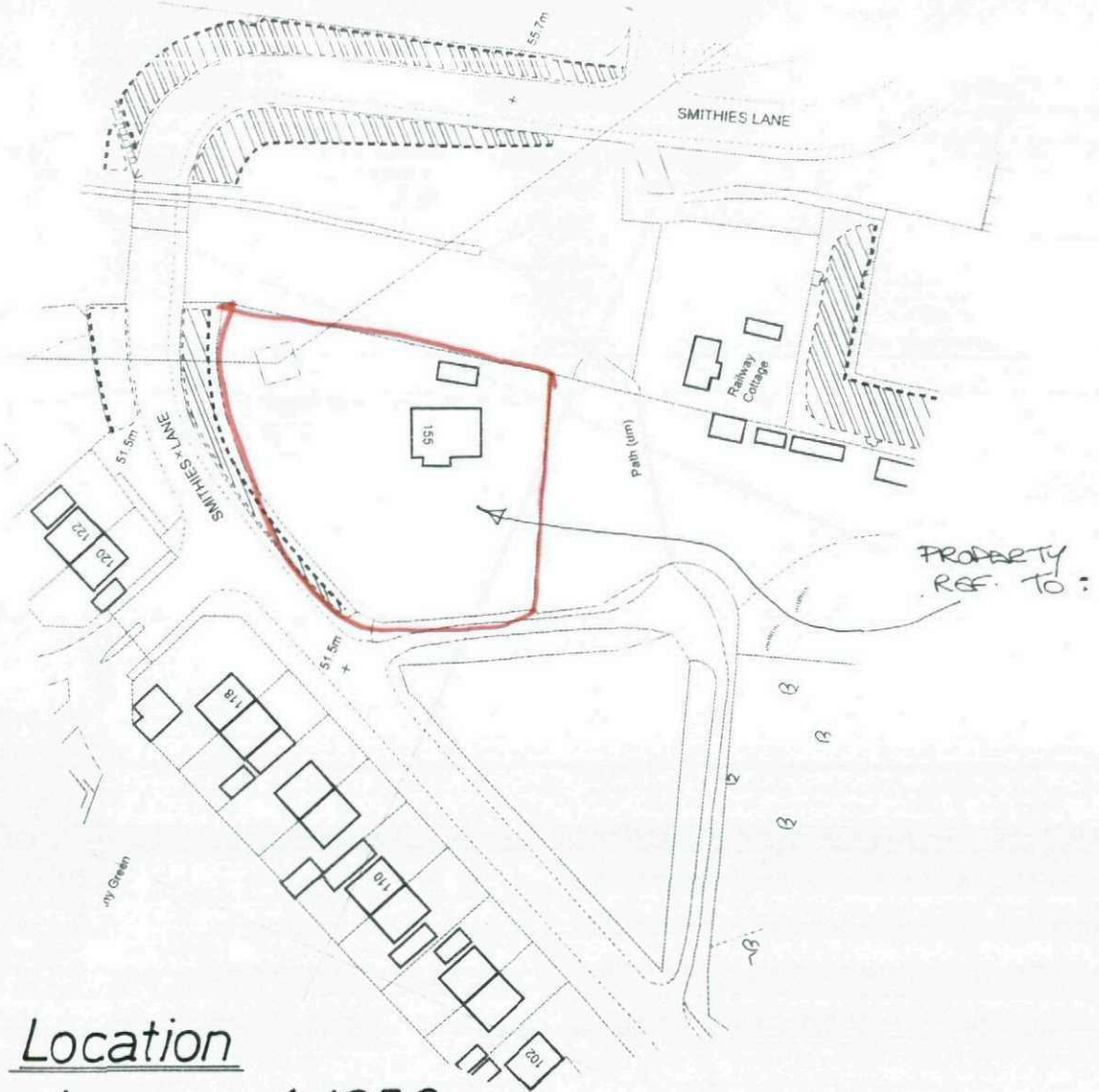
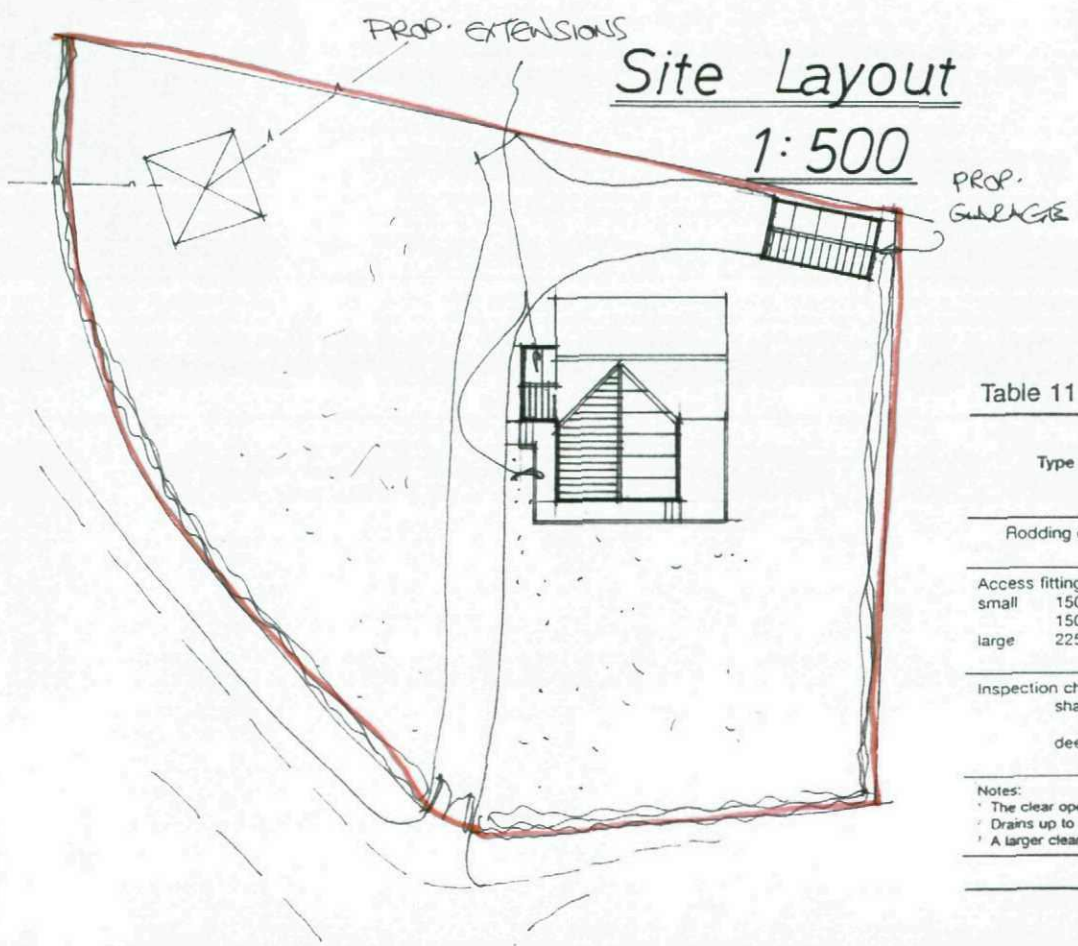


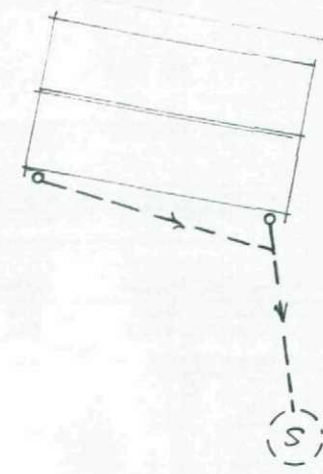
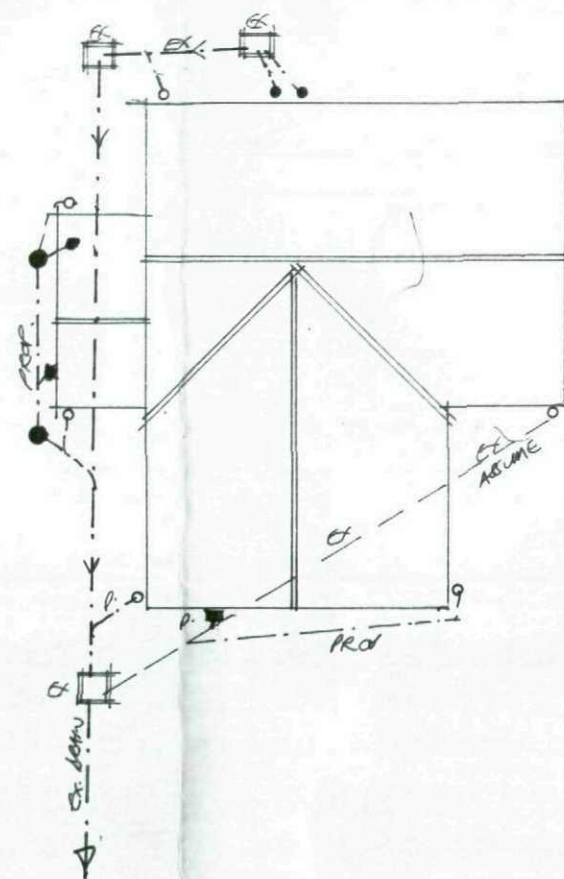


Location
Layout 1:1250



Site Layout
1:500

Drainage Layout 1:200



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

PROJECT	Various Extensions
CLIENT	Mr. K. Taylor
TITLE	Site & Location Layouts
ADDRESS	"Delgarth", 155 Smithies Ln, Smithies, Barnsley. S71 1NL
DRAWN BY	ggg
SCALE	as shown
DATE	Feb 12
DRAWING No	752-01
REV	

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

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	0.6 or less, except where situated in a chamber	150 x 100	150	150 x 100
large	225 x 100		225 x 100	225	225 x 100
Inspection chamber					
shallow	0.6 or less	225 x 100	190	Min 430 x 430	190
deep	1.2 or less	450 x 450	450	max 300 x 300	430
	> 1.2	450 x 450	450		Access restricted to max 350

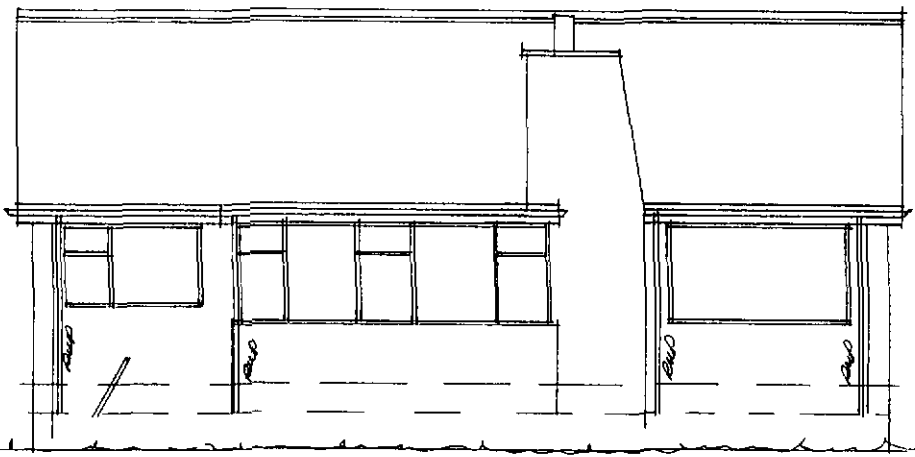
Notes:
 1. The clear opening may be reduced by 20 mm in order to provide proper support for the cover and frame.
 2. Drains up to 150mm.
 3. A larger clear opening cover may be used in conjunction with a restricted access. The size is restricted for health and safety reasons to deter entry.

Table 12 Minimum dimensions for manholes

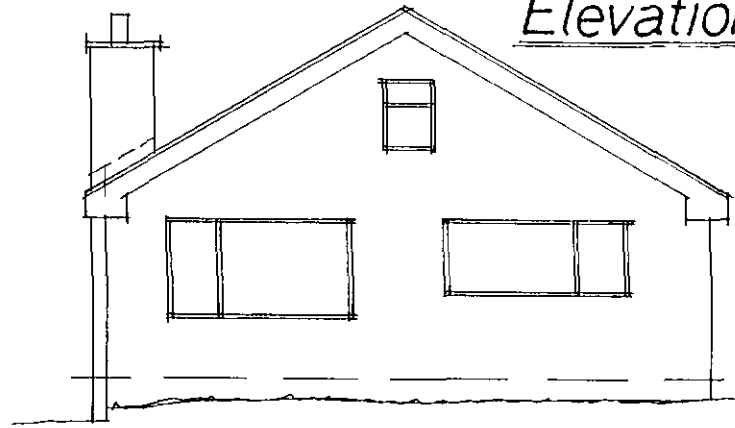
Type	Size of largest pipe (DN)	Min internal dimensions		Min clear opening size	
		Rectangular length and width	Circular diameter	Rectangular length and width	Circular diameter
Manhole					
< 1.5m deep to soffit	≤ 150	750 x 675	1000	750 x 675	na
	225	1200 x 675	1200	1200 x 675	
	300	1200 x 750	1200		
	>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:
 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 (ie any drain serving more than one property) should be 1200 mm x 675 mm rectangular or 1200 mm diameter.

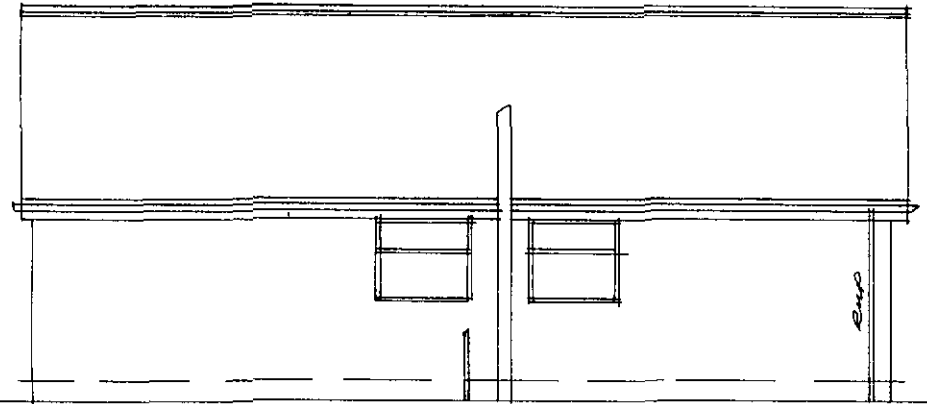
Elevations



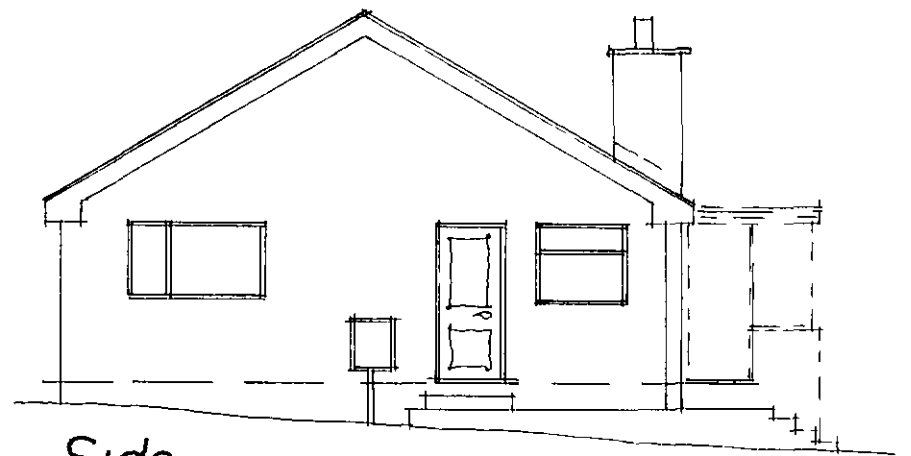
Front



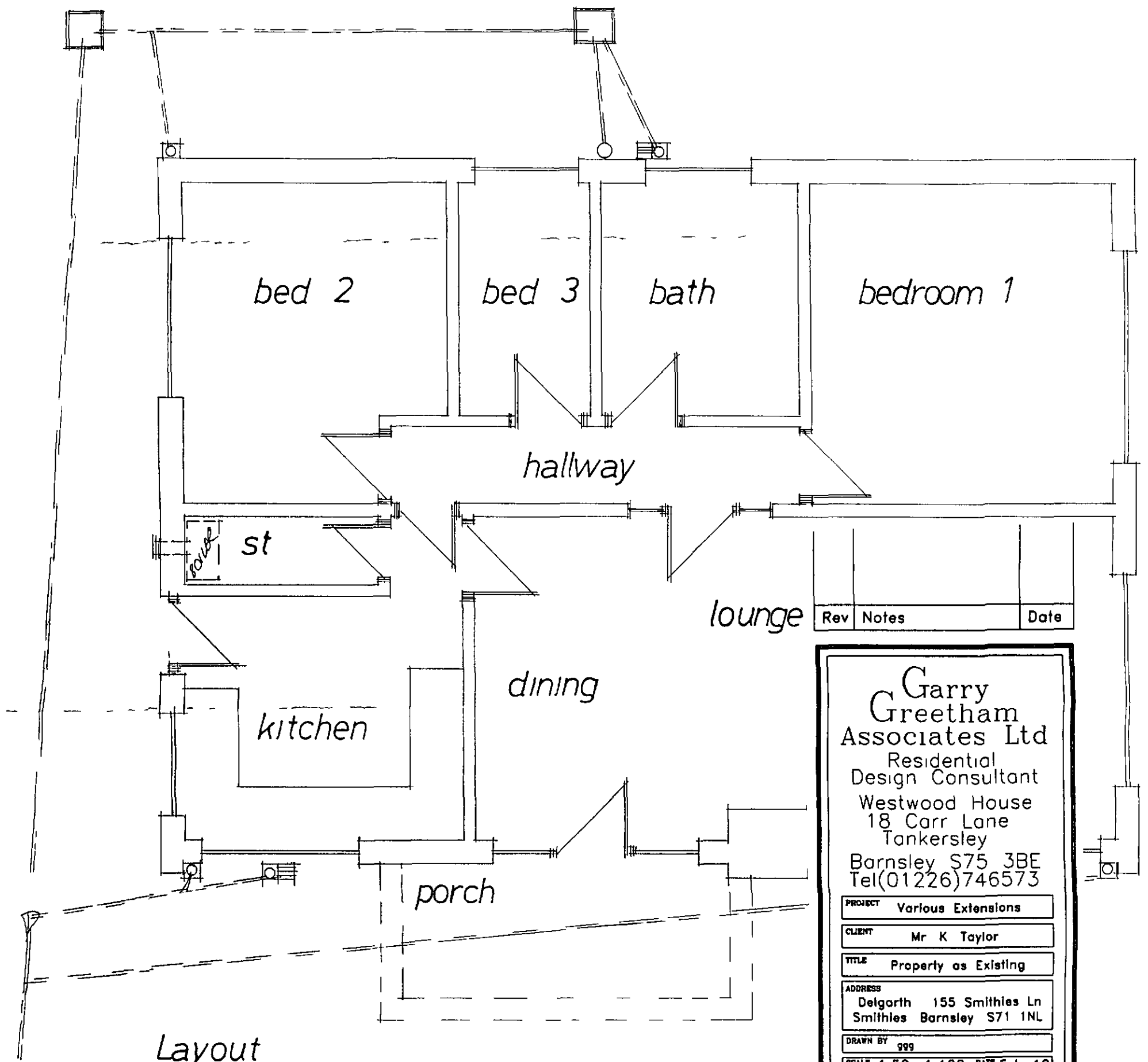
Side



Rear



Side

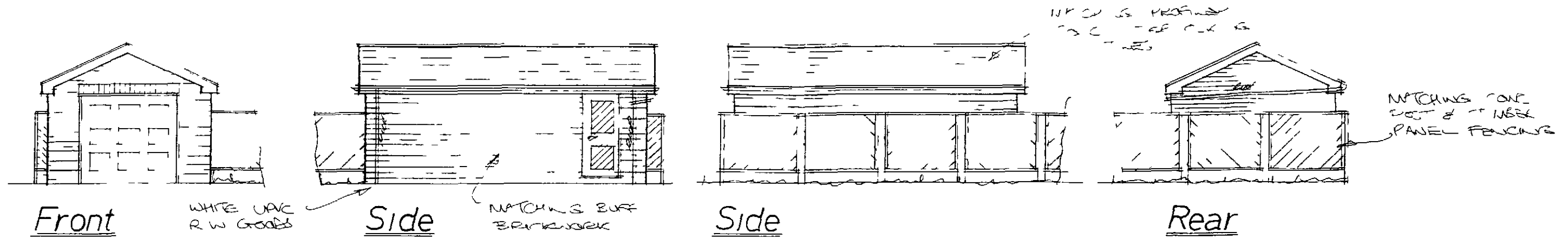


Layout

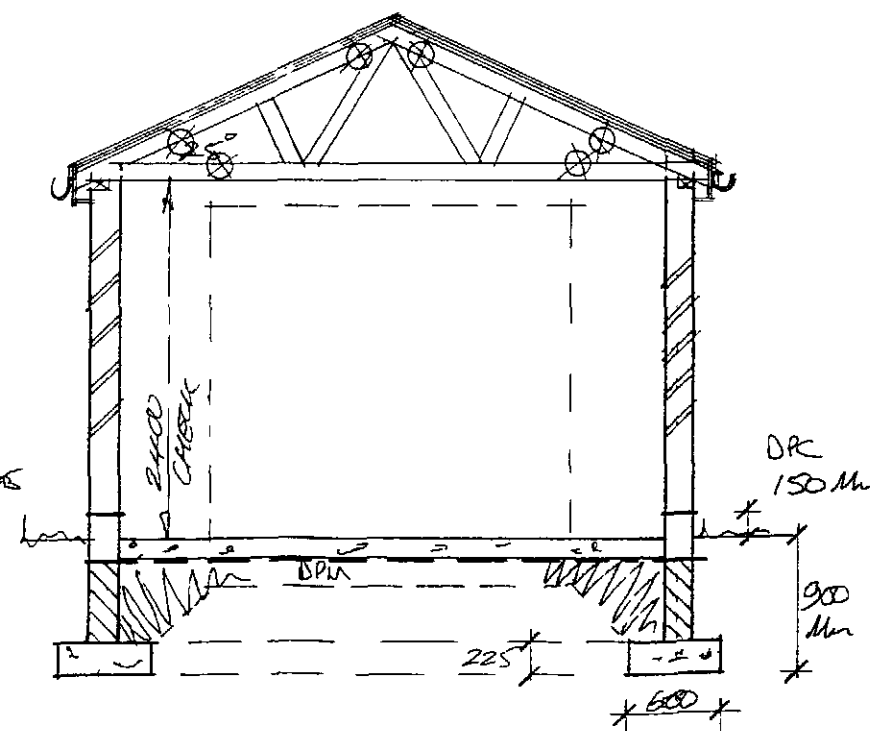
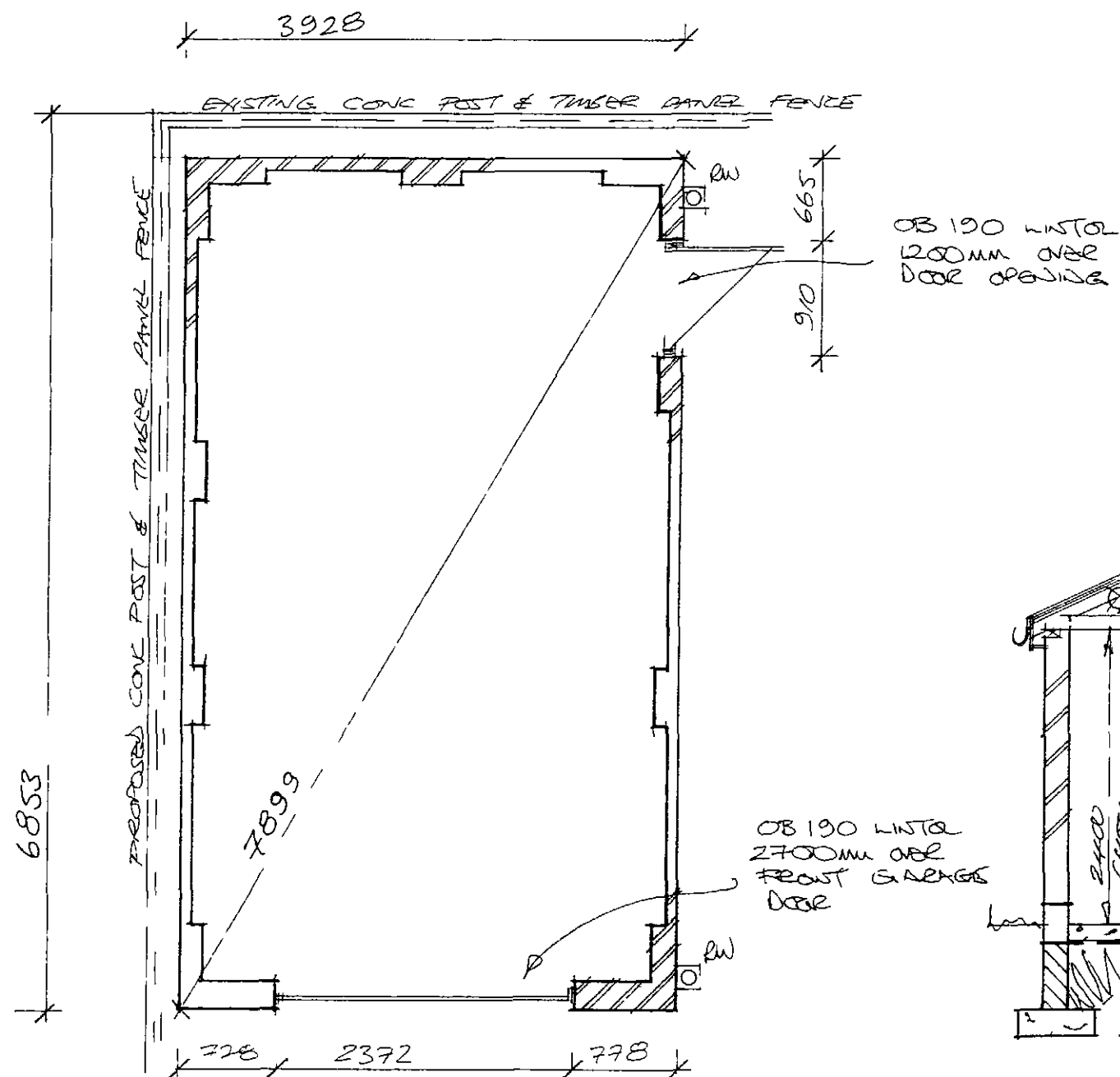
Rev	Notes	Date
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Garry Greetham Associates Ltd	
Residential Design Consultant	
Westwood House	
18 Carr Lane	
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Barnsley S75 3BE	
Tel(01226)746573	
PROJECT	Various Extensions
CLIENT	Mr K Taylor
TITLE	Property as Existing
ADDRESS	Delgorth 155 Smithies Ln Smithies Barnsley S71 1NL
DRAWN BY	ggg
SCALE	1 50, 1 100 DATE Feb 12
DRAWING No	752-02 REV
M mbe f th Chg te ed f f f P A n l l l l n log l	

Elevations



Layout



Rev	Notes	Date

Garry Greetham Associates Ltd
 Residential Design Consultant
 Westwood House
 18 Carr Lane
 Tankersley
 Barnsley S75 3BE
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PROJECT	Various Extensions
CLIENT	Mr K Taylor
TITLE	Detached Garage
ADDRESS	Delgarth 155 Smithies Ln Smithies Barnsley S71 1NL
DRAWN BY	999
SCALE	1:50, 1:100 DATE Feb 12
DRAWING No	752-05 REV
Member of the Chartered Institute of Architectural Technologists	