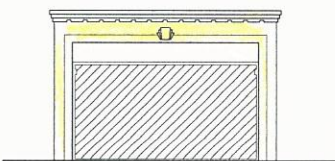
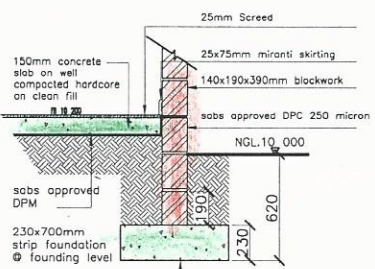


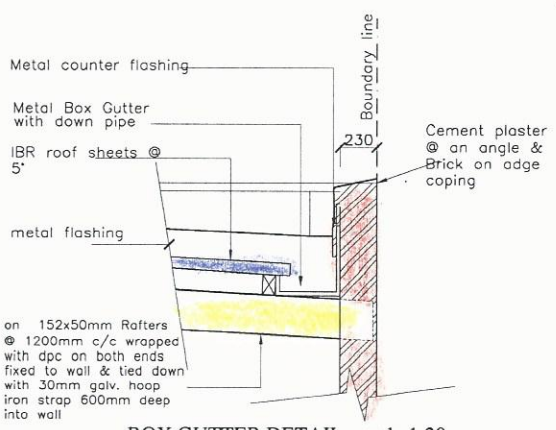
STREET ELEVATION  
Scale 1:100



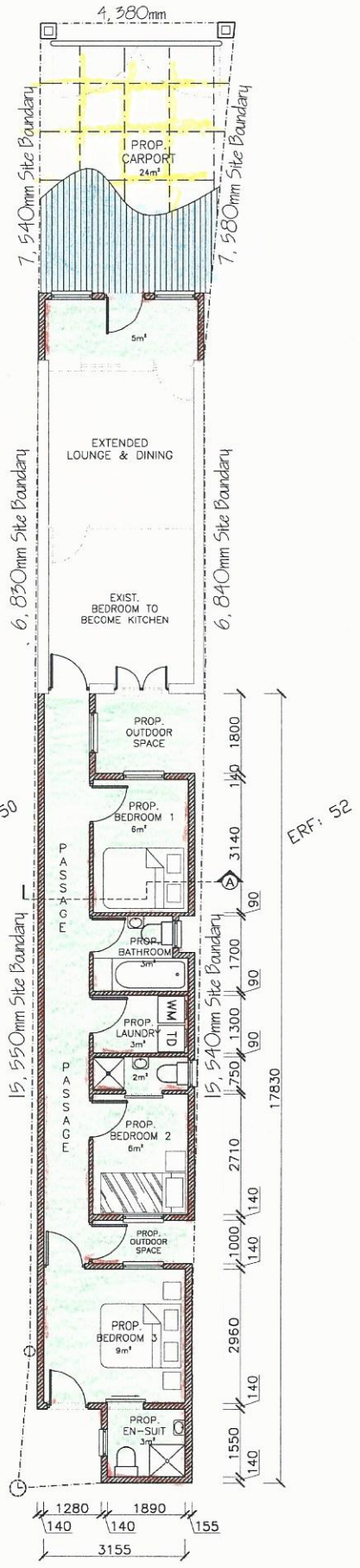
STREET ELEVATION  
Scale 1:100



SECTION THRU FOUNDATION

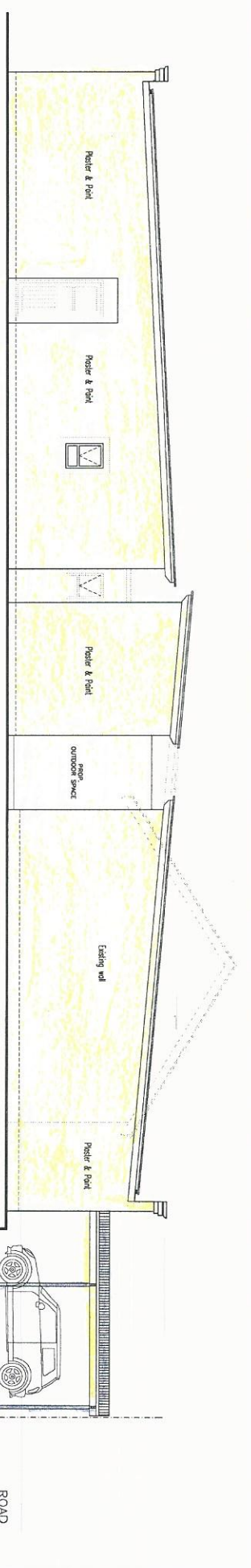


BOX GUTTER DETAIL - scale 1:20



<b>architecture</b> 	Ms C.T. Pono	dra. title ADDITIONAL	Layout Plan	51	erf no: 01-10-2015	drawn by LM	date
	address no: .6, Brinton, Langa		draughtsman:	owner:	This scheme is subject to town planning and all other necessary consents. Dimensions, areas and levels where given are only approximate and subject to site survey.		
LONGUDLE ARCHITECTURAL DESIGN L5 11 Site B Khayelitsha, 7784 Cape Town, 8000 Tel: (021) 361-9162 Cell: 0722 11 4632	Longudle arch. designs, L 511 SITE B, KHAYELITSHA, 7784, CAPE TOWN 8000, Tel. no#:(021) 361-9162						

**EAST ELEVATION**  
SCALE 1:100

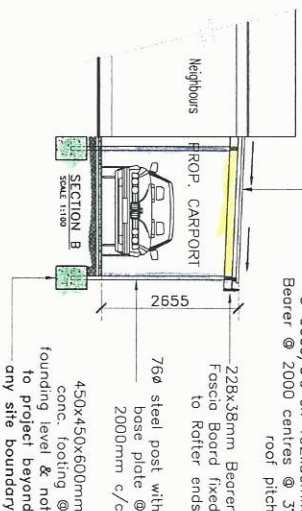


\*NB: R.C. lintels over all openings (max. 3m opening) with 4 courses of brick work with brickforce above the lintel. Stresso Lintels with 6 courses brick work. Timbers built into walls to be adequately protected.

\*NB: Internal 90mm walls to be built on 600 x 200mm slab thickening 375 micron DPC under walls at min. 150mm above adjacent ground level. 250 micron DPM under floor slab. Access doors to be fitted with safety glass. Cable walls to be adequately laterally supported. Parapet wall not to exceed 500mm height

Glazing:  
All the panels in doors larger than 300mm square or those above 300mm above FFL to be glazed in safety glass having a nominal thickness of not less than 6mm. All other glazing to comply with Part N of the NBR.

85% Clear Pexit roof sheets on 114x50mm Purlin/Rafters @ 900c/c's on 152x50mm Bearer @ 2000 centres @ 3 roof pitch

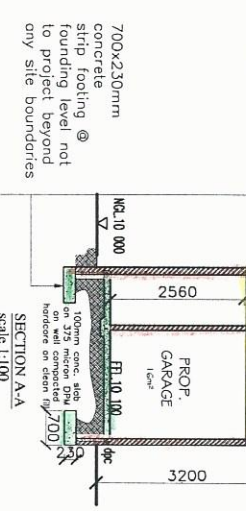


TO exist MANHOLE & to municipal 110# soil pipe to existing sewer connection

cover level	100 000	100 000
invert level	99 350	99 550
depth	650	450
distance		6000
grade		1 : 60soil pipe fall

**DRAINAGE SCHEMATIC SECTION**  
scale 1:100

counter flashing no parapet walls to exceed the height of 500mm



**SPECIFICATIONS**  
 Foundations:  
 140 external walls to be built on strip foundations 700mm wide by 230mm deep. 90mm internal walls plastered & painted.  
 Floors:  
 Floors to be min. 100mm surface bed on 250 micron DPM, sealed to the damp proof course, on min. 150mm compacted fill. All floor finishes to be as indicated on Plan with min. 20mm screed.  
 Lintels:  
 APS prestressed lintels to be built in over all openings in brickwork with min. 4 courses brick over.  
 Doors:  
 External to be solid timber & internal to be hollow core  
 Columns:  
 All columns to be erected by 340mm brick piers built on 800 x 800 x 300mm deep pad foundation  
 Walls:  
 Wall Finishes / Paintwork:  
 Plaster internally & bogged pointed externally.  
 Glazing:  
 All other glazing to comply with Part N of the NBR.  
 Roof construction:  
 Calulose fibre/loose Fill 135mm, thick bulk insulation to be installed. Roof assembly to have on R-Value of 3.7m, k/W direction of flow up.  
 Rainwater disposal:  
 White 'Dgee' seamless Aluminium gutters 100mm dia. and 25mm dia. 150 x 75 downpipes cast indicated on the Architectural Drawings  
 Drainage:  
 As indicated on plan, discharging into existing connection on site.

SITE AREA	-	129m <sup>2</sup>
EXISTING DWELLING	-	31m <sup>2</sup>
PROPOSED ADDITIONAL	-	32m <sup>2</sup>
PROPOSED CARPORT	-	24m <sup>2</sup>
TOTAL COVERAGE	-	.....%

**NOTES:**  
 The design shown on this drawing is the copyright of the Architect. The Contractor must check all dimensions and levels before commencement of any work in accordance with the site plan. In preference to scaled measurements.

date 01-10-2015 drawn by LM

scale 1:100

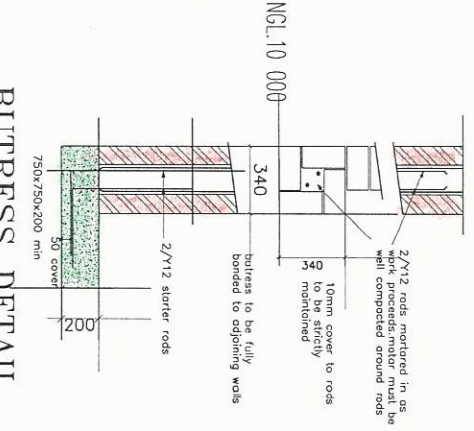
Erf no: 51

draughtsman: [Signature]

project ADDITIONS

Owner Ms C. T. Pono  
address no: 6, Brinton, Longa

**BUTRESS DETAIL**



architecture

INDUSTRIAL 133X  
 15 11 Site B  
 KwaMashu, 7784  
 Cape Town, 8000  
 Tel: (021) 3814862  
 Cell: 072 211 4632  
 architectural design, 1998



This schema is subject to town planning and all other necessary consents. Dimensions, areas and levels where given are only approximate and subject to site survey.  
 All dimensions are to be checked on site.  
 Any discrepancies are to be reported to the architect before the work commences. Figure dimensions only are taken **unless** (then speaking).

# ENERGY EFFICIENCY IN BUILDINGS

PART XA FOR ERF NO 51

## CONDUCTANCE

NETT FLOOR AREA = 52sqm

AT x CU

52 x 1.4 = 72.8 w/k

$(A1 \times U1) + (A2 \times U2) + (A3 \times U3) + (A4 \times U4) + (A5 \times U5)$

$(1.44 \times 5.6) + (1.26 \times 5.6) + (0.54 \times 5.6) + (1.44 \times 5.6) + (0.54 \times 5.6)$

$(8.06) + (7.05) + (3.02) + (8.06) + (3.02)$

46.2 w/k > 29.2sqm

## SOLAR HEAT GAIN

AT x CSHGC

33 x 0.13 = 4.29

$(A1 \times S1 \times E1) + (A2 \times S2 \times E2) + (A3 \times S3 \times E3) + (A4 \times S4 \times E4) + (A5 \times S5 \times E5)$

$(1.44 \times 0.13 \times 0.84) + (1.26 \times 0.13 \times 0.84) + (0.54 \times 0.13 \times 0.84) + (1.44 \times 0.13 \times 0.84) + (0.54 \times 0.13 \times 0.84)$

$(0.15) + (0.13) + (0.05) + (0.15) + (0.05)$

= 0.53

## FENESTRATION

WINDOW AREA \_\_\_\_\_ X 100

NETT FLOOR AREA

7.2

X 100

49

= 14.6 %

## SHADING

Where shading is used, the building shall have a permanent feature such as a veranda, balcony, fixed canopy, eaves or shading hood which extends horizontally on both sides of the glazing for the same projection distance.

The building shall be capable of restricting at least 80% of summer solar radiation

## EXTERNAL WALLS

190mm block walls has no cavity.. therefor shall have a minimum CR value of 40

## TYPE OF WINDOWS AND GLASS

Wooden windows

6mm thick, 100% clear glass

## ROOF -R-VALUE 40

Cellulose fibre loose fill 135mm. Thick bulk insulation to be installed

Roof assembly to have an R - Value of 3.7m, k/W direction of flow up.

## THERMAL INSULATION

Insulation to comply with the min.required R-Values & be installed so that:

-it abuts or overlaps adjoining insulation or is sealed.

-it forms a continuous barrier with ceiling walls,bulkheads or floors that contribute to the thermal barrier.

## HOT WATER

Water heating supplied by means of water heating system to comply with SANS 1307 SANS 1016 based on thermal performance determined in accordance with the provisions of SANS 6211.1.2. Installation to comply with SANS 10254.

All exposed pipes to and the HWC shall be insulated with pipe insulating material with R-Value <80mm pipe 1.00 & >80mm 1.50

Provide copper piping for hot water where necessary.

## HOT WATER SERVICES

A minimum of 50 % by volume of the annual average hot water heating requirement shall be provided by means other than electrical resistance heating, including, but not limited to solar heating, heat pumps, heat recovery from other systems or processes.

Hot water usage shall be minimised and the system maintained in accordance with the requirements as per SANS 10252-1.

-Insulation to be protected against the effects of weather ond sunlight.

-Be able to withstand the temperatures within the piping & achieve the min R-Value as specified above.

Hot water vessels and tanks tp be insulated with a material achieving min.R-value of 2. Insulation of vessels, tanks and piping containing cooling water to be protected by a vapour barrier on the outside of the insulation.

Piping insulation requirements do not comply to space heating water piping if

- Located within the space being heated where the piping is to provide heating to that space.

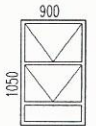
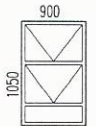
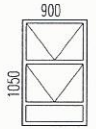
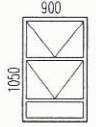
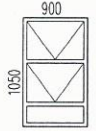
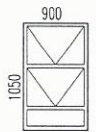
- Encased within the floor slab or masonry.

-These pipes to comply with SANS 10252-1

## WINDOW SIZES      WINDOW SQM

900 x 1050	=	0.94sqm
900 x 1050	=	0.94sqm
900 x 1050	=	0.94sqm
900 x 1050	=	0.94sqm
600 x 900	=	0.54sqm
600 x 900	=	0.54sqm
900 x 1050	=	0.94sqm
900 x 1050	=	0.94sqm
600 x 900	=	0.54sqm

7.2sqm



ARCH. SIGN.	
Reg. No.	D1833
ERF:	51
LOCATION:	LANGA
owner	Mrs. Pono
<b>architecture</b>	
LONGUIE ARCHITECTURAL DESIGNS L5 11 Site B Khayelitsha, 7784 Cape Town, 8000 Tel: (021) 364-6166 Cell: 0722114632	