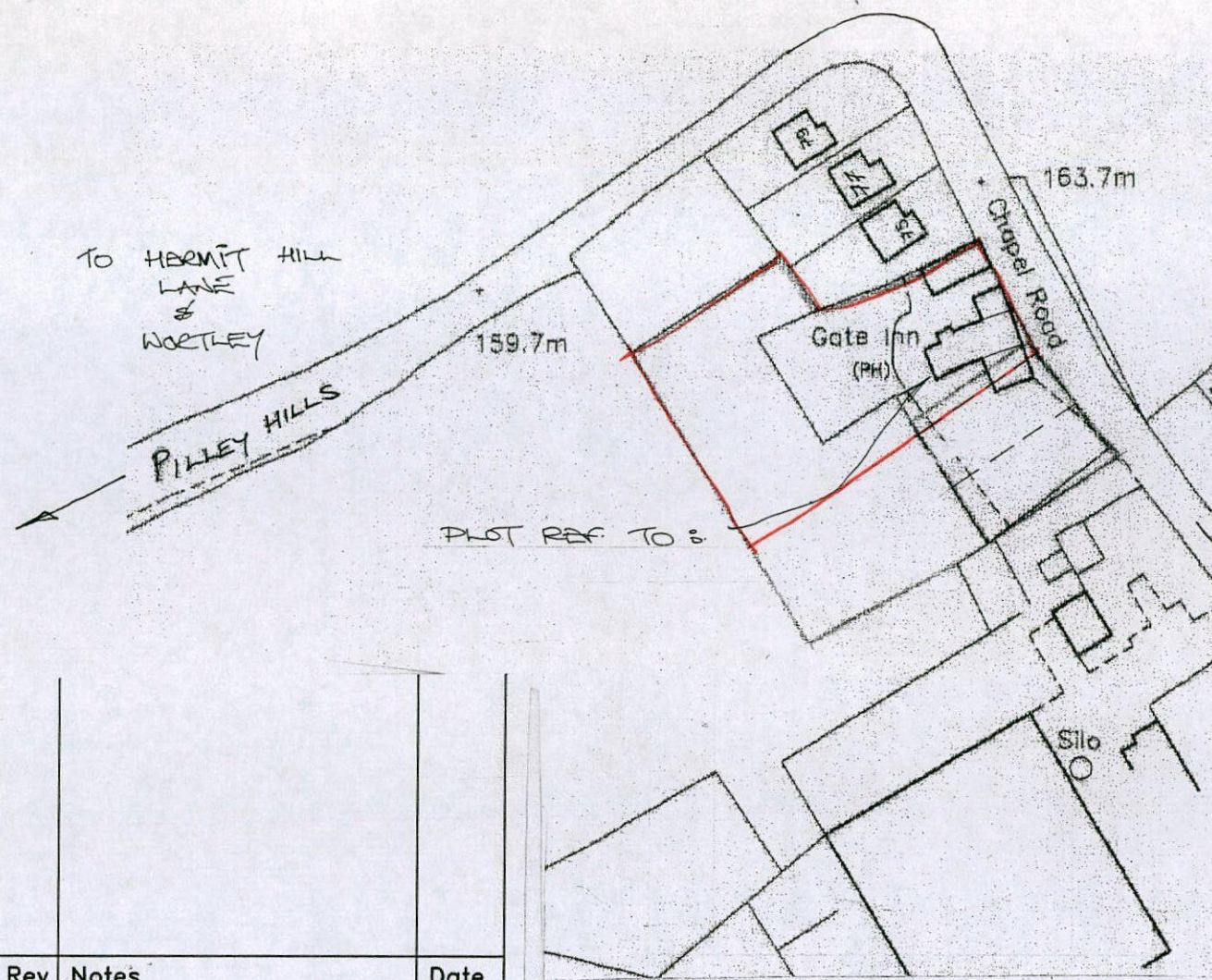
Notes:
¹ Larger sizes may be required for manholes on bends or where there are junctions.
² May be reduced to 600 by 600 where required by highway loading considerations, subject to a safe system of work being specified.
³ Not applicable due to working space needed.
⁴ Minimum height of chamber in shafted 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.

- — 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

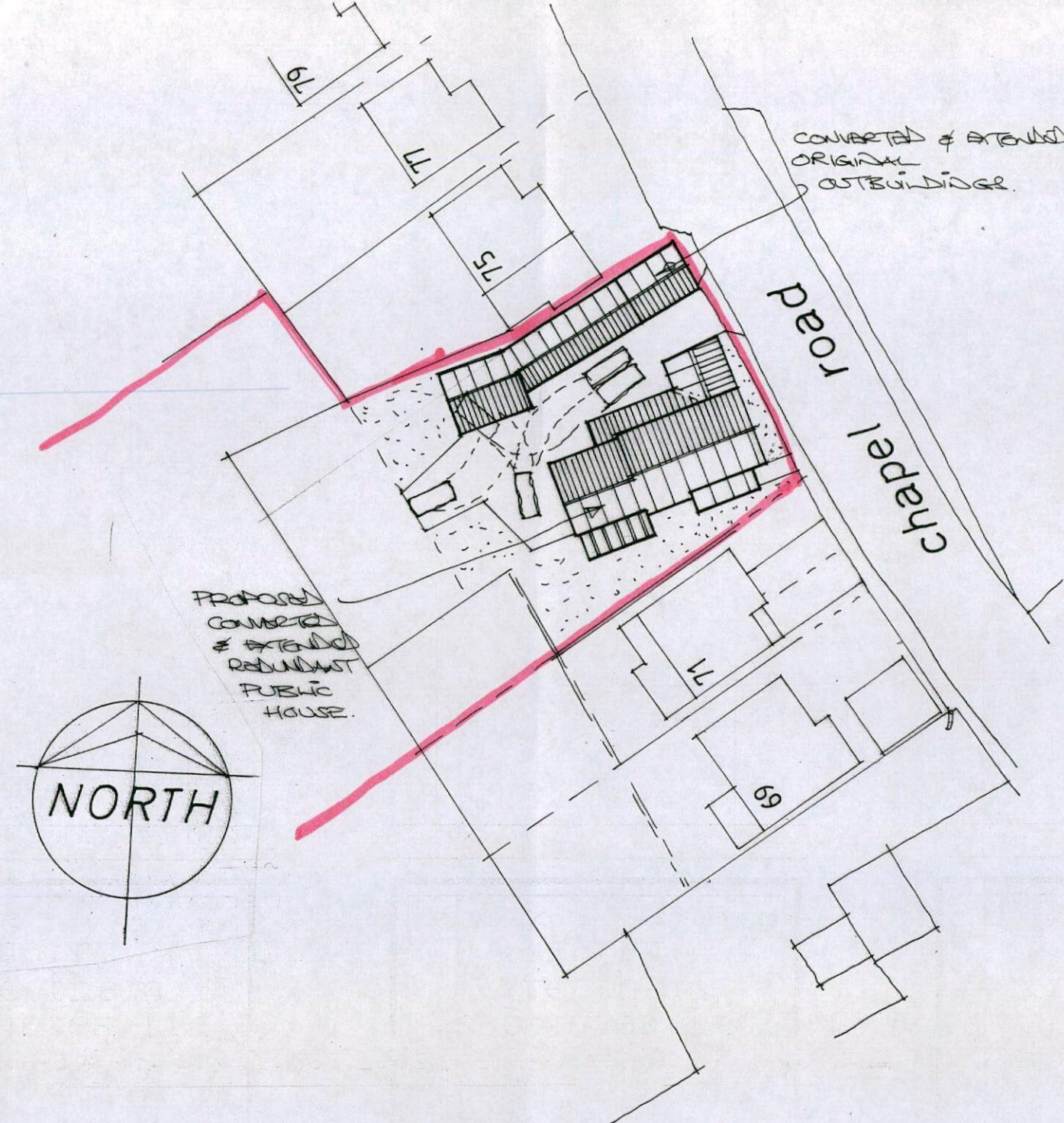
Rev	Notes	Date

Garry Greetham Associates Ltd
 Residential Design Consultant
 Westwood House
 18 Carr Lane
 Tankersley
 Barnsley S75 3BE
 Tel(01226)746573

PROJECT	Various Extensions	
CLIENT	Mr. & Mrs. N. Anthony	
TITLE	Drainage Layout	
ADDRESS	"Gate Inn", Chapel Road, Pilley, Barnsley. S75 3AR	
DRAWN BY	ggg	
SCALE	1:200	DATE Dec 14
DRAWING No	751-02	REV
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Location Layout 1:1250



Site Layout 1:500

Rev	Notes	Date

Garry
Greetham
Associates Ltd
Residential
Design Consultant
Westwood House
18 Carr Lane
Tankersley
Barnsley S75 3BE
Tel(01226)746573

PROJECT Various Extensions

CLIENT Mr. & Mrs. N. Anthony

TITLE Site and Location Layouts

ADDRESS
"Gate Inn", Chapel Road,
Pilley, Barnsley. S75 3AR

DRAWN BY ggg

SCALE as shown DATE Dec14

DRAWING No 751-01 REV

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