





- GENERAL

  1. Use dimensions provided and do not sclae drawing

  2. All work to comply with SANS, PW371 and SABS.

  3. All dimensions, levels and positions to be verified on site prior to construction.
- 4. All concrete work to be as per Engineer's details and specifications.
- 5. All pits to face North.
- 5. All brickwork have brickforce at every 2nd course in pit lining and 3rd course in superstructure.

### PIT EXCAVATION

1. All stages of pit excavation to be inspected and approved by Engineer and signed off

2. 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.
   S MPa strength concrete to be used throughout construction:

Trial Concrete Mixes: Proportions

- Concrete Strenght at 28 Days 25Mpc.

  1: 2: 2 (mix proportion by volume)

  1: bag cement: 0.08m3 Sand: 0.09m3 Stone (Volume/Bag)

  365 kg cement: 820 kg sand: 960 kg stone (Mass/m3)

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

### MORTAR

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# BRICKWORK Sub-structure

1. All pit lining / foundation brickwork to be solid NFP clay brick.

All internal surface of pit lining to be painted with two coats black expoxy 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 evry course at least 3
- 4. Air bricks. Standard 230X152mm terra—colts vermin proofed lourved air grating to
- be used above all window openings.

## ROOF SHEETING

1. 0.6mm kliplock 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 intercessions between timber
- rafters and purlins.
- 3. Sisulation 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.

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.

13	

## CONSULTANTS

NO. DATE REVISION



## ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	FON	09-11-2019	SCALE
MWAND	DRA	69-11-2019	
VERIFICO	RN	00-11-2010	STATUS LEDENS
VALIDATED	gt	69-11-2019	C +COMMUNICATION

## IMPLEMENTED BY



THE MUULA TRUST
25 RHODESDBIFT STREET
RHODESDBIFT OFFICE PARK
BENOOR EXTENSION 30
0839
TEL: 015 291 2405 FAX: 015 291 1270

SPONSOR



## PROJECT

LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

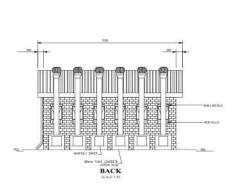
PROVINCE: LIMPOPO

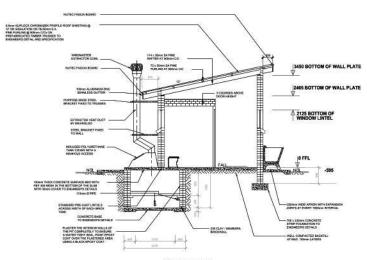
DRAWING TITLE

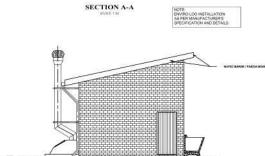
MALE 7 SEAT - 14 URINALS - 1 Disabled ENVIROLOO PUBLIC WORKS PROTOTYPE MPHANAMA PRIMARY SCHOOL

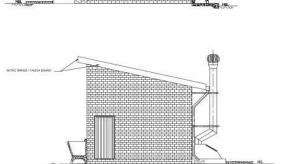
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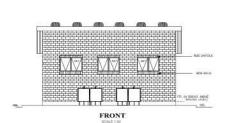






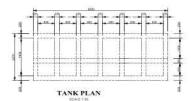






FEMALE TOLET

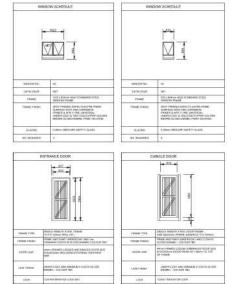
FLOOR LAYOUT





ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATION AND BABS 9400 OF 1990

CONTRACTOR TO VERIFY ALL DIMENSION ON SITE BEFORE COMMENCING WITH ANY WORK.



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## PAINTING

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## CONSULTANTS

NO. DATE REVISION



## ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	RN	09-11-2019	SCALE
DRAWN	DRA	69-11-2019	SCALE
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VALIDATED	ST	69-11-2019	C +CONSTRUCTION

## IMPLEMENTED BY



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SPONSOR



## PROJECT

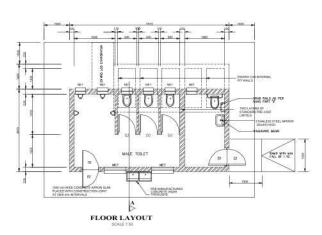
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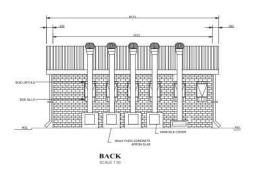
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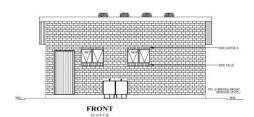
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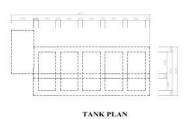
PROTOTYPE MPHANAMA PRIMARY SCHOOL

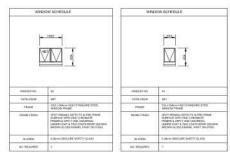
ARCHITECTURE TMT- MC- F6 C 0

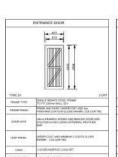


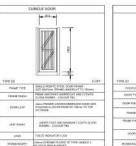


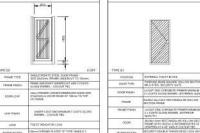


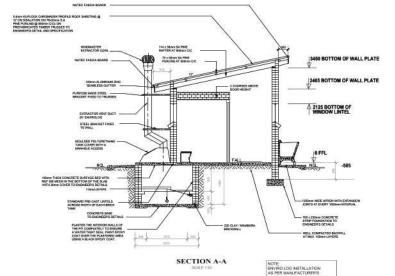


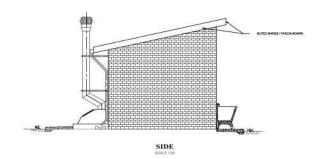


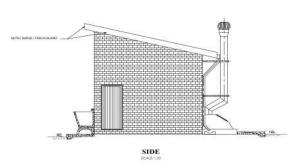














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## CONSULTANTS



## ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	RN	09-11-2019	SCALE
DRAWN	DRA	69-11-2019	SCALE
VERIFIED	RN	00-11-2010	STATUS LEGENS
VALIDATED	ST	09-11-2019	C +CONSTRUCTION

# IMPLEMENTED BY



THE MUULA TRUST
25 RHODESDBIFT STREET
RHODESDBIFT OFFICE PARK
BENOOR EXTENSION 30
0839
TEL: 015 291 2405 FAX: 015 291 1270

SPONSOR



## PROJECT

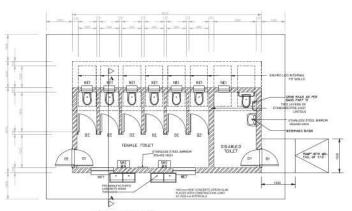
LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

PROVINCE: LIMPOPO

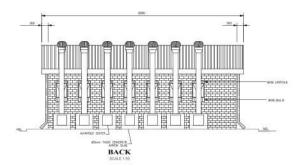
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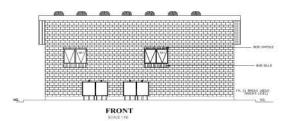
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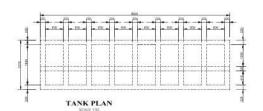
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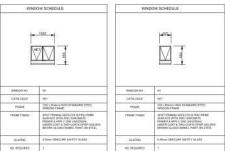


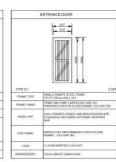
FLOOR LAYOUT

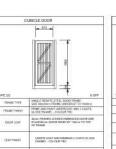








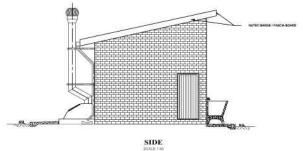


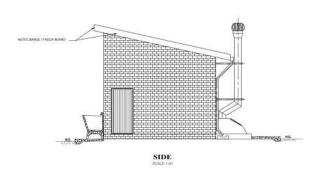




DIRECTOR SEALATION ON TOUGHT S A
PINE PLETANS OF SOCIETY CON
PREFARECATED TIMES TRUSSES TO
DEGMEER'S DETAIL AND SPECIFICATION 114 x 38mm 8A PRIE SAFTER AT 988mm CVC 75 x 50mm 5A FRE 3450 BOTTOM OF WALL PLATE 2465 BOTTOM OF WALL PLATE 100mm ALLWINSON ZIN ..... 2125 BOTTOM OF STEEL BRACKET FRED TO WALL MOULDED POLYLINET TANK COVER WITH A KRIMIN THEK CONCRETE SURFACE BED WITH REF 316 MESH IN THE BOTTOM OF THE BLAR WITH SURFACE/SER TO ENGINEER'S DETAILS - 1250mm WIDE APPION WITH EXPANSIO JOINTS AT EVERY 1880mm INTERNAL STANDARD PRE-CAST LINFOLS ACROSS WIDTH OF EACH MIRCK TANK CONCRETE BASE TO PROMPTH'S DET 200 x 230WM CONCRETE STRIP FOUNDATION TO

SECTION A-A





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 3,000,000	215000

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NO DATE REVISION



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PROJECT

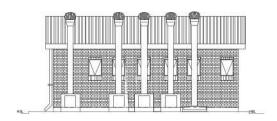
LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

PROVINCE: LIMPOPO

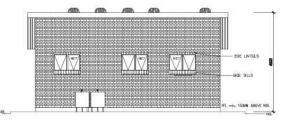
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ARCHITECTURE TMT- MC- FD6 C 0



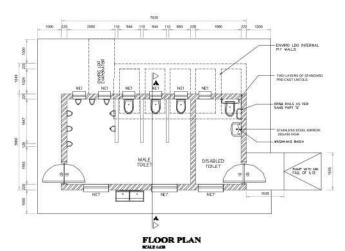
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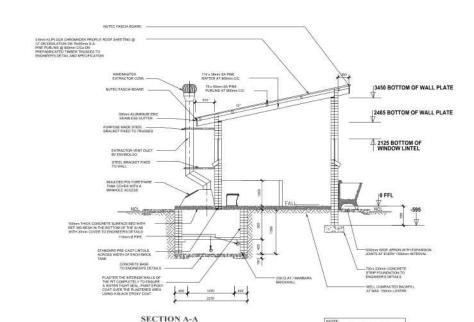


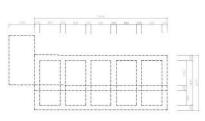
FRONT ELEVATION



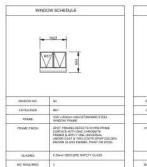


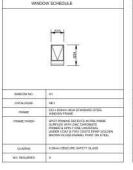


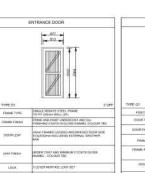




TANK PLAN









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- 4. All concrete work to be as per Engineer's details and specifications.
- 5. All pits to face North.
- 5. All brickwork have brickforce at every 2nd course in pit lining and 3rd course in

1. All stages of pit excavation to be inspected and approved by Engineer and signed off

2. All pit lining to be inspected by  ${\sf EnviroLoo}$  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.

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

Trial Concrete Mixes: Proportions

Concrete Strenght at 28 Days 25Mpc.

1: 2: 2 (mix proportion by volume)

1: bag cement: 0.08m3 Sand: 0.09m3 Stone (Volume/Bag)

365 kg cement: 820 kg sand: 960 kg stone (Mass/m3)

3. Pre-cast concrete lintols to be used as support under top slab of pit.

4. All concrete aprons to be 1000mm wide.

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 expoxy 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 evry course at least 3
- 4. Air bricks. Standard 230X152mm terra—colts vermin proofed lourved air grating to be used above all window openings.

## ROOF SHEETING

1. 0.6mm kliplock 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 intercessions between timber rafters and purlins.
- 3. Sisulation 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,

- 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.

1. 6.28mm obscure safety glass.

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.

## CONSULTANTS

NO DATE REVISION



## ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	FON	09-11-2019	SCALE
MWAND	DRA	69-11-2019	
VERIFICO	RN	00-11-2010	STATUS LEDENS
VALIDATED	gt	69-11-2019	C +COMMUNICATION

## IMPLEMENTED BY



THE MVULA TRUST
25 RHODESDRIFT STREET
RHODESDRIFT OFFICE PARK
BENDOR EXTENSION 30
0699
TEL; 015 291 2405 FAX: 015 291 1270

SPONSOR

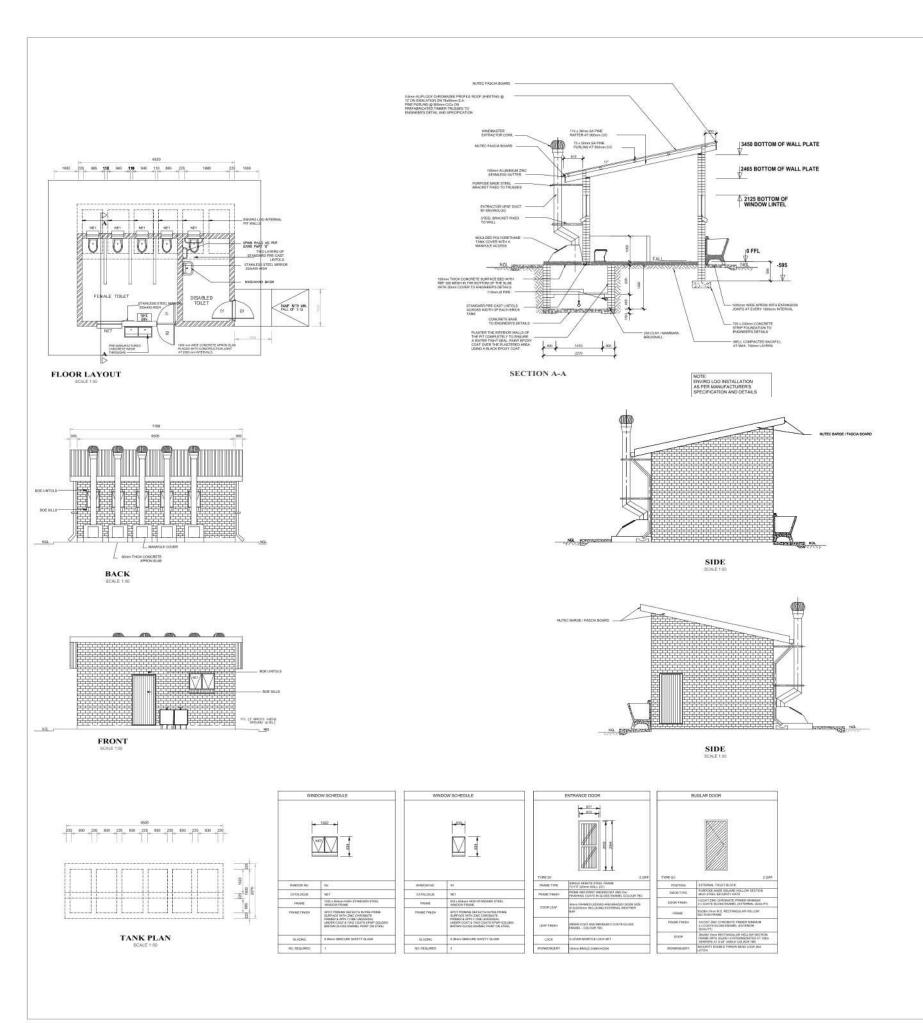


LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

MALE 3 SEAT 8 URINALS - 1 Disabled ENVIROLOO PUBLIC WORKS PROTOTYPE.
MPHANAMA PRIMARY SCHOOL

DRAWING No. STATUS REVISION ARCHITECTURE TMT-MC - C 0





NOTES AND SPECIFICATIONS:

- GENERAL

  1. Use dimensions provided and do not sclae drawing

  2. All work to comply with SANS, PW371 and SABS.

  3. All dimensions, levels and positions to be verified on site prior to construction.
- 4. All concrete work to be as per Engineer's details and specifications.
- 5. All pits to face North.
- 5. All brickwork have brickforce at every 2nd course in pit lining and 3rd course in

1. All stages of pit excavation to be inspected and approved by Engineer and signed off

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## PLUMBING

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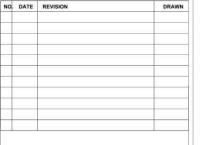
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## PAINTING

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2. All steel window and door frames including doors and fascia / barge boards to be discharge points.



## CONSULTANTS



# ARCHITECT

	SIGNATURE	DATE	Δ1
DESIGNED	FON	09-11-2019	SCALE
MWAND	DRA	69-11-2019	
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VALIDATED	gt	69-11-2019	C +COMMUNICATION

## IMPLEMENTED BY



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25 RHODESDRIFT STREET
RHODESDRIFT OFFICE PARK
BENOOR EXTENSION 30
0839
TEL; 015 291 2405
FAX: 015 291 1270

SPONSOR



## PROJECT

LPDE 2019 / 20 SCHOOLS WATER AND SANITATION PROGRAMME.

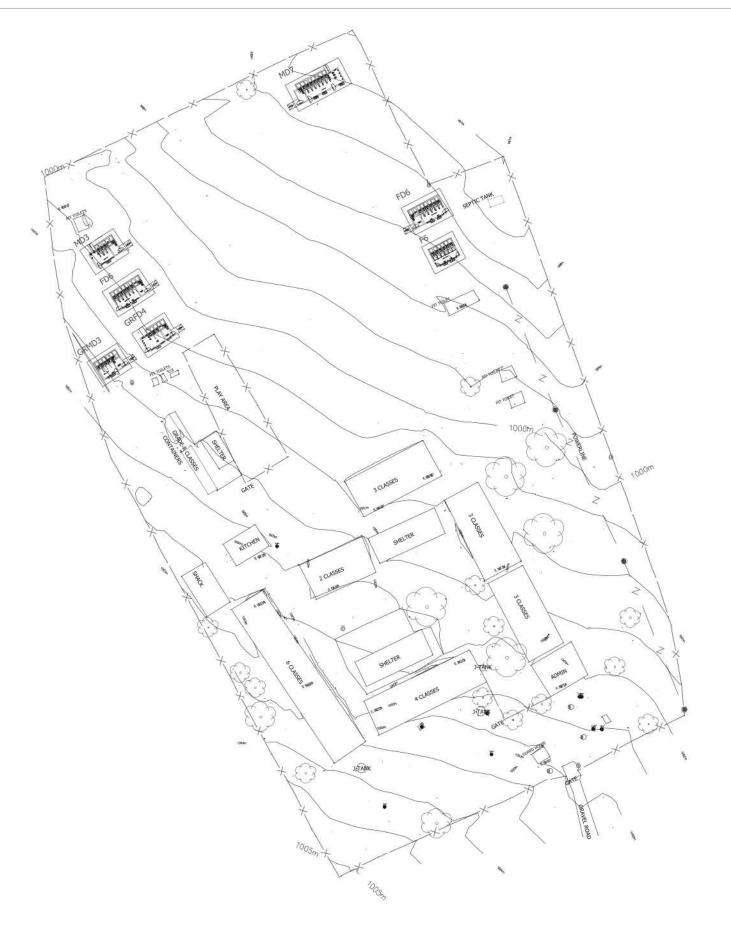
PROVINCE: LIMPOPO

DRAWING TITLE

GRADE R FEMALE 4 SEAT- 1 Disabled ENVIROLOO PUBLIC WORKS PROTOTYPE. MPHANAMA PRIMARY SCHOOL

MS MUMBER	DISCIPLINE	DRAWING No.	STATUS.	REVISION
	ARCHITECTURE	TMT-MC- GRFD4	c	0





SC	CHOOL LOCATION	
NAME	LONGITUDE	LATITUDE
MPHANAMA PRIMARY SCHOOL	29,815249	-24,586786

Coodinates List (WG31)				
NAME	Y-COORD	X-COORD	Z-COORD	
ВМ1	119997.349	2720727.863	999,796	
ВМ2	120005,616	2720805,257	1002.960	
MB3	120117.494	2720709.378	1001.293	
ВМ4	120043.074	2720659.674	998.023	
MPN	120064.602	2720770.942	1002.432	

	SETTING	OUT COODINATES	
BUILDING	POINT	Y-COORD	X-COORD
GRMD3	A1	-120126,579	-2720705,34
	A2	-120124,472	-2720708,59
	А3	-120121,067	-2720701,770
	A4	-120118,960	-2720705,02
GRFD4	B1	-120115,506	-2720698,27
	₿2	-120113,366	-2720701,61
	В3	-120109,085	-2720694,14
	B4	-120106,942	-2720697,47
FD6	C1	-120122,625	-2720687,88
	C2	-120120,528	-2720691,14
	C3	-120115,394	-2720683,23
	C4	-120113,297	-2720686,48
MD3	D1	-120128,342	-2720677,22
	D2	-120126,246	-2720680,47
	D3	-120122,018	-2720673,14
	D4	-120119,921	-2720676,40
F6	E1	-120042,784	-2720676,91
	E2	-120041,003	-2720680,35
	E3	-120037,066	-2720673,95
	E4	-120035,285	-2720677,39
FD6	F1	-120047,969	-2720667,20
	F2	-120046,188	-2720670,64
	F3	-120040,333	-2720663,25
	F4	-120038,552	-2720666,69
MD7	F1	-120077,024	-2720636,14
	F2	-120075,243	-2720639,58
	F3	-120065,849	-2720630,35
	F4	-120064,068	-2720633,79

NO.	DATE	REVISION	DRAWN
-			
-			
_			
-			_
_			
-			
-	400	ENGLISHED STATES WITH STATES	
(6		FLECTRIC POLE	BOREHOLE.
		ELECTRIC POLE	BOREHOLE

ELECTRIC BOX TAP

LIGHT POLE TRANSFORMER

ROUNDING EYE

STAY STAY  $\mathbb{S} B$  sign board

JOJO - TANK

JOJO TREE

\_\_X\_ EXISTING FENSE CONSULTANTS



ARCHITECT

IMPLEMENTED BY



THE MYULA TRUST
25 RINDESDIGIT STREET
RINDESDIGIT OFFICE PARK
BENDOR EXTENSION 36
6009
TEL: 015:201:2405 FAX: 015:291:1270

SPONSOR



LPDoE MPHANAMA PRIMARY SCHOOL

PROVINCE: LIMPOPO
DRAWING TITLE
SITE DEVELOPMENT PLAN

MS NUMBER	DISCIPLINE	DRAWING No.	STATUS	REVISION
	ARCHITECTURE	TMT-MC-SDP	c	