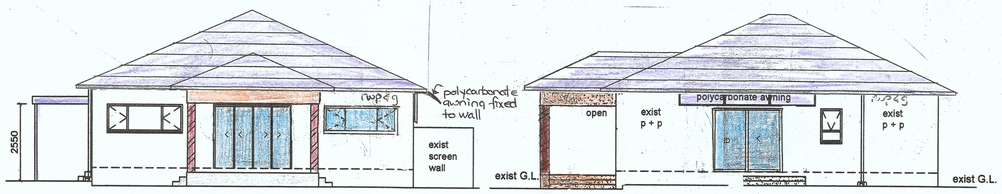
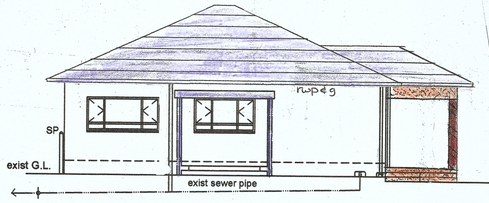


SOUTH ELEVATION - DWELLING..

SCALE 1 : 100

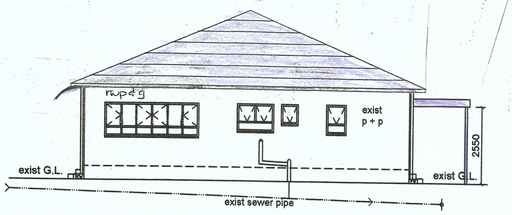
EAST ELEVATION - DWELLING..

SCALE 1 : 100



WEST ELEVATION - DWELLING..

SCALE 1 : 100



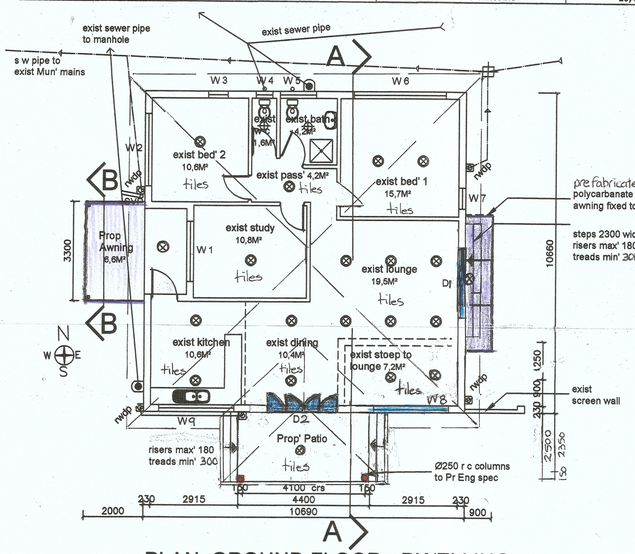
NORTH ELEVATION - DWELLING..

SCALE 1 : 100

CLASS OF OCCUPANCY	H4	SANS 'A' Table 1 Pg 43 & 44	SHGC	Table	6	Pg14
Climatic Zone	5	SANs 204 Fig A1 Pg 30	Glazing	Table	6	Pg14
Direction of Heat Flow	Down	SANS 204 Table 10 Pg 20	G	Figure	3	Pg 16
NETT Floor Area = NFA (m²)	94,800	SEE FLOOR PLAN/S	P	Figure	3	Pg 16
Total Fenestration Area = FA (m²)	24,688	SEE FENESTRATION CONDUCTION CALCS.	Shading	Figure	4	Pg 17
Ratio Percentage (%) Total	26,042	FA/NFAx100 (m²)	H	ELEMENT HEIGHT ÷ G (m)		
20% of NFA	18,960	NFA x 0,20 (m²)	E	Table	C5	Pg 42
Orientation: Longer Building Axis	EAST	SEE SITE AND/OR FLOOR PLAN/S				
Ratio Percentage (%) Total	<20% of NFA complies with SANS 204 and > 20% of NFA must comply with SANS 204 by calculations					
Conduction Constant = Cu	1,40	SHGC constant = Cshgc	0,11			
Conduction Max. = NFA x Cu	132,720	Solar Heat Gain Max = NFA x Cshgc	10,428			

FENESTRATION CONDUCTION:				Width and Height = Element Dimensions / U and SHGC = SANS 204 Table 6 Pg 14					
Element	Opening Width (m)	Opening Height (m)	Area - A (FA m²)	Glazing Description Table 6	Frame Description	Glass Thk (mm)	U W/m²k	SHGC	Conduction = A x U
W 1	2,000	1,100	2,200	monolithic annealed	aluminium	6	7,90	0,81	17,380
2	2,400	1,100	2,640	monolithic annealed	aluminium	6	7,90	0,81	20,856
3	0,650	1,000	0,650	monolithic annealed	aluminium	4	7,90	0,81	5,135
4	0,550	0,650	0,358	toughened safety	aluminium	4	7,90	0,81	2,824
5	1,200	0,900	1,080	toughened safety	aluminium	4	7,90	0,81	8,532
6	2,700	1,100	2,970	monolithic annealed	aluminium	6	3,40	0,54	10,098
7	0,700	1,100	0,770	monolithic annealed	aluminium	4	7,90	0,81	6,083
8	2,500	1,000	2,500	toughened safety	aluminium	6	5,73	0,66	14,325
9	2,500	1,000	2,500	toughened safety	aluminium	6	5,73	0,66	14,325
D 1	2,000	2,050	4,100	toughened safety	aluminium	6	3,40	0,54	13,940
2	2,400	2,050	4,920	toughened safety	aluminium	6	3,40	0,54	16,728
TOTAL FA (m²) =			24,688			TOTAL CONDUCTION =			130,226
						Max. Conduction Permissable			132,720

FENESTRATION SOLAR HEAT GAIN: SHG			P and H and G = SANS 204 Figure 3 & 4 Pg 16 and 17 / E = SANS 204 Table C5 Pg 42 / If G > 500: USE ½ OF P VALUE						
Element	Area - A (FA m²)	G (m)	P (m)	H = Ht + G (m)	P/H	Orientation	SHGC	E (m²/-	A x SHGC x E
1	2,200	0,500	3,500	1,600	2,188	west	0,81	0,28	0,499
2	2,640	0,500	0,700	1,600	0,438	west	0,81	0,75	1,604
3	0,650	0,500	0,700	1,500	0,467	north	0,81	0,27	0,142
4	0,358	0,500	0,700	1,150	0,609	north	0,81	0,25	0,072
5	1,080	0,500	0,700	1,400	0,500	north	0,81	0,27	0,236
6	2,970	0,500	0,700	1,600	0,438	north	0,54	0,30	0,481
7	0,770	0,500	0,700	1,600	0,438	east	0,81	0,79	0,493
8	2,500	0,500	0,700	1,500	0,438	east	0,66	0,38	0,627
9	2,500	0,500	0,700	1,500	0,467	south	0,66	0,38	0,627
D 1	2,000	0,500	1,100	2,550	0,431	east	0,54	0,72	0,778
2	4,920	0,500	2,600	2,550	1,020	south	0,54	0,25	0,664
						TOTAL SOLAR HEAT GAIN =			6,223
						Max. SHG Permissable =			10,428



PLAN. GROUND FLOOR - DWELLING..

SCALE 1 : 100

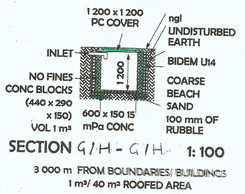
MASONRY WALL			
MATERIAL - SANS 10400-XA 4.4.3 Pg 10 AND SANS 204(4.3.3 Pg10			
EXTERNAL SKIN /OR	140mm (DOUBLE LEAF) STD. CONCRETE BRICKS (COMPLIES WITH THE R-VALUE REQUIREMENTS - PART XA: 4.4.3)		
EXTERNAL SKIN	2 x 115mm OR > (DOUBLE SKIN) CLAY BRICKS (COMPLIES WITH THE R-VALUE REQUIREMENTS - PART XA: 4.4.3)		
MIN. REQUIREMENTS (SANS 10400-XA 4.4.3 Pg 10)	0,35	TOTAL R VALUE (m² K/W)	0,35

ROOF & CEILING (HEAT FLOW = DOWN) - SANS 204 Table F3 Pg 60 & 61	
UNVENTILATED ROOF WITH HORIZONTAL CEILING - TILES - 22 to 45° PITCH	
OUTDOOR AIR FILM 7m/s	0,03
ROOF TILE - CLAY OR CONCRETE (1.922 Kg/m³) SANS XA Table 9 Pg 11	0,02
REFLECTIVE FOIL SISALATION/WATERPROOFING UNDERSIDE TILES (SANS 204 Table 9 Pg 19)	0,92
100mm FLEXIBLE FIBREGLASS BLANKET (10 -18 Kg/m³) SANS 204 Table 10 Pg 20	2,15
10mm GYPSUM BOARD (880 Kg/m³)	0,06
INDOOR AIR FILM (STILL AIR)	0,16
(MIN. REQUIREMENTS - SANS 204 Pg 17 Table 8) 2,70	TOTAL R VALUE (m² K/W) 3,34

LIGHTING AND POWER				
TOTAL FLOOR AREA (m²)		131,560	TFA	SEE SCHEDULE OF AREAS
CLASS OF OCCUPANCY		H4	CO	SANS PART 'A' - Table 1 Pg 43 & 44
ENERGY DEMAND (W/m²)		5	ED	SANS 204 Table 12 Pg 24
ENERGY CONSUMPTION (kWh/m²)		5	EC	SANS 204 Table 12 Pg 24
MAX. ENERGY DEMAND ALLOWED		658	W/m²	TFA x ED
MAX. ENERGY CONSUMPTION ALLOWED		658	K/Wh/m²	TFA x EC
ELEMENT	W	No. IN USE	TOTAL W	SOURCE OF ILLUMINATION
DOWN LIGHT	12	22	264	LIGHT- EMITTING DIODES LIGHT (LED)
TOTAL ENERGY DEMAND - TED (W/m²)				264
TOTAL ANNUAL ENERGY CONSUMPTION (KWh/m²)			TED x 7 Hrs x 365 DAYS/1000)	674,52

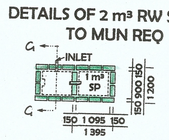
HOT WATER SERVICES
EX ELECTRIC GEYSER

SCHEDULE OF AREAS:		
AREA OF SITE:	1 071.00 m²	
SR 900	FAR:	COVERAGE:
EX DWLG:	113.96 m²	113.96m²
EX S/Q:	12.30 m²	12.30m²
EX GARAGE:	29.04 m²	29.04 m²
EX O/B:	42.40 m²	42.40 m²
EX LAUNDRY:	16.80 m²	0
TOTAL EX:	**214.50 m²**	**197.70 m²**
PROP HOUSE VERANDAH:	11.00 m²	11.00 m²
PROP HOUSE AWNING:	6.6 m²	6.6 m²
PROP GARAGE EXTENSION:	29.89 m²	29.89 m²
PROP S/Q EXTENSION:	8.10 m²	8.10 m²
PROP GARAGE AWNING:	22.77 m²	22.77 m²
PROP GAZEBO:	15.00 m²	15.00 m²
TOTAL PROP:	**93.36 m²**	**93.36 m²**
TOTAL AREA:	**307.86 m²**	**291.06 m²**

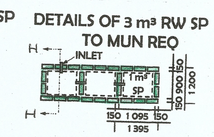


SECTION G/H - G/H 1: 100

3 000 m FROM BOUNDARIES/ BUILDINGS
1 m²/ 40 m² ROOFED AREA



PLAN 1: 100



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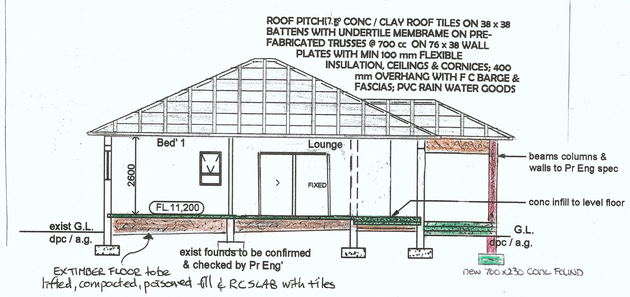
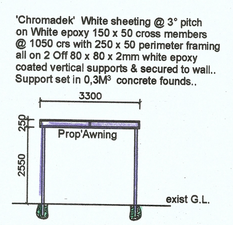
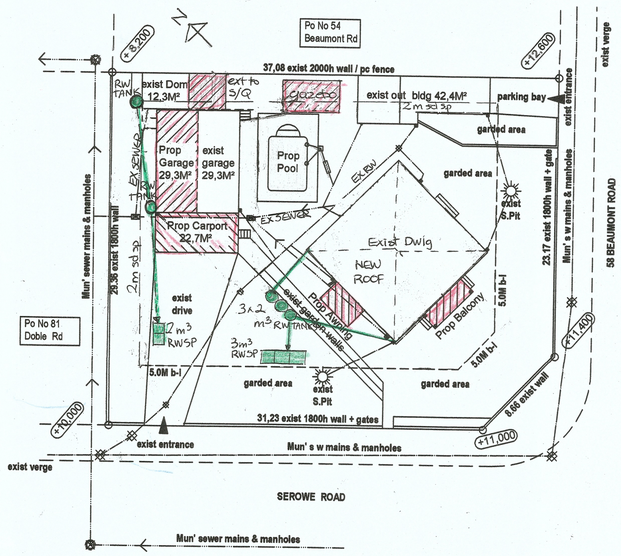


SECTION A - A - DWELLING..



SECTION B - B - AWNING..

SCALE 1 : 100



SITE PLAN. 1071M² SCALE 1 : 250

APPROVALS

ORIGINAL CERTIFICATES REQ'D ON COMPLETION
PRIOR TO ISSUE OFOCCUPATION CERTIFICATE
BY MUNICIPALITY
Pr Engineers Certificate of Stability
Antomology Certificate. (Soil Poison)
Electrical Certificate of Compliance.
Plumbing Certificate

BOUNDARY BEACONS TO BE CONFIRMED PRIOR TO COMMENCEMENT OF WORKS

NO OBJECTION TO RELAXATION OF BUILDING LINES

NAME:	ADDRESS:	CELL:	SIGN:
M SCHABORT	54 BEAUMONT RD	073 279 7451	
N SCHABORT	81 DOBLE RD	071 382 3334	

Title. NEW ROOF, GAZEBO, POOL, PROPOSED ADDITIONS & ALTERATIONS TO EXISTING DWELLING + GARAGE.. NEW AWNINGS& CARPORT.
For; Ms C. T. OGLE.
on Rem of ERF 550 of BLUFF
Postal address 58 BEAUMONT ROAD, BLUFF. 4052

Rate No 2082 - 3088
Tel No 082 564 2634

Date 6-6-2022.

OWNER'S SIGNATURE

DRAWN BY: V HOBBS
0848 11 7797 vivsdesigns@gmail.com
BOX 21750 BLUFF 4036
SACAP D1238

DWG NO 58BEAU sheet 1 of 2