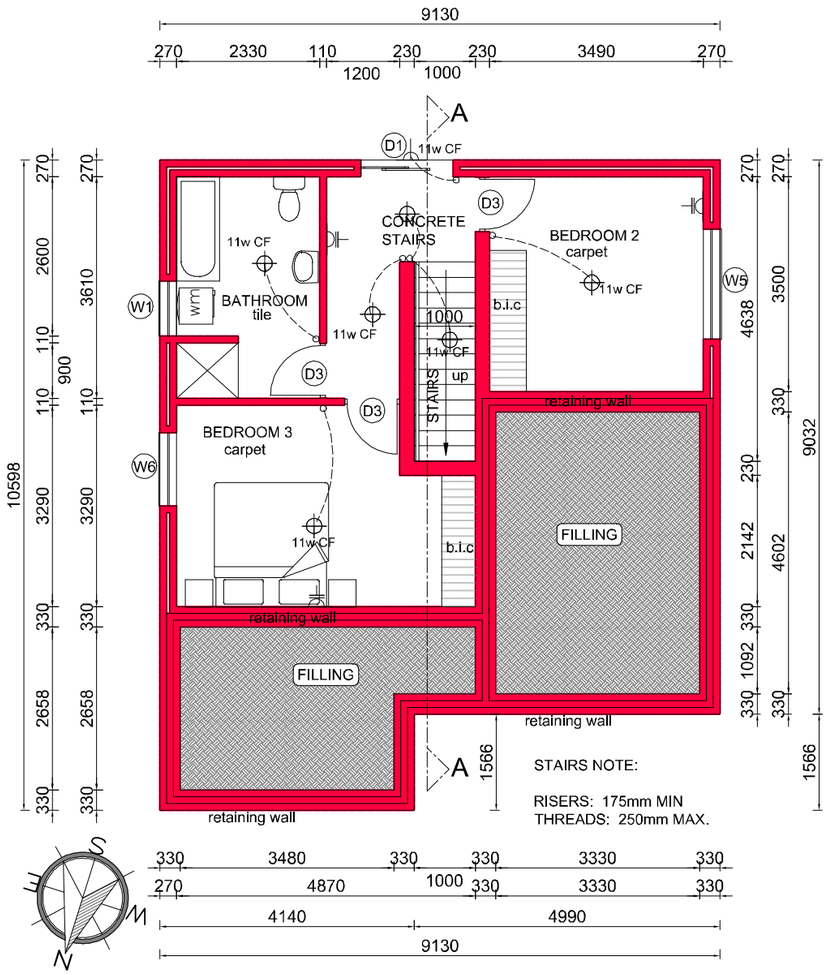
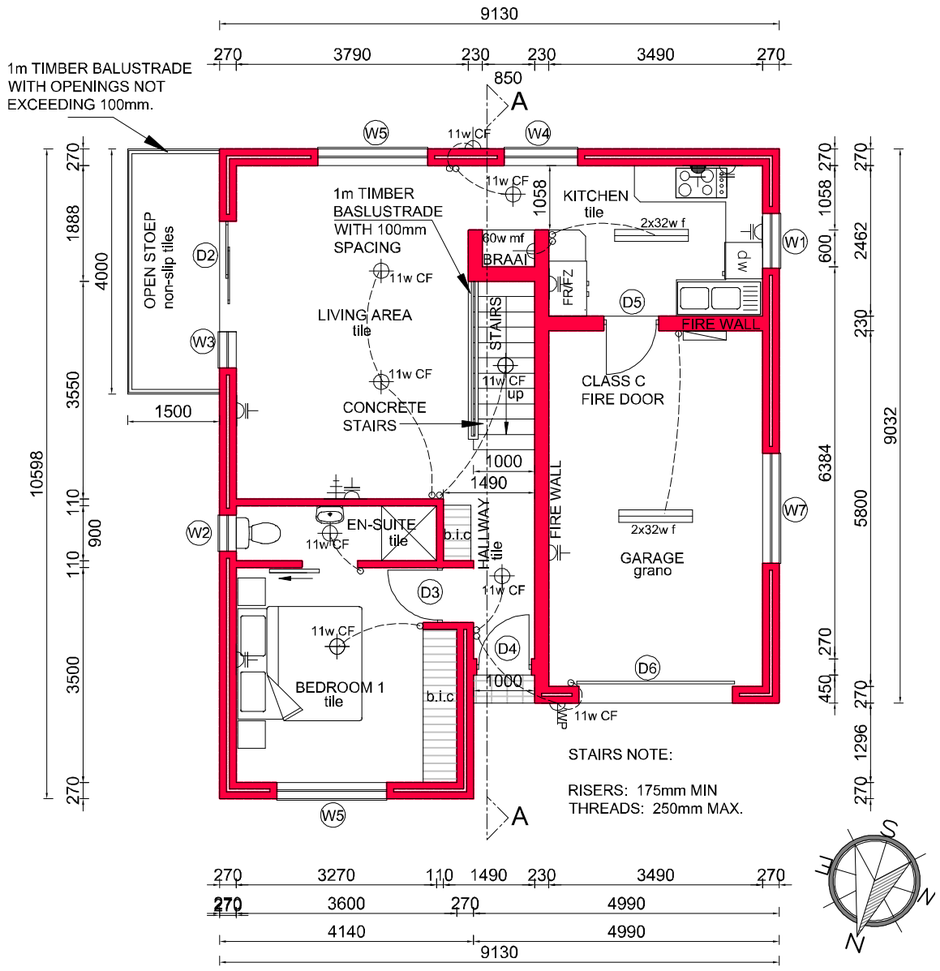


LOWER GROUND STOREY FLOOR AND
ELECTRICAL LAYOUT PLAN
SCALE 1:100



GROUND STOREY FLOOR AND
ELECTRICAL LAYOUT PLAN
SCALE 1:100

FENESTRATION CALCULATION
NATURAL VENTILATION

Window to floor area ratio for Storey 1 is 17.16 %

CONSTANTS

Conductance Constant for Storey 1 is 122.20 X 1.40 = 171.08
SHG Constant for Storey 1 is 122.20 X 0.13 = 15.89

CONDUCTANCE

Conductance of Window is 3.15 X 7.90 = 24.89
Conductance of Window is 2.70 X 7.90 = 21.33
Conductance of Window is 0.81 X 7.90 = 6.40
Conductance of Window is 1.44 X 7.90 = 11.38
Conductance of Window is 2.70 X 7.90 = 21.33
Conductance of Window is 1.08 X 7.90 = 8.53
Conductance of Window is 0.81 X 7.90 = 6.40
Conductance of Window is 2.70 X 7.90 = 21.33
Conductance of Window is 0.54 X 7.90 = 4.27
Conductance of Window is 1.26 X 7.90 = 9.95
Conductance of Window is 3.78 X 7.90 = 29.86

Total Conductance for Storey 1 is 165.66 PASS

SOLAR HEAT GAIN

NORTH

Solar heat gain of Window (P=450.00, G=200.00, P/H=0.26) is 2.70 X 0.81 X 0.48 = 1.05

EAST

Solar heat gain of Window (P=450.00, G=200.00, P/H=0.41) is 0.81 X 0.81 X 0.71 = 0.47
Solar heat gain of Window (P=450.00, G=200.00, P/H=0.32) is 1.44 X 0.81 X 0.8 = 0.93
Solar heat gain of Window (P=450.00, G=200.00, P/H=0.41) is 0.54 X 0.81 X 0.71 = 0.31
Solar heat gain of Window (P=450.00, G=200.00, P/H=0.20) is 1.26 X 0.81 X 0.88 = 0.90
Solar heat gain of Window (P=450.00, G=200.00, P/H=0.20) is 3.78 X 0.81 X 0.88 = 2.69

SOUTH

Solar heat gain of Window (P=450.00, G=200.00, P/H=0.20) is 3.15 X 0.81 X 0.44 = 1.12
Solar heat gain of Window (P=450.00, G=200.00, P/H=0.26) is 2.70 X 0.81 X 0.42 = 0.92
Solar heat gain of Window (P=450.00, G=200.00, P/H=0.41) is 1.08 X 0.81 X 0.36 = 0.31

WEST

Solar heat gain of Window (P=450.00, G=200.00, P/H=0.26) is 2.70 X 0.81 X 1.06 = 2.32
Solar heat gain of Window (P=450.00, G=200.00, P/H=0.41) is 0.81 X 0.81 X 0.9 = 0.59

Total Solar Heat Gain for Storey 1 is 11.62 PASS

AREA SCHEDULE:

LOWER GROUND STOREY:	56.63m²
GROUND STOREY:	88.94m²
TOTAL:	145.57m²
ERF:	294.44m²
COVERAGE:	30.20%

WINDOW AND DOOR SCHEDULE

	W1	W2	W3	W4	W5	W6	W7
	900 x 900	600 x 900	600 x 2100	1200 x 900	1800 x 1500	1200 x 1200	1800 x 600
	PT99	PT69	SL621	PT129	PTT1815	PTT1212	PT186
QTY.	2	1	1	1	3	1	1
FRAME	WHITE ALUMINIUM	WHITE ALUMINIUM		WHITE ALUMINIUM	WHITE ALUMINIUM	WHITE ALUMINIUM	
GLASS	SINGLE STANDARD GLASS	SINGLE STANDARD GLASS		SINGLE STANDARD GLASS	SINGLE STANDARD GLASS	SINGLE STANDARD GLASS	
TINT	N/A	N/A		N/A	N/A	N/A	

	D1	D2	D3	D4	D5	D6
	1500 x 2100	1800 x 2100	900 x 2100	900 x 2100	900 x 2100	2400 x 2100
	SD1521	SD1821	PD1	FRONT DOOR	CLASS C FIRE DOOR	GARAGE DOOR
QTY.	1	1	4	1	1	1
FRAME	WHITE ALUMINIUM		TIMBER		TIMBER	FIBREGLASS
GLASS	SINGLE STANDARD GLASS		N/A		N/A	N/A
TINT	N/A		N/A		N/A	N/A

NOTE:
GLAZING
ALL GLAZING TO COMPLY WITH SABS WITH 0400-1990 PART N. NOMINAL THICKNESS AND MAXIMUM GLASS AREAS TO COMPLY WITH SABS 0137
4MM - 1.6M²
5MM - 1.5M2 TO 2.1M²
6MM - 2.1M2 TO 3.2M²
CLEAR GLASS USED IN DOORS MUST BE MARKED SO THAT IT IS VISIBLE
ALL GLASS IN DOORS MUST BE SAFETY GLASS
6MM SAFETY GLASS MUST BE USED IF THE UNDERSIDE OF WINDOW IS LOWER THAN 300MM ABOVE UFL.
IF WALKWAYS LEAD STRAIGHT TO A WINDOW, USE SAFETY GLASS WHERE THE UNDERSIDE OF THE WINDOW IS LOWER THAN 500MM ABOVE UFL.
IF WINDOW IS WITHIN 1.2m OF ANY BATH OR SHOWER USE SAFETY GLASS.

ALL WINDOWS AND DOORS TO BE CONFIRMED ON SITE BY CONTRACTOR.

GARDEN ROUTE HOUSE PLANS
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KLEINBRAKRIVIER 6503
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E-MAIL: info@gardenroutehouseplans.co.za
WEB-SITE:www.gardenroutehouseplans.co.za
SACAP reg no:PAD20570

PROJECT TITLE: NEW DWELLING
FOR OWNER: SEEGENOT ONTWIKKELING
ERF NO: HUIS G1 ERF 1152
TOWNSHIP: TERGNIET
MUNICIPALITY: MOSSEL BAY
CREATED BY: ENGELA MOGGEE
DATE: DATE: DECEMBER 2017
DRAWING:
SHEET: 001
SCALE: ----------
OWNER'S SIGNATURE: