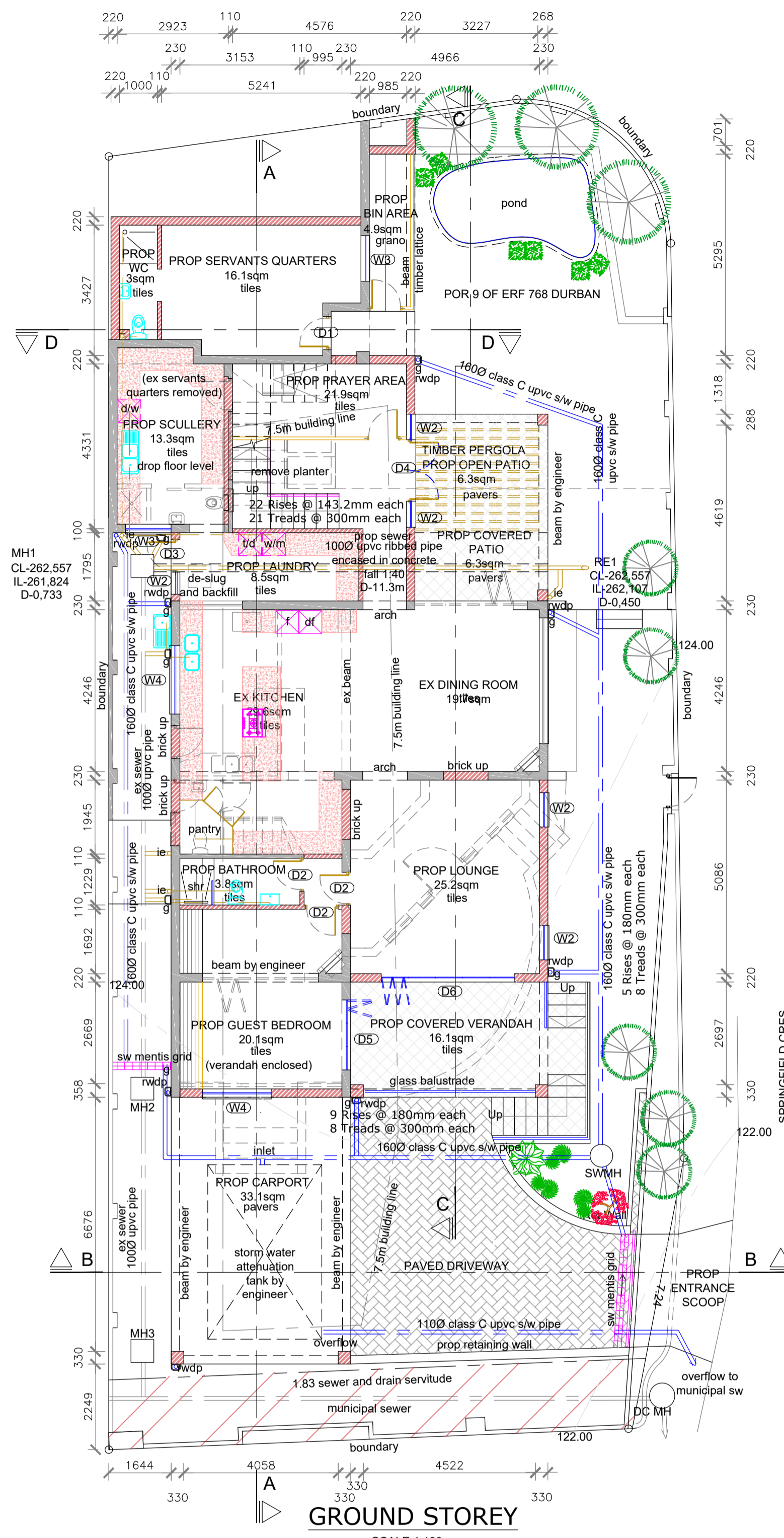
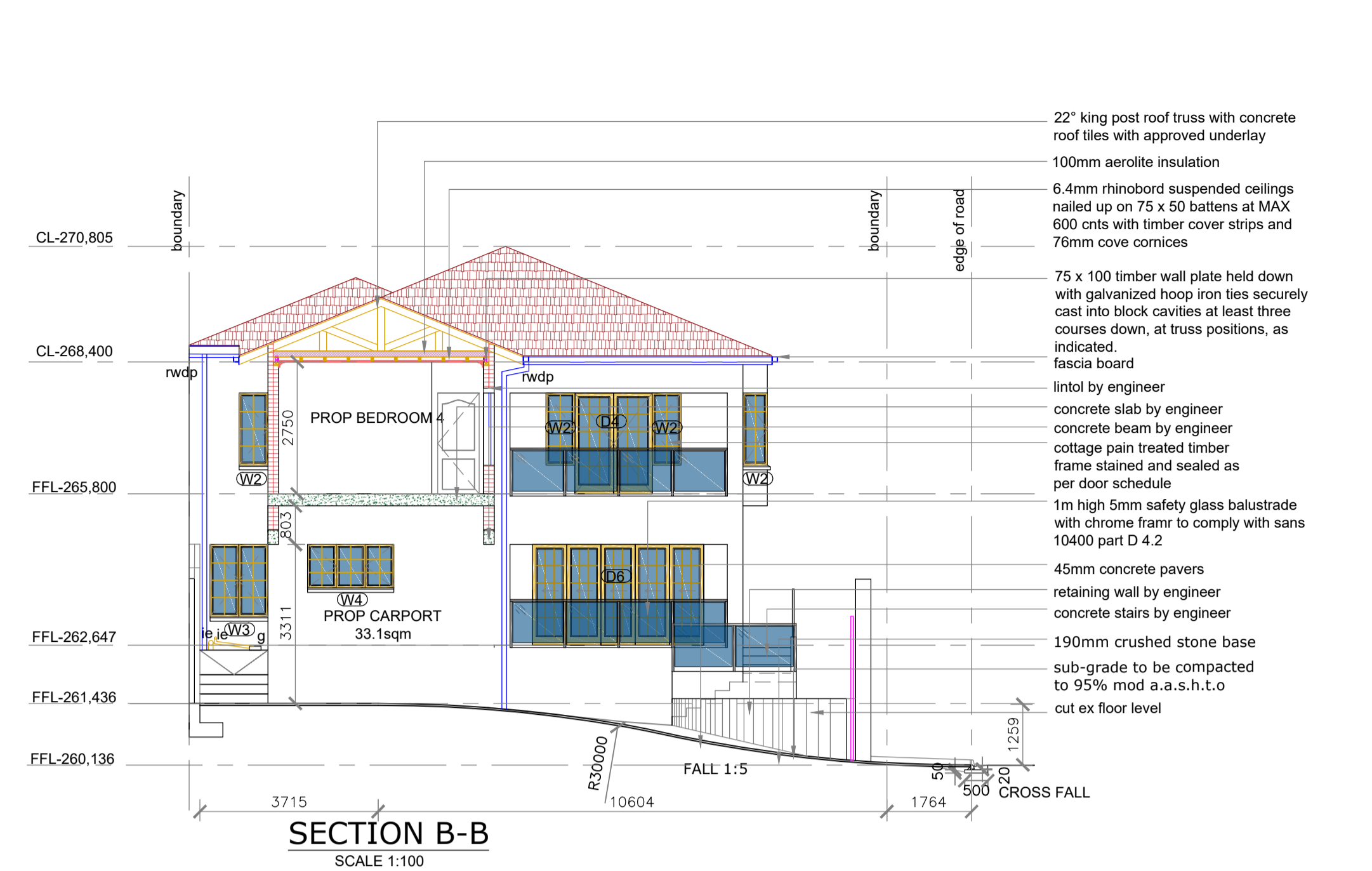


FIRST STOREY
SCALE 1:100



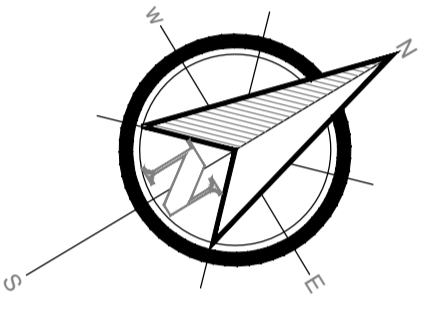
GROUND STOREY
SCALE 1:100



SECTION B-B
SCALE 1:100

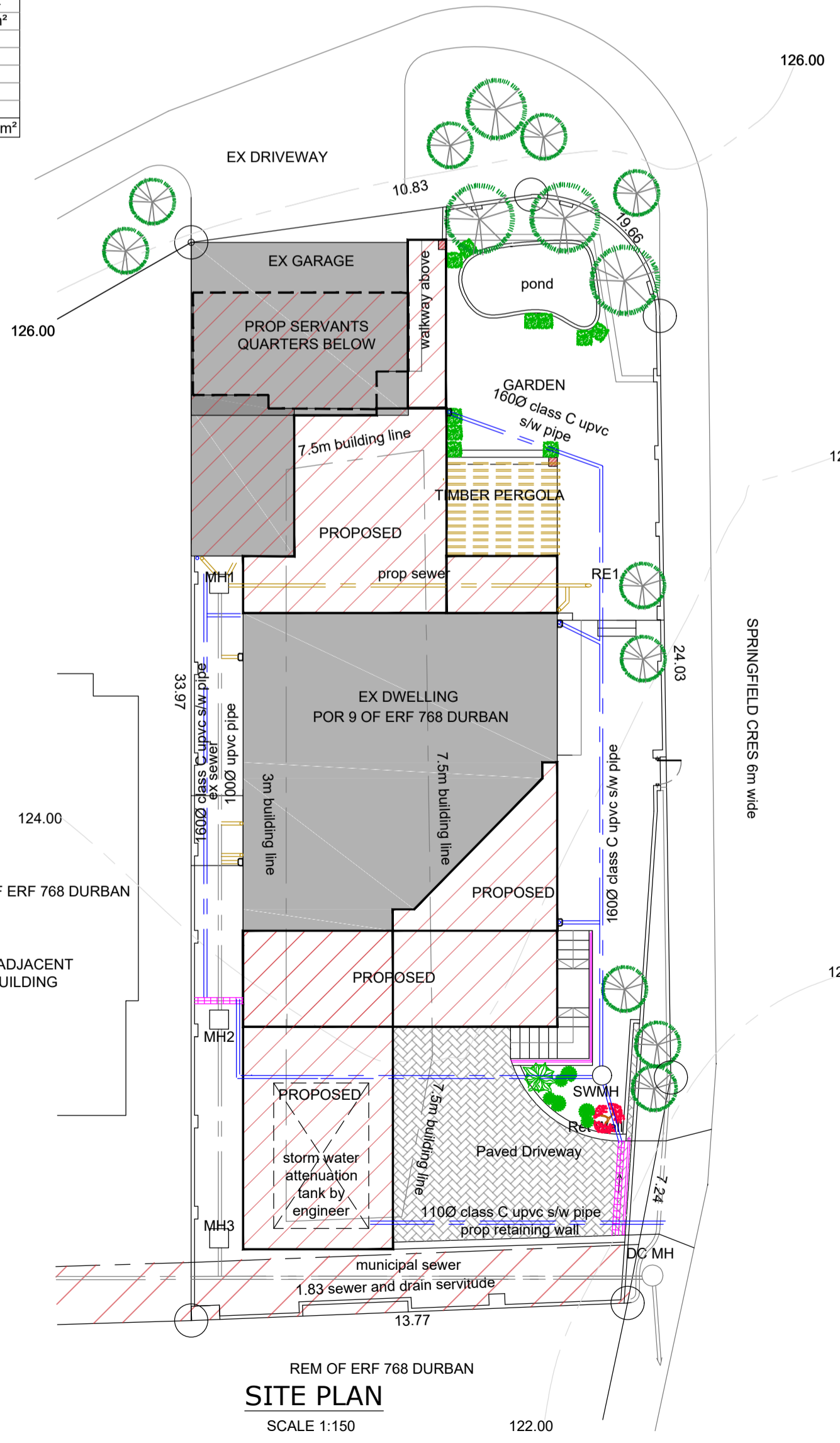
SITES ZONED: GENERAL RESIDENTIAL 1
 POR 9 ERF 768 DURBAN SITE AREA: 521sqm
 COVERAGE PERMISSIBLE: 50% = 260.5sqm
 F.A.R PERMISSIBLE: 1.2 = 625.2sqm

FLOOR AREA:	AREA	COV	F.A.R
EX. GROUND STOREY -	85m ²	---	85m ²
EX. FIRST STOREY -	87m ²	87m ²	87m ²
EX. GARAGE -	37m ²	37m ²	---
EX. SERVANTS QUARTERS TO G/S-	15m ²	15m ²	15m ²
TOTAL EX AREA -	224m²	139m²	187m²
PROP. FIRST STOREY VERANDAH -	113m ²	98m ²	113m ²
PROP. GROUND STOREY VERANDAH -	84m ²	16m ²	---
PROP. GROUND STOREY VERANDAH -	16m ²	---	---
PROP. COVERED PATIO -	8m ²	---	---
PROP. CARPORT -	33m ²	---	---
PROP. COVERED AREA -	7m ²	7m ²	---
TOTAL NEW AREA -	275m²	121m²	197m²
EX COVERAGE =	139sqm		
EX FAR =	187sqm		
PROP. COVERAGE =	121sqm		
PROP. FAR =	197sqm		
TOTAL COV =	260sqm		
TOTAL FAR =	384sqm		
COVERAGE IN HAND =	0.5sqm		
FAR IN HAND =	241sqm		



LEGEND

- NEW BRICKWORK
- REMOVE WALL
- CONCRETE ROOF TILES
- EX WALL
- NEW STEEL BEAM



SITE PLAN
SCALE 1:150

NOTES IN RESPECT OF SA STANDARD CODE OF PRACTICE FOR THE APPLICATION OF THE NATIONAL BUILDING REGULATIONS SANS 10400-2010

GENERAL NOTES

- CONTRACTOR TO REPORT ANY DISCREPANCIES, OMISSIONS OR DEVIATIONS TO ARCHITECT.
- DO NOT SCALE THIS DRAWING.
- CONTRACTOR TO NOTIFY LOCAL AUTHORITY WHEN INSPECTIONS ARE DUE AND TO OBTAIN ALL THE NECESSARY CLEARANCES AND CERTIFICATES.
- CONTRACTOR TO LOCATE & IDENTIFY ANY SERVICES ON SITE AND PROTECT THESE FROM DAMAGE DURING CONSTRUCTION.
- CONTRACTOR TO ENSURE ALL CERTIFICATES OF COMPLIANCE ARE HANDED TO OWNER ON COMPLETION OF CONSTRUCTION.
- ALL CONSTRUCTION MATERIALS AND COMPONENTS TO COMPLY STRICTLY WITH ALL NATIONAL BUILDING REGULATIONS (NBR), AND SANS 10400 SPECIFICATIONS AND CODES OF PRACTICE.

ELECTRICAL:

- PROPOSED LAYOUT OF LIGHTING FITTINGS AND POWER POINTS, ACTUAL LED FITTINGS, EXTERNAL LIGHTING, DISTRIBUTION BOARD AND WATER HEATING TO BE DISCUSSED WITH OWNER AND ALLOWED FOR AT THE OUT SET.
- ELECTRICAL REFER TO ELECTRICAL LAYOUT.
- ELECTRICAL TO BE FITTED BY COUNCIL APPROVED REGISTERED ELECTRICIAN.

SUSPENDED CONCRETE SLABS WALLS AND FOUNDATIONS

- STRICTLY TO ENGINEERS DETAIL AND DESIGN.
- JOINTS TO WALLS AND SLABS TO COMPLY WITH ENGINEER.
- ENGINEER TO INSPECT BUILDING WORK DURING CONSTRUCTION.
- STABILITY TO BE CERTIFIED BY ENGINEER ON COMPLETION OF PROJECT
- NEW COMMON BRICK WALLS AS SHOWN WITH GALVANIZED BRICK FORCE AS SPECIFIED BY ENGINEER AND TO BE PROVIDED AT SLAB, SILL AND WALL PLATE LEVEL, AND LAID TO MANUFACTURERS RECOMMENDATIONS, WITH EXPANSION JOINTS TO ENGINEERS DETAILS.
- ALL SAND USED IN MORTAR TO BE SCREENED FREE OF IMPURITIES AND CLEANED, TOP SURFACE OF ALL NEW PARAPETS, OPENINGS, EXPOSED WALLS AND SILLS TO BE WATERPROOFED WITH APPROVED WATERPROOF MEMBRANE.
- PRECAST R/C LINTELS TO ALL NEW OPENINGS WITH BRICK FORCE ABOVE AS PER ENGINEER.
- 1 COAT SMOOTH SAND/CEMENT PLASTER TO ALL NEW EXTERNAL WALLS. ALL MATERIALS USED IN PLASTER TO COMPLY WITH THE RELEVANT SANS 10400 STANDARD SPECIFICATIONS.
- ALL SUPPORT COLUMNS, BEAMS, SLAB AND STAIRS TO ENGINEERS DESIGN.

SANWARE:

- PROPOSALS TO BE DISCUSSED UP FRONT WITH THE OWNER, INCLUDING THE SHOWER CUBICLE. SINK ALSO TO BE AGREED.
- MUNICIPAL TICKET REGISTERED PLUMBING CONTRACTOR IS TO PERFORM PLUMBING INSTALLATION AND COMPLY WITH MUNICIPAL WATER SUPPLY BY-LAWS.

WALLING:

- 230MM BRICK WALLS WITH A 50MM AIR CAVITY
- BRICK FORCE EVERY THIRD COURSE.
- CEMENT RENDER INSIDE AND EXTERNALLY, INCLUDING HEADS AND REVEALS.
- ON TOP PLACE A 75 X 100 TIMBER WALL PLATE HELD DOWN WITH GALVANISED HOOP IRON TIES SECURELY CAST INTO BLOCK CAVITIES AT LEAST THREE COURSES DOWN, AT TRUSS POSITIONS, AS INDICATED.

ROOFING:

- 22.5° HIPPED ROOF WITH KING POST ROOF TRUSS EXPOSED @ 450MM CNTS WITH CONCRETE ROOF TILES WITH APPROVED UNDERLAY
- 75 X 50 PURLINS SECURED AT CENTRES RECOMMENDED FOR 0.47 THICK GALVANISED IBS SHEETING WITH SUPPLIED SCREWS AND WASHERS.
- 6.4MM RHINOBOARD SUSPENDED CEILINGS NAILED UP ON 75 X 50 BATTENS AT 600 CCS WITH TIMBER COVER STRIPS AND 76MM COVE CORNICES INTERNALLY EXCEPT FOR EXTERNALLY ON VERANDA AND BATHROOMS WHERE NUTEC BOARDING IS TO BE USED.
- ROOF TRIMS TO CONSIST OF EVERITE NUTEC 80 X 200 BARGE BOARDS WITH LOWER FASCIA 10 X 200 WITH MARLEY PVC RAINWATER GOODS.
- PREFABRICATED AND JOINED WITH PLATES, BY ACCREDITED MANUFACTURERS AND BE CERTIFIED.
- 100mm MARLEY UPVC VYNADEEP HALF ROUND GUTTERS AND MATCHING ACCESSORIES, INCLUDING, SWAN NECK RETURN, DOWN PIPES, BRACKETS AND HOLDERBATS.
- ROOF DESIGNED AND INSPECTED BY ENGINEER

DOORS:

- INTERNAL DOORS TO BE IN PAINTED TIMBER FRAMES, BUILT IN AND DOORS TO BE FLUSH, SEMI-SOLID WITH MORTICE LOCKS (TWO LEVER TO BATHROOMS WITH THE BALANCE THREE LEVER)
- AS PER DOOR SCHEDULE.
- EXTERNAL DOOR TIMBER HARD WOOD INSIDE A TIMBER 100 X 50 TIMBER FRAME, FOUR LEVER MORTICE LOCKSET, RESTRAINER CHAIN AND EYEPICE ALSO FITTED

WINDOWS:

- RENDERED SILLS PROJECTING 25 WITH A DRIP AND INCLUDING A DPC BELOW, TUCKED INTO THE FRAME.
- AS PER WINDOW SCHEDULE.

FINISHES:

- PVA PAINT THROUGHOUT TO OWNERS CHOICE, OIL PAINT ON NUTEC CEILINGS TO VERANDAS AND BATHROOMS.

GLAZING:

- ALL GLAZING TO COMPLY WITH SANS 10400-N 2010 AS PER GLAZING SCHEDULE.
- GLAZING CERTIFICATE REQUIRED FROM SAGGA ON COMPLETION.

APPLICANT SIGNATURE: _____

OWNER SIGNATURE: _____

CLIENT: _____

ADDRESS:
702 STEPHEN DLAMINI ROAD
POR 9 OF ERF 768 DURBAN

PROJECT:
PROPOSAL ADDITIONS AND ALTERATIONS

Budget Plans cc Trading as
Architectural Aspirations
CK 95/35928/23

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Morningside
Durban
4001

Tel : 031 -208 9382
Fax: 086 428 3415
email: marianblack1960@GMAIL.COM
www.architecturalaspirations.co.za

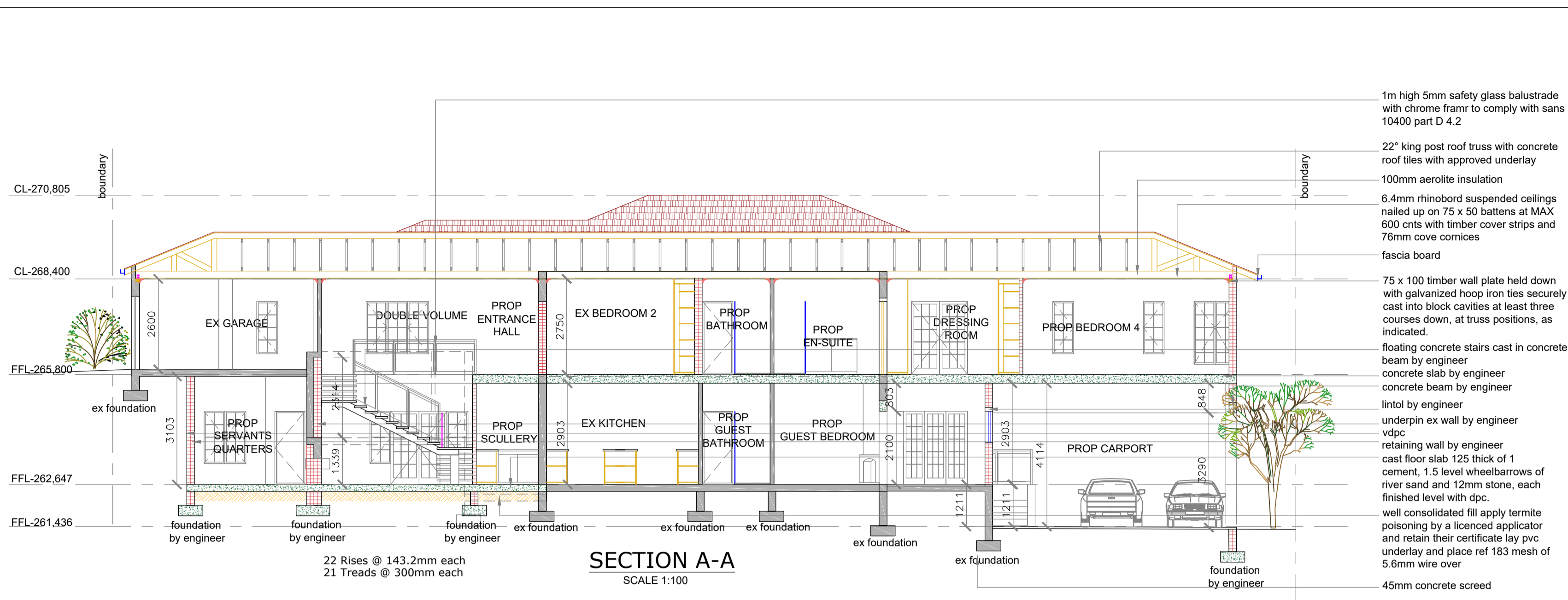
CHECKED : MARIAN BLACK
Registration : SACAP T0076
KZNTA 103 SAIBD B0404

Drawn: WESLEY R.LAVIS
Registration: SACAP PAD 3383 5850
SAIBD 10519/2021/KZN

Date: 27 SEPTEMBER 2023 Paper Size: A1

Sheet: 1 of 4 Scale: as shown

Drawing Number: 3008/23W Revision: C



SECTION A-A
SCALE 1:100

1m high 5mm safety glass balustrade with chrome frame to comply with sans 10400 part D 4.2

22° king post roof truss with concrete roof tiles with approved underlay

100mm aerolite insulation

6.4mm rhinobord suspended ceilings nailed up on 75 x 50 battens at MAX 600 cnts with timber cover strips and 76mm cove cornices

facia board

75 x 100 timber wall plate held down with galvanized hoop iron ties securely cast into block cavities at least three courses down, at truss positions, as indicated.

floating concrete stairs cast in concrete beam by engineer

concrete slab by engineer

concrete beam by engineer

lintol by engineer

underpin ex wall by engineer

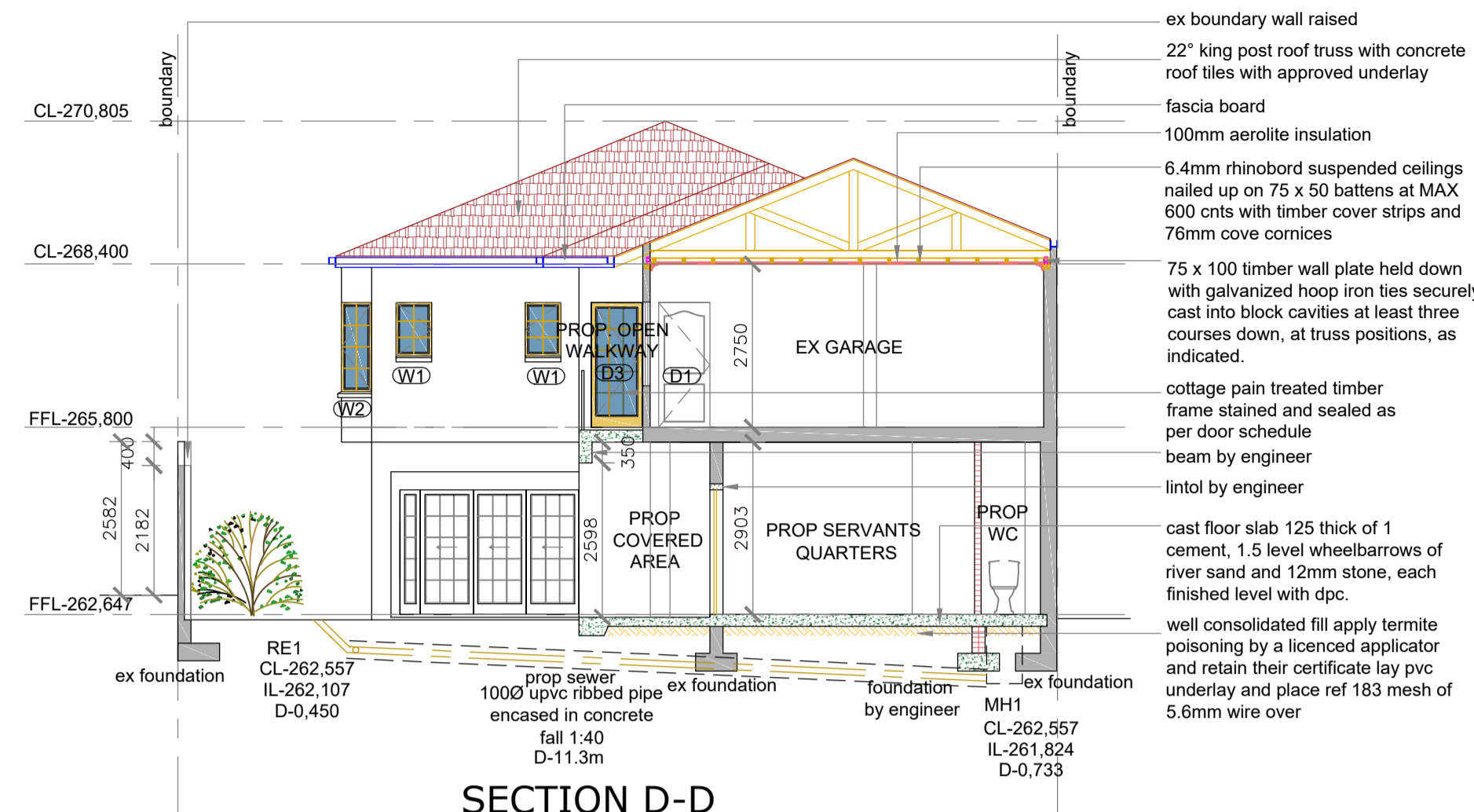
vdpc

retaining wall by engineer

cast floor slab 125 thick of 1 cement, 1.5 level wheelbarrows of river sand and 12mm stone, each finished level with dpc.

well consolidated fill apply termite poisoning by a licenced applicator and retain their certificate lay pvc underlay and place ref 183 mesh of 5.6mm wire over

45mm concrete screed



SECTION D-D
SCALE 1:100

ex boundary wall raised

22° king post roof truss with concrete roof tiles with approved underlay

facia board

100mm aerolite insulation

6.4mm rhinobord suspended ceilings nailed up on 75 x 50 battens at MAX 600 cnts with timber cover strips and 76mm cove cornices

75 x 100 timber wall plate held down with galvanized hoop iron ties securely cast into block cavities at least three courses down, at truss positions, as indicated.

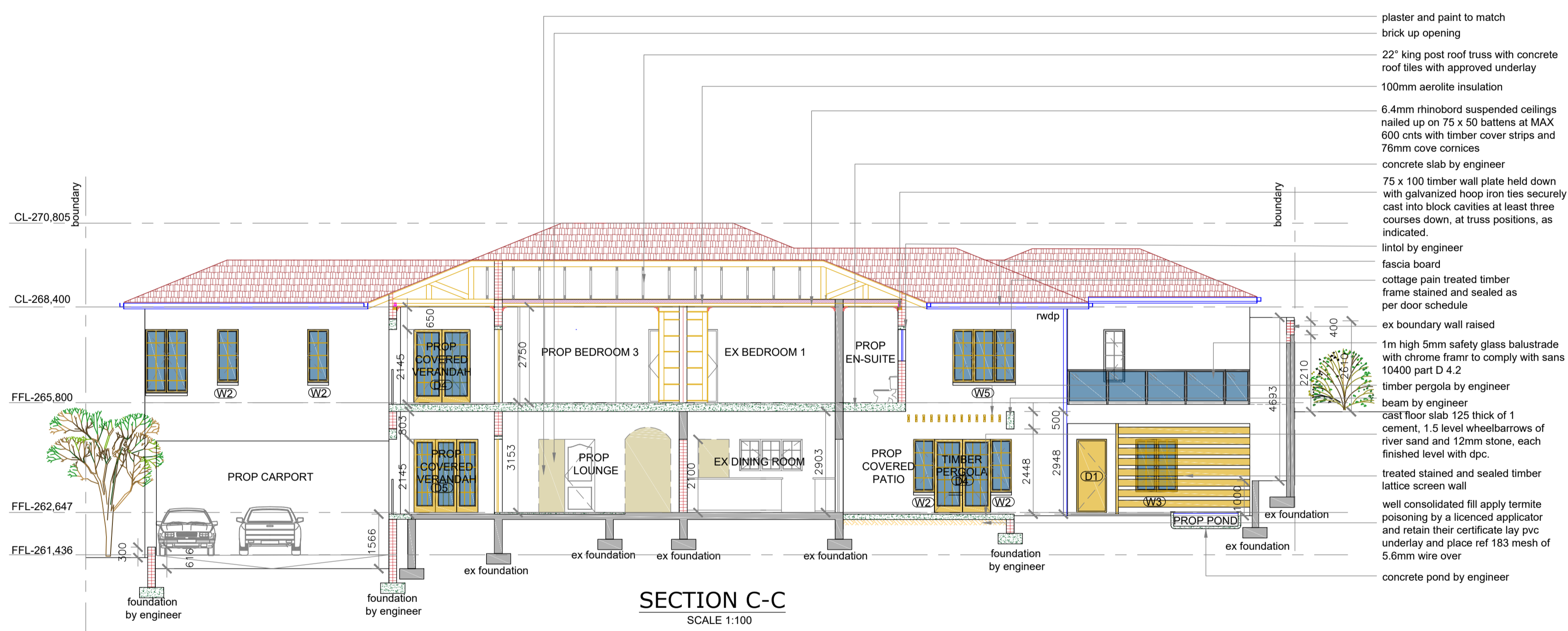
cottage pain treated timber frame stained and sealed as per door schedule

beam by engineer

lintol by engineer

cast floor slab 125 thick of 1 cement, 1.5 level wheelbarrows of river sand and 12mm stone, each finished level with dpc.

well consolidated fill apply termite poisoning by a licenced applicator and retain their certificate lay pvc underlay and place ref 183 mesh of 5.6mm wire over



SECTION C-C
SCALE 1:100

plaster and paint to match brick up opening

22° king post roof truss with concrete roof tiles with approved underlay

100mm aerolite insulation

6.4mm rhinobord suspended ceilings nailed up on 75 x 50 battens at MAX 600 cnts with timber cover strips and 76mm cove cornices

concrete slab by engineer

75 x 100 timber wall plate held down with galvanized hoop iron ties securely cast into block cavities at least three courses down, at truss positions, as indicated.

lintol by engineer

facia board

cottage pain treated timber frame stained and sealed as per door schedule

ex boundary wall raised

1m high 5mm safety glass balustrade with chrome frame to comply with sans 10400 part D 4.2

timber pergola by engineer

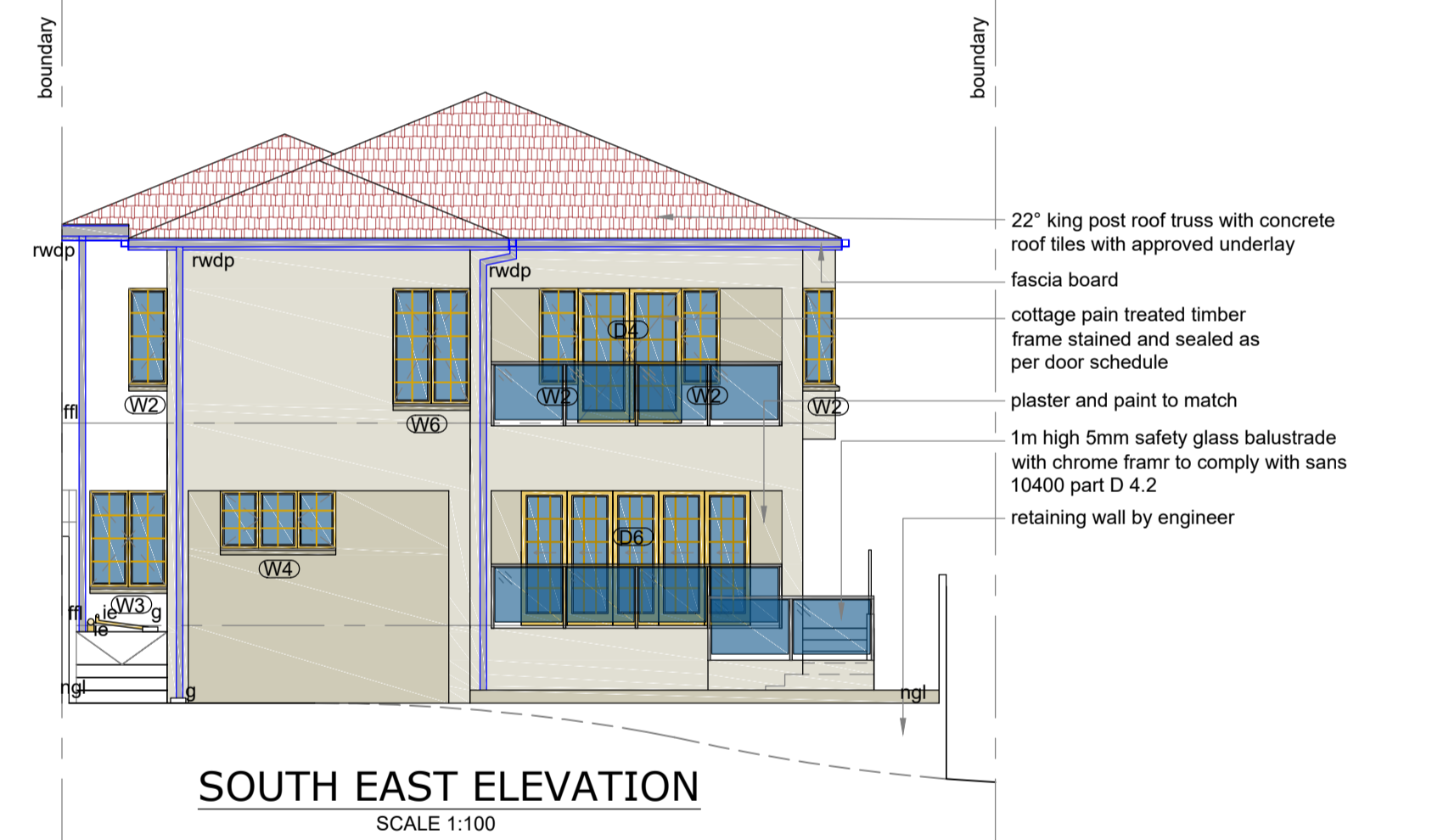
beam by engineer

cast floor slab 125 thick of 1 cement, 1.5 level wheelbarrows of river sand and 12mm stone, each finished level with dpc.

treated stained and sealed timber lattice screen wall

well consolidated fill apply termite poisoning by a licenced applicator and retain their certificate lay pvc underlay and place ref 183 mesh of 5.6mm wire over

concrete pond by engineer



SOUTH EAST ELEVATION
SCALE 1:100

22° king post roof truss with concrete roof tiles with approved underlay

facia board

cottage pain treated timber frame stained and sealed as per door schedule

plaster and paint to match

1m high 5mm safety glass balustrade with chrome frame to comply with sans 10400 part D 4.2

retaining wall by engineer



NORTH EAST ELEVATION
SCALE 1:100

22° king post roof truss with concrete roof tiles with approved underlay

facia board

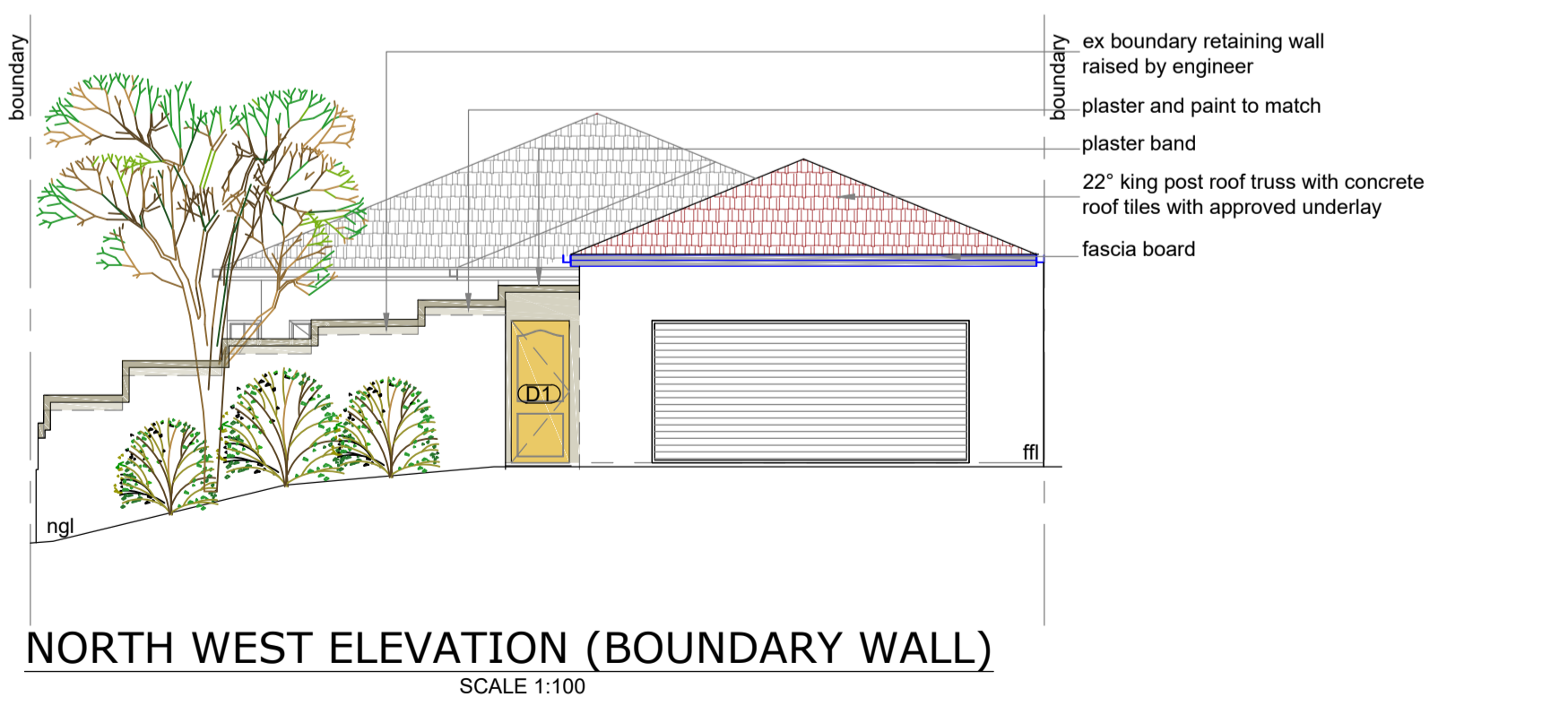
cottage pain treated timber frame stained and sealed as per door schedule

plaster and paint to match

1m high 5mm safety glass balustrade with chrome frame to comply with sans 10400 part D 4.2

raise ex boundary retaining wall by engineer

treated stained and sealed timber lattice screen wall



NORTH WEST ELEVATION (BOUNDARY WALL)
SCALE 1:100

ex boundary retaining wall raised by engineer

plaster and paint to match

plaster band

22° king post roof truss with concrete roof tiles with approved underlay

facia board

APPLICANT SIGNATURE:	
OWNER SIGNATURE:	
CLIENT:	
ADDRESS: 702 STEPHEN DLAMINI ROAD POR 9 OF ERF 768 DURBAN	
PROJECT: PROPOSAL ADDITIONS AND ALTERATIONS	
<p style="text-align: center;"><i>Architectural Aspirations</i></p> <p style="text-align: center;"><small>Budget Plans cc Trading as</small></p>	
Address : 27 Lady Bruce Place Morningside Durban 4001	Tel : 031-208 9382 Fax: 086 428 3415 email: marianblack1960@GMAIL.COM www.architecturalaspirations.co.za
CHECKED : MARIAN BLACK Registration: SACAP 10076 KZNSA 103 SAIBD B0404	Drawn: WESLEY R. LAVIS Registration: SACAP P40 3383 5850 SAIBD L0519/2021/KZN
Date: 27 SEPTEMBER 2023	Paper Size: A1
Sheet: 2 of 4	Scale: as shown
Drawing Number: 3008/23W	Revision: C

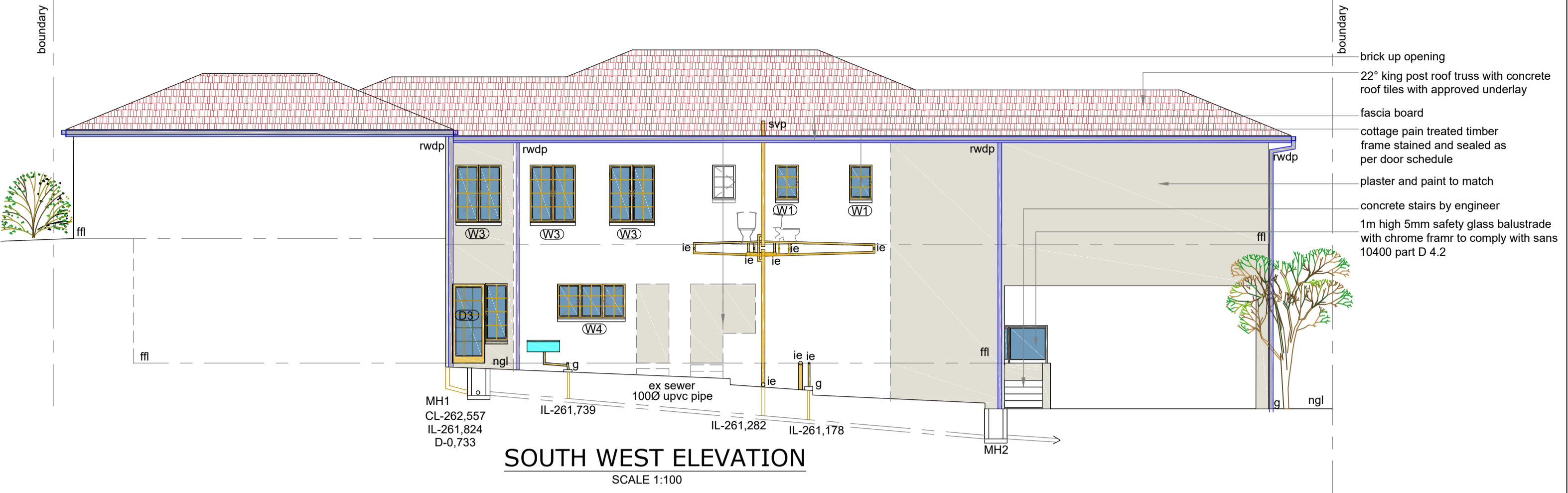
DOOR SCHEDULE

	DOOR 1 Type - hard wood timber solid door 60min fire rated Total - 3 Size - 1.806sqm Description - painted white
	DOOR 2 Type - semi solid door, hardboard face panels, edges with h/w timber surround with corrugated cardboard fill Total - 10 Size - 1.806sqm Description - Internal doors with timber frames painted white
	DOOR 3 Type - hard wood cottage pain single door Total - 2 Size - 1.806sqm Glazing - 4mm toughened safety glass Description - cottage pain mahogany treated timber frame stained and sealed
	DOOR 4 Type - hard wood cottage pain double door Total - 3 Size - 3.36sqm Glazing - 4mm toughened safety glass Description - cottage pain mahogany treated timber frame stained and sealed
	DOOR 5 Type - hard wood cottage pain folding stacking door Total - 1 Size - 3.87sqm Glazing - 4mm toughened safety glass Description - cottage pain mahogany treated timber frame stained and sealed
	DOOR 6 Type - hard wood cottage pain folding stacking door Total - 1 Size - 7.5sqm Glazing - 4mm toughened safety glass Description - cottage pain mahogany treated timber frame stained and sealed

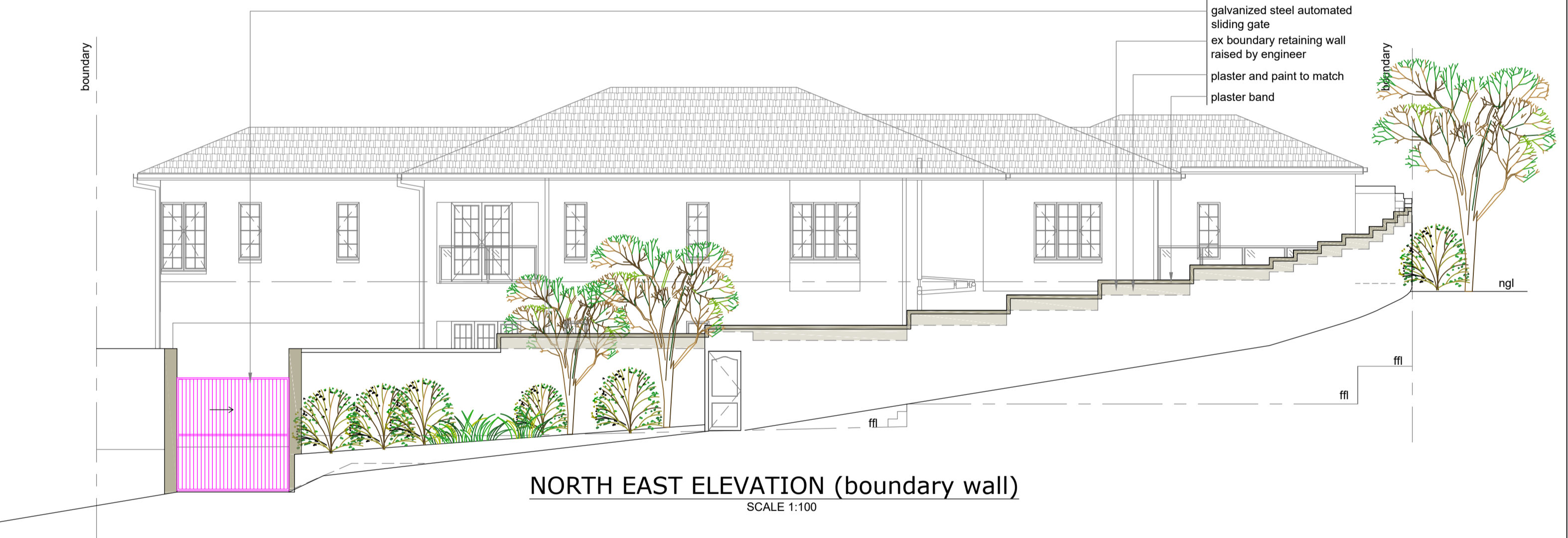
WINDOW SCHEDULE

	WINDOW 1 Type - side hung Total - 4 Size - 0.54sqm Glazing - 4mm toughened safety glass Description - cottage pain mahogany treated timber frame stained and sealed
	WINDOW 2 Type - side hung Total - 16 Size - 0.9sqm Glazing - 4mm toughened safety glass Description - cottage pain mahogany treated timber frame stained and sealed
	WINDOW 3 Type - double side hung Total - 5 Size - 1.8sqm Glazing - 4mm toughened safety glass Description - cottage pain mahogany treated timber frame stained and sealed
	WINDOW 4 Type - Double side hung with fixed middle panel Total - 2 Size - 1.62sqm Glazing - 4mm monolithic annelid glazing Description - cottage pain mahogany treated timber frame stained and sealed
	WINDOW 5 Type - Double side hung with fixed middle panel Total - 2 Size - 2.7sqm Glazing - 4mm toughened safety glass Description - cottage pain mahogany treated timber frame stained and sealed
	WINDOW 6 Type - Double side hung corner window Total - 1 Size - 3.6sqm Glazing - 4mm toughened safety glass Description - cottage pain mahogany treated timber frame stained and sealed

- NOTES:**
- HANDING & QUANTITY TO BE DETERMINED FROM LAYOUT DRAWINGS.
 - ALL OPENINGS TO BE MEASURED PRIOR TO 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



SOUTH WEST ELEVATION
SCALE 1:100



NORTH EAST ELEVATION (boundary wall)
SCALE 1:100

ENERGY EFFICIENCY OF GLAZING ELEMENTS

CLIMATE ZONE 5
OCCUPANCY H4
NETT FLOOR AREA GROUND STOREY = 123.2m² x (15% = 18.48m² permissible)
PERMISSIBLE CONDUCTANCE - (1.4) X 123.2sqm = 172.48
PERMISSIBLE SHGC - (0.11) X 123.2sqm = 13.552

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 2 x 2	1.5m	0.6m	0.9m	3	2.7	0.5m	1	0.6m	1.9m	0.32	NORTH EAST	0.43	0.56	0.21672	
Door 4	2.1m	1.6m	3.36	3	10.08	0.5m	1	0.6m	2.6m	0.23	NORTH EAST	0.56	0.56	1.0536696	
Window 2 x 2	1.5m	0.6m	1.8m	3	5.4	3.7m	0.5	0.6m	5.2m	0.06	NORTH EAST	0.68	0.56	0.68544	
Door 6	2.1m	3.550m	7.5m	3	22.5	0.1m	1	3m	2.2m	1.36	SOUTH EAST	0.3	0.56	1.26	
Door 5	2.1m	1.845m	3.87m	3	11.61	0.1m	1	3m	2.2m	1.36	NORTH EAST	0.21	0.56	0.455112	
Window 4	0.9m	1.8m	1.62m	5.6	9.072	0.1m	1	3m	1m	3	SOUTH EAST	0.21	0.77	0.261954	
Window 4	0.9m	1.8m	1.62m	5.6	9.072	3.7m	0.5	0.6m	4.6m	0.07	NORTH WEST	0.53	0.77	0.661122	
Window 2	1.5m	0.6m	0.9m	3	2.7	3.7m	0.5	0.6m	5.2m	0.06	SOUTH WEST	0.69	0.56	0.34776	
Door 3	2.1m	0.86m	1.806m	3	5.418	3.7m	0.5	0.6m	5.8m	0.05	SOUTH WEST	1.17	0.56	1.183291	
Window 3	1.5m	1.2m	1.8m	3	5.4	3.7m	0.5	0.6m	5.2m	0.06	SOUTH EAST	0.169	0.56	0.170352	
AGGREGATE CONDUCTANCE=													83.952	AGGREGATE SHGC=	6.295447

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

ENERGY EFFICIENCY OF GLAZING ELEMENTS

CLIMATE ZONE 5
OCCUPANCY H4
NETT FLOOR AREA FIRST STOREY = 164.7m² x (15% = 24.705m² permissible)
PERMISSIBLE CONDUCTANCE - (1.4) X 164.7sqm = 230.58
PERMISSIBLE SHGC - (0.11) X 164.7sqm = 18.117

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	
Door3	2.1m	0.86m	1.806m	3	5.418	0.5m	1	0.6m	2.7m	0.22	NORTH WEST	0.6	0.56	0.2408	
Window 5	1.5m	1.8m	2.7	3	8.1	0.5m	1	0.6m	2m	0.3	NORTH EAST	0.52	0.56	0.4212	
Window 2 x 2	1.5m	0.6m	1.8m	3	5.4	0.5m	1	0.6m	2m	0.3	NORTH WEST	0.53	0.56	0.2862	
Window 2	1.5m	0.6m	0.9m	3	2.7	0.5m	1	0.6m	2m	0.3	NORTH WEST	0.53	0.56	0.1413	
Window 5	1.5m	1.8m	2.7m	3	8.1	0.5m	1	0.2m	2m	0.1	NORTH EAST	0.68	0.56	0.1836	
Window 2	1.5m	0.6m	0.9m	3	2.7	0.5m	1	0.2m	2m	0.1	SOUTH EAST	1.07	0.56	0.0963	
Window 2 x 4	1.5m	0.6m	3.6m	3	10.8	0.5m	1	0.6m	2m	0.3	NORTH WEST	0.53	0.56	0.5724	
Window 2 x 2	1.5m	0.6m	1.8m	3	5.4	0.1m	1	3.6m	1.6m	2.25	SOUTH EAST	0.21	0.56	0.8505	
Door 4	2.1m	1.6m	3.36m	3	10.08	0.1m	1	3.6m	2.2m	1.64	SOUTH EAST	0.24	0.56	1.319564	
Door 4	2.1m	1.6m	3.36m	3	10.08	0.1m	1	3.6m	2.2m	1.64	NORTH EAST	0.18	0.56	0.989673	
Window 6	1.8m	1.2m	2.16m	3	6.48	0.5m	1	0.6m	2.3m	0.26	SOUTH EAST	0.52	0.56	0.293009	
Window 6	1.8m	1.2m	2.16	3	6.48	0.5m	1	0.6m	2.3m	0.26	SOUTH EAST	0.82	0.56	0.462052	
Window 1 x 2	0.9m	0.6m	1.09m	3	3.27	0.5m	1	0.6m	1.4m	0.43	SOUTH WEST	0.75	0.56	0.350357	
Window 3 x 3	1.5m	1.2m	5.4m	3	16.2	0.5m	1	0.6m	2m	0.3	SOUTH WEST	0.85	0.56	1.377	
Window 2	1.5m	0.6m	0.9m	3	2.7	0.5m	1	0.2m	2m	0.1	SOUTH EAST	1.07	0.56	0.0963	
AGGREGATE CONDUCTANCE=													103.908	AGGREGATE SHGC=	7.682054

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

APPLICANT SIGNATURE:

OWNER SIGNATURE:

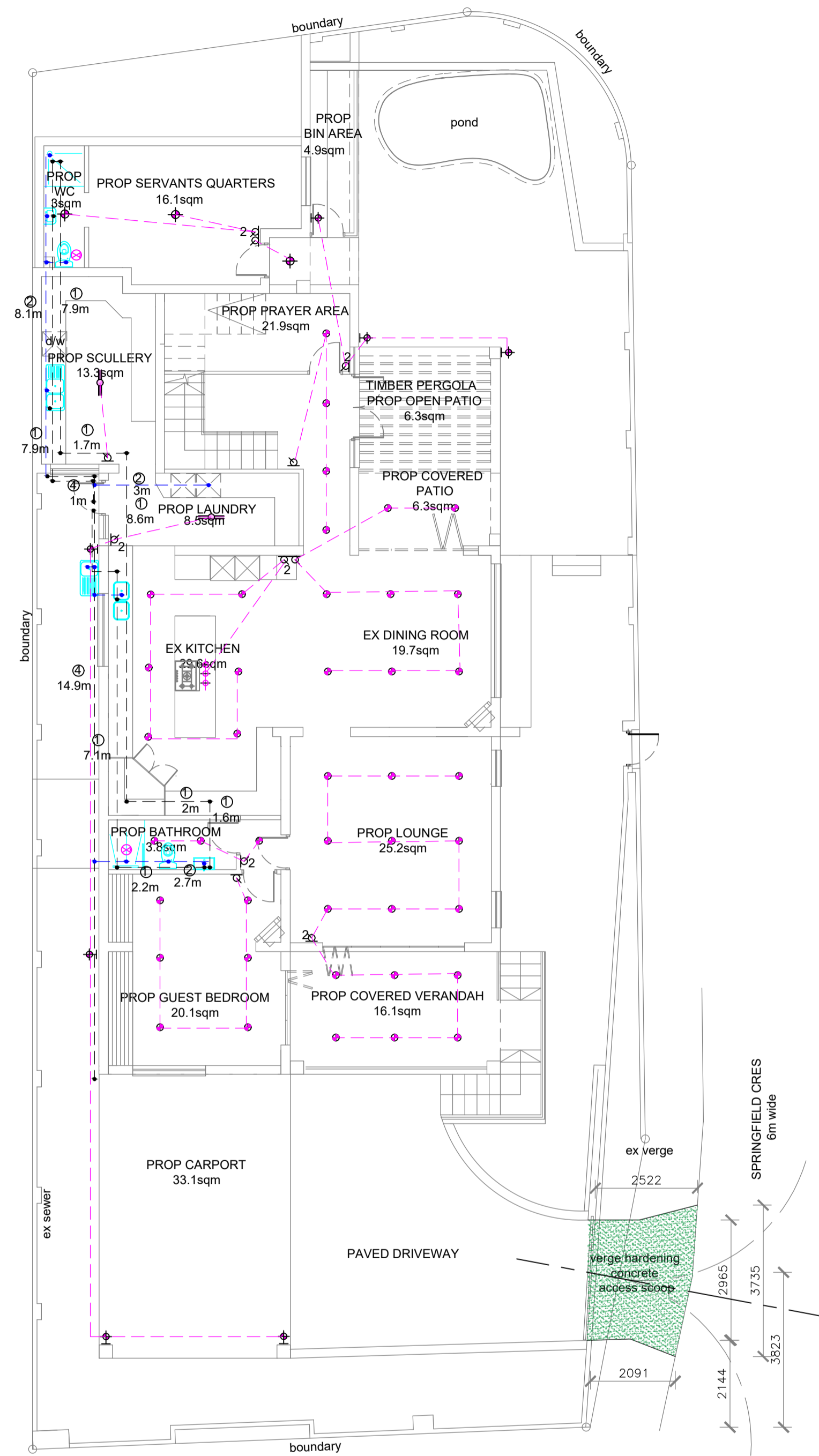
CLIENT:

ADDRESS:
702 STEPHEN DLAMINI ROAD
POR 9 OF ERF 768 DURBAN

PROJECT:
PROPOSAL ADDITIONS AND ALTERATIONS

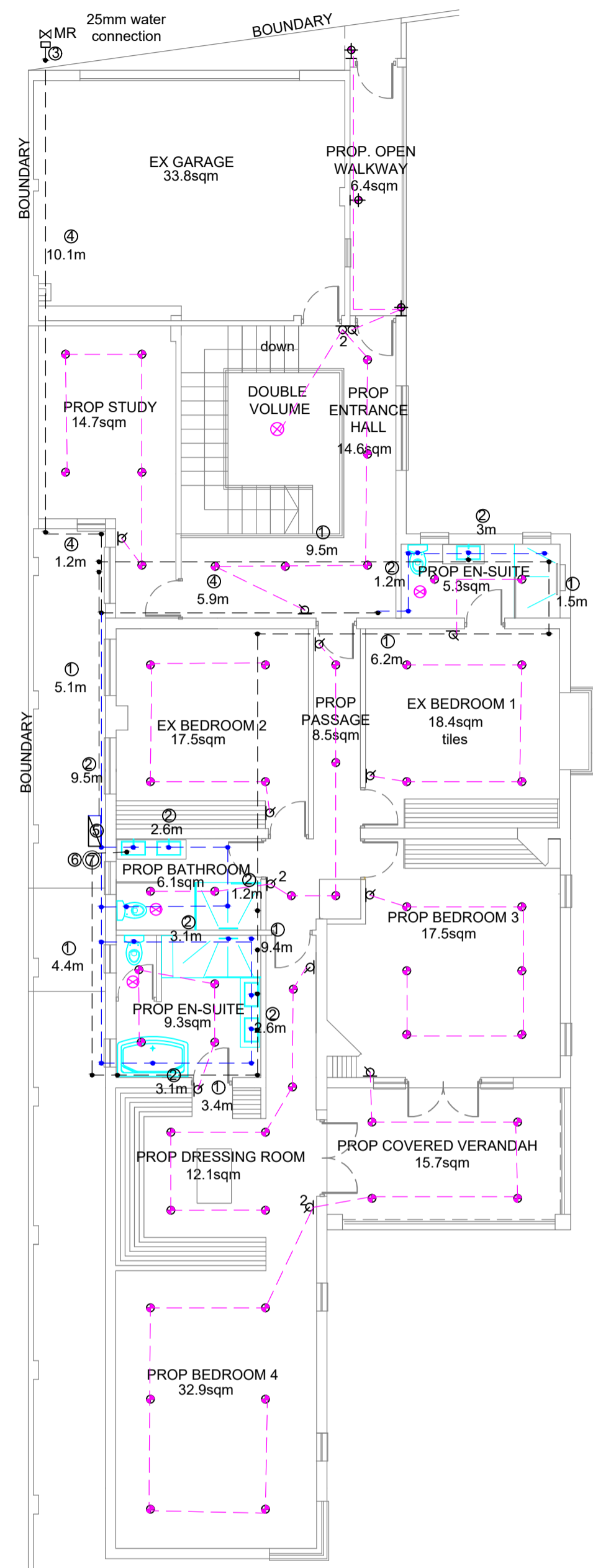
Architectural Aspirations
Budget Plans cc Trading as
Address : 27 Lady Bruce Place Morningside Durban 4001
Tel : 031 - 208 9382
Fax : 086 428 3415
email: marianblack1960@GMAIL.COM
www.architecturalaspirations.co.za

CHECKED : MARIAN BLACK Registration: SACAP 10076 KZNA 103 SAIBD 80404	Drawn: WESLEY R. LAVIS Registration: SACAP PAD 3383 5850 SAIBD L0519/2021/KZN
Date: 27 SEPTEMBER 2023	Paper Size: A1
Sheet: 3 of 4	Scale: as shown
Drawing Number: 3008/23W	Revision: C



**WATER AND ELECTRICAL LAYOUT
GROUND STOREY**
SCALE 1:100

LEGEND	
1	-15mm hot water pipe
2	-20mm cold water pipe
3	- ex isolating valve
4	-ex 20mm cold water pipe
5	-50KW heat pump
6	-50mm overflow pipe direct from drip tray to discharge externally
7	- 200L hp storage water heater



**WATER AND ELECTRICAL LAYOUT
FIRST STOREY**
SCALE 1:100

ELECTRICAL LEGEND	
16	⊗ LIGHT SWITCH SINGLE
9	⊗ DOUBLE SWITCH 2LEVER
91	⊗ DOWN LIGHTS 3w
3	⊗ CEILING LIGHTS 6w
9	⊗ WALL LIGHTS 6w
1	⊗ DECORATIVE SPOT LIGHT 6w
1	⊗ CHANDELIER 25w
2	⊗ DOUBLE FLORESCENT LIGHT 12w
5	⊗ 220MM DIA. MECHANICAL EXTRACTION @20L PER SECOND AIR EXCHANGE WITH SEPARATE POWER SOURCE

WALLS
SANS 10400-XA REQUIRED R-VALUE 0.35
SANS 204 REQUIRED CR-VALUE 60 HOURS
- 230MM BRICK WALLS WITH A 50MM AIR CAVITY
R-VALUE = 1.9 COMPLIES AS PER SANS 10400-XA
CR-VALUE = 60 COMPLIES AS PER SANS 204

WATER
DWELLING HOUSE : 80-115 L/CAPITA/DAY
ASSUMED HOT WATER CONSUMPTION : 30L P/P
NUMBER OF PERSONS : 8 PER DAY
ASSUMED DAILY HOT WATER CONSUMPTION : 240L
ASSUMED ANNUAL HOT WATER CONSUMPTION : 87.60Kl
50% OF ANNUAL HOT WATER CONSUMPTION : 43.80Kl
60L PER DAY PROVIDED BY PROVIDED BY 50KW INSTANT WATER HEATER.

>80MM DIAMETER HOT WATER PIPE WITH A MINIMUM R-VALUE OF 1.5 TO BE USED

ROOF (NOT VENTILATED)
R-Value required = 2.7
Material R-Value
Roof tile = 0.48
Ceiling [gypsum board] = 0.05
Insulation [100mm aerolite] = 2.17
insulation with 30cm overlaps
Total R-Value = 2.7 [complies]

- NOTES**
- VEHICULAR SCOOP ARE TO BE CONSTRUCTED WITH CONCRETE SURFACING THE SURFACING DETAIL WILL BE CONFIRMED BY THE ENGINEER ON SITE
 - ALL CAST IN SITU CONCRETE IS TO BE GRADE 20/30
 - CONCRETE SCOOP AREAS TO HAVE WOOD FLOAT FINISH
 - CAST IN-SITU CHANNEL/FILLET TO HAVE A STEEL TROWEL FINISH
 - EXPANSION JOINT TO BE PLACED THROUGH COMPLETE KERB AND CHANNEL CONSTRUCTION AS SPECIFIED.
 - CONTRACTION JOINTS TO BE PLACED THROUGH THE CHANNEL ON AT 2.0M C/C.
 - APPROVED WEED KILLER TO CONCRETE AREA TO BE SPRAYED ON COMPACTED SUB BASE.

ENERGY CONSUMPTION	
Total Energy Demand [F/A x S]	
TYPE FITTING :	
NETT. FLOOR AREA = 378.6m² x 5kWh = 1893kWh/Pa	
UNIT No:	no. of lights watts hrs
DOWN LIGHTS	91 3 8
CEILING LIGHTS	3 6 8
WALL LIGHTS	9 6 8
CHANDELIER	1 25 8
DECORATIVE PENDANT CLIGHTS	1 6 8
DOUBLE FLORESCENT	2 12 8
91 x 3 x 8 x 365 = 797.160 KWH/PA	
4 x 6 x 8 x 365 = 52.560 KWH/PA	
9 x 6 x 8 x 365 = 157.68 KWH/PA	
1 x 25 x 8 x 365 = 73.00 KWH/PA	
1 x 6 x 8 x 365 = 75.52 KWH/PA	
2 x 12 x 8 x 365 = 70.08 KWH/PA	
TOTAL 1226.00 KWH/PA = 1893.00 KWH/PA (COMPLIES)	

APPLICANT SIGNATURE:

OWNER SIGNATURE:

CLIENT:

ADDRESS:
702 STEPHEN DLAMINI ROAD
POR 9 OF ERF 768 DURBAN

PROJECT:
PROPOSAL ADDITIONS AND ALTERATIONS

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