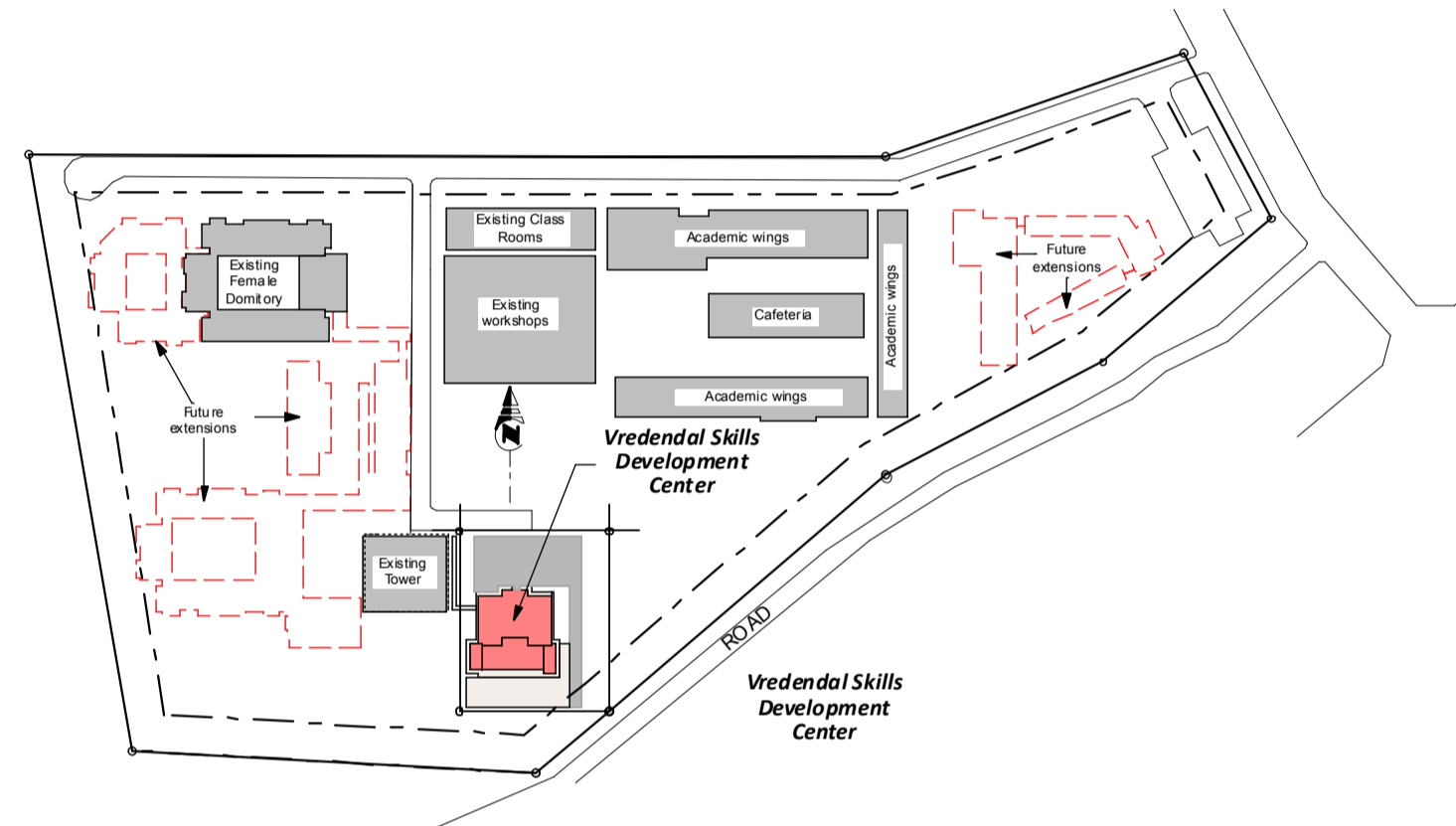
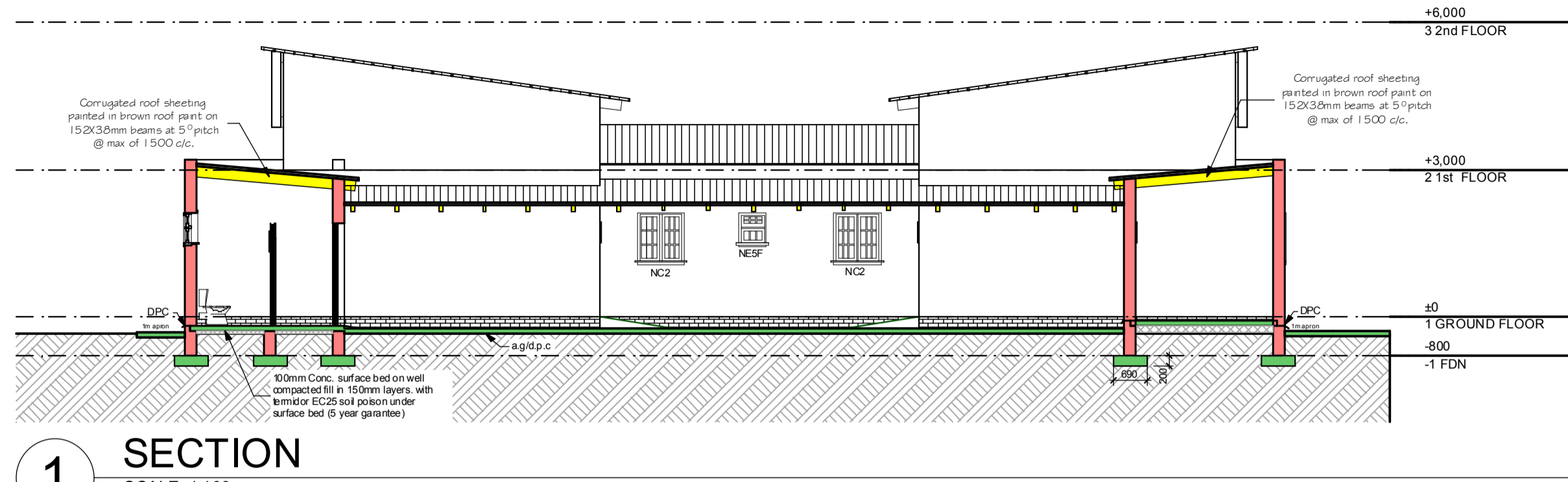


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2 Window Schedule
SCALE: 1:100

Window No.	WT	Window No.	WT	Window No.	WT	Window No.	WT	Window No.	WT
Code:	NES	Code:	NDS1F	Code:	NC2	Code:	TD5	Code:	NESF
Size:	1022 x 654	Size:	2000 x 1940	Size:	1022 x 949	Size:	833 x 1959	Size:	833 x 654
Material:	Aluminum	Material:	Aluminum	Material:	Aluminum	Material:	Aluminum	Material:	Aluminum
No. of:	3	No. of:	10	No. of:	3	No. of:	4	No. of:	3

HOT AND COLD WATER INSULATION NOTES

4.5.2.6 Hot water vessels and tanks shall be insulated with a material achieving a minimum R-value of 2.0.
NOTE To achieve this value, insulation in addition to the manufacturers' installed insulation may be required.

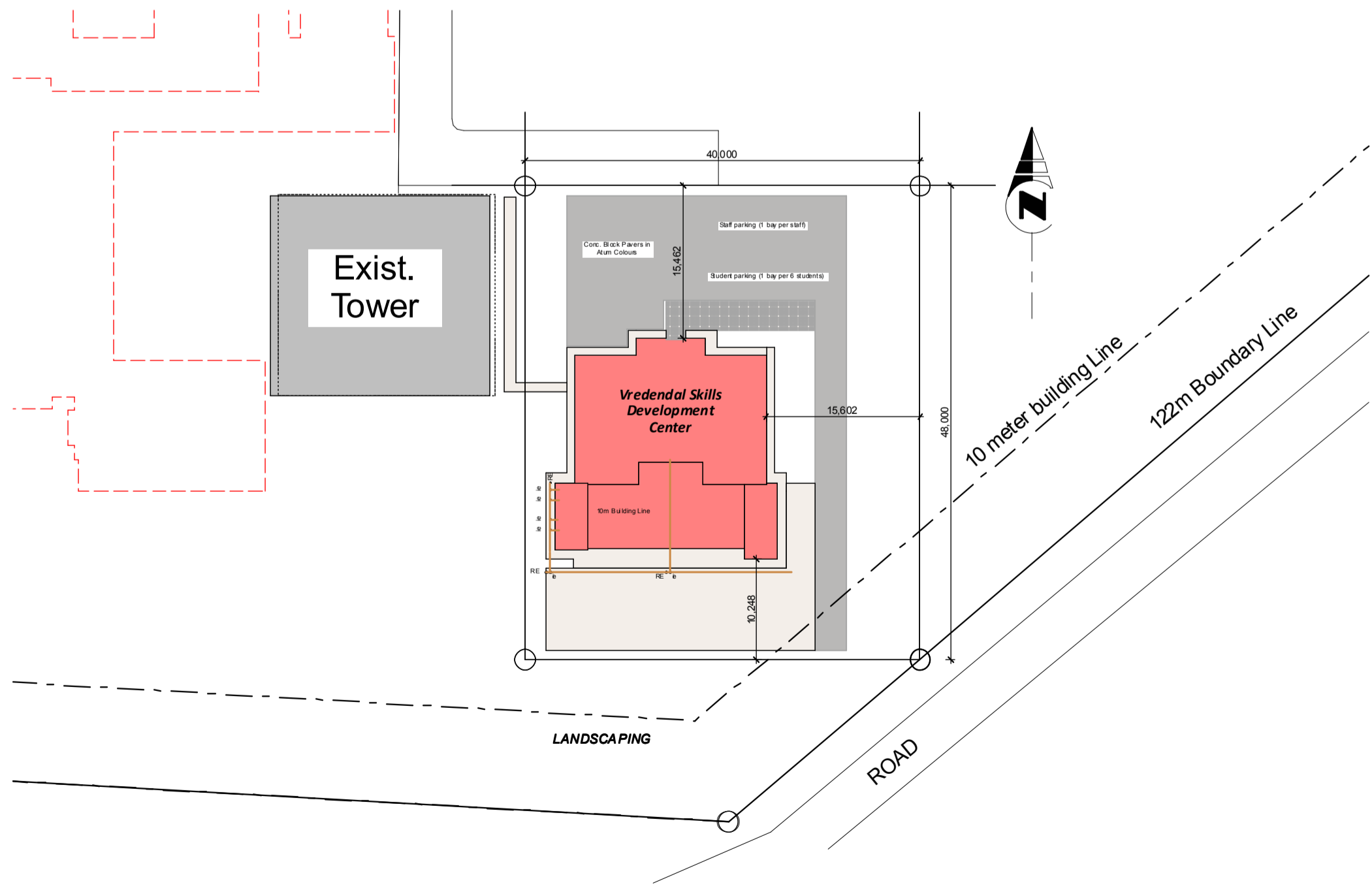
4.5.2.7 Insulation on vessels, tanks and piping containing cooling water shall be protected by a vapour barrier on the outside of the insulation.

4.5.2.8 The piping insulation requirements do not apply to space heating water piping all located within the space being heated where the piping is to provide the heating to that space, or is enclosed within a concrete floor slab or in masonry.
These pipes shall comply with SANS 10252-2.

4.5.2.9 Piping to be insulated includes all flow and return piping, cold water supply piping within 1m of the connection to the heating or cooling system and pressure relief piping within 1m of the connection to the heating or cooling system. Where possible, lengths of pipe runs should be minimized.

Fenestration Calculations

Net floor area	215.82m ²
Allowed 15% of Net floor area	32.37m ²
Total area of the glazing elements on floor	37.38m ²
10 X NDS1F(2.000m X 1.540m) =	30.80m ²
3 X NC2(1.022m X 0.949m) =	2.91m ²
4 X TD51S(0.533m X 1.559m) =	3.32m ²
1 X NESF(0.533m X 0.654m) =	0.35m ²
30.80m ² + 2.91m ² + 3.32m ² + 0.35 =	37.38m ²
PERCENTAGE OF GLEAZING ON AFFECTED FLOOR (37.38m ² / 215.82) x 100 =	17.32%
Comply to minimum energy performance requirements	No
CONCLUSION: See attached report	Max. Conductance permitted = 302.15 Max. Solar heat gain permitted = 28.10 Achieved conductance = 295.31 Achieved SHGC = 24.70



Lighting Calculations

Allowed Gross floor area = 362m ²	10W/m ²
Total Allowed 10W/m ² x Gross floor area = 10W/m ² x 362m ² =	3620W
Total Lamps (W) 18 X 2(32W) lamps = 1152W 6 X 13W lamps = 78W 10 X 13W lamps = 130W TOTAL 1360W OR 1360W / 362m ² =	3.76W/m ²
Total Lamps (W) per m ²	3.76W/m ²
Energy Consumption per year with lights on 8 hours per day (8am - 02pm 5 days per week) for 1 year. Allowed = 25kWh/m ² per year 25kWh/m ² X 1 year X Net floor area (362m ²) =	9050kWh/year
52 weeks X 5 days X 8 hours = 2080hours/year Total Lamps 1360W = 1.360KW Then 1.360KW X 2080hours / year =	2829kWh/yr
Comply to minimum electricity consumption per year.	YES

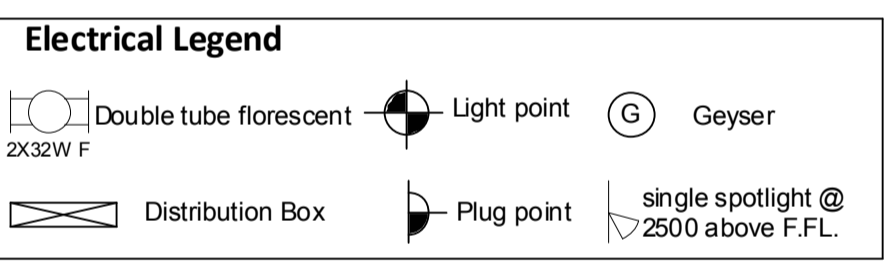
GENERAL NOTES
ALL SPECIFICATIONS TO COMPLY WITH NATIONAL BUILDING REGULATIONS S.A.B.S 0400:1990 AND ALL RELEVANT LOCAL AUTHORITY BY-LAWS AND APPROVED DRAWINGS.
-All dimensions and levels to be verified on site before any work commences
-Read figured dimensions in preference to those scaled. Any discrepancies to be reported immediately.
-No responsibility is held for any error whatsoever arising during or after construction
-Concrete mix for foundation and to be min 15mpa.
-Drainage not to encroach servitude
-All landscaping to maintain natural slope of land. Use of indigenous trees & plants are encouraged.
-Final colour to be approved by Client.
-External lighting wall mounted max height = 1m from NGL.
-All window frames and doors to be epoxy coated aluminum in bronze colour / approved colour as per Client.
-No external bugler bars only rectangular forms.
-Center to be fitted with metered electricity.
-No skylights / vents/sooler panels visible from street.
-Drywalls to comply with SANS062/wood SANS 0163
-Glazing as per NRB part 'N'.
-Positioning of TV antenna and satellite dishes not to be visible from street.

FOUNDATIONS NOTES
-DPC 220mm above natural ground level(NGL) min.150mm.
-Hardcore filling in 150mm layers
-100mm concrete floor slab on sand binding layer.
-230mm thick brick wall with brick face every course up to the underside of the DPC.
-Covered patio to be 100mm below other rooms.
-Rough FDN to engineering Details, drawings & notes

ROOF NOTES
-Corrugated metal roof sheeting on entire structure on 38x38mm SA pine (V4) battens spaced to manufacturers specification on 152x50 SA pine roof beams 1000mm max. spacing on 114x38mm Wallplate tied down with GALV. hoop irons built into brickwork.
-Carbolium treated wall plate 114x38mm bedded and tied down with galvanised 32x4mm thick hoop bands built into walls 6 couces down in position of trusses. Hoop bands wrapped around and nailed 4 times on both side of truss.
-All timber to be SA pine grade 6

DRAINAGE NOTES
ALL SPECIFICATIONS TO COMPLY WITH NATIONAL BUILDING REGULATIONS S.A.B.S 0400:1990 AND ALL RELEVANT LOCAL AUTHORITY BY-LAWS AND APPROVED DRAWINGS.
-Drainage not to encroach servitude.
-Rain water to be directed via gully to Estate's storm water drains @ lowest point.
-IES to all bends & junctions in drain with marked covers at GR level
-Reseal traps to all waste fittings, 110 PVC & 50 PVC pipes.
-WP'S to be fully accessible along entire length where WP'S pass in or below floor slab they are to be sleeved with C.E.'S at both ends.
-C.E.'S to head of drain and every change of direction, and encased in concrete.
-Drain pipes passing under building must be protected against the load by concrete casing.
-Drainage design in accordance with NBR. All plumbing is to be placed in ducts.
-Waterproofing in accordance with building regulations and done by experts.
-Drainage within 900mm from building shall be protected.
-Drainage pipes shall be concealed from View.
-Gradients of drains to be 1:60 max / 1:40 min. Soil pipe size to be 110mm dia. waste pipe to be 50mm dia.

FLOORS
-25mm motor finish on concrete floor slab.
-Non skid tiles to Toilet, Sick bay & Lobby area.
-ordinary floor tiles to remaining floor area except the display area.



AREAS

SITE = 1920m ²	
GROUND FLOOR OF CENTRE =	238m ²
WORK SHED / TRAINING SHED =	82m ²
TOILETS =	28m ²
STORE ROOM =	14m ²
Total new floor area =	362m ²
COVERAGE = %	F.A.R =

ENGINEERING NOTES
-Structural design and foundation should be according to Engineers designs and specifications.
- strength & stability of walls to Engineers design.
signature:.....
Date:.....

PROJECT TITLE
West Coast FET College Skills Development Centre,Vredendal Campus
Western Cape Province.

DRAWN & DESIGNED BY : K. Ramashia / T.W Prospero
Signature:.....
SACAP Reg. #: D3521 Date:.....
Sketch