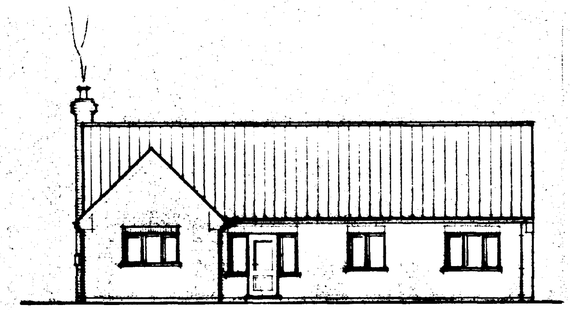
Construction work to be carried out with due regard to the Construction (Design & Management) Regulations 1994 (CDM) and the Health & Safety at Work etc Act 1974 (HSW Act).

ELMHURST ENERGY SYSTEMS LTD

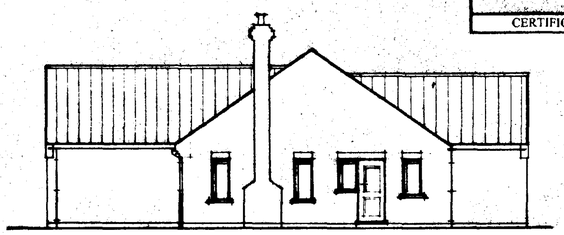
SAP ENERGY EFFICIENCY RATING

71

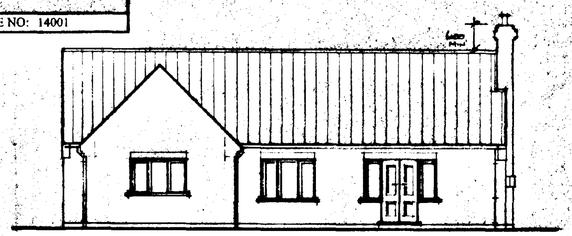
CERTIFICATE NO: 14001



FRONT



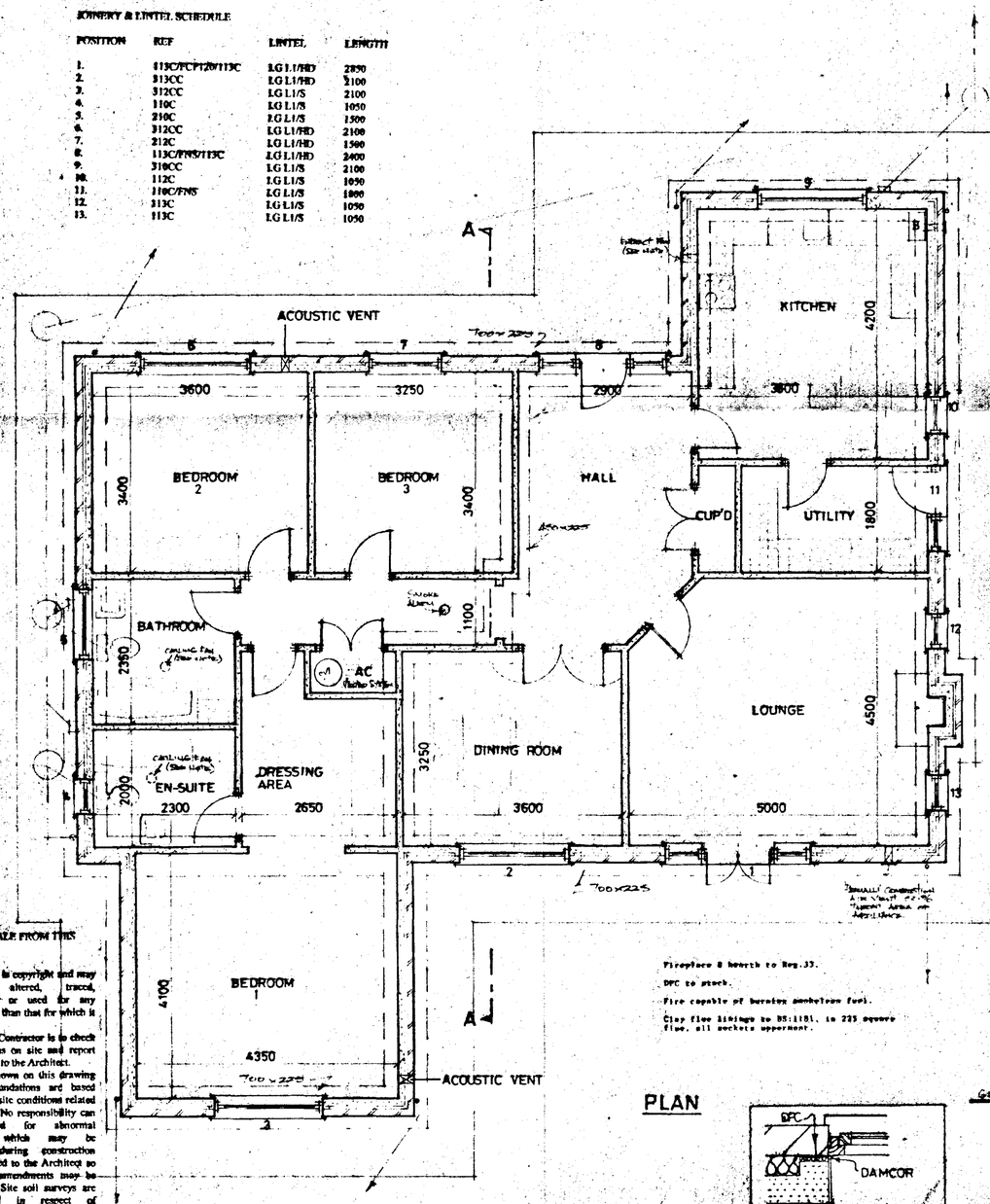
SIDE



REAR

JOINERY & LINTEL SCHEDULE

POSITION	REF	LINTEL	LENGTH
1.	113C/FC/120/113C	LG L1/HD	2850
2.	113CC	LG L1/HD	2100
3.	312CC	LG L1/S	2100
4.	110C	LG L1/S	1050
5.	210C	LG L1/S	1500
6.	312CC	LG L1/HD	2100
7.	212C	LG L1/HD	1500
8.	113C/FWS/113C	LG L1/HD	2400
9.	310CC	LG L1/S	2100
10.	112C	LG L1/S	1050
11.	110C/FWS	LG L1/S	1000
12.	313C	LG L1/S	1050
13.	113C	LG L1/S	1050



PLAN

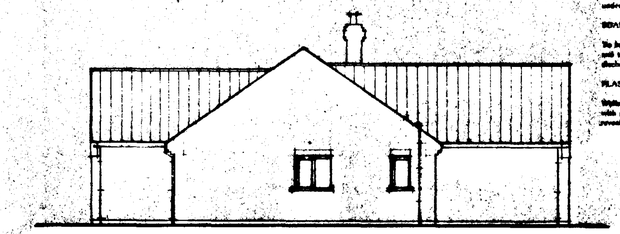
Fireplace & hearth to Reg.33.

DPC to stack.

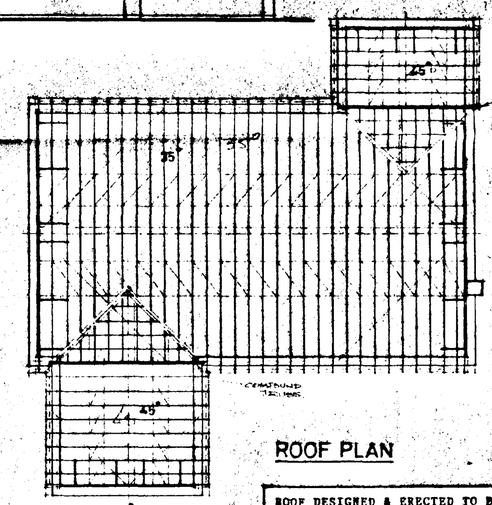
Fire capable of burning smokeless fuel.

Clay flue linings to BS:1181, to 225 square flue, all sockets uppermost.

JAMB DETAIL



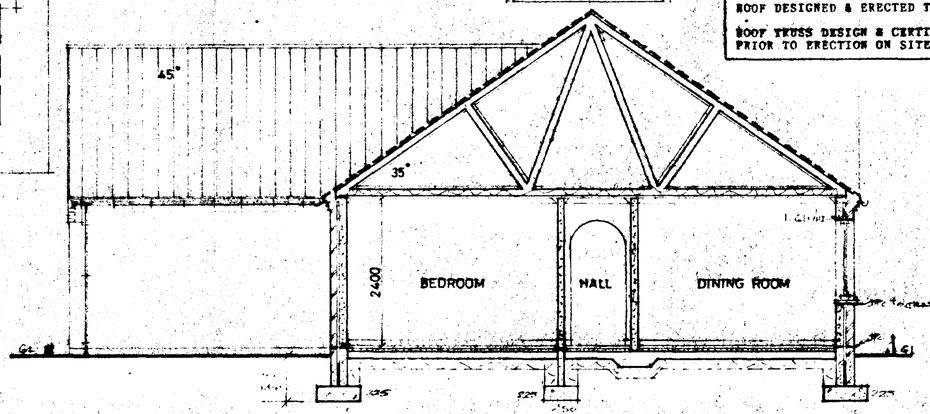
SIDE



ROOF PLAN

ROOF DESIGNED & ERECTED TO BS:5268. PART 3, 1985.

ROOF TRUSS DESIGN & CERTIFICATE TO BE SUPPLIED PRIOR TO ERECTION ON SITE.



SECTION-AA

ROOF CONSTRUCTION

Roofs to be constructed in accordance with and to the plans shown on the drawings. All timbers to be G.S grade softwood properly seasoned and to an acceptable moisture content for carcassing timber where traditional roof. Where trussed rafters adopted they shall be of an approved manufacturer and designed, assembled, erected and braced in accordance with B.S 5268, Part 3, 1985

ROOF COVERINGS

Concrete interlocking tiles to be fixed in accordance with the manufacturers instructions and BS 5534 Pt 1, 1978. Battens 38 x 25 at gauge centres on underside Type 1F sarking felt with minimum 150mm laps

STRAPPING

Provide and fix 30mm x 5mm galvanised mild steel straps at 1.8 metre centres to anchor roof plate to blockwork walling

INSULATION

Lay 300mm PINKGLASS between joists and insulation minimum 50mm gap between top of insulation and sarking felt where insulation runs up to roof slope

ROOF VENTILATION

9mm plywood with 12mm continuous gap to soffit board. Provide fine mesh thymsol screen to ventilation gap

FASCIAS

To be wood on 25mm thymsol thickness painted preservated with primer for soffit. Frame out in 38 x 25 S/W for soffit support

RAINWATER GOODS

PVC gutters 115mm for soil division pipe to system including all branch outlets, clips, brackets, connectors, etc and connect to underground drain to soakaway

SOAKAWAYS

To be a minimum 5.0 metres from any building and to be 1 cu m rubble filled with inlet pipe discharging to centre of soakaway

PLASTERWORK

Walls to be plastered coloured/thymsol number with skim finish a total of 13mm thick including internal and finish soffits

CEILINGS

Provide and fix 12.5mm GYPROC Wallboard to all new ceilings. Ring all penetrations and board joints prior to fixing plasterboard to fully support sheeting. Fix GYPROC coving and ARTEX finish to ceiling

GROUND FLOOR

100mm monitor screed reinforced with chicken wire on 300 gauge polythene separating layer on 75mm Jablite (or similar) polystyrene insulation for 100mm thick ST4 concrete sub floor on 1200 gauge DPM lapped with DPC in walls. 150mm thin hardcore, blinded and compacted. Excavate overside to 600mm deep to remove topsoil of vegetation.

WALLS

Cavity walls to be 300mm overall: 100mm facing brickwork, 50mm dry lining inside, 100mm cavity filled with Tubemaster Ecofill, Approved Cert No. 86/1088 100mm load bearing "Thermalite" insulation blocks. Internal partitions to be in 100mm blockwork walling. Wall ties in cavity walling to be most galvanised wire butterfly type at 900mm centres horizontally and 450mm centres vertically, every alternate tie course to be staggered 450mm. At openings provide one at 225mm centres vertically within 225mm of the openings

DPC STRUCTURE WALLS

To be in YTTPE A damp proof course to brickwork up to ground level. Cavity to be filled with lean mix concrete

VENTILATION

Provide ventilation inlet of trickle to be less than 1/20 of room floor area. All windows to have 4000mm square of night vents. Extractor fans to be provided in kitchen (min 60 litres/sec) and bathrooms and wc (min 15 litres/sec)

SKIRTING AND ARCHITRAVES

Timber mouldings, skirting and architraves to be standard section or as otherwise directed

HOT WATER AND HEATING ETC

Install hot water and heating pipework to provide hot and cold water supplied to all new appliances in the building and provide space heating to all new areas. Radiator positions to be as directed

ELECTRICAL INSTALLATION

All work to be carried out in accordance with the latest I.E.E Regulations. Extend electrical circuits from nearest unit to new socket and install lighting and power points in positions as directed

WALL TILING

Provide and fix to new bathroom to walls over splashback 400 Ritchen window cill and over work tops, ceramic wall tiles with waterproof fix and grout. Tiles to be selected and areas to be tiled to be determined later

WINDOWS AND DOORS

Windows and doors to be in SOUTHERN & PAUL in treated softwood standard woods joinery, unless otherwise indicated. All windows and doors to be double glazed (sealed unit type) Patio doors to be purpose made and fitted with a night vent giving 10,000 sq mm of ventilation opening. All other windows to be fitted with adjustable ventilators in sash or frame head to give minimum 4,000 sq mm ventilation.

IRONMONGERY

Doors, Screws, Bolts, Hinges, cupboards, window board and timber mouldings etc to be of standard manufacturer and be as BOULTON & PAUL or equal approved.

ABOVE GROUND DRAINAGE

Rhwl basin waste to be 32mm dia, soil 100mm dia PVC. Bath and sink waste 40mm dia, use polyplyn trade fit pipework, all traps to be 75mm deep seal, all pipework etc to be assessible throughout their runs for clearning repair and replacement. Connect bath, basin and wc waste to 110mm dia stack. Sink to discharge to back inlet gully with pull out stopper for rodding. Soil and vent stack to be carried 900mm above window heads and fitted with patent weathering terminal

UNDERGROUND DRAINAGE

110mm UPVC pipe to BS 5:00 with 100mm concrete bed and surround. Inspection chambers to be 450mm dia preformed plastics installed to manufacturers instructions complete with cover and frame. Drain runs with less than 300mm ground cover to have paving slab protection over trench on top of pinpoint concrete on consolid bed trench. Omit where concrete path cast over pipe runs

BOILER

New boiler to be gas fired, wall mounted balanced flue type of approximately 18kw output rating. Flue terminal to be fitted with suitable stops guard

PLASTWORK

All flashings, soakaways to be in COPPER & direct lead properly cut, dressed and fixed

DAMP PROOF COURSES

Provide continuous heavy duty polythene dpc material at 150mm minimum above ground level in all leaf of cavity walling, piers and columns. Dpcs to be lubed with dpm. Also provide vertical and horizontal dpcs around openings for windows and doors in cavity walls and similar material as cavity trays over lintels

FOUNDATIONS

Generally to be in mass concrete 1:3:6 x 600mm wide x 225mm thick under cavity walling, 450mm x 225mm under partition walls. Provide floor slab to 250 x 450 wide below non-loadbearing partition walls. Excavations shall be down to a firm consolidated, loadbearing stratum to the approval of the Local Authority Building Control Officer.

LINTELS

To be [illegible] in cavity wall openings generally, unless noted otherwise. Internal door openings in block walls to be I.O. Dan 100 Beam. All lintels to have minimum 150mm end bearing and installed strictly in accordance with the makers instructions

DECORATION

Allow for decorating all new internal joinery full and proper preparation of all surfaces in accordance with the building manufacturers specification

PROTECTED GLAZING AREAS

Provide toughened glass to BS 6206: 1981 to following areas. To all windows within 800 of finished floor level. To all door glazing within 1500 of finished floor level. This applies to side panels also within 300 of door

SMOKE ALARMS

Provide mains operated self-contained smoke alarm that conforms to BS 5446, Part 1. Provide at least one on each floor depending on layout and type in accordance with approved document, Part I. More than one smoke alarm should be inter-connected. Also read in conjunction with approved manufacturers instructions (see position on drawing).

HOT WATER STORAGE

Provide system and installation all controls to British Board of Agrement. System to be vented and insulated in accordance with BS 5615, 1985

Provide thermostatic radiator valve to [illegible] adjust from heating system.

Pipes in roof void which do not form part of heat building to be insulated to BS 5422, 1977

SURVEYED JAN

SOUTH HOLLAND DC HOUSING & PLANNING 10 APR 1997 Ref: [illegible]

A 24.07 Acoustic vents in bedrooms 1 & 2

G. R. MERCHANT

I.ENG AMICE, FIWO.

ARCHITECTURAL, STRUCTURAL & LAND DRAINAGE CONSULTANT

TEL: HOLBEACH (01406) 490800

PROJECT:

3 BEDROOM BUNGALOW OFF PINCHBECK ROAD SPALDING

CLIENT:

VENEMI ASSOCIATES

SCALES: *1/50 1/100*

DATE: *JAN 1997*

G.R MERCHANT

DRAWING No.: *14.672 A*

REVISIONS: A

DO NOT SCALE FROM THIS DRAWING

This drawing is copyright and may not be altered, traced, photographed or used for any purpose other than that for which it is issued.

The General Contractor is to check all dimensions on site and report discrepancies to the Architect.

All details shown on this drawing including foundations are based upon typical site conditions related to the area. No responsibility can be accepted for abnormal conditions which may be discovered during construction unless reported to the Architect so that design amendments may be considered. Site soil surveys are recommended in respect of foundations to establish specific site conditions before foundation work is undertaken.

SUMMIT

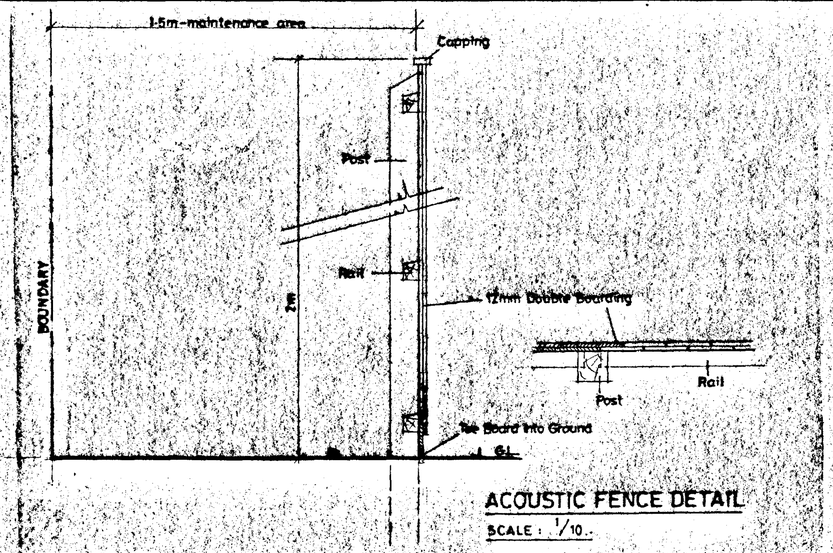
TREE PLANTING SCHEME

A	BEECH - FAGUS SYLVATICA - FEATHERED
B	RED HAWTHORN - CRATAEGUS PAUL'S SCARLET - FEATHERED
C	WHITEBEAM - SORBUS ARIA LUTESCENS - FEATHERED
D	SILVER BIRCH - BETULA PENDULA - FEATHERED
E	BEECH HEDGE - FAGUS SYLVATICA

All planting to be in accordance with BS:4428:1989 and Amendment No. 1 (1991)

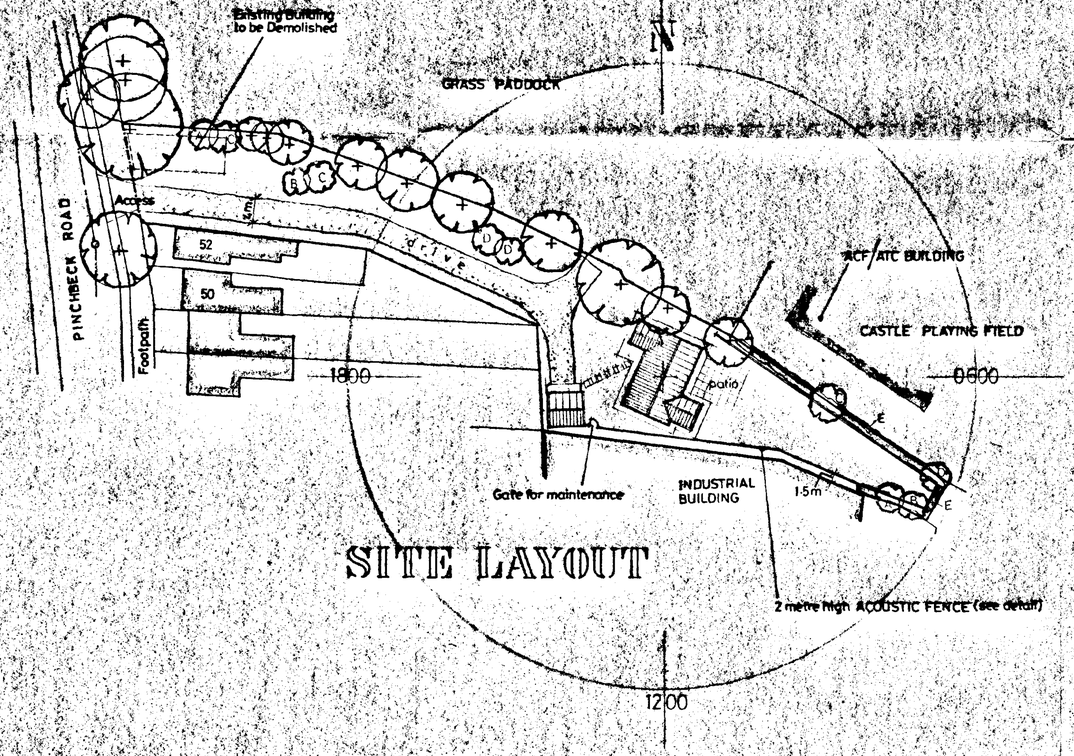
All trees to be planted with minimum 0.6m plastic mulch mat and to be staked, tied and tubed.

1/3 to 1/2 bag of peat free tree and shrub planting compost to be incorporated into backfill for each tree hole.

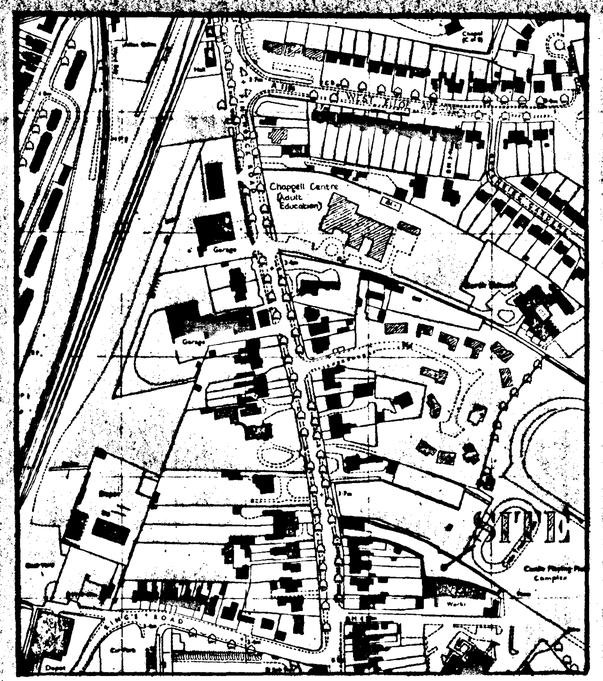


ACOUSTIC FENCE DETAIL

SCALE : 1/10.



SITE LAYOUT



LOCATION PLAN

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DETERMINED PLAN

SOUTH HOLLAND DC HOUSING & PLANNING 10 APR 1997 Ref: H600/97

G. R. MERCHANT

I.ENG AMICE, FIWO,

ARCHITECTURAL, STRUCTURAL & LAND DRAINAGE CONSULTANT

TEL: HOLBEACH (01406) 490800

PROJECT:

RESIDENTIAL DEVELOPMENT OFF PINCHBECK ROAD SPALDING

CLIENT:

JENEMI ASSOCIATES

SCALES:	DATE:
AS INDICATED	*JAN 1997*
G.R. MERCHANT	DRAWING No.: *JA.6/1 A*

REVISIONS:

A