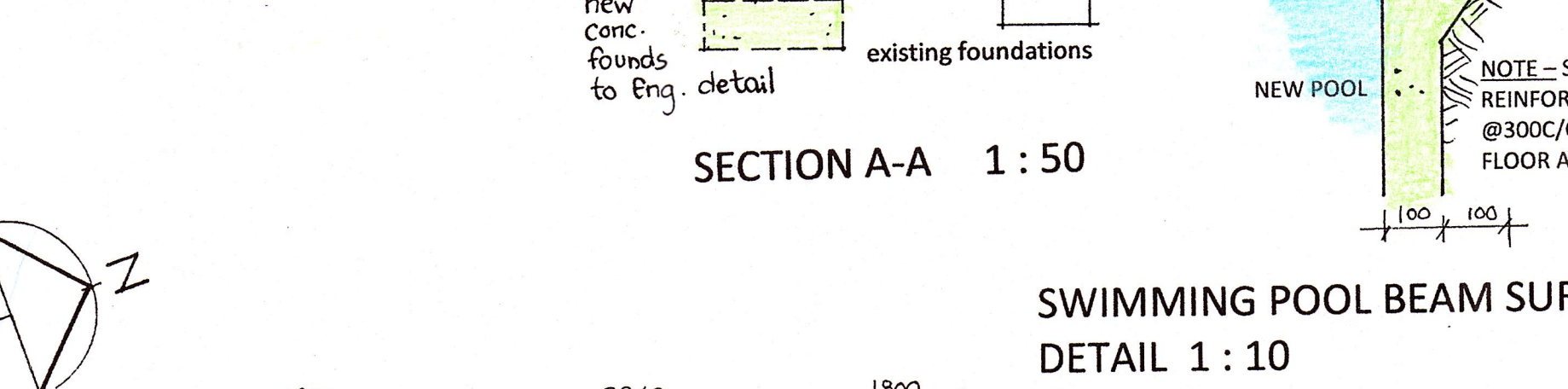
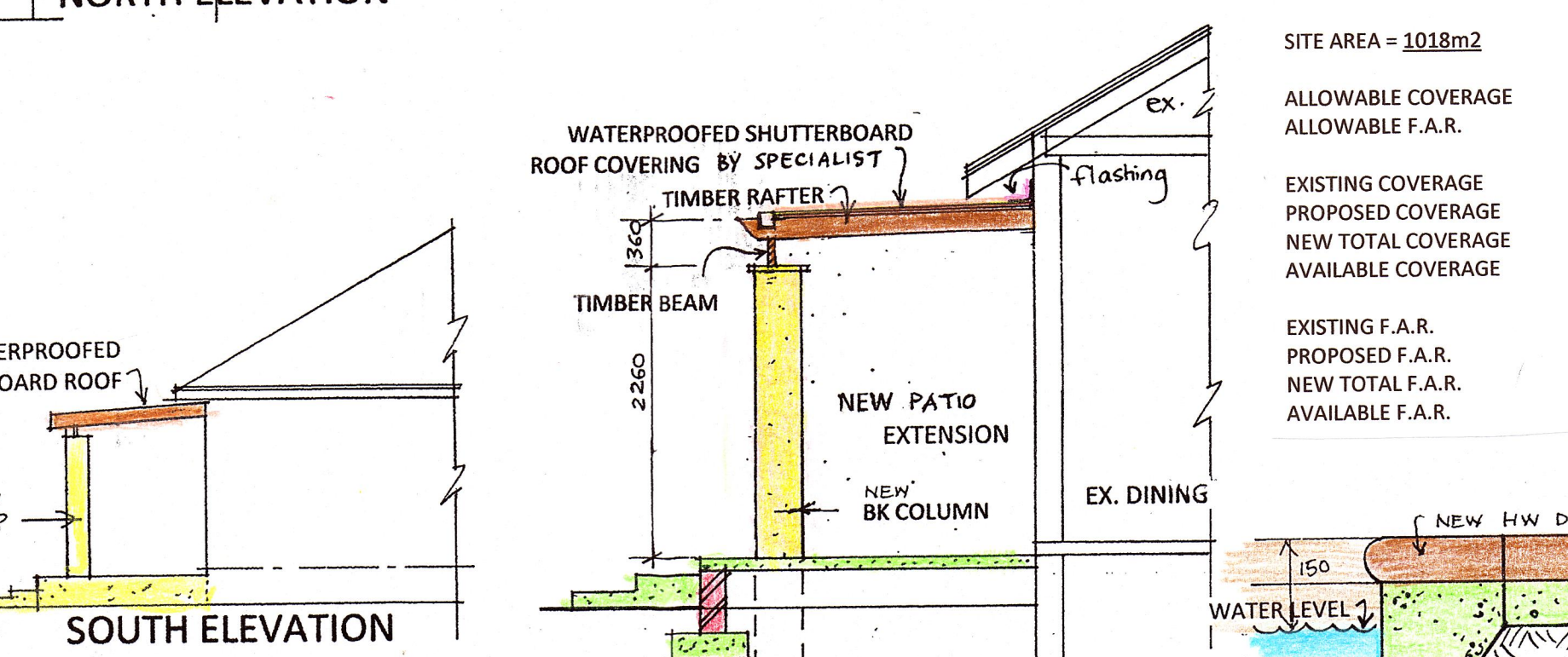
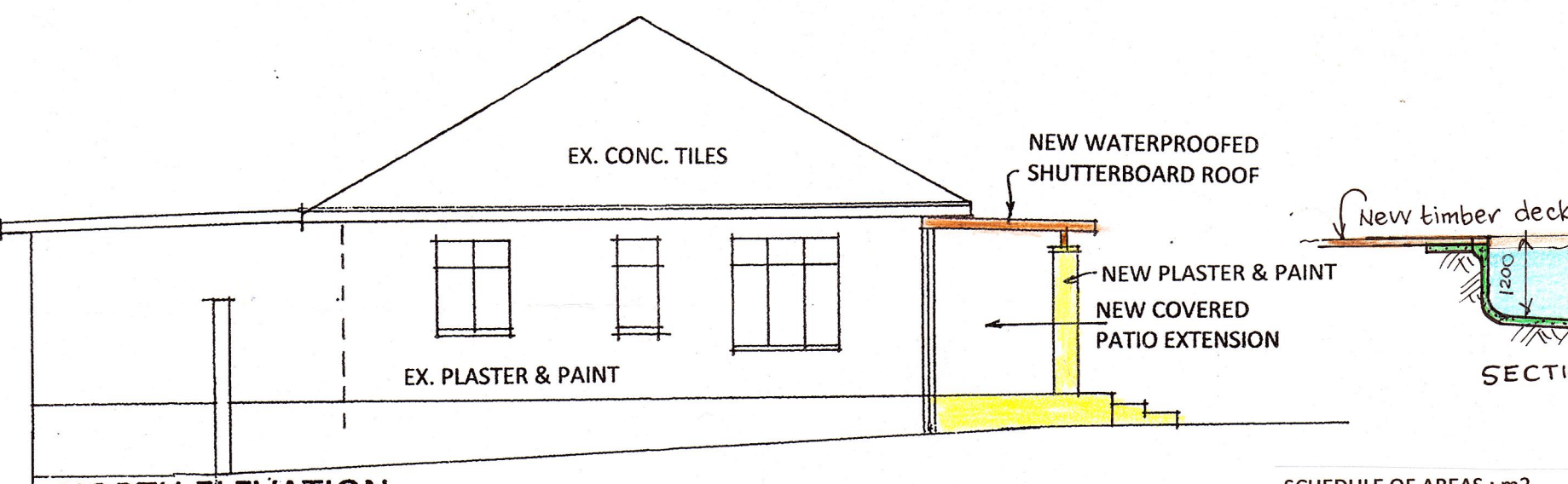
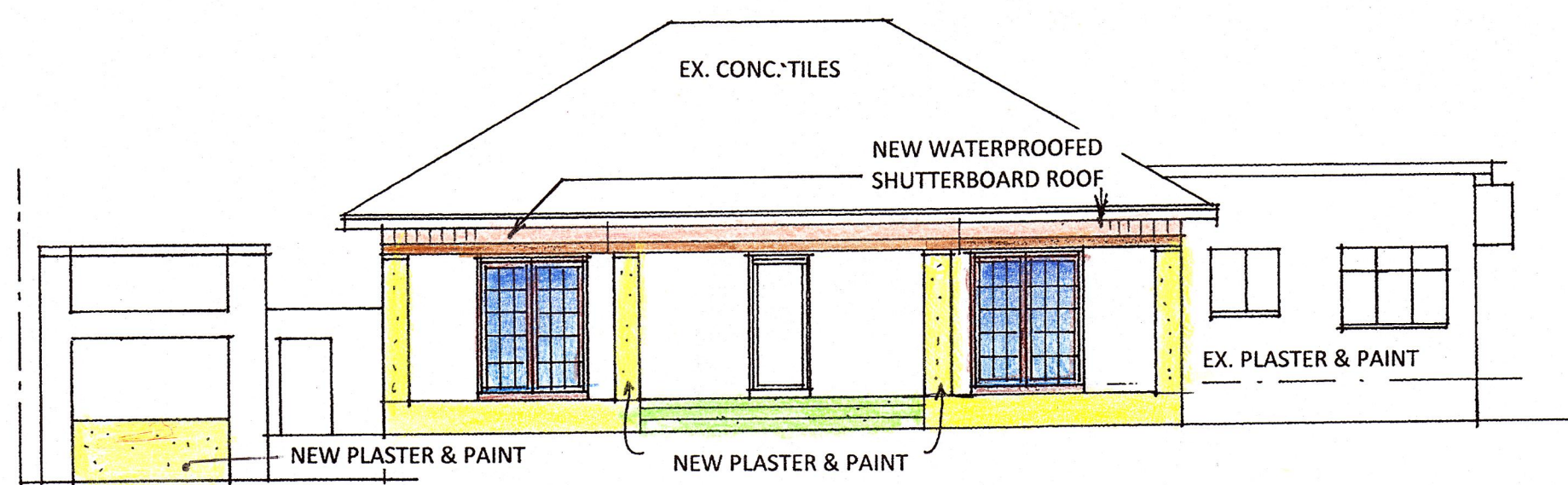


**GROUND STOREY PLAN AND SITE PLAN 1 : 100**  
 Fenestration Calculations: (Dining, Living & TV Lounge)  
 Nett floor area = 65,2m<sup>2</sup>  
 20% of NFA = 13,14m<sup>2</sup>  
 Total Fenestration = 15,03m<sup>2</sup> (>13,14m<sup>2</sup>)  
 SEE ATTACHED ENERGY EFFICIENCY CALCULATIONS.



**SWIMMING POOL NOTES:**

- POOL TO COMPLY WITH SANS 10400-D.4.4 - PUBLIC SAFETY I.E. TO BE CONTAINED WITHIN A MINIMUM 1,2m HIGH FENCE WITH SELF-CLOSING, SELF-LOCKING GATE, WITH MAX. OPENINGS OF 100mm.
- NO GUNTING UNTIL APPROVED BY ENGINEER.
- EARTH LEAKAGE PROTECTION TO BE FITTED TO ALL ELECTRICAL SUPPLY.
- PRECAUTIONS TO BE TAKEN AGAINST:
  - flooding, seepage and rainwater in sunken pump chamber
  - condensate
- PUMP CHAMBER TO BE ADEQUATELY DRAINED.
- DISPOSAL OF POOL WATER VIA BP TANK TO EXIST. SEWER.
- SURPLAS SOIL TO BE SPREAD ON SITE

Door type	d1 (x2)	d2	d3
Glass thickness	4mm	4mm	4mm
Glass type	tough. safety gl.	tough. safety gl.	Tough. safety gl.
Frame type	HW	HW	Alum.

- GENERAL NOTES :**
- ALL LEVELS AND DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR BEFORE COMMENCING WORK.
  - FOUNDATIONS TO BE MIN. 1m FROM MUNICIPAL SERVICES.
  - REINFORCED BRICKWORK WITH SOLID JOINTS IN CEMENT MORTAR IN ALL WALLS AT WINDOW CILL AND ROOF PLATE LEVELS.
  - SOIL TO BE POISONED.
  - ALL NEW WATER PIPES TO BE 22mm Ø COPPER PIPING.
  - TOILET AND WASHING FACILITIES TO BE PROVIDED IF EMPLOYEES ARE EMPLOYED.
  - 100 CONCRETE SLAB ON BRC MESH ON SABS APPROVED DAMP ROOF MEMBRANE ON WELL RAMMED SOIL.
  - ALL GLAZING TO COMPLY WITH SANS 10400 - PART N.
  - FLOORS IN BATHROOM, LAUNDRY AND KITCHEN TO COMPLY WITH SANS 10400 - PART J 4.2.
  - ALL NEW WORK TO COMPLY WITH SANS 10400 XA AND SANS 204, ENERGY EFFICIENCY AND USEAGE OF A BUILDING.
  - ALL PLUMBING TO COMPLY WITH SANS 10400- PART P.
  - LIGHTING AND VENTILATION TO COMPLY WITH SANS 10400- PART O.
  - GUTTERS AND DOWNPIPES TO COMPLY WITH SANS 10400 -PART R.
  - FLASHING TO BE PROVIDED AS PER SANS 10400-PART L.
  - SUPPLY OF WATER TO COMPLY WITH SANS10400 PART W.

- NEW WALLS, ROOF, FOUNDATIONS, LINTELS AND BEAMS TO ENGINEER'S DETAIL.**
- DRAINAGE NOTES**
- ANY DAMAGED FITTINGS TO BE REPLACED.
  - ALL GULLY SURROUNDS AND MANHOLE COVERS TO BE 75mm ABOVE GROUND LEVEL.
  - SEWER CONNECTION TO BE EXPOSED BEFORE COMMENCING WORK.
  - IE'S TO ALL BENDS AND JUNCTIONS.
  - SOIL PIPES TO BE 100diameter PVC.
  - WASTE PIPES TO BE 50 diameter PVC.
  - SEWER PIPES UNDER BUILDING TO BE 100 diameter UPVC RIBBED PIPE.

**WATER RETICULATION NEW PLANT ROOM:**

CLASS OF OCCUPANCY	H
DESIGN POPULATION	2 PERSONS
HOT WATER DEMAND	115 litres/person/day x 7 = 230 litres/day
HOT WATER STORAGE VOLUME AT 60 DEGREES C ( 20% HEAT LOSS)	
HOT WATER STORAGE	40 LITRES/CAPITA x 2 PERSONS = 80 litres
20% HEAT LOSS ALLOWANCE	16 litres
HOT WATER STORAGE REQUIRED AT 60 DEGREES C	= 80L + 16L = 96L
POWER REQUIRED TO HEAT VOLUME OF WATER REQUIRED :	
HOT WATER STORAGE REQUIRED AT 60 deg C = 96L	
$Q = (M \times C \times \Delta T) / t$	
$Q = (0,096 \times 1.16kWh/m^3 \text{ deg C} \times (60 - 20\text{deg})) / 2.5h$	
$Q = 1,78 \text{ kW}$	

**WATER RETICULATION MAIN DWELLING :**

CLASS OF OCCUPANCY	H
DESIGN POPULATION	6 PERSONS
HOT WATER DEMAND	115 litres/person/day x 7 = 230 litres/day
HOT WATER STORAGE VOLUME AT 60 DEGREES C ( 20% HEAT LOSS)	
HOT WATER STORAGE	40 LITRES/CAPITA x 6 PERSONS = 240 litres
20% HEAT LOSS ALLOWANCE	48 litres
HOT WATER STORAGE REQUIRED AT 60 DEGREES C	= 240L + 48L = 288L
POWER REQUIRED TO HEAT VOLUME OF WATER REQUIRED :	
HOT WATER STORAGE REQUIRED AT 60 deg C = 288L	
$Q = (M \times C \times \Delta T) / t$	
$Q = (0,288 \times 1.16kWh/m^3 \text{ deg C} \times (60 - 20\text{deg})) / 2.5h$	
$Q = 5,34 \text{ kW}$	

**NOTE - SUPPLY OF WATER TO COMPLY WITH SANS 10400- PART W**

DRAWING NO. 011 06 2021

**PROPOSED ALTERATIONS, NEW POOL TO EXISTING DWELLING AND OUTBUILDING FOR MRS D. MILNE**  
 6 REGENT PLACE, DURBAN NORTH  
 Lot 1336 Durban North

DRAWN BY: M. VAN BREEMEN  
 DATE: JUNE 2021  
 SCALES: 1 : 100  
 SIGNED: [Signature]

OWNER'S SIGNATURE: [Signature]  
 OWNER'S PHONE NO. 072 433 7863

**ARCHITECTURAL PLANS**  
 13 GAINSFORD PLACE, LA LUCIA 4051  
 PH. 073 1735815  
 REGISTRATION NO. ST1451  
 M. SACAP M. SAIAT