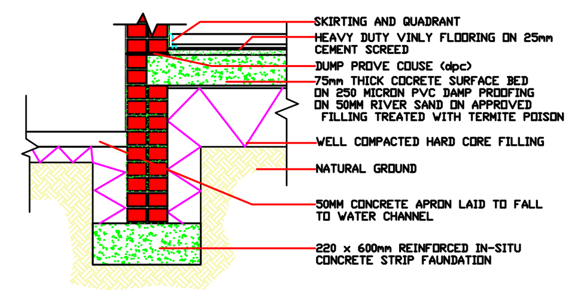
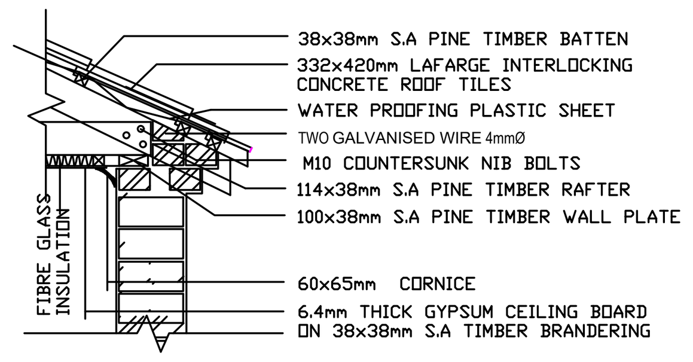


FOUNDATION DETAIL

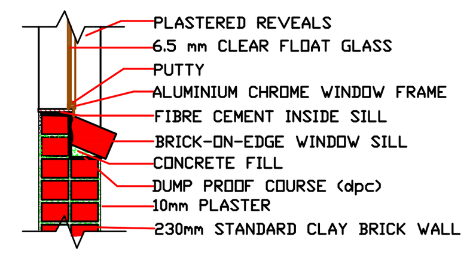
SCALE 1:25



38x38mm SA PINE TIMBER BATTEN
332x420mm LAFARGE INTERLOCKING CONCRETE ROOF TILES
WATER PROOFING PLASTIC SHEET
M10 COUNTERSUNK NIB BOLTS
114x38mm SA PINE TIMBER RAFTER
100x38mm SA PINE TIMBER WALL PLATE
60x65mm CORNICE
6.4mm THICK GYPSUM CEILING BOARD ON 38x38mm SA TIMBER BRANDERING
FIBRE GLASS INSULATION

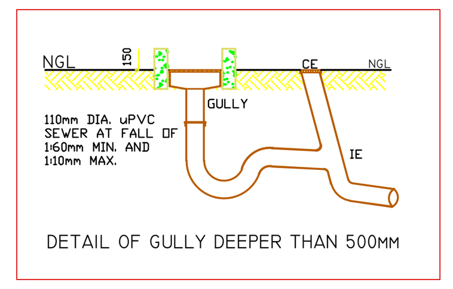
EAVES DETAIL

SCALE 1:25



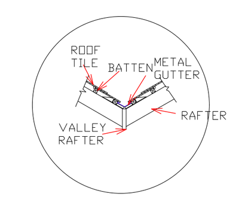
CASE DETAIL

SCALE 1:25



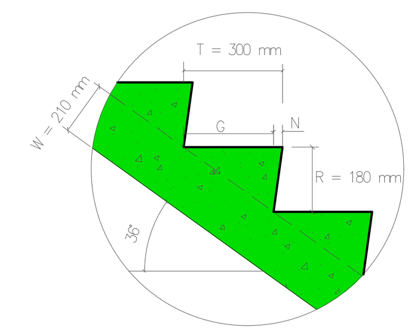
GULLY DETAIL

SCALE 1:25



VALLEY DETAIL

SCALE 1:25



STIAR DETAIL

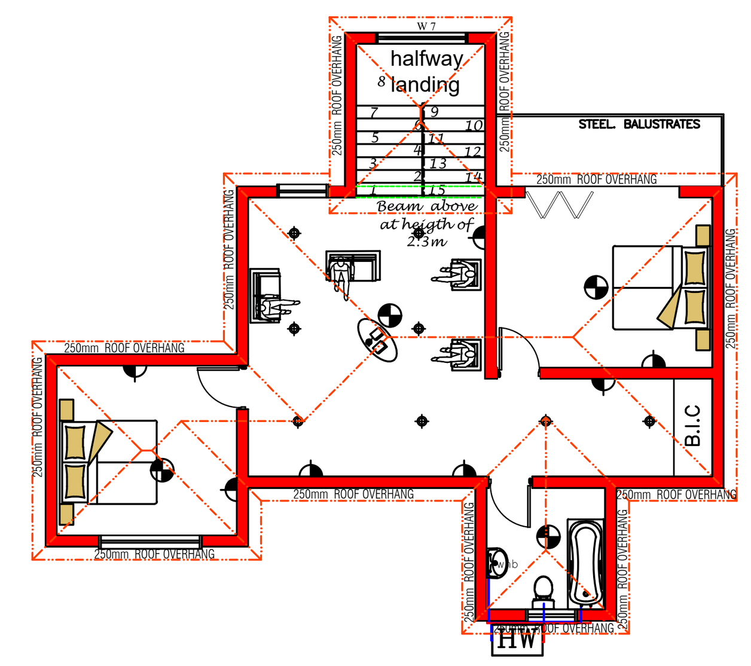
SCALE 1:25

HOEWE 87

MELODIE LANDBOU HOEWES

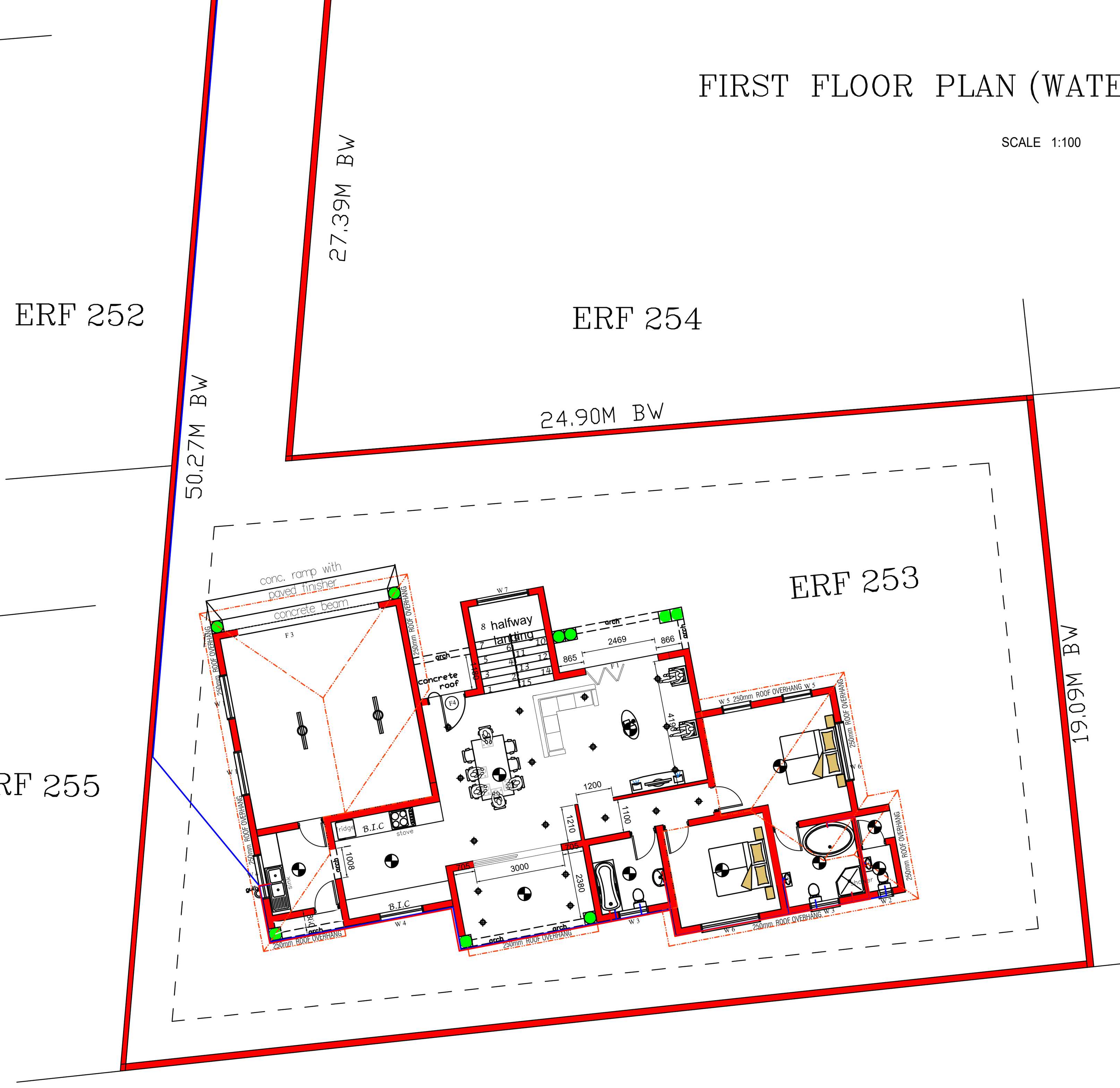
SITE PLAN

SCALE 1:100 CROSS AREA 204.0sqm



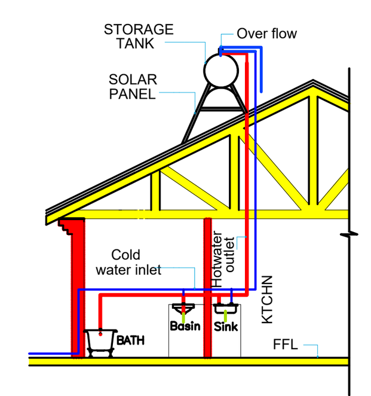
FIRST FLOOR PLAN (WATER AND ELECTRICAL LAYOUT)

SCALE 1:100 CROSS AREA 91.0sqm



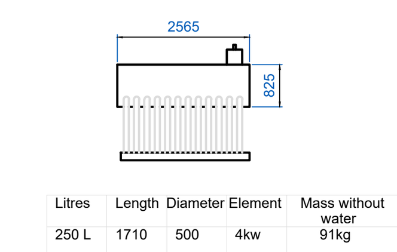
GROUND FLOOR PLAN (WATER AND ELECTRICAL LAYOUT)

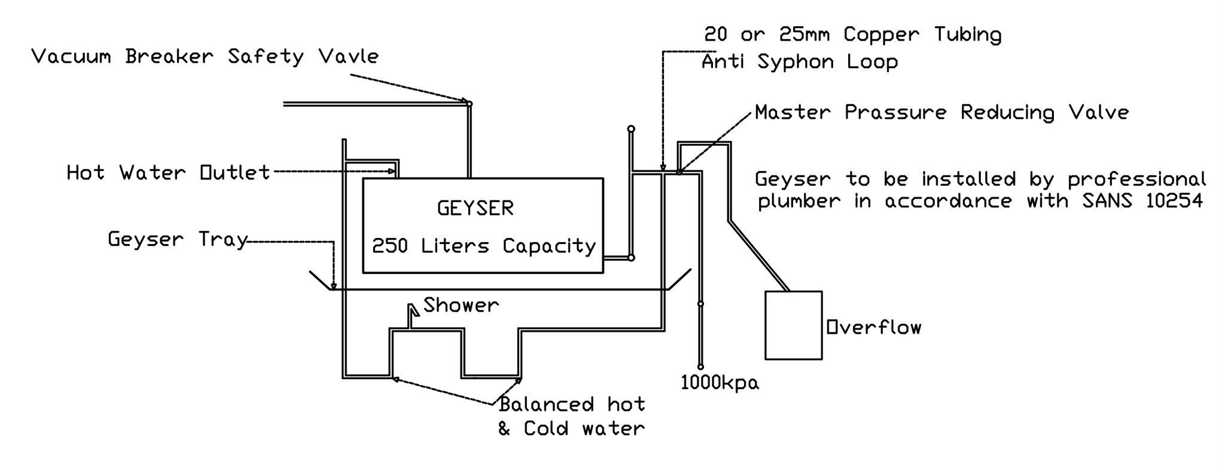
SCALE 1:100 CROSS AREA 204.0sqm



SOLAR HOTWATER

SANS 1307, SANS 10106, SANS 102SANS 10252 - 1





Vacuum Breaker Safety Valve
20 or 25mm Copper Tubing
Anti Syphon Loop
Master Prassure Reducing Valve
Hot Water Outlet
Geyser to be installed by professional plumber in accordance with SANS 10254
GEYSER
250 Liters Capacity
Geyser Tray
Shower
Overflow
Balanced hot & Cold water
1000kpa

TYPICAL GEYSER INSTALLATION

NTS

ROOF CONSTRUCTION

0.2 PREFERABLE

$R= R_{si}+R_1+R_2+.....R_n+R_a +R_{se}$

CLAY TILES 0.84W/mk
FIBRE GLASS 0.04W/mk
GYPSUM BOARD 0.17W/mk

3.2=0.04+0.02/0.84+0.55+d/0.04+0.006/0.17+0.11
=0.04+0.024+.55+d/0.04+0.035+0.11

3.2=0.759+-d/0.04
d=0.04(2.44)
=0.0976
97.6 FIBRE GLASS IS REQUIRED
THEREFORE 100mmTHICK FIBRE GLASS

GENERAL NOTES

ALL WORK TO COMPLY WITH LOCAL AUTHORITY AND NBR BY-LAWS. READ FIGURED DIMENSIONS IN PREFERENCE TO SCALING. THE CONTRACTOR MUST VERIFY ALL SURVEYORS PEGS, MARKERS, LEVELS, HEIGHTS AND DIMENSIONS ON SITE AND TO CHECK SAME AGAINST ALL SETS OF DRAWINGS. CONTRACTOR IS TO BUILD-IN APPROVED DPC`S WHETHER OR NOT THESE ARE SHOWN ON DRAWINGS, TO ALL EXTERNAL WALLS AT EACH FLOOR, PARAPET LEVEL AND TO ALL WINDOWS, DOORS OR OPENINGS IN EXTERNAL WALLS. LINTELS ABOVE ALL DOORS, WINDOWS AND ARCHES. 100 X 80 GSI GUTTERS AND DOWNPIPES.

ENERGY CONSUMPTION IN BUILDING

5 KWH/M².A X 828.9M² = 4144.5 KWH.A
LIGHTS FROM 17H00 - 22H00

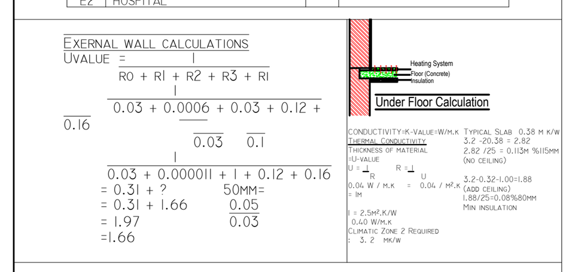
LAMP
LED DOWN LIGHTS 12 WATTS X 151 = 1812 WATTS

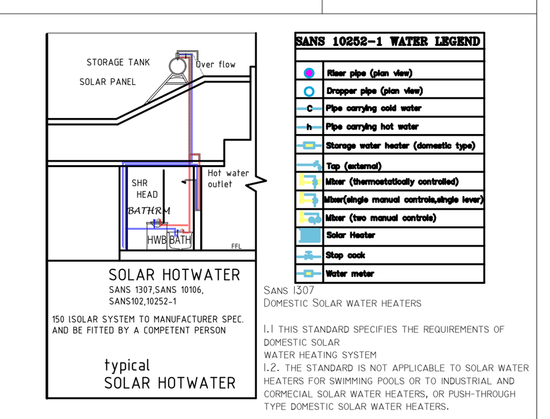
1812 WATTS / 828.9 M² = 2.19 W/M²
52 (WEEKS) X 7 (DAYS) X 5 (HOURS) = 1820 H.A
LAMPS = 1812/1000 = 1.812
1.812 KW X 1820 H.A = 3297.8 (<4144.5 KWH.A)

BUILDING ACCUPACY CLASSES

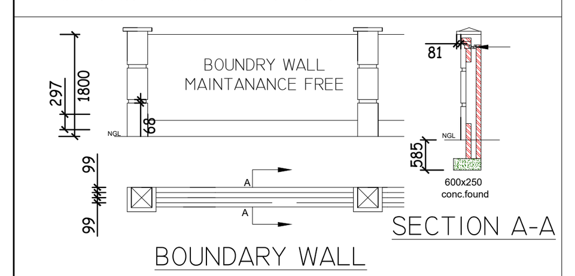
REGULATION APPLICABLE TO GREEN HIGHLIGHTED SECTION

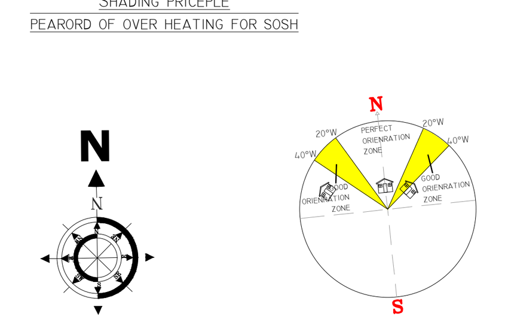
A1	ARTEINTMENT & PUBLIC ASSEMBLY	E3	OTHER INSTITUTION RESIDENTIAL
A2	THEORETICAL AND INDOOR	E4	HEALTH CARE
A3	PLACES ON INSTITUTION	F1	LARGE SHOP
A4	WORSHIP	F2	SMALL SHOP
A5	OUTDOOR SPORTS	F3	WHOLESALER'S STORE





DRAINAGE NOTES





HOT WATER CALCULATIONS

CALCULATED AS PEER SANS10252-1:2004
ESTIMATED DAIRLY DEMAND 180LT
STORAGE TANK CAPERCITY
CAPERCITY 200LT

ALL HOT WATERPIPES MUST BE INSULATED WITH THERMAL INSULATION WITH A THERMAL RESISTIVITY OF AT LEAST 1
CONCLUTION

THE DESIGN COMPLIES WITH THE REQUREMENTS SANS 10400XA:2010 AND SANS 10252-1:2004 FOR HOT WATER CALCULATIONS

SABS 0252. GLAZING TO COMPLY WITH SABS 0137 & SABS 0400 PART N

MASHUDU BUILIDING DESIGNER

RAMAANO MASHUDU

Expectise : House Plan
Cell: (071) 216 6629
: (071) 276 6629
E-mail : shane.ramaano@gmail.com

DRAWING TITLE	SITE PLAN,ELECTRICAL,DETAIL COLD WATER AND HOT WATER LAYOUT
ENGINEER'S SIGNATURE	
ENGINEER'S REF Number	

DRAWING NUMBER :

29 / 07 / 2019

SHEET 2 OF 2

PROJECT

PROROSED NEW DWELLING HOUSE
FOR MR N.A. MAHADA

EFR NO : 253. MELODIE X8
BOUGAINVILLA ESTATE

Owner :

Signature:

Cell : (072) 871 5349
: (072) 562 5833
E-mail : neron.mahada@gmail.com

AREA SCHEDULE	
GROUND FLOOR	204.0sqm
FIRST FLOOR	91.0sqm
OUTBUILDING	00.0sqm
TOTAL AREA	295.0sqm
SITE AREA	775.0sqm
COVERAGE	26.32%

FIRE PROTECTION TO SANS 10400-T:2011 EDITION 3 PAGE 26

4.9 PARTITION AND WALLS

PAVEMENT