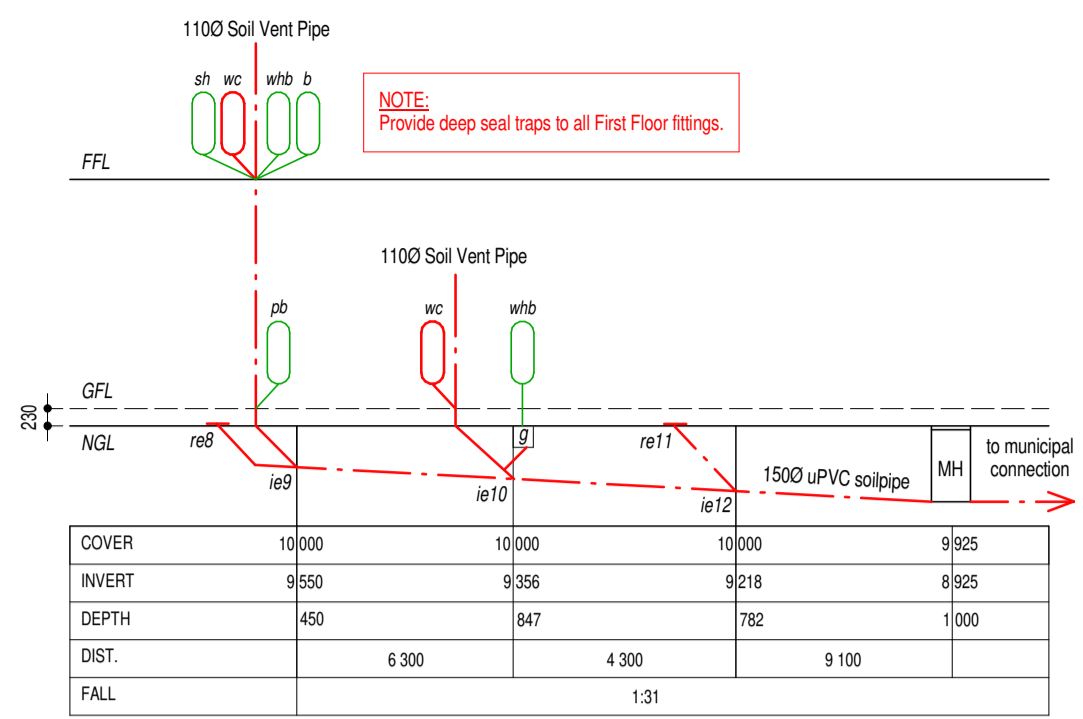


DRAINAGE SECTION ONE



DRAINAGE SECTION TWO

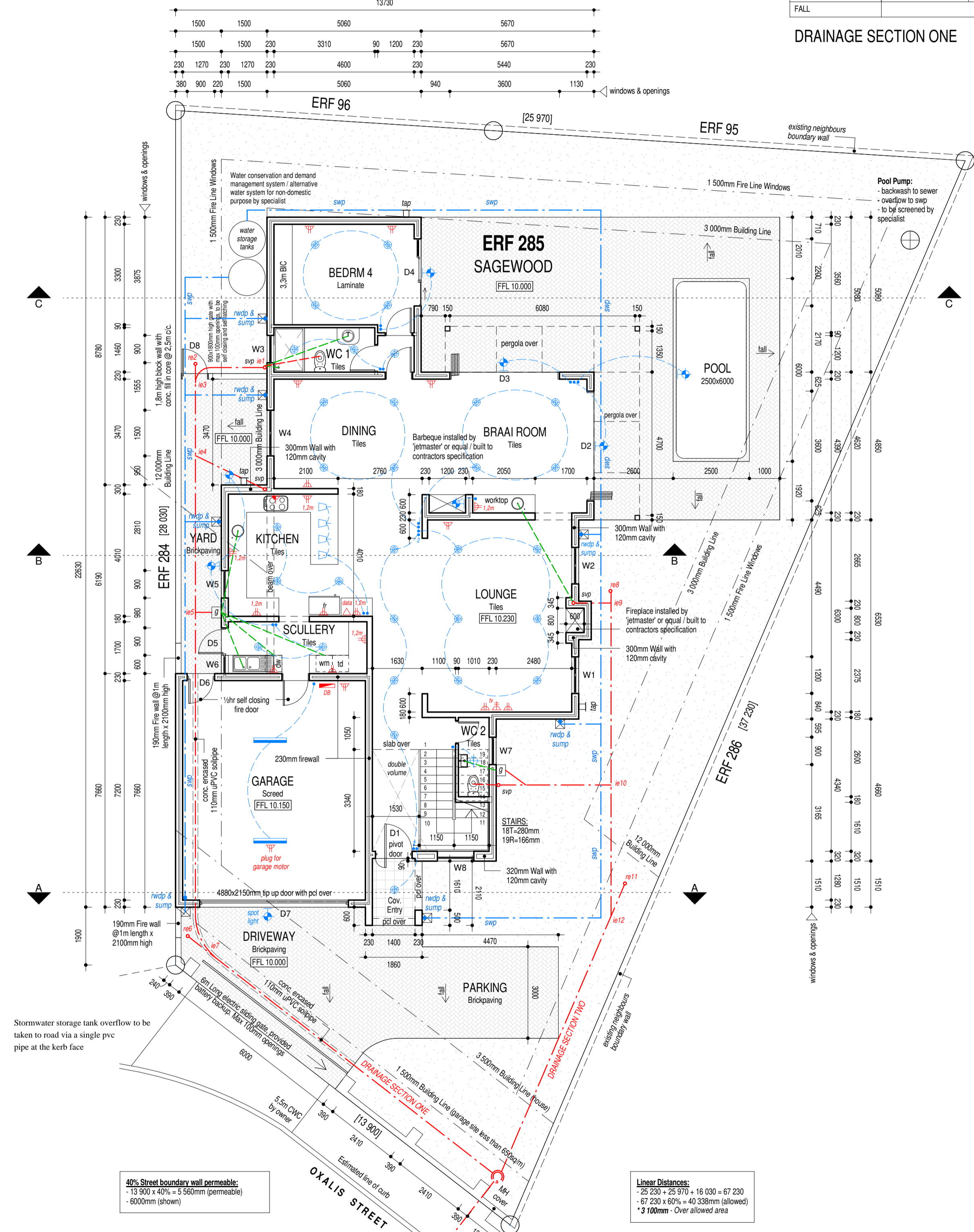
ELECTRICAL LEGEND

Light switch-two way	• 2
Light switch	•
Ceiling mounted light	⊕
Waterlight wall mounted light	⊕
Chandelier	⊕
Recessed downlighter	⊕
Flourescent light fitting	⊕
Pendant	⊕
Distribution board	⊕ DB
Single power point	⊕
1m (h) Double power point	⊕ 1.2m
Double power point	⊕
Double power point 12 voltage	⊕ 12v
Stove point	⊕
Solar Hot water cylinder	⊕ HWC
Solar Panel	⊕
TV point	⊕ tv
Data point	⊕ data
Heated Towel Rail	⊕ HTR

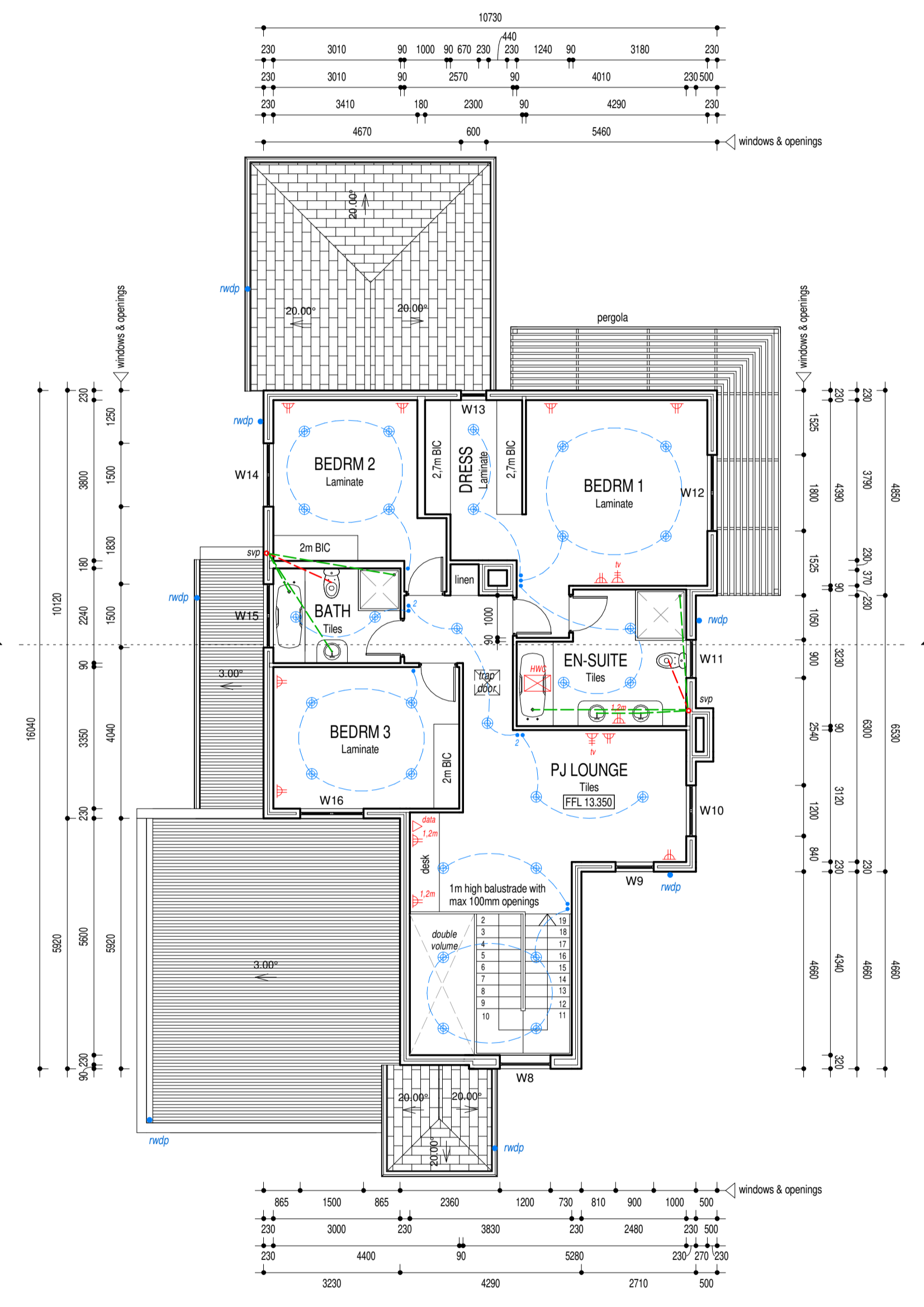
NOTE:
 - External garden lighting to be designed & fitted by specialist.
 - For kitchen cupboard layout, plug & light positions refer to specialist.

ALL STRUCTURAL SUPPORT SYSTEMS TO BE VERIFIED BY ENGINEER.

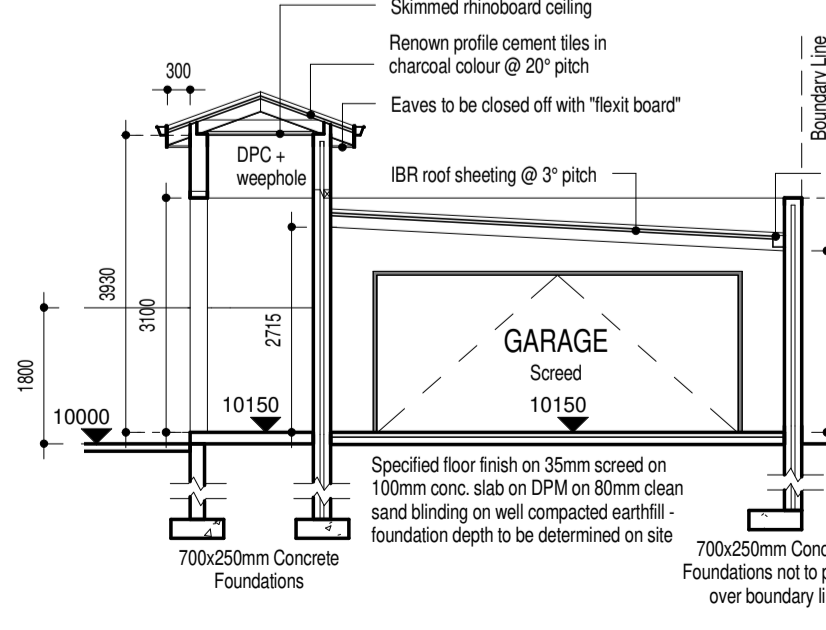
NOTE: NO LOW-E REQUIRED FOR GLAZING



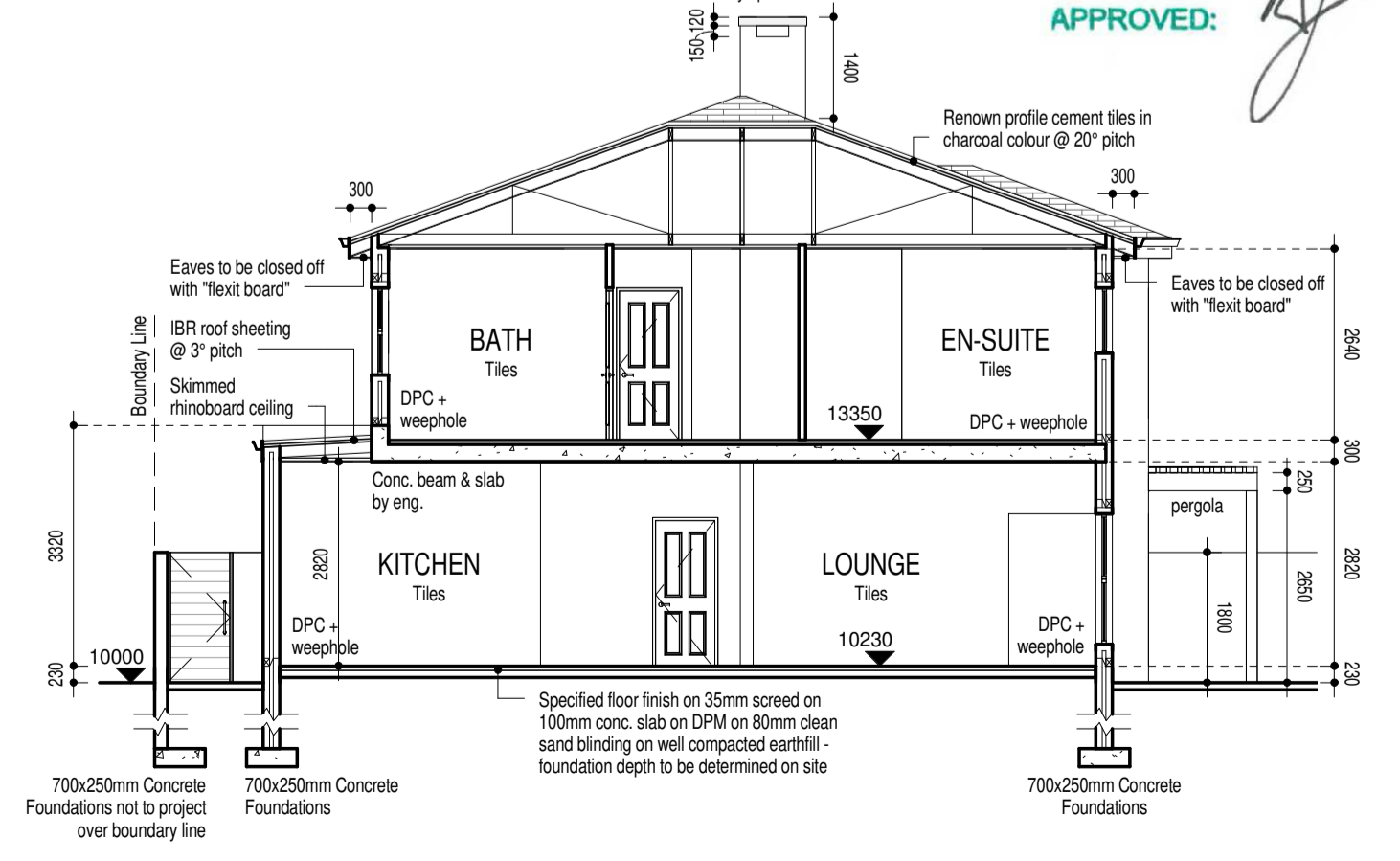
GROUND FLOOR PLAN 1:100



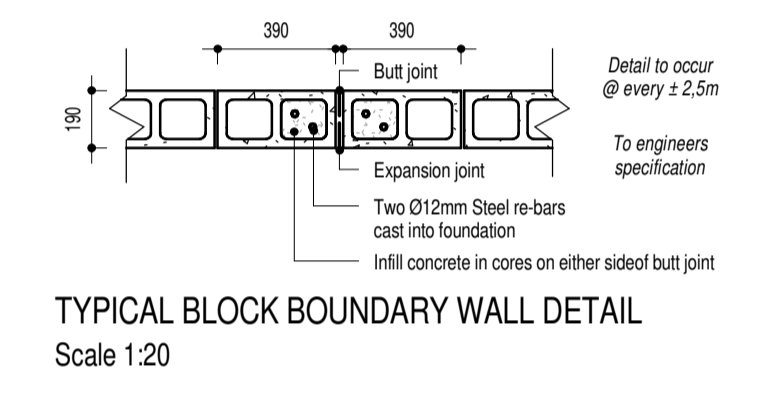
FIRST FLOOR PLAN 1:100



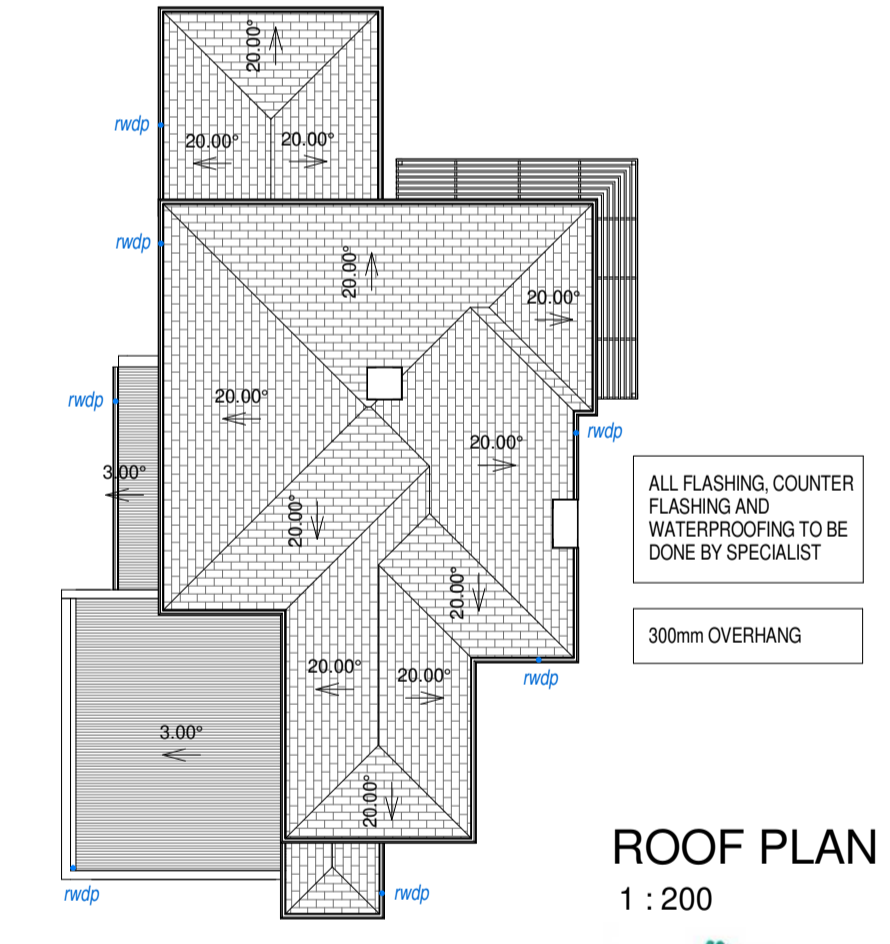
SECTION A 1:100



SECTION B 1:100



TYPICAL BLOCK BOUNDARY WALL DETAIL Scale 1:20



ROOF PLAN 1:200

SANDOWN
 25 OCT 2019
 DESIGN REVIEW COMMITTEE
 APPROVED: [Signature]

NOTES:
 All work to be carried out in strict accordance with local authority regulations and by-laws. Contractor must check all levels and dimensions on site before the commencement of any work. Any such oversight resulting in errors in levels or dimensions will be the responsibility of the contractor. Within dimensions should be used in preference to scaling the drawings. All work to be carried out in strict accordance with the drawings. Any discrepancies or omissions detected on the drawing should be reported to the Architect prior to construction. Should any portion of the drawing be unclear or contain insufficient information for construction it should be reported to the Architect immediately. Drainage connection points and levels to be verified by the plumbing contractor before commencement of any work.

Roof Construction (house):
 Remove profile cement tiles in charcoal colour @ 20° pitch, fixed to 38x38mm SA Pine treated Batens @ 340mm o/c with 76mm Clout Nails on SABS approved 405 Sialation lapped 200mm on 228x76mm SA Pine Timber Grade 6 Rafters @ 1020mm o/c. Rafters to be tied into brickwork with 32x6mm Galv. hoop iron built minimum 300mm into brickwork. Timber ends built into brickwork to be treated with Carbolinium and wrapped in DPC.

Roof construction (garage, kitchen & scullery):
 Galvanised Chromadek BR Roof Sheetting in grey colour @ 3° pitch fixed to 75x50mm SA Pine Purins @ 1000mm o/c with 76mm Clout Nails on SABS approved 405 Sialation lapped 200mm on 228x76mm SA Pine Timber Grade 6 Rafters @ 1020mm o/c. Rafters to be tied into brickwork with 32x6mm Galv. hoop iron built minimum 300mm into brickwork. Timber ends built into brickwork to be treated with Carbolinium and wrapped in DPC. All waterproofing to be managed by a specialist.

Walls:
 External walls max bricks: 230 cavity walls unless shown otherwise, internal walls - 90mm or 180mm solid walls. External cavity walls to have stepped DPC's at floor level and around all openings. Cavity walls to have 2.5 galvanneal wire ties per m². Cavities to be concrete filled the underside of stepped DPC at ground level. Weepholes @ 1150mm o/c to all stepped DPC's. Prestressed concrete lintels over all openings in brickwork where no RC beams are specified with minimum of 4 courses of brickwork over.

Floor Construction:
 SA Pine skirting on specified floor covering on 25mm screed on 100mm concrete slab on SABS approved 275 micron DPM on 50mm clean sand binding on well compacted earth fill.

Chimney:
 Chimneys to be min. 1000mm above roof pitch and flashed with acrylic flashing and counter flashing.

Ceilings:
 6.3mm Skimmed rhinoboard ceiling on 38x38mm brading at 450mm centers fixed to underside of rafters (to min. spec).

Cave Cavities:
 All cavities to be closed min. 3 courses below wall plates. Hoop-iron for fixing roof to go through closure and to locate 7 to 10 courses below wall plate level alternatively.

Windows and Doors:
 All standard windows and doors in aluminium ex. wispeco catalogue or equal. All standard internal doors in timber (to be patterned 40mm hollow core) lighting and ventilation to comply with local authority requirements. DPC to be wrapped around all window and door openings.

Precast Lintels:
 To be laid to manufacturer's specification to all openings >900mm. All openings >300mm to have min. 4 courses brickwork with brickdorse to each course.

Glazing:
 All glazing to comply with part n of SABS o400. All glazed areas exceeding 1m² or less than 500mm above FFL to be safety glazed.

Pergola:
 152x50mm Pergola timber frame supported on 120x120mm Timber post. Pergola frame to have 152x50mm timber rafters inset @ 1m o/c fixed to inside of frame with brackets. 75x50mm Purins fixed on top of rafters @ 1000mm o/c.

General Notes:
 1. Water meter and connection pipe to be min. 150mm i.d.
 2. All plumbing pipes to be concealed.
 3. External slopes max. rises 180mm, min. treads 250mm.
 4. Expansion joints to be provided to boundary walls at max. 5000mm centres.
 5. Light switches to be 1200mm above FFL unless otherwise shown.
 6. Wall sockets to be 400mm above FFL unless otherwise shown.
 7. WM and DW waste to be min. 600mm above FFL.
 8. Supply and waste to WM and DW to be in 90mm deep recess. Stoopok to be above counter.
 9. All structural work to be referred to engineer.
 10. All design work to be in accordance with 'developers' and homeowners association design guideline and approved colour chart.
 11. Weepholes to be min. 150mm above NGL.
 12. No foundation or any portion of the building to extend over the site boundary.
 13. All timber built into brickwork to be wrapped in DPC.
 14. Provide 1000mm high aluminium balustrades with max. 100mm openings to all balconies & staircases.
 15. 40mm 12 hr fire rated door to be provided between the garage and the dwelling.
 16. Doors & sidelights to be glazed with safety glazing.
 17. All flashing and waterproofing to be done by specialist.
 18. Plumber to provide min. class 1 copper water pipes to building.
 19. Rhinoboard ceilings fixed to 38x38mm brading to us of concrete slab to be provided to all ceilings.
 20. Pool lining to be waterproofed fibre lining in approved colour.
 21. All gates to pool area to be self closing and self latching.

PROCEDURES & VARIATIONS TO PLANS FOR CONSTRUCTION

REV.	DATE:	DETAILS:

AREAS:
 Ground Floor Plan - 168m²
 First Floor Plan - 134m²
 Garage - 49m²
 Covered Entry - 4m²

SITE AREA: - 618m²
COVERAGE: - 36%

SIGNATURE(S): [Signature]

TOTAL AREA - 355m²

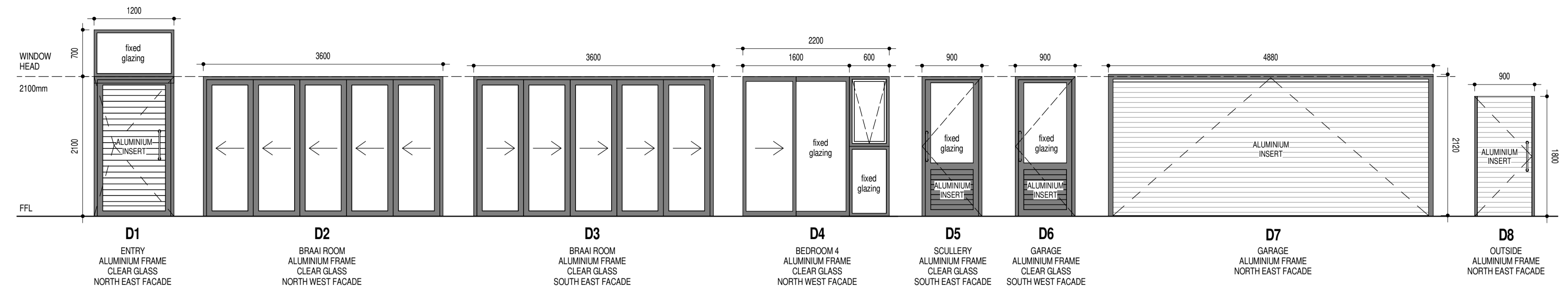
PROJECT
PROPOSED NEW HOUSE FOR FACTCON ON ERF 285 - SAGEWOOD

Graham Holland
 Architectural Design

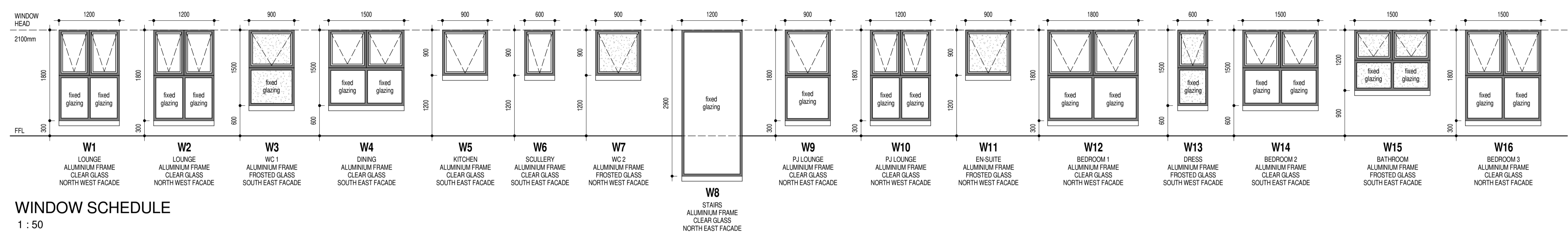
P.O. Box 20147 - Big Bay - 7448
 Tel: (021) 5542974 - Fax: (021) 5542978 - Cell: 082 4936754
 WEB: www.ghad.co.za - Email: graham@ghad.co.za

DRAWN: Tiaan Moggege	SCALE: As indicated	REVISION: 2.0
SHEET: 1 of 2	MODIFIED DATE: 22/10/2019	DRAWING No.: 19-49

City of Cape Town Stamp

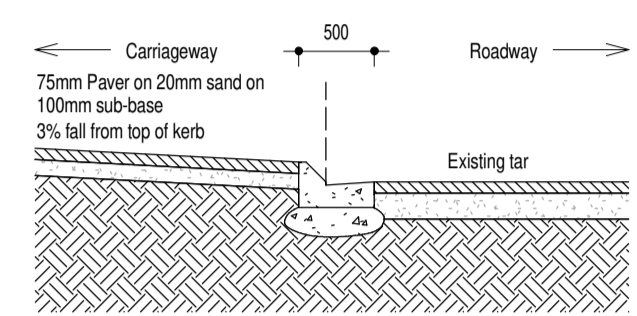


DOOR SCHEDULE 1 : 50

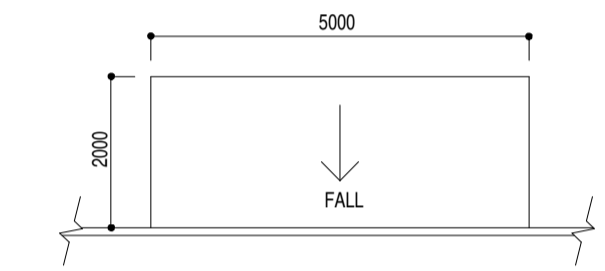


WINDOW SCHEDULE 1 : 50

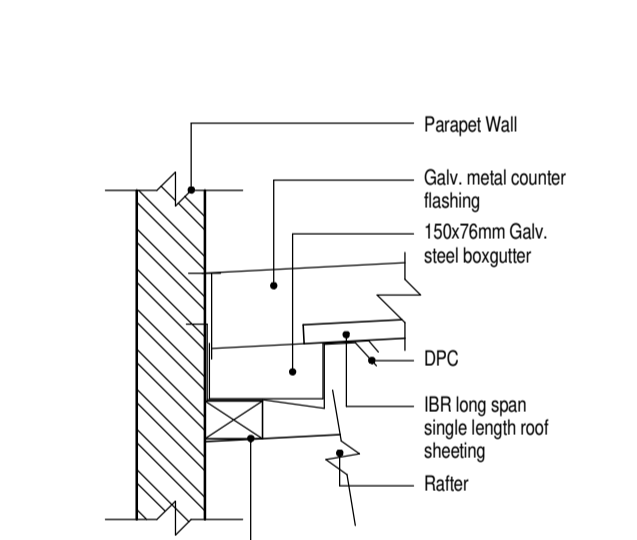
COUNCIL DETAILS



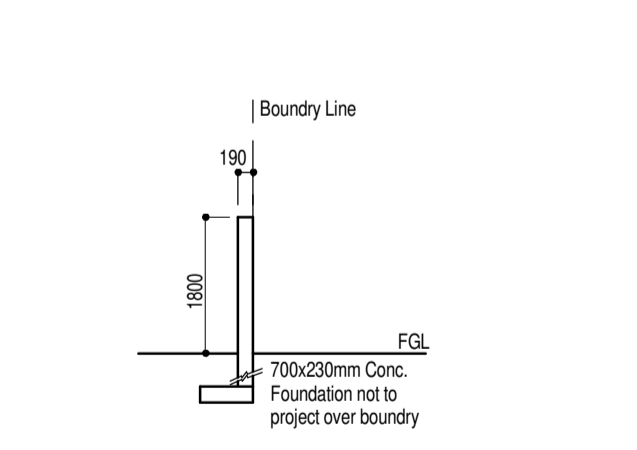
Plan of rolover kerb CWC - CK5 Scale 1:100



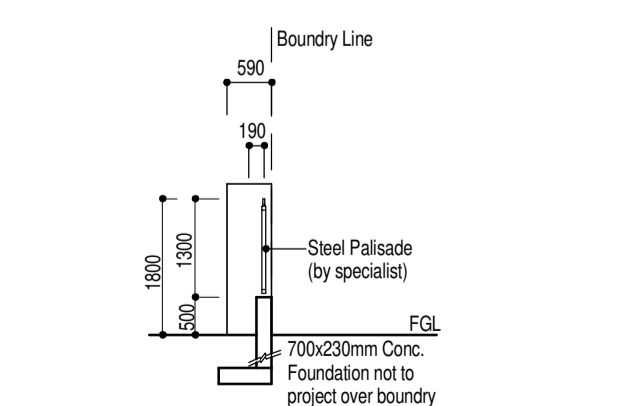
Elevation of rolover kerb CWC - CK5 Scale 1:100



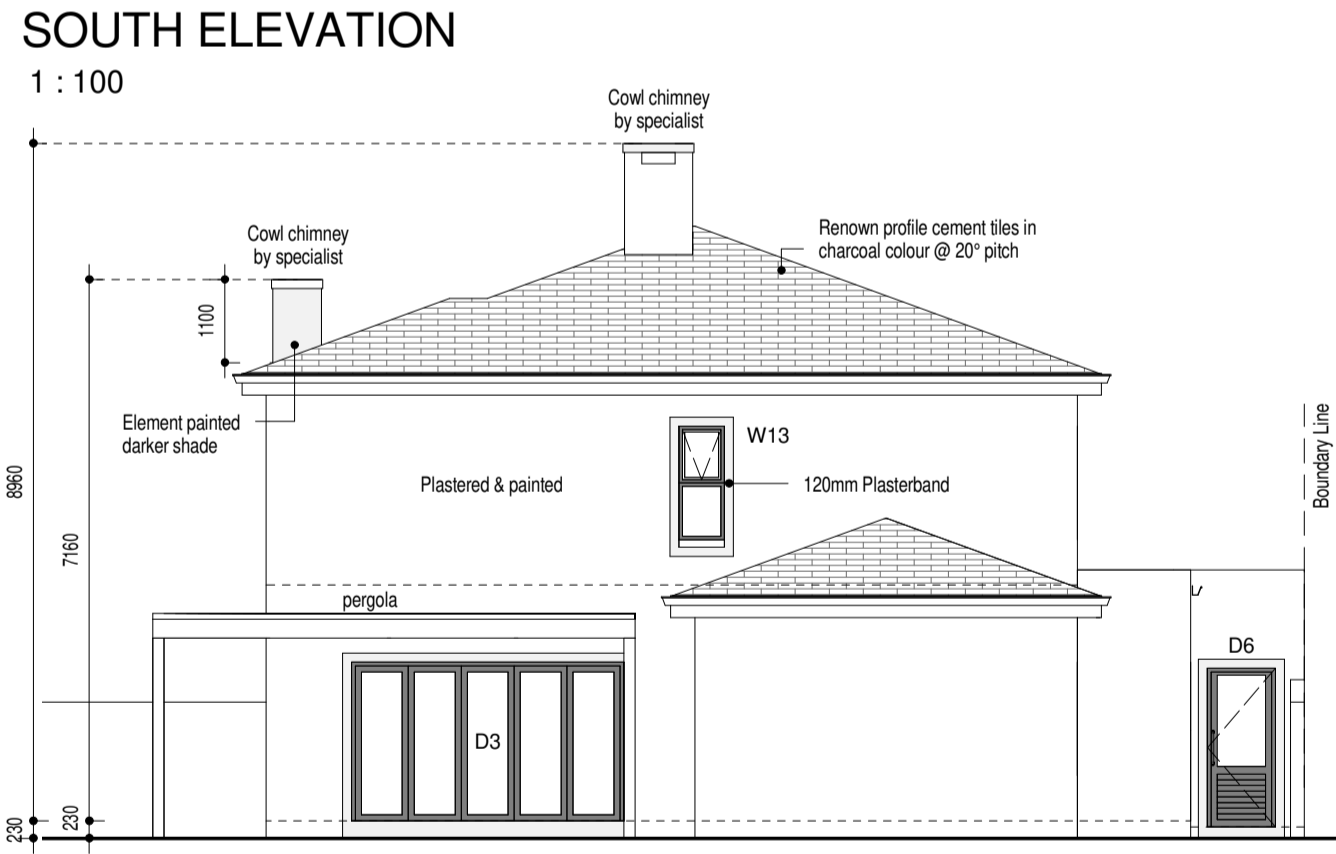
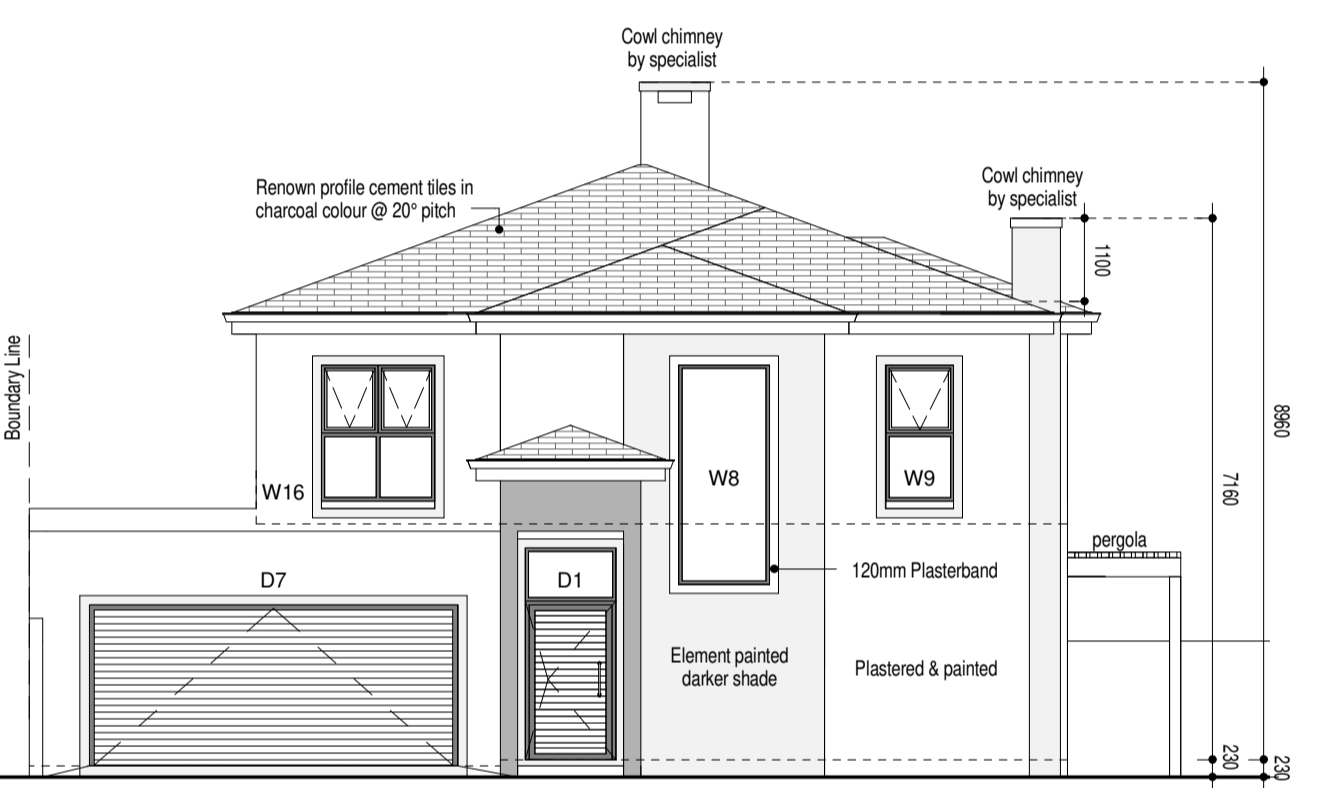
Boxgutter Detail Scale 1:10



Section Through Block Wall Scale 1:100

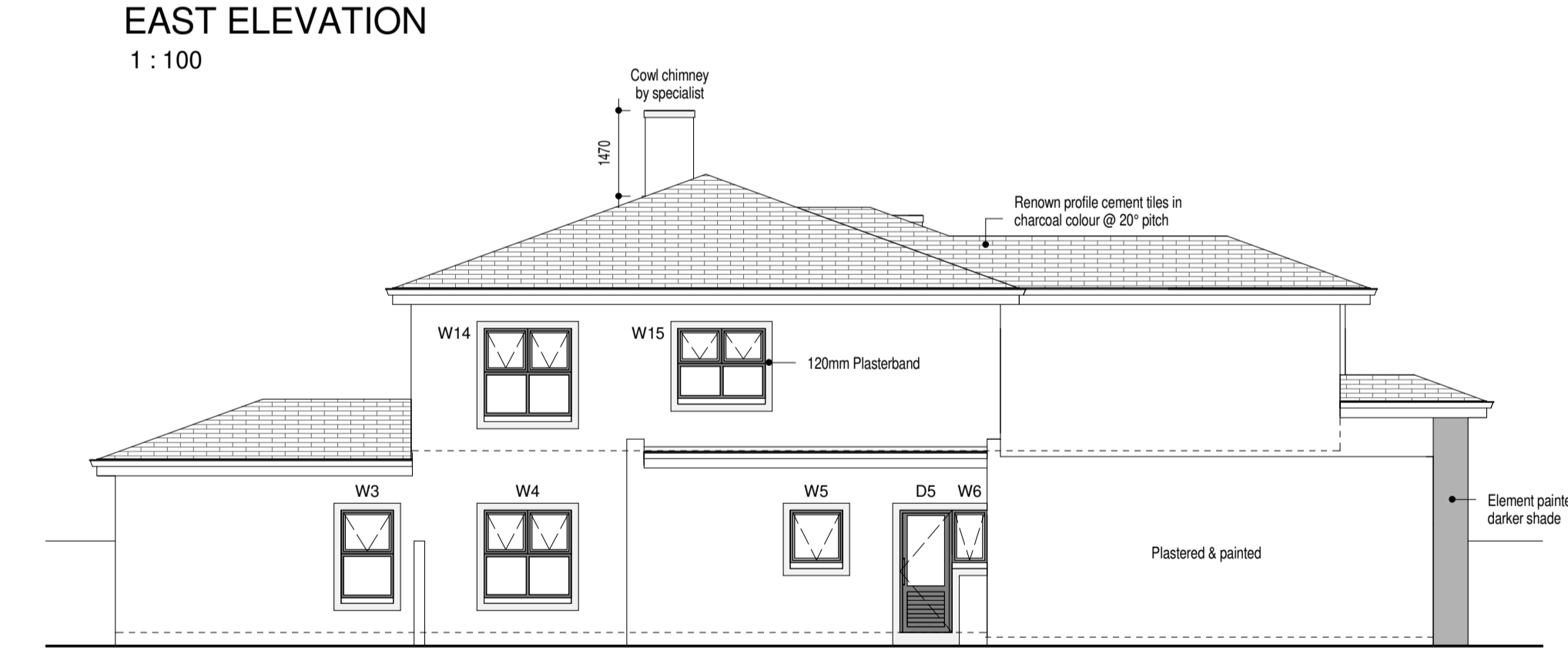
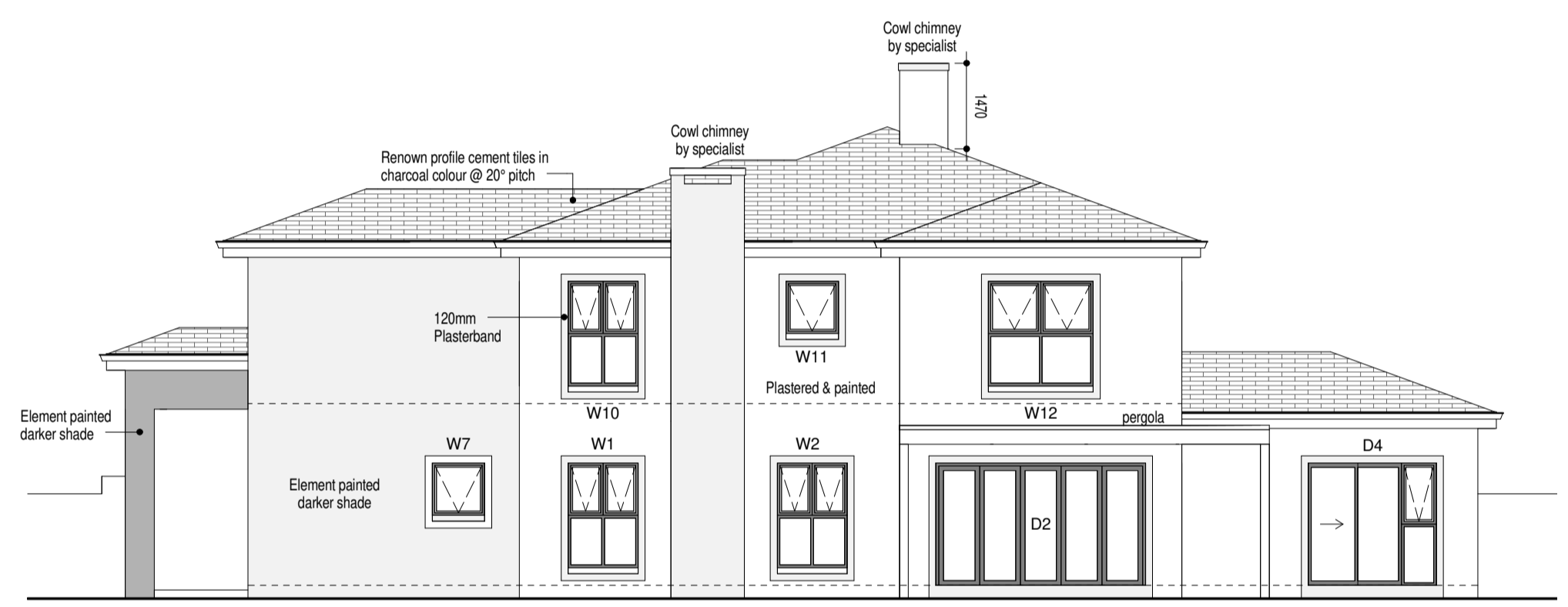


Section Through Palisade Block Wall Scale 1:100



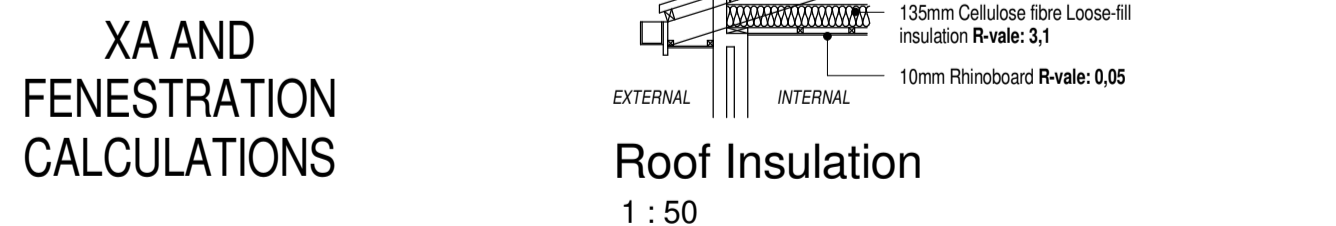
SOUTH ELEVATION 1 : 100

NORTH ELEVATION 1 : 100



EAST ELEVATION 1 : 100

WEST ELEVATION 1 : 100



XA AND FENESTRATION CALCULATIONS

SANS 10400/XA CALCULATIONS (ZONE4)	TARGET VALUE:	ACTUAL VALUE:	EXTRAS:
NETT FLOOR AREA (EXCL. STORE, GARAGES)		277m ² - New Building	
ROOF INSULATION	3.7	- Sisalation film R-value: 0.55 - 135mm Cellulose fibre Loose-fill insulation R-value: 3.1 - 10mm Rhinoboard R-value: 0.05 Total R factor = 3.7 (deemed to satisfy)	
HOT WATER AND PIPE INSULATION:		- Neoprene insulation to be used - 40 water saving nozzles to all showers - Insulated hot water piping to conform to SANS 204	
LIGHTING:		- LED Energy saving lights to be used	

FENESTRATION: (Solar heat gain / conductance) *GROUND FLOOR*

TARGET: (per floor)	FLOOR AREA	TOTAL OPENING VALUE (SQM)	CONDUCTANCE	SOLAR HEAT GAIN
			217	20.15
ACTUAL: (ground floor)				
	155m ²	21.4m ² (13.8%)	124.06	15.9

Resultant materials:
- Single Clear Glass (5.8W/m² and SHGC-0.8 as per "Glass Warehouse" specifications)

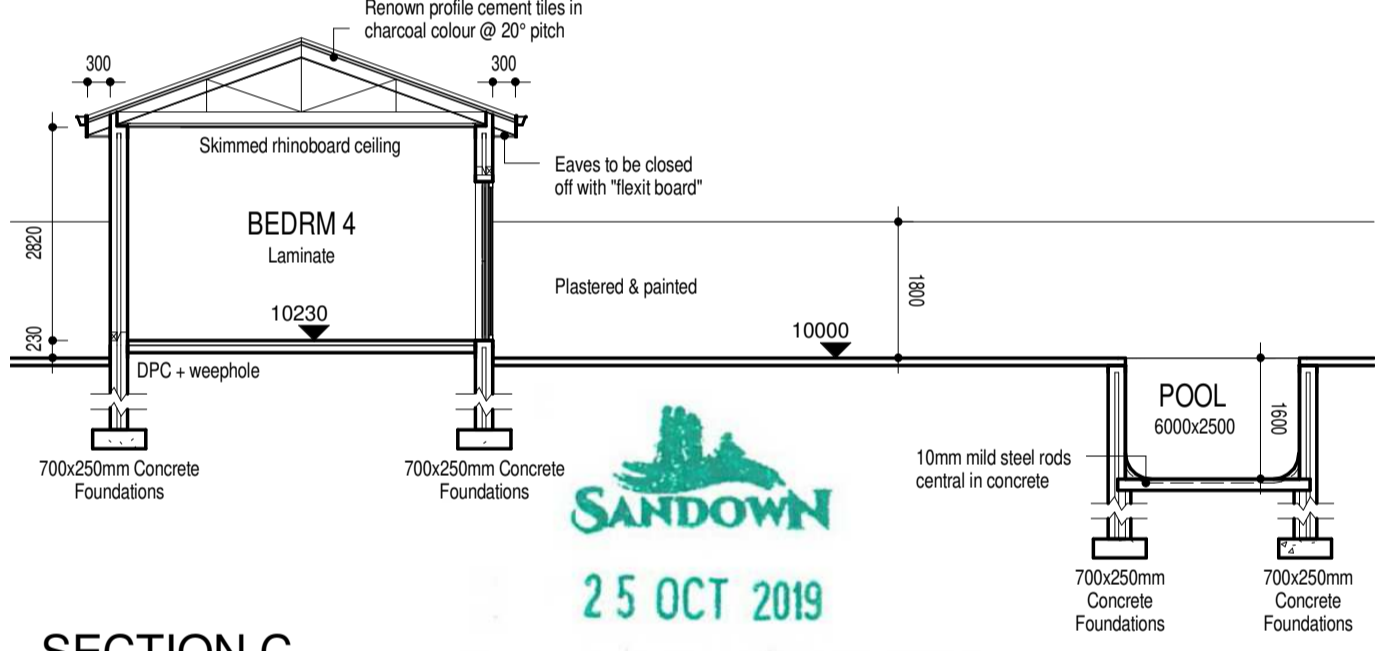
Total fenestration exceeds maximum deemed to satisfy value of 15% of net floor area, but remains within the SANS 10400 standard requirements for XA. Please note that the Actual values must be lower than the Target values.

FENESTRATION: (Solar heat gain / conductance) *FIRST FLOOR*

TARGET: (per floor)	FLOOR AREA	TOTAL OPENING VALUE (SQM)	CONDUCTANCE	SOLAR HEAT GAIN
			170.8	15.9
ACTUAL: (ground floor)				
	122m ²	13.05m ² (10.70%)	75.7	8.4

Resultant materials:
- Single Clear Glass (5.8W/m² and SHGC-0.8 as per "Glass Warehouse" specifications)

Total fenestration exceeds maximum deemed to satisfy value of 15% of net floor area, but remains within the SANS 10400 standard requirements for XA. Please note that the Actual values must be lower than the Target values.



SECTION C 1 : 100

INTERNAL DOOR NOTE:
All internal doors to be hollow core (patterned)

NOTE:
All bathroom windows to be frosted glass.

NOTE:
Safety glass in bathrooms to be fitted by specialist.

NOTE:
Brickwork openings sizes to be checked by window specialist before manufacturing special doors and windows.

NOTE:
NO LOW-E REQUIRED FOR GLAZING (SEE SCHEDULE)

SANDOWN
25 OCT 2019
DESIGN REVIEW COMMITTEE
APPROVED:

PROCEDURES & VARIATIONS TO PLANS FOR CONSTRUCTION

REV:	DATE:	DETAILS:

AREAS:

Ground Floor Plan - 168m ²	SITE AREA - 618m ²
First Floor Plan - 134m ²	COVERAGE - 36%
Garage - 48m ²	
Covered Entry - 4m ²	
TOTAL AREA - 355m²	

SIGNATURE(S):

PROJECT
PROPOSED NEW HOUSE FOR FACTCON ON ERF 285 - SAGEWOOD



P.O. Box 20147 - Big Bay - 7448
Tel: (021) 6544294 - Fax: (021) 6544298 - Cell: 082 4936754
WEB: www.ghad.co.za - Email: graham@ghad.co.za

DRAWN: Tiaan Moggee	SCALE: As indicated	REVISION: 2.0
SHEET: 2 of 2	MODIFIED DATE: 22/10/2019	DRAWING No.: 19-49

Hot Water Calculation:

- People - 4
- Usage per person (L) - 115L
- Daily Consumption (degC) - 460 degC
- Water Input Temperature (degC) - 20 degC
- Water Output Temperature (degC) - 55 degC
- Temperature Difference (degC) - 35 degC
- Specific Heat 1L Water (KJ/KG.K) - 4.182
- Daily Energy Usage (KJ) - 67 330.00 KJ
- kWh Per Day - 18.7 KWH
- Annual Usage (KWH) - 6826.53 KWH

[3 413 KWH (50%) - to be provided with solar/heat pump as per SANS XA201]

Proposed Installation:

- 200L Solar Geyser with 2kW Backup Electric element. Collector to be 2.5m²
- Solar useful energy rating (KWH/m²) per day = 4.19
- Annual solar energy available for a 2.5m² Solar collector (KWH) = 3823.375
- Solar Energy 3823 KWH - 3413 KWH (90% of required consumption)
- Outstanding energy to be provided by 2kW electric geyser

• Kwisiko solar panel efficiency = 4.19 KWH/M²
• Solar collector area = 2.5m²
• Water inlet temperature = 20degC
• Water storage temperature = 55degC