SITE SURVEY

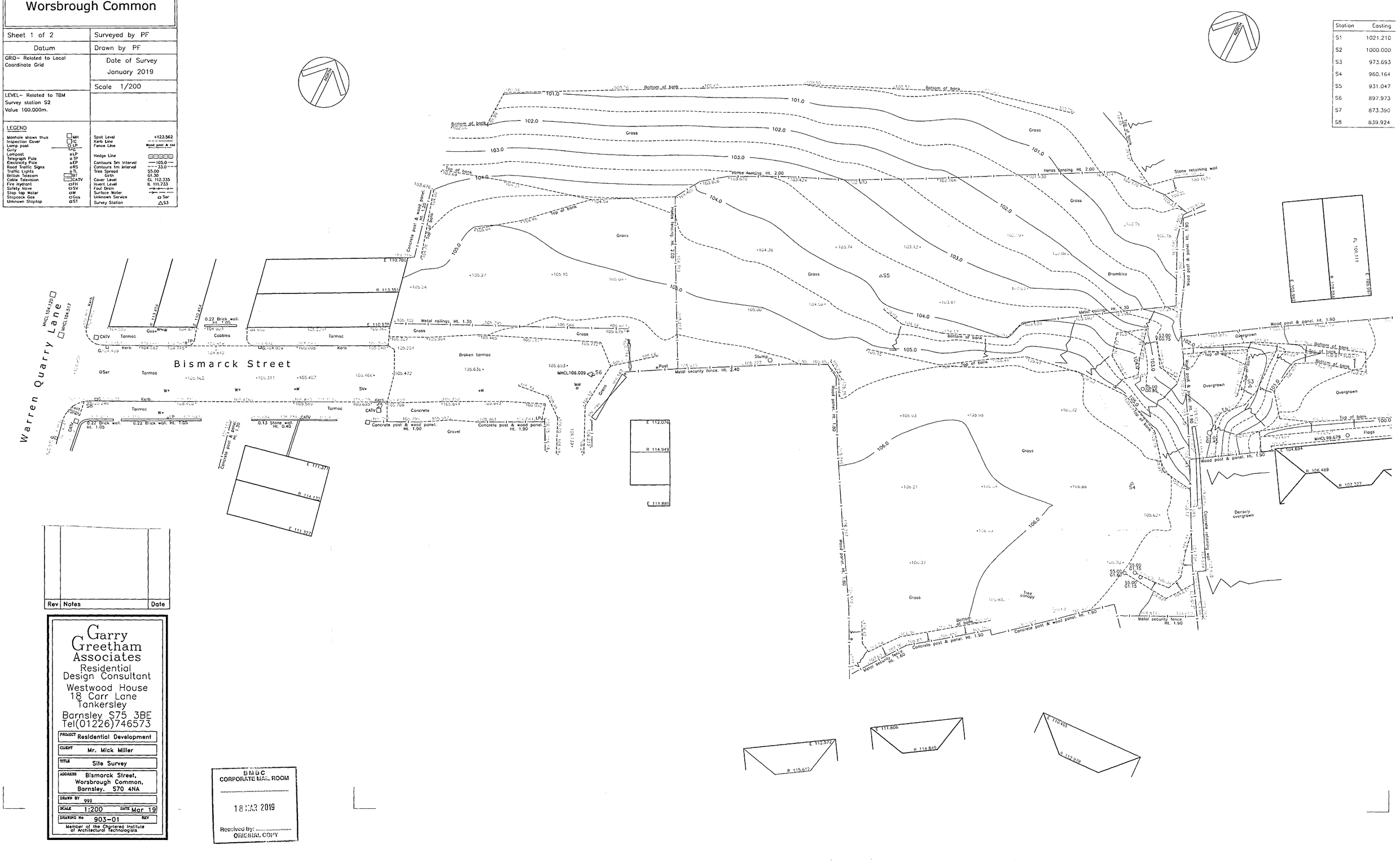
Bismarck Street
Worsbrough Common

Sheet 1 of 2	Surveyed by PF
Datum	Drawn by PF
GRID– Related to Local Coordinate Grid	Date of Survey January 2019
	Scale 1/200
LEVEL– Related to TBM Survey station S2 Value 100.000m.	

LEGEND

Manhole shown thus	□MH	Spot Level	+123.562
Inspection Cover	□IC	Kerb Line	
Lamp post	○LP	Fence Line	Wood post & rail
Gully	□G		
Lampost	oLP	Hedge Line	
Telegraph Pole	o TP		
Electricity Pole	oEP	Contours 5m Interval	—105.0—
Road Traffic Signs	oRS	Contours 1m Interval	---33.0---
Traffic Lights	o TL	Tree Spread	S5.00
British Telecom	□BT	Girth	G1.30
Cable Television	□CATV	Cover Level	CL 112.335
Fire Hydrant	□FH	Invert Level	IL 111.733
Safety Valve	□SV	Foul Drain	
Stop tap Water	□W	Surface Water	
Stopcock Gas	□Gas	Unknown Service	□ Ser
Unknown Stoptap	□ST	Survey Station	△S3

Station	Easting
S1	1021.210
S2	1000.000
S3	973.693
S4	960.164
S5	931.047
S6	897.973
S7	873.390
S8	839.924



Rev	Notes	Date

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PROJECT	Residential Development
CLIENT	Mr. Mick Miller
TITLE	Site Survey
ADDRESS	Bismarck Street, Worsbrough Common, Barnsley. S70 4NA
DRAWN BY	ggg
SCALE	1:200 DATE Mar 19
DRAWING No	903-01 REV

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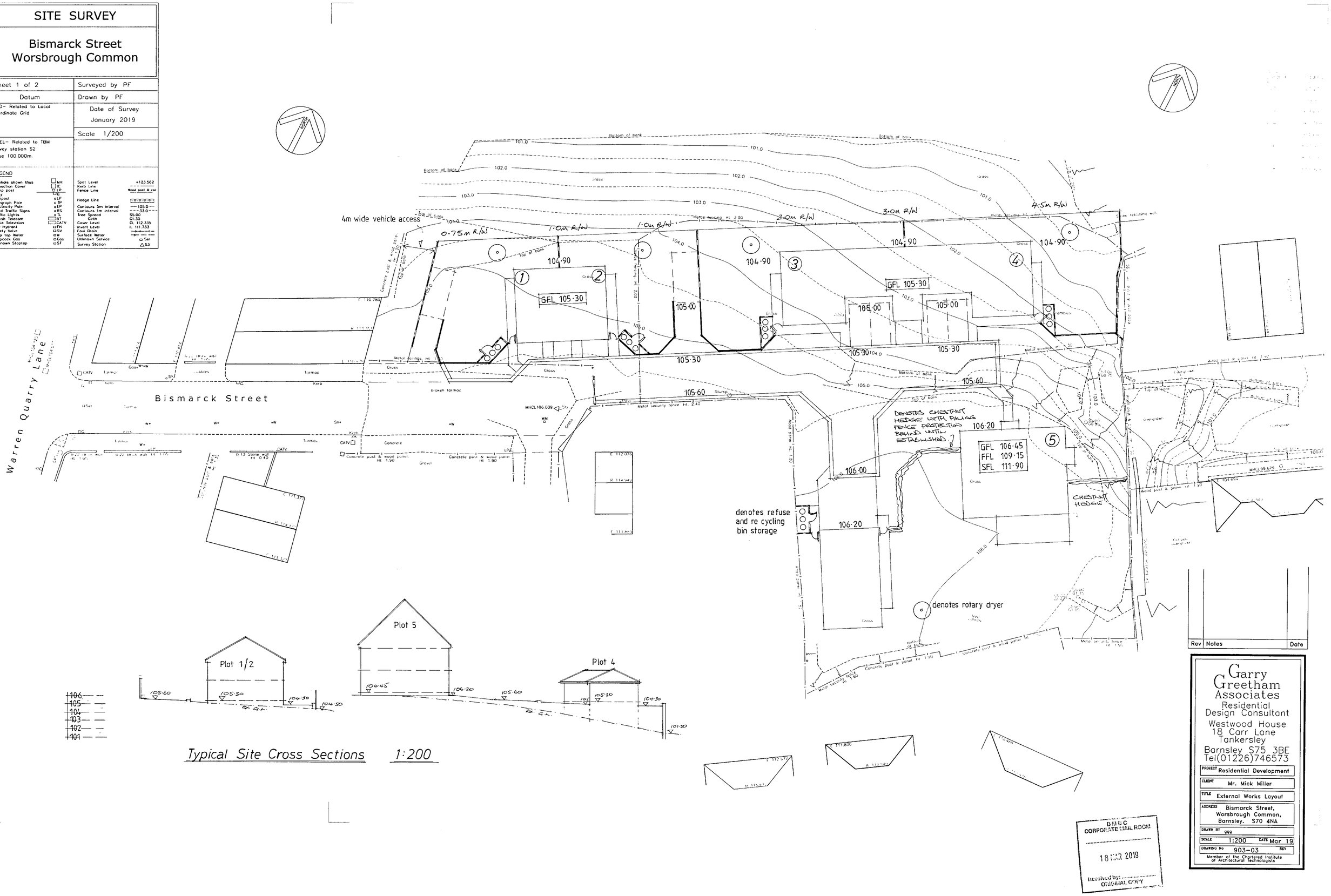
SITE SURVEY

Bismarck Street
Worsbrough Common

Sheet 1 of 2	Surveyed by PF
Datum	Drawn by PF
GRID– Related to Local Coordinate Grid	Date of Survey January 2019
	Scale 1/200
LEVEL– Related to TBM Survey station S2 Value 100.000m.	

LEGEND

Manhole shown thus	MH	Spot Level	+123.562
Inspection Cover	IC	Kerb Line	
Lamp post	LP	Fence Line	Wood post & rail
Gully			
Lamppost	LP	Hedge Line	
Telegraph Pole	TP		
Electricity Pole	EP	Contours 5m interval	105.0
Road Traffic Signs	RS	Contours 1m interval	33.0
Traffic Lights	TL	Tree Spread	SS.00
British Telecom	BT	Girth	G1.30
Cable Television	CATV	Cover Level	CL 112.335
Fire Hydrant	FH	Invert Level	IL 111.733
Safety Valve	SV	Foul Drain	
Stop tap Water	SW	Surface Water	
Stopcock Gas	Gas	Unknown Service	Ser
Unknown Stoptap	ST	Survey Station	S3



Typical Site Cross Sections 1:200

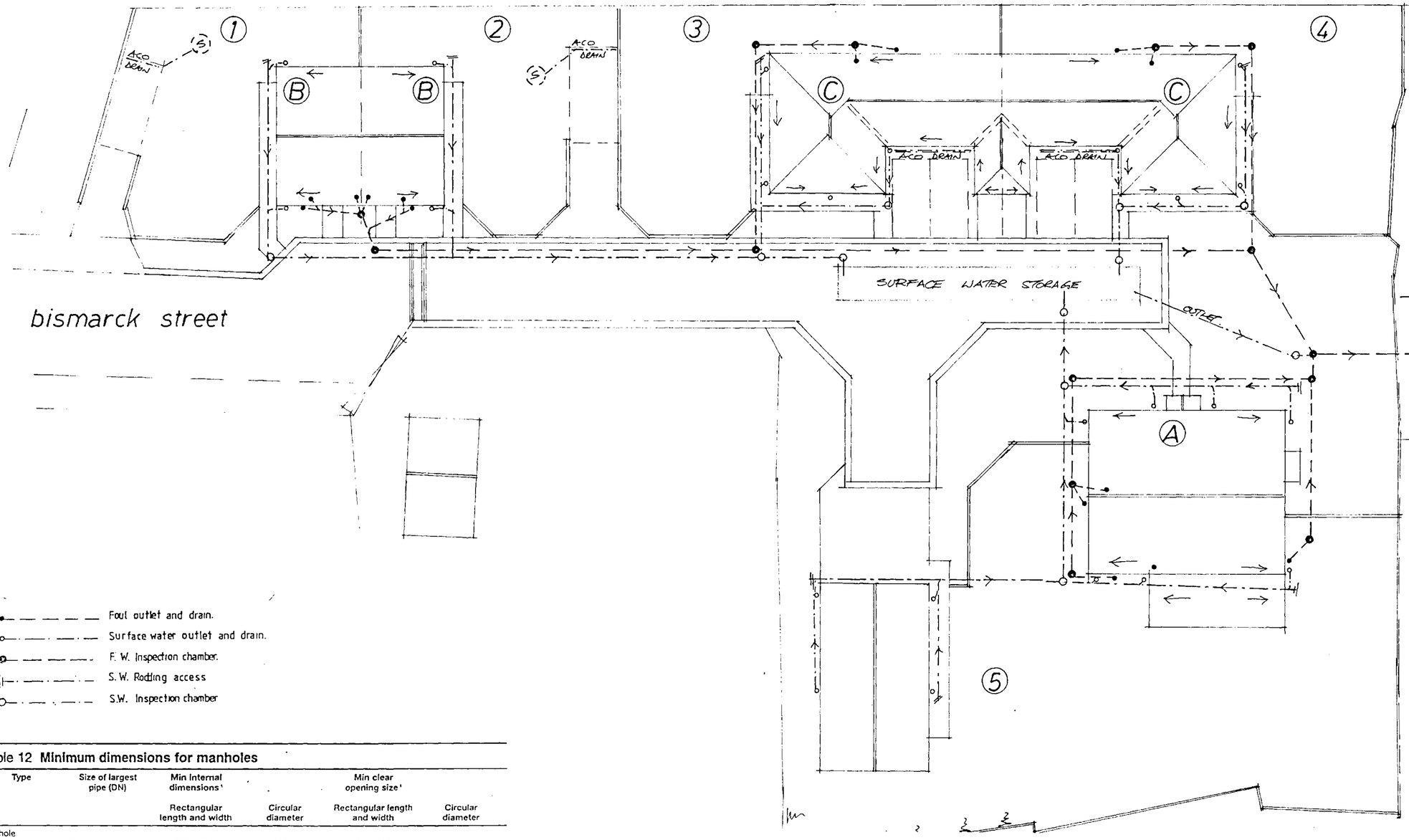
Rev	Notes	Date

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PROJECT	Residential Development
CLIENT	Mr. Mick Miller
TITLE	External Works Layout
ADDRESS	Bismarck Street, Worsbrough Common, Barnsley. S70 4NA
DRAWN BY	GGG
SCALE	1:200 DATE Mar 19
DRAWING No	903–03 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 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[2]	1000[2]	750 x 675[2]	na[3]
	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[5]	1050 x 800	1050	600 x 600	600
	Ladder[6]	1200 x 800	1200		
	Winch[7]	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 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
	1.2 or less	450 x 450 [2]	450	Min 430 x 430	430
deep	> 1.2	450 x 450	450	max 300 x 300[3]	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.

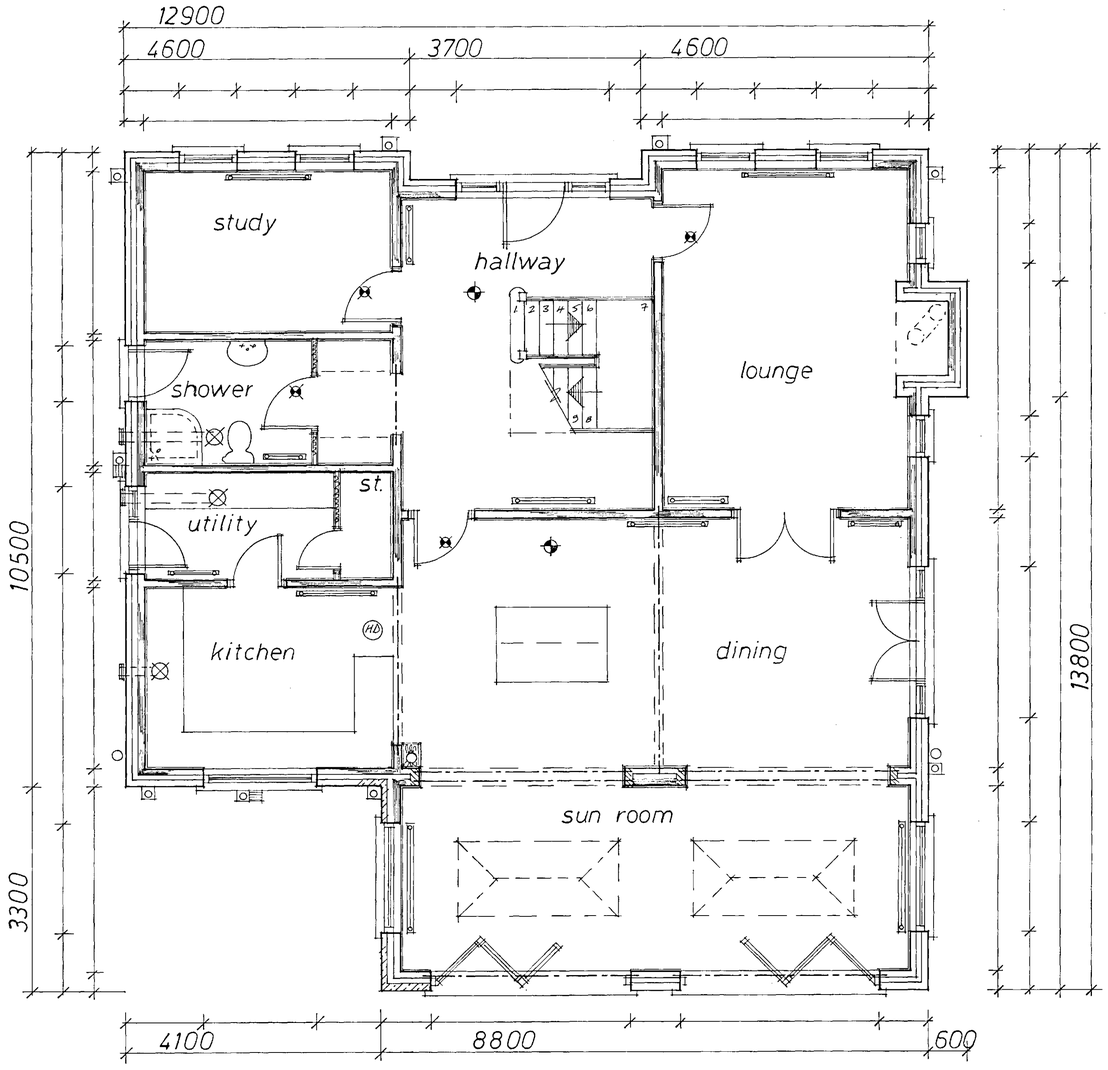
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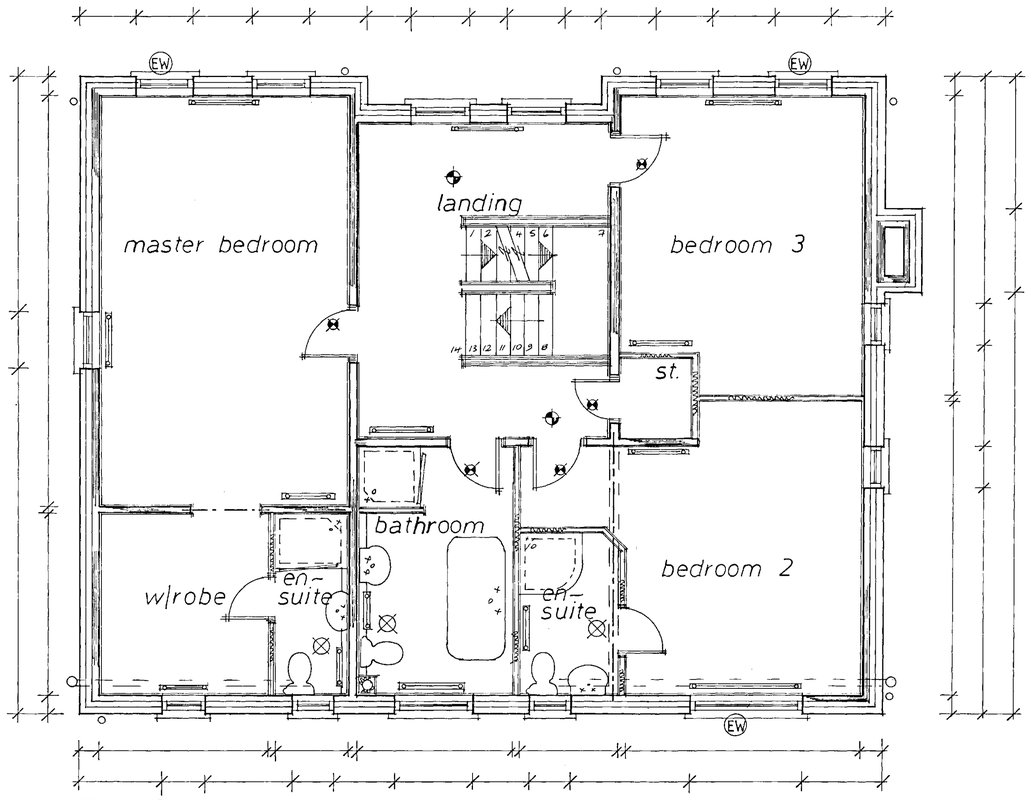
PROJECT	Residential Development
CLIENT	Mr. Mick Miller
TITLE	Drainage Layout
ADDRESS	Bismarck Street, Worsbrough Common, Barnsley. S70 4NA
DRAWN BY	ggg
SCALE	1:200
DATE	Mar 19
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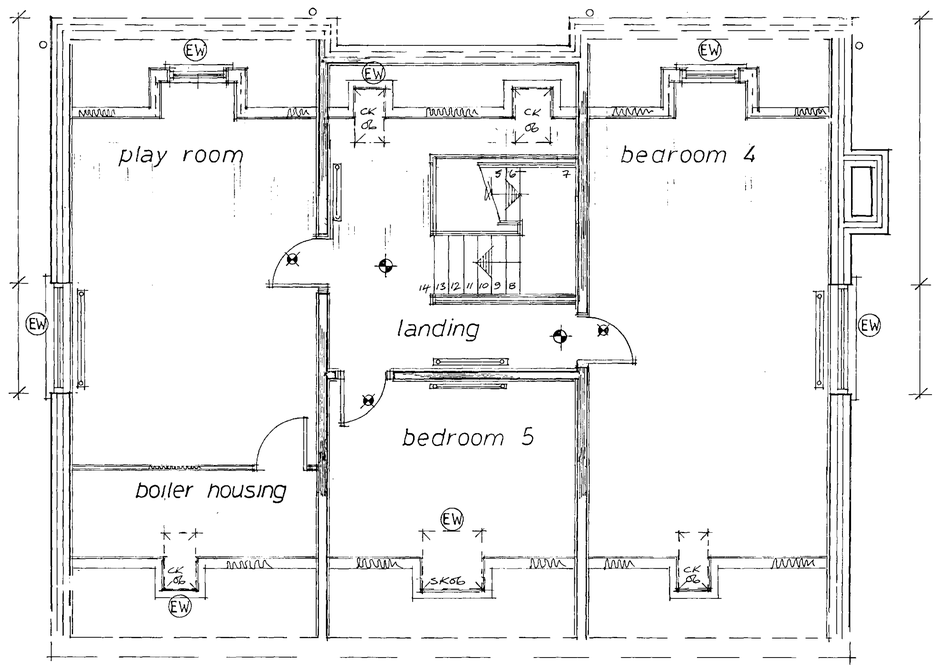
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Ground Floor



First Floor



Second Floor

Rev	Notes	Date

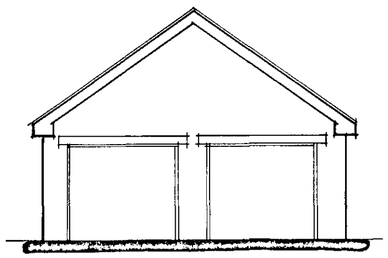
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PROJECT	Residential Development
CLIENT	Mr. Mick Miller
TITLE	Type A – Layouts
ADDRESS	Bismarck Street, Worsbrough Common, Barnsley. S70 4NA
DRAWN BY	ggg
SCALE	1:50
DATE	Mar 19
DRAWING No	903–06
REV	

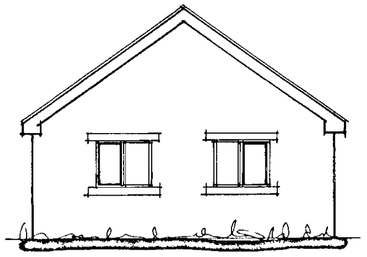
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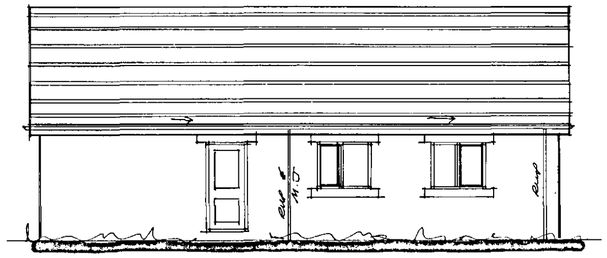
Elevations



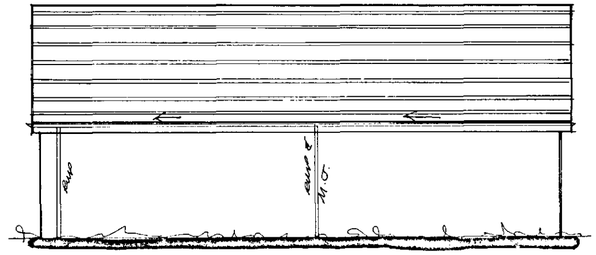
Front



Rear



Side



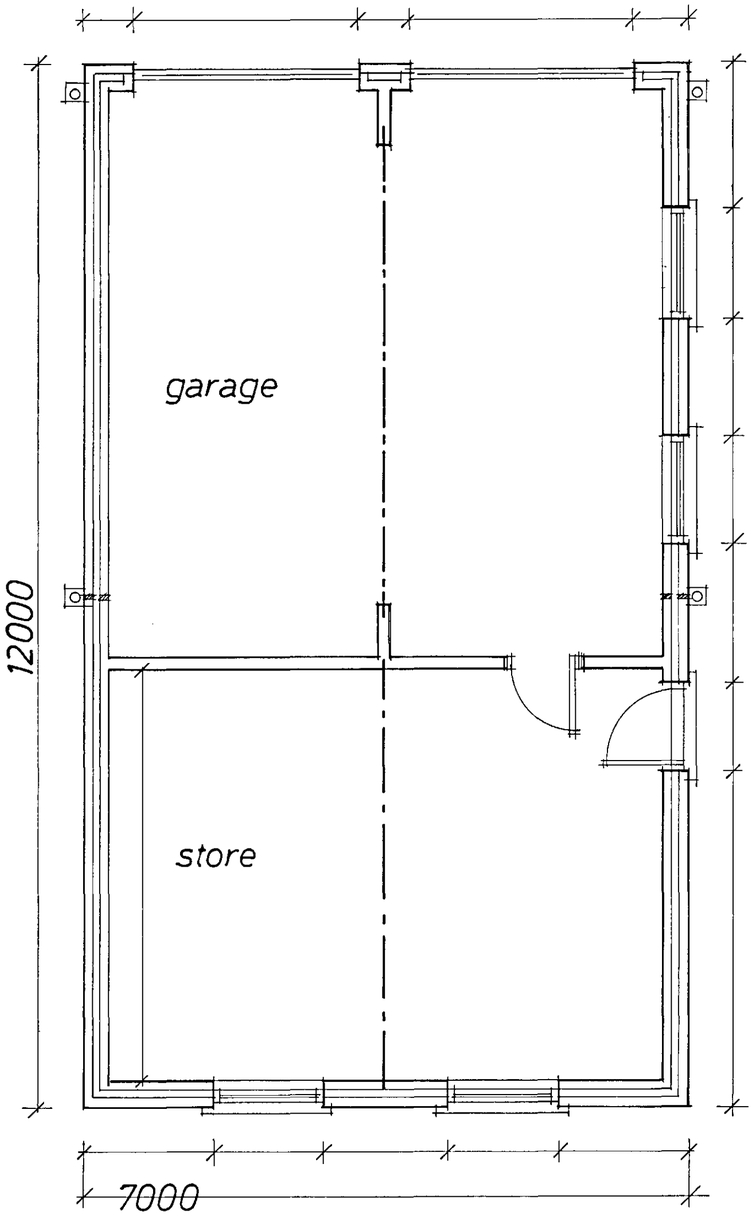
Side

GREY COLOURED FLAT PROFILE CONCRETE INTERLOCKING TILES.

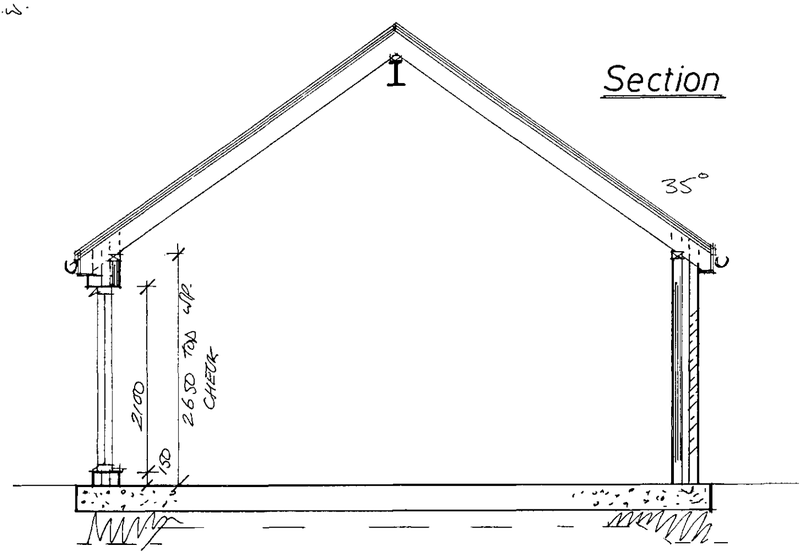
NATURAL COURSED STONE.

BLACK UPVC R.W. GOODS.

Layout



Section



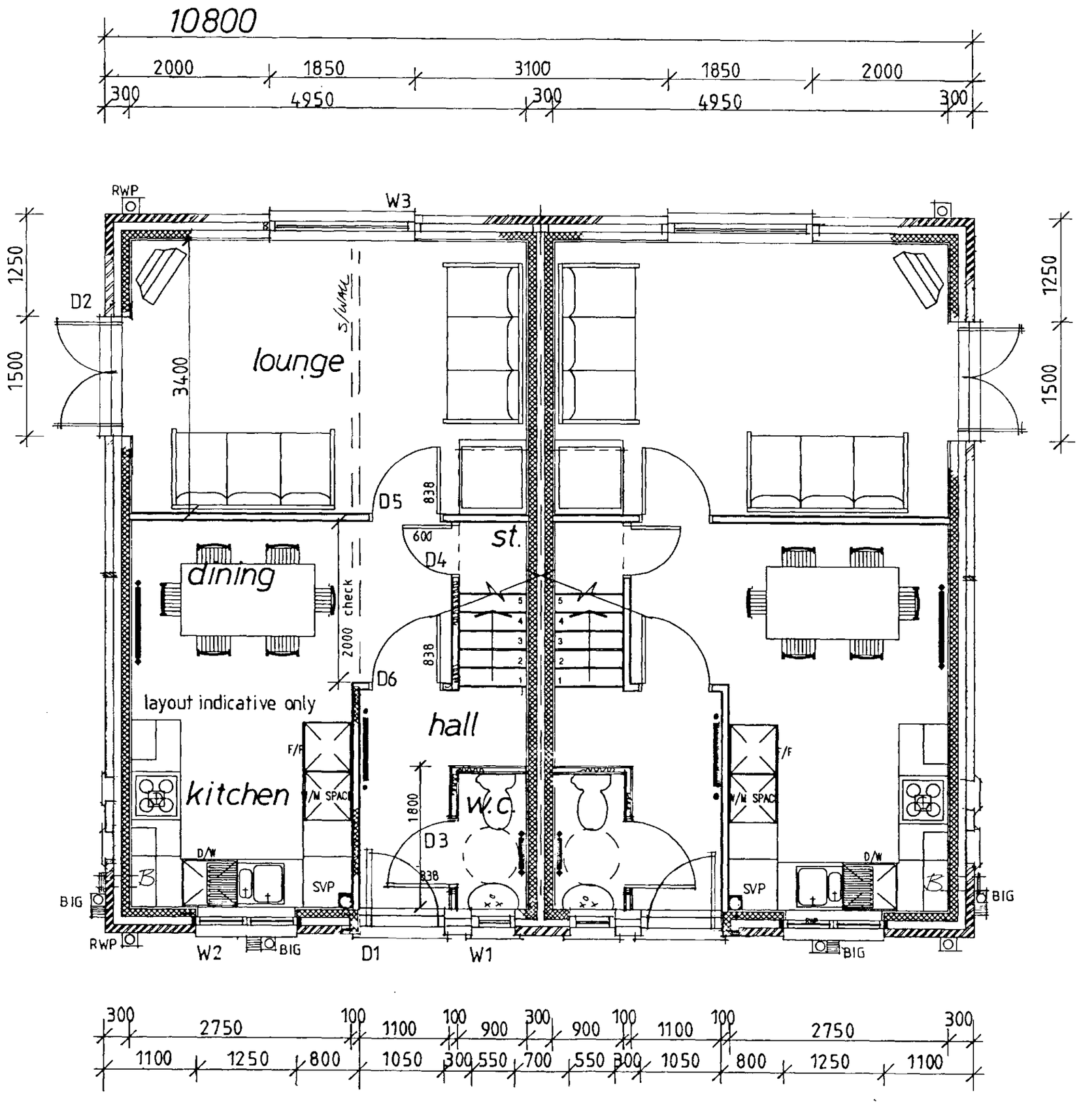
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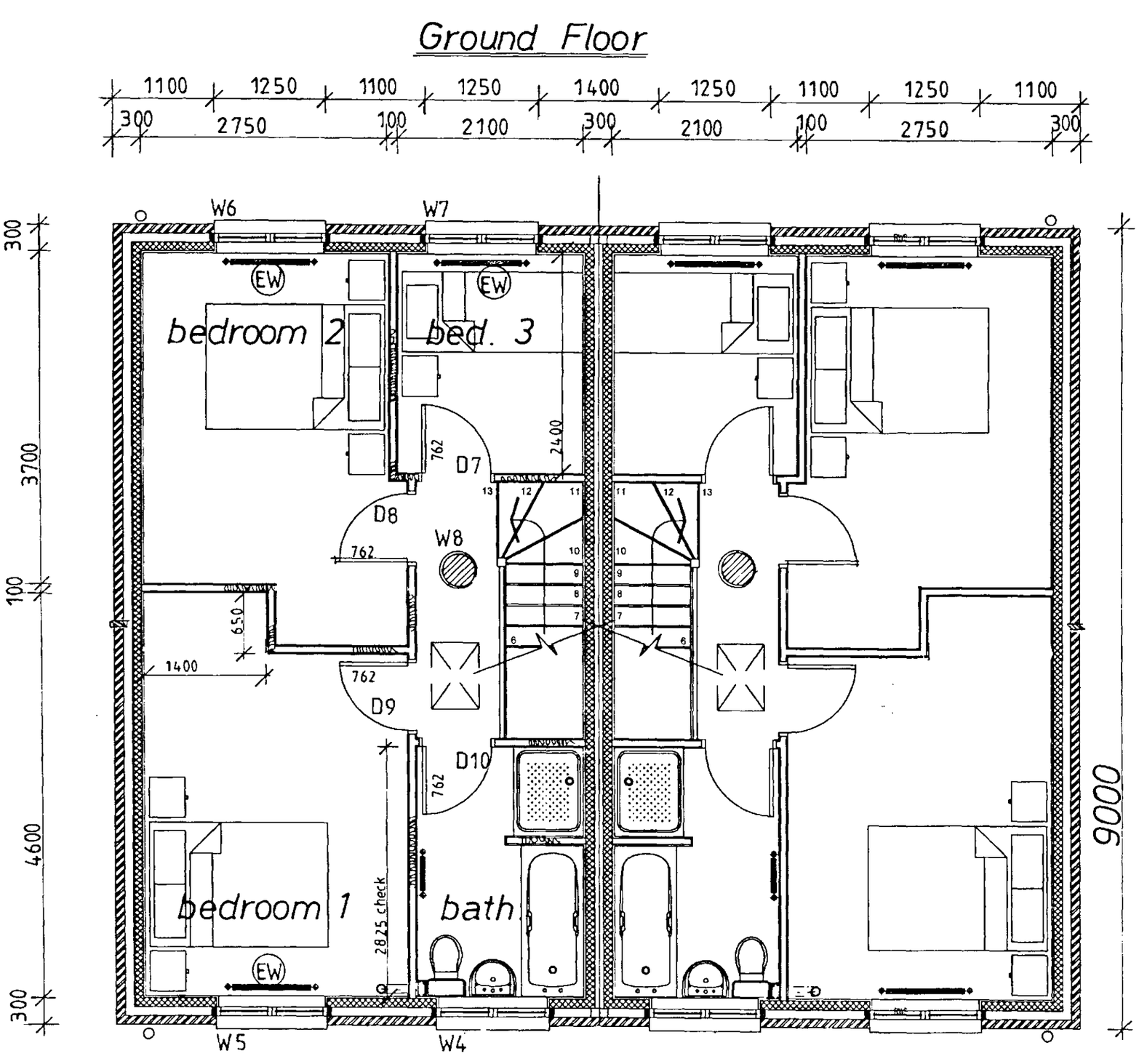
PROJECT	Residential Development
CLIENT	Mr. Mick Miller
TITLE	Type A – Detached Garage
ADDRESS	Bismarck Street, Worsbrough Common, Barnsley. S70 4NA
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SCALE	1:100; 1:50
DATE	Mar 19
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Ground Floor



First Floor

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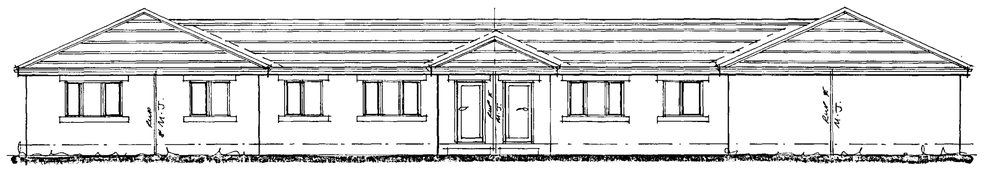
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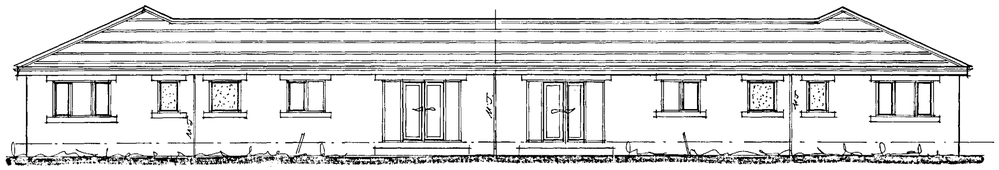
PROJECT	Residential Development
CLIENT	Mr. Mick Miller
TITLE	Type B – Layouts
ADDRESS	Bismarck Street, Worsbrough Common, Barnsley. S70 4NA
DRAWN BY	ggg
SCALE	1:50
DATE	Mar 19
DRAWING No	903-13
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Elevations

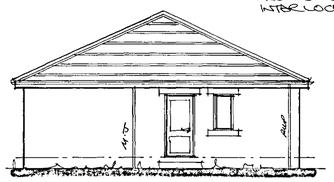


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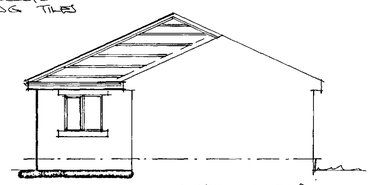


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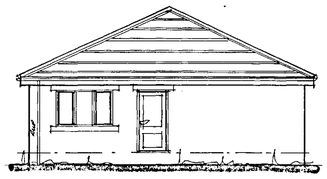
GREY COLOURED FLAT PROFILE CONCRETE INTERLOCKING TILES



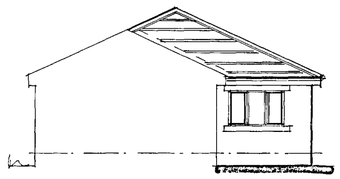
Side



Mid Side

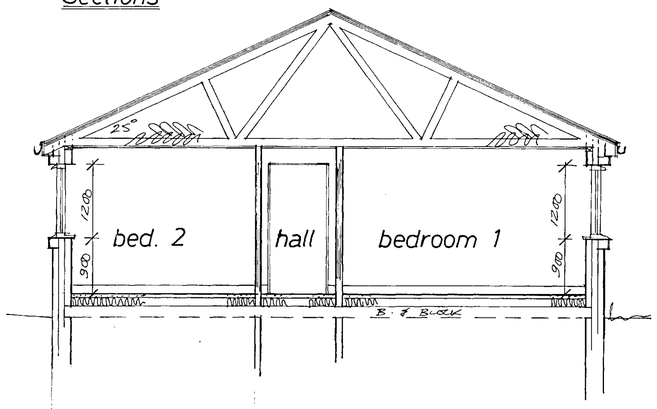


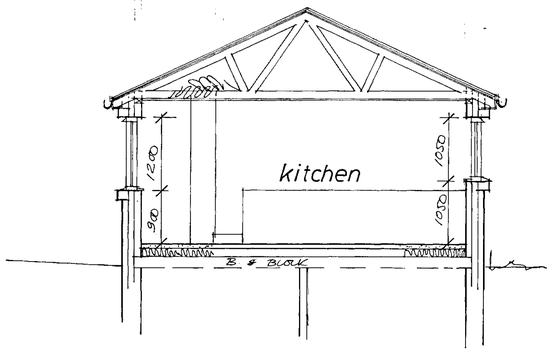
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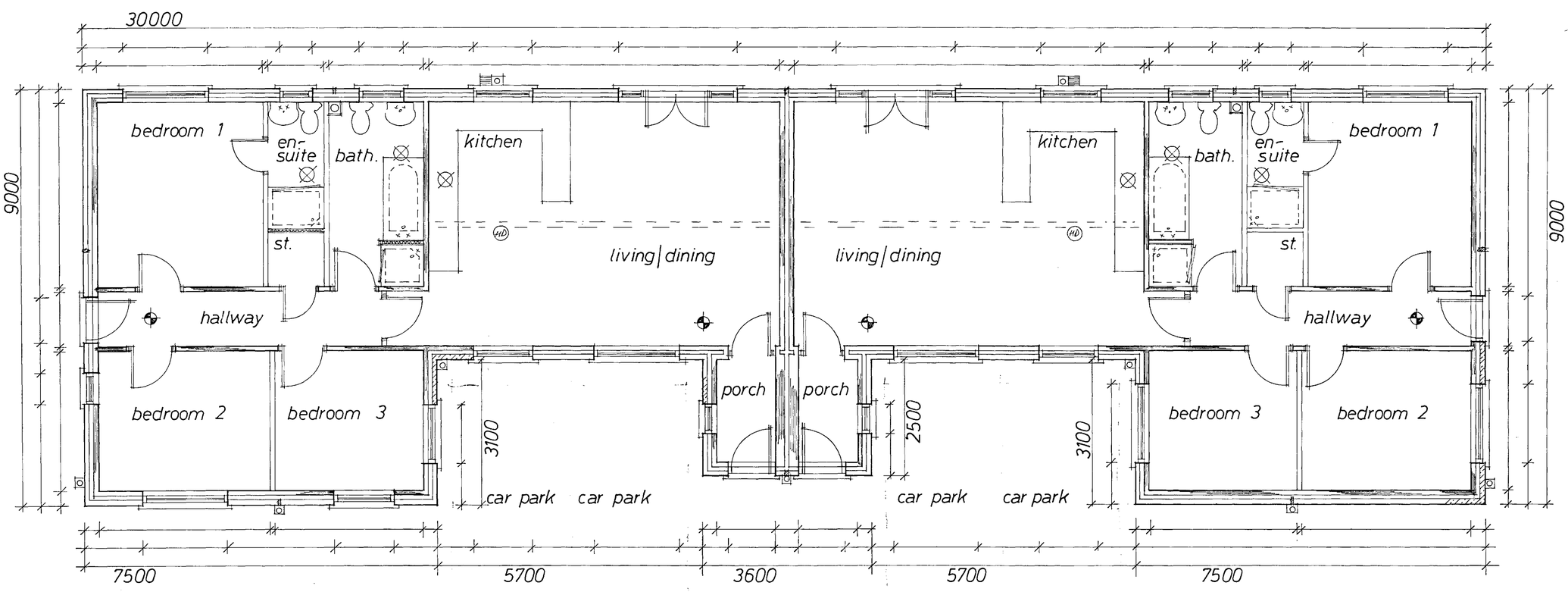
Mid Side

Sections





Layout



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PROJECT	Residential Development
CLIENT	Mr. Mick Miller
TITLE	Type C-Working Drawings
ADDRESS	Bismarck Street, Worsbrough Common, Barnsley. S70 4NA
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SCALE	1:100; 1:50 DATE Mar 19
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