

OWNER / AGENT SIGNATURE:

CLIENT: MUHAMMAD MALL TROWER
BILKIS BANU RASOOL

ADDRESS:
67 PETER MOKABA RIDGE, MUSGRAVE
POR 3 OF ERF 581 & POR 2 OF 601
BRICKFIELD

PROJECT:
PROPOSED ADDITIONS AND ALTERATIONS

Budget Plans cc Trading as
Architectural Aspirations
CK 9535928/23

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Registration: SACAP T0076
KZNA 103 SAIBD B0404
Date: 29 SEPTEMBER 2021
Sheet: 2 of 3
Drawing Number: 2909/21W

Drawn: WESLEY R.LAVIS
Registration: SACAP PAD 3383 5850
SAIBD L0519/2021/KZN
Paper Size: A1
Scale: as shown
Revision: D

GLAZING SCHEDULE

	WINDOW 1 Total - 1 Size - 0.54sqm Type - side hung Glazing - 4mm toughened safety glass Description - mahogany treated timber window frame
	WINDOW 2 Total - 2 Size - 1.58sqm Type - side hung with fixed middle panel Glazing - 4mm monolithic annelid glazing Description - mahogany treated timber window frame
	WINDOW 3 Total - 1 Size - 1.08sqm Type - cottage pane side hung with fixed middle panel Glazing - 4mm monolithic annelid glazing Description - mahogany treated timber window frame
	WINDOW 4 Total - 2 Size - 2.3sqm Type - sliding window Glazing - 4mm monolithic annelid glazing Description - aluminum window frame white
	WINDOW 5 Total - 1 Size - 6.25sqm Type - sliding with fixed panel Glazing - 4mm toughened safety glass Description - mahogany treated timber window frame

FENESTRATION AFFECTED BASEMENT STOREY
 TOTAL AREA (15%)
 Nett area basement Storey - 12 sqm x 15% = 1.8 sqm

NEW WINDOWS
 TOTAL NEW GLAZING basement Storey = 1.58sqm

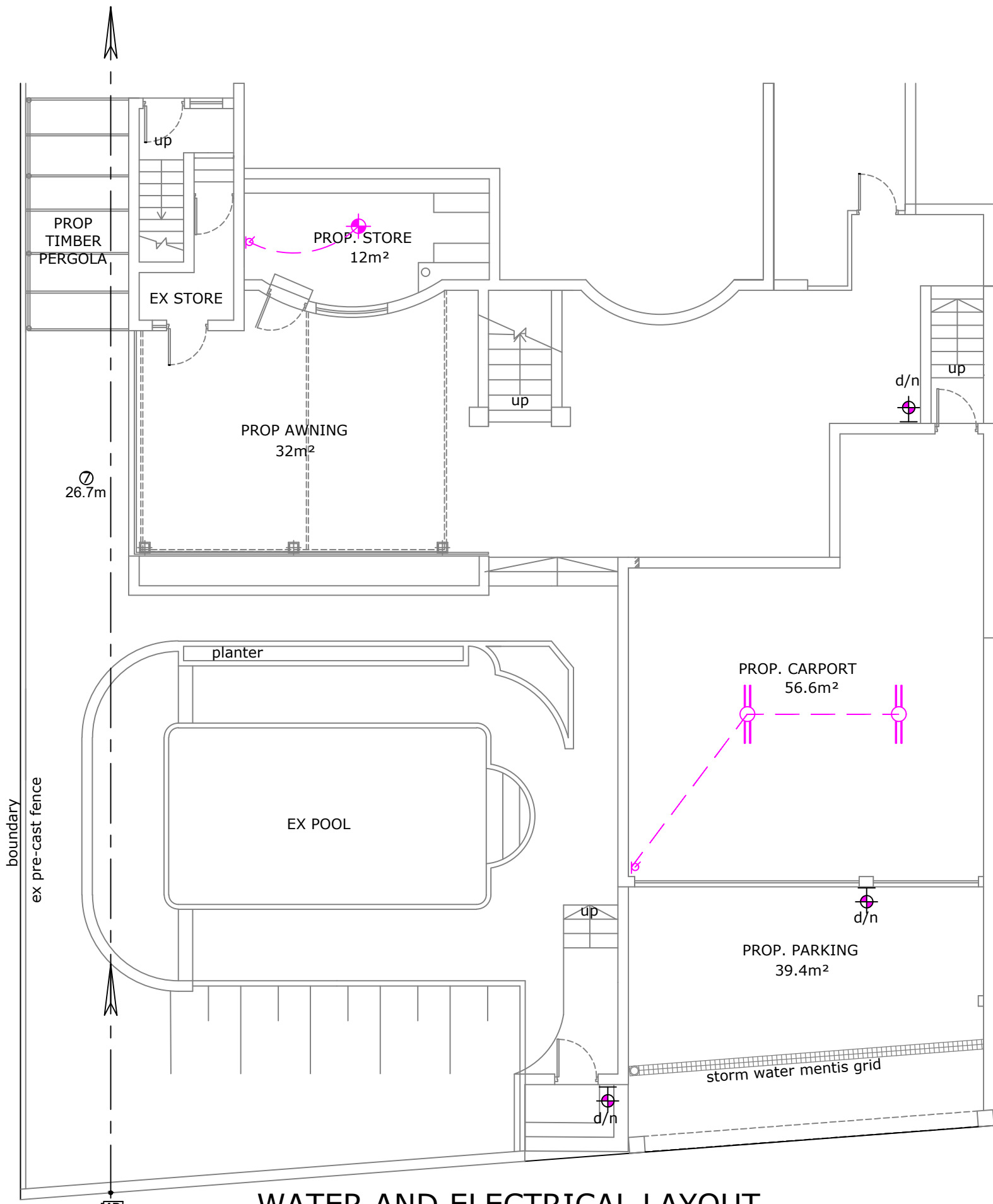
TOTAL FENESTRATION CALCULATIONS BASEMENT STOREY
 Net Floor Area : 12m²
 Fenestration : 1.58 sqm
 Ratio Percentage : 13.1%
 COMPLIES WITH SANS 204 AND SANS 10400 XA

DOOR SCHEDULE

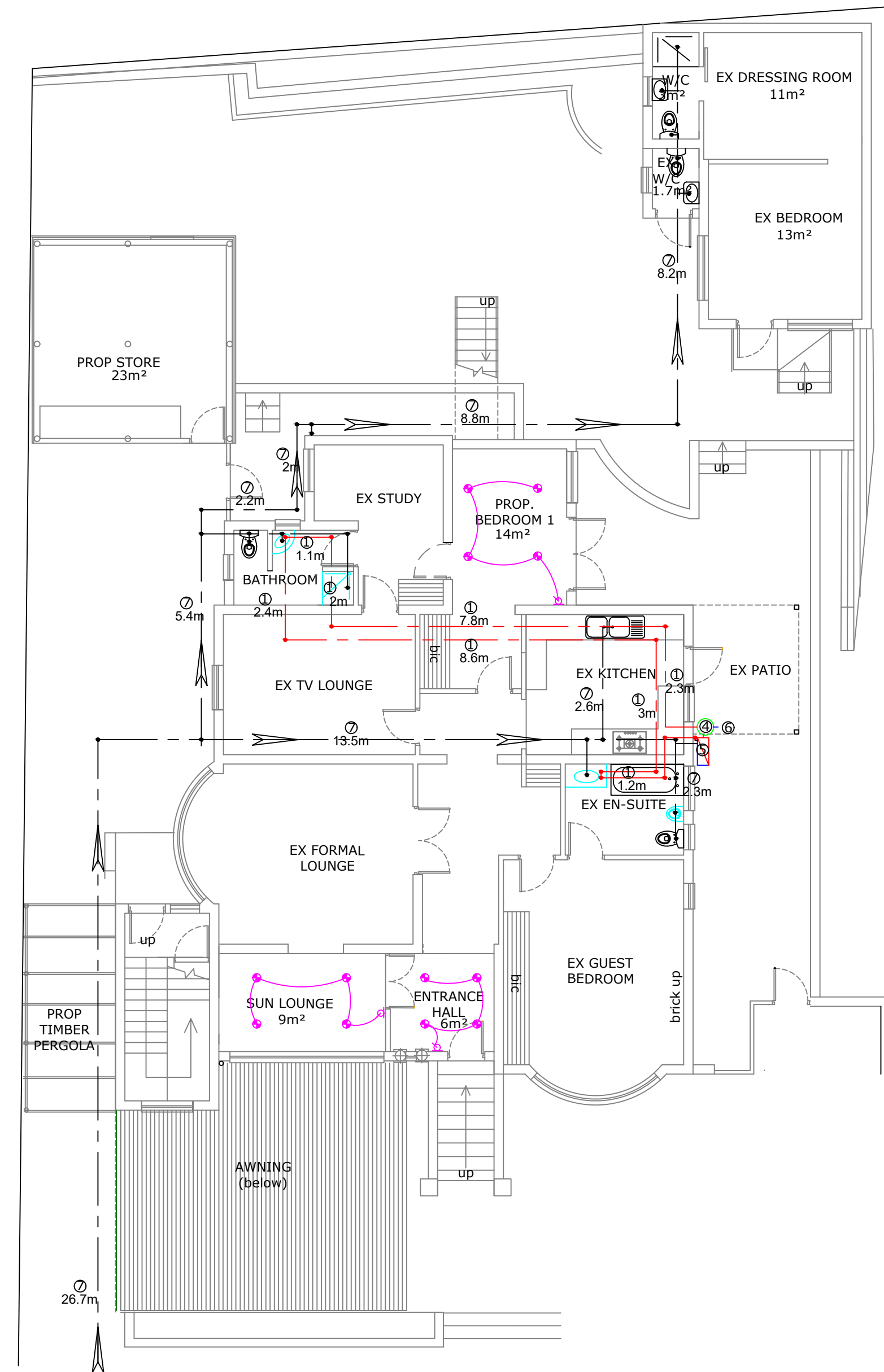
	DOOR 1 Total - 6 Size - 1.806sqm Description - Internal painted door Type - hollow core timber door
	DOOR 2 Total - 1 Size - 1.806sqm Type - treated hard wood stable door Description - external painted door
	DOOR 3 Total - 2 Size - 1.806sqm Type - treated hard wood external door Description - external painted door
	DOOR 4 Total - 1 Size - 1.89sqm Description - front door external painted door Type - hard wood external door
	DOOR 5 Total - 1 Size - 4.01sqm Type - french door with fixed top panel Glazing - 4mm toughened safety glass Description - mahogany treated timber door frame

NOTES:

- HANDING & QUANTITY TO BE DETERMINED FROM LAYOUT DRAWINGS.
- ALL OPENINGS TO BE MEASURED PRIOR MANUFACTURING. DISCREPANCIES TO BE REPORTED TO ARCHITECT.
- DEVIATION FROM DRAWINGS AND/OR SPECIFICATION TO BE DISCUSSED WITH AND APPROVED BY THE ARCHITECT/CLIENT PRIOR TO MANUFACTURE.
- DRAWING NOT TO BE MEASURED, ONLY READ



WATER AND ELECTRICAL LAYOUT
BASEMENT STOREY
 scale 1:100



WATER AND ELECTRICAL LAYOUT
GROUND STOREY
 scale 1:100

ENERGY EFFICIENCY OF GLAZING ELEMENTS GROUND STOREY
 CLIMATE ZONE 5
 OCCUPANCY H3

NETT FLOOR AREA GROUND STOREY = 59.5m² x (15% = 5.76m² permissible)
 PERMISSIBLE CONDUCTANCE - (1.4) X 59.5sqm = 83.3
 PERMISSIBLE SHGC - (0.11) X 59.5sqm = 6.545

WINDOW TYPE	HEIGHT	WIDTH	AREA (A)	U-VALUE (U)	U-COAST (AXU)	G	G effect	P	H	G-effect xP/H	ORIENTATION	E-FACTOR	SHGC	SHGC COST A x E x SHGC
Window 5	1.738m	3.6m	6.25m	3	18.75	0.1m	1	0.1m	1.838m	0.054	EAST	1.13	0.68	4.8025
Window 1	0.9m	0.6m	0.54m	4.23	2.2842	0.1m	1	0.3m	0.7m	0.43	NORTH	0.27	0.68	0.099144
Door 5	2.4m	1.71m	4.01m	3	12.03	3m	0.5	0.2m	5.4m	0.019	NORTH	0.44	0.72	1.270368
Window 3	0.9m	1.2m	1.08m	5.6	6.048	3.2m	0.5	0.2m	4.1m	0.024	NORTH	0.44	0.77	0.365904
AGGREGATE CONDUCTANCE = 39.1122														6.537916

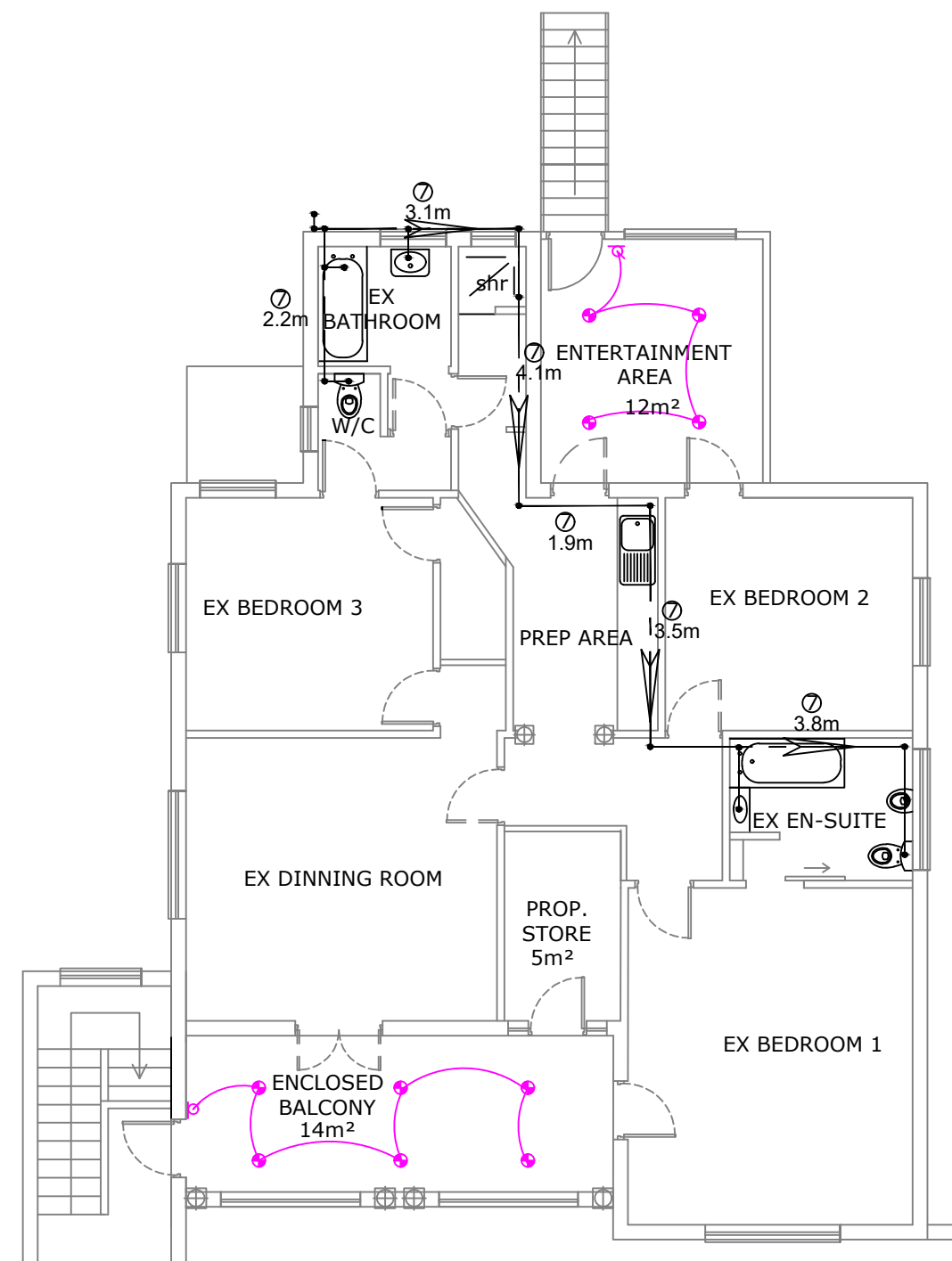
CONDUCTANCE AND SHGC IS BELOW THAN PERMISSIBLE AND COMPLIES WITH SANS 10400 - 204 AND SANS 10400 XA AGGREGATE SHGC =

ENERGY EFFICIENCY OF GLAZING ELEMENTS FIRST STOREY
 CLIMATE ZONE 5
 OCCUPANCY H3

NETT FLOOR AREA FIRST STOREY = 32m² x (15% = 4.8m² permissible)
 PERMISSIBLE CONDUCTANCE - (1.4) X 32sqm = 44.8
 PERMISSIBLE SHGC - (0.11) X 32sqm = 3.52

WINDOW TYPE	HEIGHT	WIDTH	AREA (A)	U-VALUE (U)	U-COAST (AXU)	G	G effect	P	H	G-effect xP/H	ORIENTATION	E-FACTOR	SHGC	SHGC COST A x E x SHGC
Window 4 x 2	1.1m	2.06m	2.3m	4.23	9.729	0.1m	1	0.3m	1.2m	0.25	EAST	0.95	0.72	1.5732
Window 2	1.05m	1.65m	1.58m	5.6	8.848	0.1m	1	0.3m	1.15m	0.26	WEST	0.96	0.77	1.167936
AGGREGATE CONDUCTANCE = 18.577														2.741136

CONDUCTANCE AND SHGC IS BELOW THAN PERMISSIBLE AND COMPLIES WITH SANS 10400 - 204 AND SANS 10400 XA



WATER AND ELECTRICAL LAYOUT
FIRST STOREY
 scale 1:100

ELECTRICAL HOUSE LEDGER

9	⊕	LIGHT SWITCH SINGLE
4	⊕	DOUBLE FLORESCENT TUBE LIGHT 12w
2	⊕	CEILING LIGHTS 5w
22	⊕	DOWN LIGHTS 3w
3	⊕	WALL LIGHTS 6w with day night censor

ENERGY CONSUMPTION
 Total Energy Demand [F/A x S]

TYPE FITTING :
 NETT FLOOR AREA = 123.6m² x 5kWh = 618.00kWh/Paunit No.

	no. of lights	watts	hrs
DOUBLE FLORESCENT	4	12	8
CEILING LIGHTS	2	12	8
DOWN LIGHTS	22	3	8
WALL LIGHTS	3	6	8

4 x 12 x 8 x 365 = 140.160 KWH/PA
 2 x 12 x 8 x 365 = 70.08KWH/PA
 22 x 3 x 8 x 365 = 192.720KWH/PA
 3 x 6 x 8 x 365 = 52.560KWH/PA

TOTAL 455.52KWH/PA < 618.00 KWH/PA
 (COMPLIES WITH SANS 10400 XA AND SANS 204)

LEGEND

1	—	-15mm hot water pipe
2	—	-20mm cold water pipe
3	⊗	- ex isolating valve
4	⊕	- 200L hp storage water heater
5	⊕	-heat pump
6	—	-50mm overflow pipe direct from drip trayto discharge externally
7	—	-EX 20mm cold water pipe

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