

	Norms and standards for Primary School (ANNEXURE G)														
ENROLMENT RANGE	ENROLMENT RANGE PER GENDER	GIRLS TOILETS	GIRLS BASINS	BOYS TOILETS	BOYS URINALS	BOYS BASINS	UNISEX GRADE R TOILETS	GRADE R BASINS	UNISEX DISABLED TOILETS & BASINS	FEMALE STAFF TOILETS	FEMALE STAFF BASINS	MALE STAFF TOILET	MALE STAFF URINALS	MALE STAFF BASINS	TOTAL TOILETS
621 - 930	311 - 465	10	6	6	10	2	7	3	6	4	2	3	4	2	35

NEW B	UILDING
Name	Area m²
FD2	22.60
F8	39.74
SD3	36.30
SD4	31.07
MD6	49.51
MGRD2	31.90
FGRD5	35.82
TOTAL M	² 246.94

2		7.5			TOTAL
ENF	ROLLME	NT		AREA SCHEDULE	
	Male	Female	TOTAL	DESCRIPTION	AREA
ARNERS	329	273	602	Site area	1.7 ha
UCATORS	9	8	17	Existing classroom blocks	485.6m
JPPORT STAFF	1	6	7	Existing ablution blocks	42m²
				New ablution blocks	246.94
ABLUT	ION QU	ANTITIE	S	Future ablution blocks	0.00m ²

		Req.	Existing	New	TOTAL
Female	Toilets	10	0	10	10
Learners	Basins	6	0	6	6
	Toilets	6	0	6	6
Male Learners	Urinals	10	0	10	10
	Basins	2	0	2	2
Unisex	Toilets	7	0	7	7
Grade R	Basins	3	0	3	3
Unsex Dis	abled	6	0	6	6
Female	Toilets	4	4	4	8
Educators	Basins	2	0	2	2
	Toilets	3	0	3	3
Male Educators	Urinals	4	0	4	4
	Basins	2	0	2	2
TOTAL (exc	l. Basins)	35	4	35	39

COOR		ATES OF LDINGS	NEW
Building		Y-Coord	X-Coord
SD3	а	+69 201.20	+2 613 085.20
	b	+69 189.45	+2 613 085.20
	С	+69 189.45	+2 613 105.15
	d	+69 201.20	+2 613 105.15
MD6	е	+69 185.35	+2 613 045.20
	f	+69 180.38	+2 613 045.20
	g	+69 180.38	+2 613 060.75
	h	+69 185.35	+2 613 060.75
F8	i	+69 176.15	+2 613 059.25
	j	+69 162.75	+2 613 059.25
	k	+69 162.75	+2 613 085.95
	m	+69 176.15	+2 613 085.95
SD4	n	+69 175.05	+2 613 104.85
	р	+69 162.10	+2 613 104.85
	q	+69 162.10	+2 613 106.05
	r	+69 175.05	+2 613 106.05
FD2	s	+69 162.90	+2 613 107.95
	t	+69 160.25	+2 613 107.95
	u	+69 160.25	+2 613 109.25
	V	+69 162.90	+2 613 109.25
MGRD2	w	+69 406.85	+2 613 125.75
	х	+69 390.95	+2 613 125.75
	у	+69 390.95	+2 613 130.55
	z	+69 406.85	+2 613 130.55
FGRD5	Aw	+69 393.95	+2 613 134.65
	Ax	+69 380.25	+2 613 134.65

\bigwedge	Prevailing wind
	SOUTH- EAST (SE)

Ay +69 380.25 +2 613 137.35

Az +69 393.95 +2 613 137.35

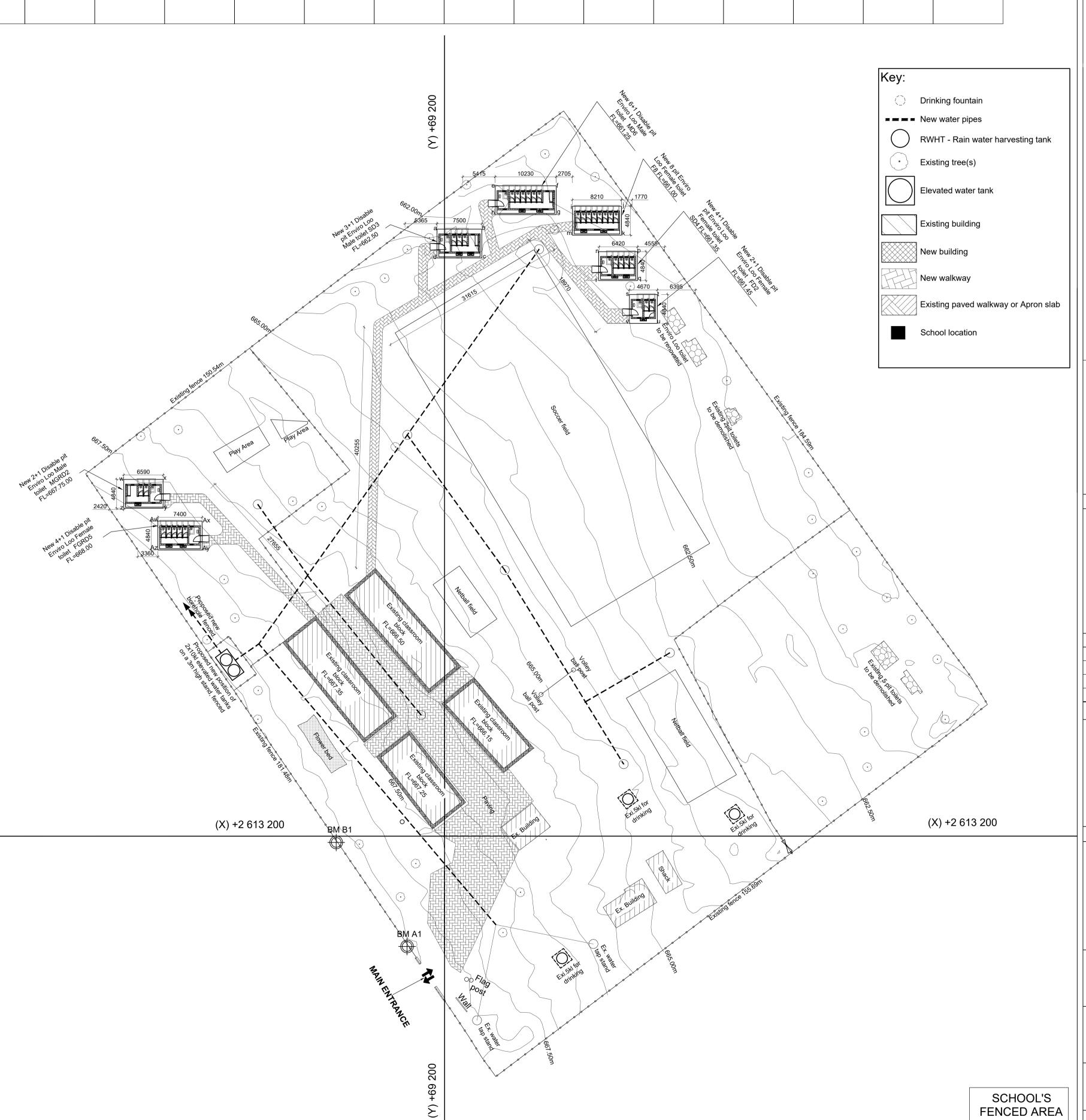
	TOTAL W
AREA SCHEDULE	
DESCRIPTION	AREA
Site area	1.7 ha
Existing classroom blocks	485.6m ²
Existing ablution blocks	42m²
New ablution blocks	246.94m²
Future ablution blocks	0.00m ²
Total building area	782.01m²

	SCHEDULE INDICATING DEMOLITION AREAS
1	Existing 5 pit toilet male learners.
2	Existing 8 vip pit toilet, female & male learners.
3	Existing 1 pit toilet male learners Gr.
4	Existing 1 pit toilet female learners Gr.

BENCHMARKS					
Name Y-Coord X-Coord Z-Coord					
BM A1	+69 209.29	+2 613 227.27	668.88		
BM B1	+69 226.81	+2 613 201.55	668.88		

FUTURE ABLUTION BLOCKS

MAXIMUM ENROLMENT FOR PRIMARYSCHOOL=931, TOTAL FOR KHEKHUTINI PRIMARY SCHOOL = 602 TOTAL ABLUTION SEATS PROVIDED= 39 INCLUDING THE EXISTING SANITATION. THEREFORE NO FUTURE ABLUTIONS REQUIRED SCHOOL HAS ADEQUATE SANITATION.



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

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.

1. All concrete to be as per Engineer's details and specifications.
2. 25 MPa strength concrete to be used throughout construction:
Trial Concrete Mixes: Proportions

Concrete Strenght at 28 Days 25Mpa:

1: 2: 2 (mix proportions by volume)

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

385 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.

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.

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

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.

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.

. 6.28mm obscure safety glass

2. Stainless steel mirrors size 350x450mm high.

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

CONSULTANTS



CLEAR WATER CONSULTING ENGINEERS (PTY)LTD Registration No. 2015/100292/07 Civil, Structural Engineers & Project Managers 266 Madumeleng Village, Modjadji, 0837 Cell: 072 889 5515, Fax: 086 668 9751,

	SIGNATURE	DATE	SHEET SIZE A1
DESIGNED	MR FANIKIE MASHABANE	14-01-2020	SCALE
DRAWN	MR FANIKIE MASHABANE	14-01-2020	
VERIFIED	MR ANSELMO MUNGUAMBE	15-01-2020	STATUS LEGEND I = INFORMATION
VALIDATED	MR ANSELMO MUNGUAMBE	15-01-2020	T =TENDER C = CONSTRUCTION

IMPLEMENTED BY



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SPONSOR



DEPARTMENT OF **EDUCATION**

PROJECT NUMBER

TMT-LPDE-2019/20- LPCL14D

1.6 Ha

LDPE 2019/20 SCHOOL WATER AND SANITATION PROGRAMME KHEKHUTINI PRIMARY SCHOOL

PROVINCE: LIMPOPO

DRAWING TITLE

SITE DEVELOPMENT PLAN FOR KHEKHUTINI PRIMARY SCHOOL

EMIS NUMBE	R DISCIPLINE	DRAWING No.	STATUS	REVISION
918510132	CIVIL ENGINEERING	SDP	1	0