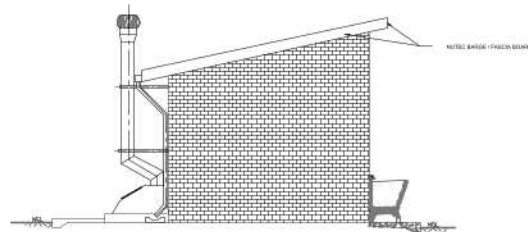


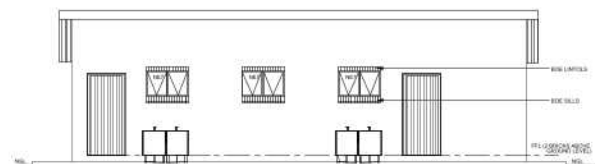
SECTION A-A

Technical drawing of a brick wall cross-section. The wall is constructed of bricks. To the right, a chimney structure is shown, including a vertical flue and a roof cap. A label 'CHIMINIA (FASCIOLA BENTON)' points to the roof structure above the chimney. The drawing illustrates the integration of the chimney with the masonry wall and the roof assembly.

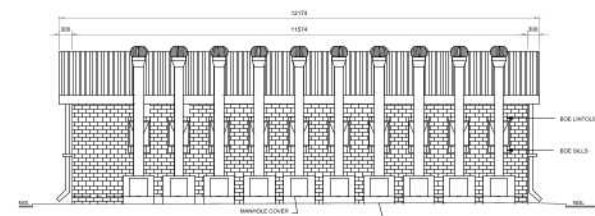
**SIDE**



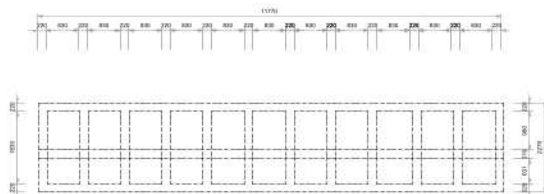
**SIDE**



**FRONT**



**BACK**



### TANK PLAN

1. All paintwork to comply with SABS and PW371 specification.
2. All steel window and door frames including doors and fascia / barge boards to be discharge points.

EMS NUMBER	DISCIPLINE	DRAWING No.	STATUS	REVISION
	<b>ARCHITECTURE</b>	<b>TMT- MC- FD9</b>	<b>C</b>	<b>0</b>

FD9





1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATION AND SABS 0430 OF 1995
2. CONTRACTOR TO READ ONLY FIGURED DIMENSION
3. CONTRACTOR TO VERIFY ALL DIMENSION ON SITE BEFORE COMMENCING WITH ANY WORK.

[illegible]

**LPDE 2019 / 20 SCHOOLS WATER AND  
SANITATION PROGRAMME.**

**PROVINCE: LIMPOPO**

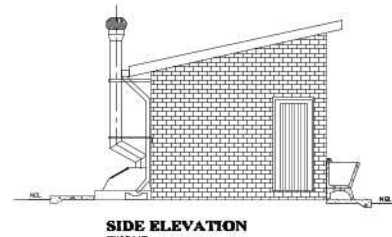
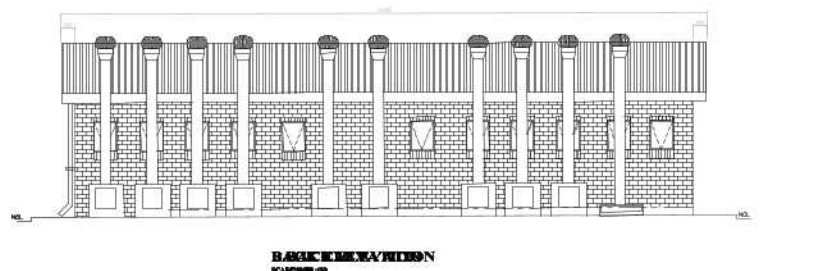
**DRAWING TITLE**

**MALE 5 SEAT - 11 URINALS - 1 Disabled ENVIROLOO  
PUBLIC WORKS PROTOTYPE  
SHAVHANI PRIMARY SCHOOL**

EMIS NUMBER	DISCIPLINE	DRAWING No.	STATUS	REVISION
	ARCHITECTURE	TMT- MC - M05	C	D

# MD5

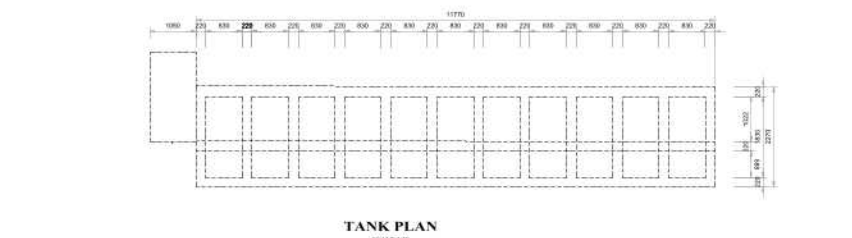
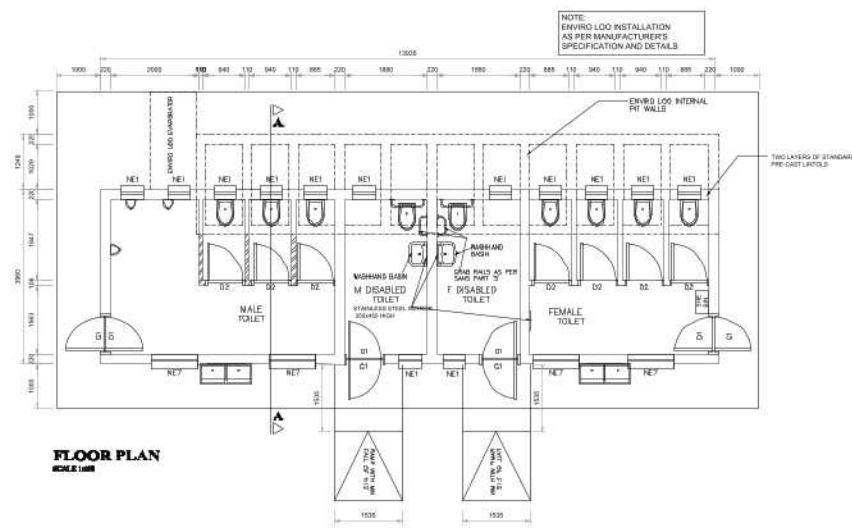
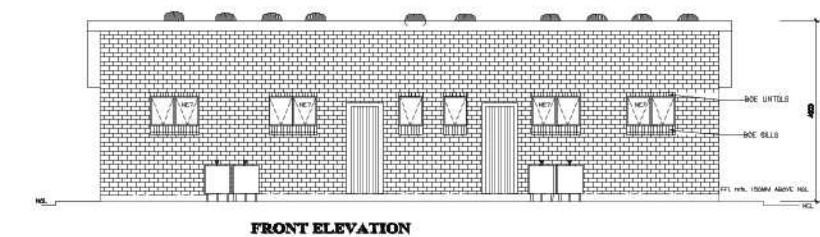




WINDOW SCHEDULE		WINDOW SCHEDULE	
WINDOW NO.	W1	WINDOW NO.	W2
DATE/COLOUR	NET	DATE/COLOUR	NET
FRAME	600 x 900mm (1500mm) STEEL WINDOW FRAME	FRAME	600 x 900mm (1500mm) STEEL WINDOW FRAME
FRAME FINISH	600 x 900mm (1500mm) STEEL WINDOW FRAME	FRAME FINISH	600 x 900mm (1500mm) STEEL WINDOW FRAME
GLAZING	6.28mm obscure safety glass	GLAZING	6.28mm obscure safety glass
NO. REQUIRED	2	NO. REQUIRED	1

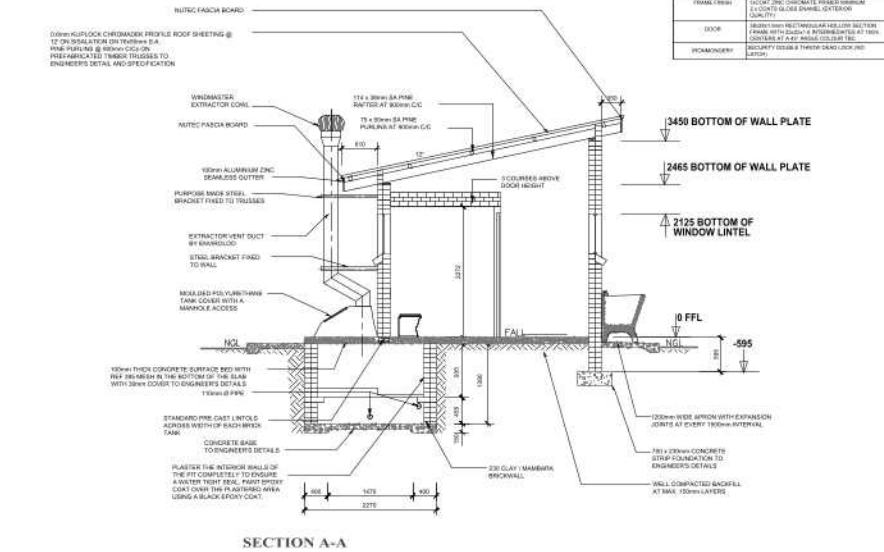


ENTRANCE DOOR		CUBICLE DOOR	
FRAME TYPE	600 x 900mm (1500mm) STEEL FRAME	FRAME TYPE	600 x 900mm (1500mm) STEEL FRAME
FRAME FINISH	600 x 900mm (1500mm) STEEL FRAME	FRAME FINISH	600 x 900mm (1500mm) STEEL FRAME
DOOR LEAF	600 x 900mm (1500mm) STEEL DOOR LEAF	DOOR LEAF	600 x 900mm (1500mm) STEEL DOOR LEAF
GLAZING	6.28mm obscure safety glass	GLAZING	6.28mm obscure safety glass
NO. REQUIRED	2	NO. REQUIRED	1



**GENERAL NOTES:**

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATION AND SABS (BAA) OF 1990
- CONTRACTOR TO READ ONLY FIGURED DIMENSION
- CONTRACTOR TO VERIFY ALL DIMENSION ON SITE BEFORE COMMENCING WITH ANY WORK.



**NOTES AND SPECIFICATIONS:**

**GENERAL:**

- Use dimensions provided and do not scale drawing
- All work to comply with SANS, PW371 and SABS.
- All dimensions, levels and positions to be verified on site prior to construction.
- All concrete work to be as per Engineer's details and specifications.
- All pits to face North.
- All brickwork have brickforce at every 2nd course in pit lining and 3rd course in superstructure.

**PIT EXCAVATION**

- All stages of pit excavation to be inspected and approved by Engineer and signed off
- All pit lining to be inspected by EnviroLoo Services before slab casting.

**COMPACTION OF SURFACES**

All ground surfaces receiving concrete floors / slab should be compacted to 150mm layers 93% ModAASHTO density before casting concrete.

**CONCRETE WORKS**

- All concrete to be as per Engineer's details and specifications.
- 25 MPa strength concrete to be used throughout construction.

**Concrete Mixes: Proportions**

Concrete Strength at 28 Days 25Mpa:

1 : 2 : 2 (mix proportion by volume)

1 bag cement : 0.08m<sup>3</sup> Sand : 0.09m<sup>3</sup> Stone (Volume/Bag)

385 kg cement : 820 kg sand : 960 kg stone (Mass/m<sup>3</sup>)

- Pre-cast concrete lintols to be used as support under top slab of pit.
- All concrete aprons to be 1000mm wide.

**MORTAR**

Mixed proportions to be:

1 cement : 3 sand

(i.e.1 bag cement : 3 wheelbarrows (37 litres) sand)

**BRICKWORK**

Sub-structure

- All pit lining / foundation brickwork to be solid NFP clay brick.
- All internal surface of pit lining to be painted with two coats black epoxy paint installing Enviro-Loo units.

**Super-structure**

- All external walls / partitions to be of clay face brick to SABS quality.
- All cubicle partition walls to be 3 courses above door height.
- All brickwork above door openings should have brickforce on every course at least 3 courses.
- Air bricks. Standard 230X152mm terra-cotta vermin proofed louvered air grating to be used above all window openings.

**ROOF SHEETING**

- 0.6mm klaplock chromadek roof sheeting.

**ROOF TIMBER / CEILING**

- All roof timbers to be machined SABS treated wood with three coats of approved wood preservative.
- Timber connections (Hurricane Clips) are required all interconnections between timber rafters and purlins.
- Sisalation is to be applied interval under all roof surfaces.

**METALWORK**

- All metalwork should be primed before installation.
- All steel window should have 6x20mm flat bar burglar proofing.

**PLUMBING**

- Double concrete wash trough to be used.
- All wash troughs should be connected to the school's water supply system and the waste water should be piped to a soakaway.
- The soakaway should be as per Engineer's detail and position to be determined on site.
- Only 20mm and galvanised pipework should be used as connection from wall to the discharge points.

**GLAZING**

- 6.28mm obscure safety glass.

**PAINTING**

- All paintwork to comply with SABS and PW371 specification.
- All steel window and door frames including doors and fascia / barge boards to be discharge points.

NO.	DATE	REVISION	DRAWN

**CONSULTANTS**

**MGIBA consulting**

MGIBA CONSULTING  
SUITE 5, 15 ISHANI STREET  
ISHANI OFFICE PARK  
BENDOR POLOKWANE, 0899  
Tel: 015 955 0838  
Email: info@mgibaconsulting.co.za

**ARCHITECT**

**THE MVULA TRUST**  
A leading developmental NGO

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25 RHODESDRIFT STREET  
RHODESDRIFT OFFICE PARK  
BENDOR EXTENSION 30  
0899  
TEL: 015 291 2405 FAX: 015 291 1270

**IMPLEMENTED BY**

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**EDUCATION**

**PROJECT**

LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

**PROVINCE: LIMPOPO**

**DRAWING TITLE**

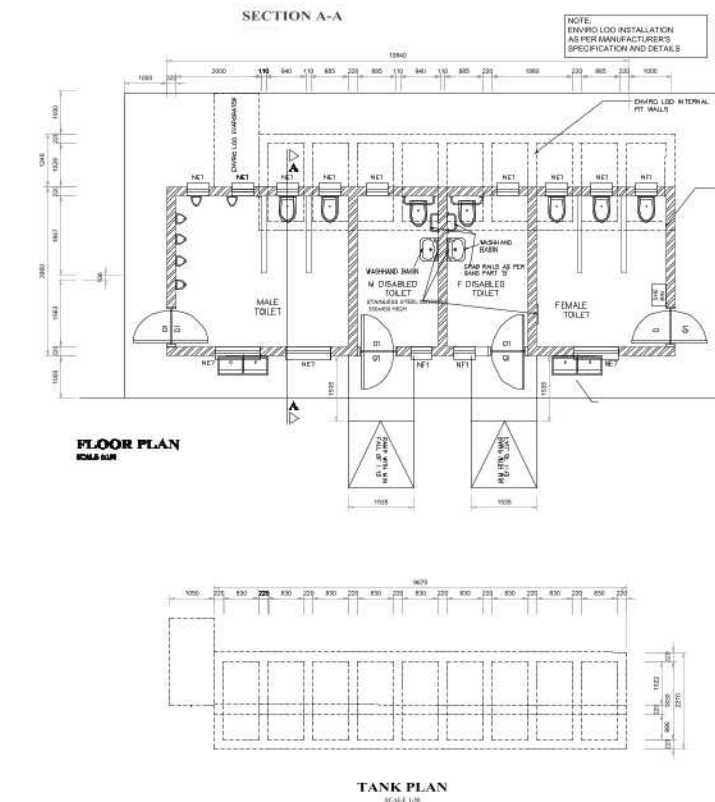
**FEMALE 4 SEAT- 1 Disabled, MALE 3 SEAT 3 URINALS - 1 Disabled ENVIROLOO PUBLIC WORKS PROTOTYPE.**

**SHAVHANI PRIMARY SCHOOL**

DRAWING NO.	DISCIPLINE	STATUS	REVISION
TMT-MC-SD7	ARCHITECTURE	C	0

**SD7**





**SECTION A-A**

**GENERAL NOTES:**

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATION AND SCHEDULED OF 1990.
- CONTRACTOR TO READ ONLY FIGURED DIMENSION.
- CONTRACTOR TO VERIFY ALL DIMENSION ON-SITE BEFORE COMMENCING WITH ANY WORK.

### BRICKWORK

Sub-structure

1. All pit lining / foundation brickwork to be solid NFP clay brick.
2. All internal surface of pit lining to be painted with two coats black epoxy paint installing Enviro-Loo units

Super-structure

1. All external walls / partitions to be of clay face brick to SABS quality.
2. All cubicle partition walls to be 3 courses above door height.
3. All brickwork above door openings should have brickforce on every course at least 3 courses.
4. Air bricks. Standard 230X152mm terra-cotta vermin proofed louvered air grating to be used above all window openings.

### ROOF SHEETING

1. 0.6mm killock chromadek roof sheeting.

### ROOF TIMBER / CEILING

1. All roof timbers to be machined SABS treated wood with three coats of approved wood preservative.
2. Timber connections (Hurricane Clips) are required all interconnections between timber rafters and purlins.
3. Sisalation is to be applied interval under all roof surfaces.

### METALWORK

1. All metalwork should be primed before installation.
2. All steel window should have 6x20mm flat bar burglar proofing.

### PLUMBING

1. Double concrete wash trough to be used.
2. All wash troughs should be connected to the school's water supply system and the waste water should be piped to a soakaway.
3. The soakaway should be as per Engineer's detail and position to be determined on site.
4. Only 20mm and galvanised pipework should be used as connection from wall to the discharge points.

### GLAZING

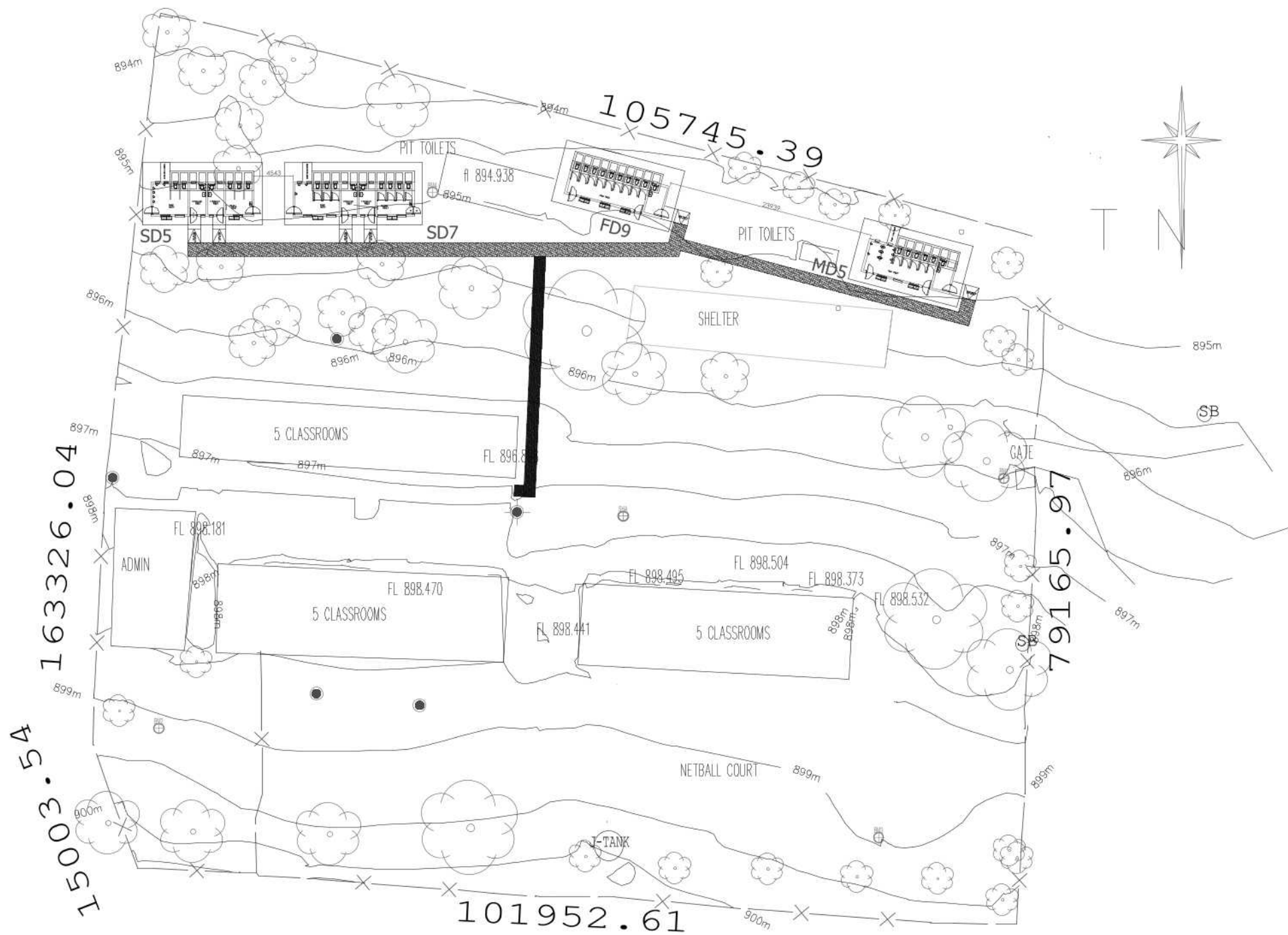
1. 6.28mm obscure safety glass.

### PAINTING

1. All paintwork to comply with SABS and PW371 specification.
2. All steel window and door frames including doors and fascia / barge boards to be discharge points.

[illegible]





SCHOOL LOCATION		
NAME	LONGITUDE	LATITUDE
SHAVHANI PRIMARY SCHOOL	30,176276	-23,184302

Coordinates List (WG31)			
NAME	Y-COORD	X-COORD	Z-COORD
BM1	80022.900	2537826.176	896.525
BM2	80120.707	2537855.079	899.224
MB3	80037.397	2537867.692	898.934
BM4	80089.044	2537793.120	894.931
SHA	80066.972	2537830.536	897.367

SETTING OUT COODINATES			
BUILDING	POINT	Y-COORD	X-COORD
SD5	A1	-80121,615	-2537795,834
	A2	-80109,697	-2537795,834
	A3	-80109,697	-2537791,869
	A4	-80109,697	-2537795,829
SD7	B1	-80105,154	-2537791,869
	B2	-80105,154	-2537795,829
	B3	-80091,137	-2537791,869
	B4	-80091,132	-2537795,829
FD9	C1	-80072,805	-2537789,462
	C2	-80073,786	-2537795,829
	C3	-80061,579	-2537792,399
	C4	-80062,560	-2537796,148
MD5	D1	-80038,418	-2537798,460
	D2	-80039,399	-2537801,130
	D3	-80028,218	-2537801,130
	D4	-80028,910	-2537803,774

NO.	DATE	REVISION	DRAWN

ELECTRIC POLE

ELECTRIC BOX

LIGHT POLE

TRANSFORMER

ROUNDING EYE

STAY

SIGN BOARD

JOJO - TANK

TREE

EXISTING FENCE

BOREHOLE

TAP

NEW WALK WAY

CONSULTANTS

MGIBA

consulting

MGIBA CONSULTING

SUITE 3, 13 ISHANI STREET

15MINI OFFICE PARK

BENDOR POLOKWANE, 0699

Tel: 015 065 0838

Email: info@mgibacconsulting.co.za

ARCHITECT

	SIGNATURE	DATE	SHEET SIZE
DESIGNED	RN	08-11-2019	A1
DRAWN	DRA	08-11-2019	SCALE
VERIFIED	RN	08-11-2019	STATUS/ISSUE
VALIDATED	ST	08-11-2019	1 - INFORMATION 2 - CONSULTATION 3 - APPROVAL

IMPLEMENTED BY

THE MVULA TRUST

A leading developmental NGO

THE MVULA TRUST

22 RHODESDRIFT STREET

RHODESDRIFT OFFICE PARK

BENDOR EXTENSION 30

0699

TEL: 015 291 2405    FAX: 015 291 1270

SPONSOR

LIMPOPO

PROVINCIAL GOVERNMENT

REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
EDUCATION

PROJECT

LPDoe SHAVHANI PRIMARY SCHOOL

PROVINCE: LIMPOPO

DRAWING TITLE

SITE DEVELOPMENT PLAN

EMS NUMBER	DISCIPLINE	DRAWING NO.	STATUS	REVISION
	ARCHITECTURE	TMT-MC-SDP	C	