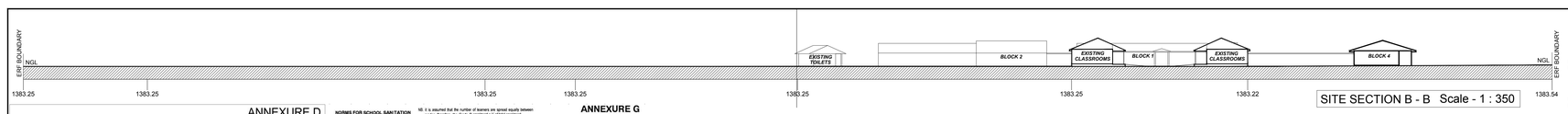
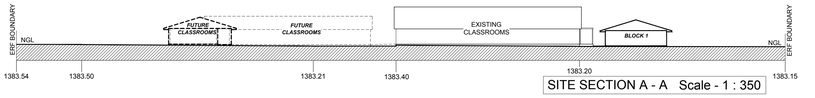



SITE SECTION B - B Scale - 1 : 350




SITE SECTION A - A Scale - 1 : 350

| AREA SCHEDULE ( square meter ) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SITE | 33 479m² | | | | | | | | |
| GROUND FLOOR | EXISTING | DEMOLISH | RENOVATE | PROPOSED NEW BUILDINGS | COVERED VERANDAH | COVERED PORCH | COVERED WALKWAY | FUTURE | DECANTING |
| EXISTING BUILDINGS / STRUCTURES | 868.4m² | 173.4m² | | | | | | | |
| DECANTING | | | | | | | | | 44.7m² |
| BLOCK 1: ADMINISTRATION FACILITY | | | | 273.0m² | | 7.9m² | | | |
| BLOCK 2: DINING & NUTRITION CENTRE | | | | 266.7m² | 68m² | | | | |
| BLOCK 3: MEDIA CENTRE (INCL. 2 x GIRLS TOILETS) | | | | 153m² | 42m² | | | | |
| BLOCK 4: GRADE-R CLASSROOM (Incl. Grade-R Ablution) | | | | 102.6m² | 28.5m² | | | | |
| EXISTING TOILETS TO BE RENOVATED | | | 53m² | | | | | | |
| EXISTING CLASSROOMS TO BE RENOVATED | | | 414m² | | | | | | |
| NEW GUARD HOUSE | | | | 10.8m² | | | | | |
| NEW COVERED WALKWAY | | | | | | | 258m² | | |
| FUTURE REFUSE AREA | | | | | | | | 34.6m² | |
| TOTAL : | 868.4m² | 173.4m² | 467m² | 806m² | 139m² | 7.9m² | 258m² | 34.6m² | 44.7m² |

NEW PAVING : 670m²

## GENERAL NOTES

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT'S AND ENGINEER'S DRAWING.

ALL DIMENSIONS, LEVELS, ETC. ARE TO BE CHECKED BEFORE ANY WORK IS COMMENCED AND ANY DISCREPANCIES NOTED TO BE BROUGHT TO THE ARCHITECT'S ATTENTION.

ONLY FIGURED DIMENSIONS TO BE USED, SCALING OF DRAWINGS IS NOT ADVISABLE.

ALL RIGHTS RESERVED. NO PARTS OF THIS DESIGN SHALL BE REPRODUCED, USED ELSEWHERE AND/ OR IN ANY WAY WITHOUT PRIOR PERMISSION FROM THE ARCHITECT/ ENGINEER.

## GEOTECH INFORMATION

SOIL TYPE: .....

ASSUMED SOIL BEARING CAPACITY: ..... kPa

RECOMMENDED FOUNDATION TYPE: .....

RECOMMENDED FOUNDATION DEPTH: .....

| REV No. | DATE | DESCRIPTION |
|---|---|---|
| 01 | 20-05-2021 | Addition to existing ablution omitted |
| | | Girls ablution added to Media Centre |
| 02 | 07-07-2021 | Total school sanitation numbers included |
| 03 | 24-08-2021 | Engineering services coordination update |
| | | Area Schedule update |
| 04 | 11-10-2021 | DNC Cold Room Added |
| 04 | 11-10-2021 | ENG Services update & general update |
| | | |
| | | |

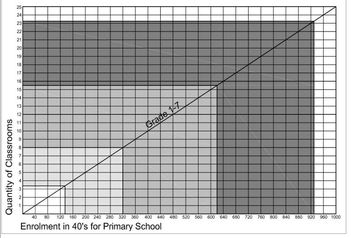
## ANNEXURE D

**PRIMARY SCHOOL**
**MINIMUM EDUCATION AREAS FOR AN ENABLING SCHOOL ENVIRONMENT**

**SMALL**
Classrooms as per graph below
Grade 'R' classrooms as per enrolment
1 x Multimedia centre
1 x Science laboratory
1 x Multipurpose classroom
Admin areas = Principal's office
Admin office
Strong room
Staff room
1x Sick room
1x Staff kitchenette
1x HOD office
1x Printing room
Parking bays as per post establishment.
Toilets as per enrolment in Annexure 'G'.
Storage areas per classroom.
Nutrition centre where National Schools Nutrition Program is implemented.
Area for physical education, sport and recreation.

**MEDIUM**
Classrooms as per graph below
Grade 'R' classrooms as per enrolment
1 x Multimedia centre
1 x Science laboratory
1 x Multipurpose classroom
Admin areas = Principal's office
Deputy principal's office
Admin office
Strong room
Staff room
1x Sick room
1x Staff kitchenette
2x HOD's offices
1x Printing room
Parking bays as per post establishment.
Toilets as per enrolment in Annexure 'G'.
Storage areas per classroom.
Nutrition centre where National Schools Nutrition Program is implemented.
Area for physical education, sport and recreation.

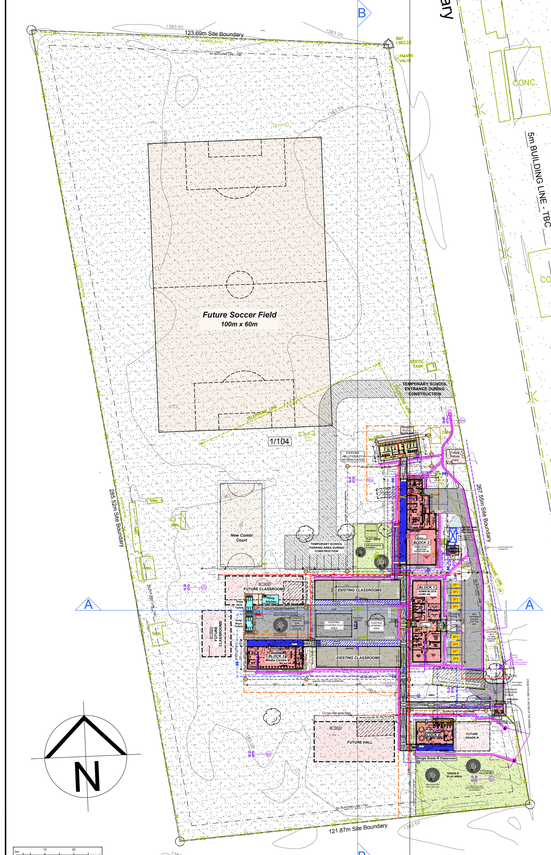
**LARGE**
Classrooms as per graph below
Grade 'R' classrooms as per enrolment
1 x Multipurpose classroom
1 x Computer room
1 x Library
1 x Science laboratory
Admin areas = Principal's office
Deputy principal's office
Admin office
Reception area
Storage area for admin
Strong room
Staff room
Counseling room
1x Staff kitchenette
1x Sick room
3x HOD's offices
1x Printing room
Parking bays as per post establishment.
Toilets as per enrolment in Annexure 'G'.
Storage areas per classroom.
Nutrition centre where National Schools Nutrition Program is implemented.
Area for physical education, sport and recreation.




## ANNEXURE G

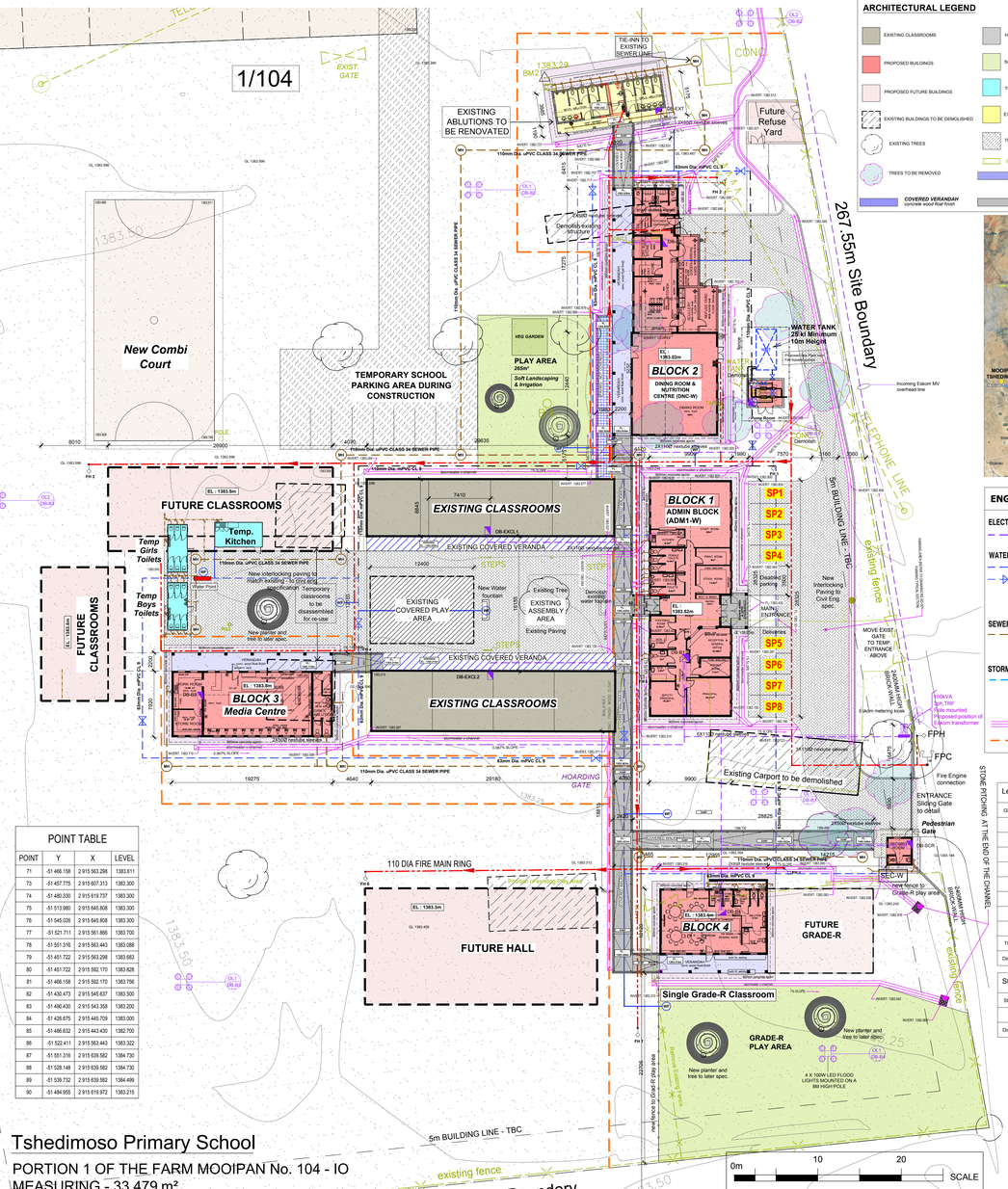
NORMS FOR SCHOOL SANITATION — NB. It is assumed that the number of learners are spread equally between grades, therefore, the Grade R enrolment = ¼ of total enrolment.

| PRIMARY SCHOOLS | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Enrolment range | Enrolment range per gender | Girls' toilets | Girls' basins | Boys' toilets | Boys' urinals | Boys' basins | Unisex Grade R: Toilets | Unisex Grade R: basins | Unisex Disable d toilets & basins | Female staff toilets | Female staff basins | Male staff toilets | Male staff urinals | Male staff basins | Total toilets |
| 0 - 25 | 0 - 13 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 1** | 0 | 0 | 1 | 0 | 0 | 6 |
| 26 - 85 | 13 - 33 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 1** | 0 | 0 | 1 | 0 | 0 | 6 |
| 86 - 134 | 33 - 67 | 3 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 11 |
| 135 - 310 | 68 - 155 | 6 | 4 | 2 | 4 | 2 | 3 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 30 |
| 311 - 620 | 156 - 310 | 8 | 6 | 4 | 4 | 2 | 4 | 3 | 1 | 2 | 1 | 1 | 1 | 1 | 25 |
| 621 - 930 | 311 - 465 | 10 | 6 | 4 | 6 | 3 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 33 |
| 931 - 1240 | 466 - 620 | 12 | 8 | 6 | 6 | 4 | 5 | 3 | 2 | 3 | 2 | 1 | 2 | 2 | 37 |
| SANITATION PROVIDED: (LEARNER ENROLMENT 180) | | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 2 | 21 |




SITE PLAN Scale 1:750

Civil Engineer to Specify:
1. New Building Platform Levels,
2. Stormwater Layout & Treatment,
3. New Paving and Roadway designs & levels.




PART SITE PLAN Scale 1:250

| POINT TABLE | | | |
|---|---|---|---|
| POINT | Y | X | LEVEL |
| 71 | -51 466.158 | 2 915 563.298 | 1383.611 |
| 73 | -51 457.775 | 2 915 607.313 | 1383.300 |
| 74 | -51 480.330 | 2 915 619.737 | 1383.300 |
| 75 | -51 513.990 | 2 915 645.808 | 1383.300 |
| 76 | -51 545.026 | 2 915 645.808 | 1383.300 |
| 77 | -51 521.711 | 2 915 561.866 | 1383.700 |
| 78 | -51 551.316 | 2 915 563.443 | 1383.088 |
| 79 | -51 451.722 | 2 915 563.298 | 1383.693 |
| 80 | -51 451.722 | 2 915 562.170 | 1383.828 |
| 81 | -51 466.158 | 2 915 592.170 | 1383.756 |
| 82 | -51 430.473 | 2 915 545.637 | 1383.500 |
| 83 | -51 490.430 | 2 915 543.358 | 1383.200 |
| 84 | -51 426.675 | 2 915 445.709 | 1383.000 |
| 85 | -51 486.632 | 2 915 443.430 | 1382.700 |
| 86 | -51 522.411 | 2 915 563.443 | 1383.322 |
| 87 | -51 551.316 | 2 915 639.582 | 1384.730 |
| 88 | -51 528.148 | 2 915 639.582 | 1384.730 |
| 89 | -51 539.732 | 2 915 639.582 | 1384.499 |
| 90 | -51 484.955 | 2 915 619.972 | 1383.215 |

Tshedimoso Primary School
PORTION 1 OF THE FARM MOOIPAN No. 104 - IO
MEASURING - 33 479 m²

## ARCHITECTURAL LEGEND

- EXISTING CLASSROOMS
- PROPOSED BUILDINGS
- PROPOSED FUTURE BUILDINGS
- EXISTING BUILDINGS TO BE DEMOLISHED
- EXISTING TREES
- TREES TO BE REMOVED
- COVERED VERANDAH concrete wood float finish
- HARD LANDSCAPING AND PAVING
- SOFT LANDSCAPING
- TEMPORARY BUILDINGS (DECANTING)
- EXIST. ABLUTIONS TO BE RENOVATED
- TEMPORARY ENTRANCE & PARKING AREA
- EXISTING - AS SURVEYED
- OPEN PASSAGE / WALKWAY concrete wood float finish
- COVERED PASSAGE / WALKWAY concrete wood float finish

## STAND INFORMATION

PORTION 1 OF THE FARM MOOIPAN No. 104 - IO

| | |
|---|---|
| SITE AREA: | 33 479 m² |
| PERMITTED USE: | Primary School |
| GROSS AREA OF DEVELOPMENT: | 1780.55m² (Existing & New Buildings)<br>649m² (New paved driveway & parking area)<br>20m² (New open paved areas excl. exist. paving) |
| COVERAGE: | 5.32% (1780.55m² Buildings) |
| FAR: | 0.532 (1780.55m² Buildings) |
| ACTUAL HEIGHT: | 1 Storey |
| PARKING PROVIDED: | 8 x Staff parkings (SP) - 2.5 x 5m per parking<br>- Paved & uncovered<br>1 x Disabled parking (DIS) - 3.5 x 5m per parking<br>- Paved & uncovered |

LOCALITY PLAN A

## ENGINEERING SERVICES LEGEND

**ELECTRICAL:**
- ELECTRICAL SUPPLY LAYOUT

**WATER:**
- 63mm Dia. mPVC CLASS 9 WATER PIPE
- ISOLATING VALVE
- WP WATER POINT, PRV PRESSURE RED. VALVE
- PESWT PROPOSED ELEVATED STEEL WATER TANK

**SEWER:**
- 110mm Dia. uPVC CLASS 34 SEWER PIPE
- MH SEWER MANHOLE

**STORMWATER:**
- 450mm STORMWATER PIPE BY ENGINEER
- STORMWATER MANHOLE
- V-DRAIN OPEN CHANNEL DRAIN
- HOARDING DURING CONSTRUCTION

## MUNICIPAL APPROVAL

NAME: .....

SIGNATURE: ..... DATE: .....

**STAMPS:**

## CLIENT APPROVALS

**North West Department of Education:**
NAME: ..... SIGNATURE: ..... DATE: .....

**DBSA Architect:**
NAME: ..... SIGNATURE: ..... DATE: .....

**DBSA OH&S:**
NAME: ..... SIGNATURE: ..... DATE: .....

## PRINCIPAL AGENT

KITSO BOTLHALE CONSULTING ENGINEERS CESA
Tel +27(0)12 663 1357 - Cell +27 (0) 82 903 8497 - Fax +27(0)12 663 1331
E-mail bruce@kitsobce.co.za Website www.kitsobce.co.za
Unit 2 International Business Gateway, 18 Midridge Park, C/o Pioneer Avenue & Elizabeth Road, Extension 6 Midridge Park, Midrand, 1682

COMPETENT CONTACT PERSON: Bruce Mutaurwa
CONTACT No: +27 (0)12 663 1357
FIRM REG No: T.B.C.

education
Lefapha la Thuto
Onderwys Departement
Department of Education
NORTH WEST PROVINCE

**DEPARTMENT OF BASIC EDUCATION**
**222 STRUBEN STREET**
**PRETORIA**

**DISCIPLINE**
**ARCHITECTURAL**

**PROJECT NAME**
**Tshedimoso Primary School**
PORTION 1 OF THE FARM MOOIPAN No. 104 - IO
MEASURING - 33 479 m²

**PROJECT STATUS**

| STAGE 1-3 | | STAGE 4 | | STAGE 5-6 |
|---|---|---|---|---|
| CONCEPT | X | TENDER | | CONSTRUCTION |

**DESCRIPTION**
**REVISED SITE PLAN**

SCALE: AS SHOWN

**DRAWN:**

**CHECKED:**

NAME OF COMPETENT PERSON: **M.L. van der Walt** — REG No: **Pr.Arch. 7292** — SIGNATURE

NAME OF COMPETENT PERSON: **A.A. Steyn** — REG No: **Pr.Arch. 20832** — SIGNATURE

**PROJECT NUMBER**
S-TSH-001-30

DATE: 27-10-2021

DWG No: 300-R

**OCCUPANCY CLASSIFICATION**
A3

REV No: 05

| Learner Enrollment Figures as per Principal | | | |
|---|---|---|---|
| GRADE | Number of Males | Number of Females | TOTAL |
| R | TBC | TBC | 17 |
| 1 | TBC | TBC | 21 |
| 2 | TBC | TBC | 23 |
| 3 | TBC | TBC | 14 |
| 4 | TBC | TBC | 13 |
| 5 | TBC | TBC | 22 |
| 6 | TBC | TBC | 25 |
| 7 | TBC | TBC | 21 |
| TOTAL | 82 | 72 | 154 |
| Disabled | 0 | 0 | 0 |

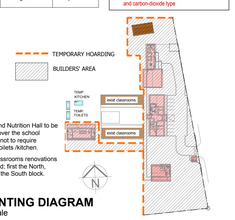
| Staff Enrollment Figures as per Principal | | | |
|---|---|---|---|
| Staff | Number of Males | Number of Females | TOTAL |
| | 2 | 11 | 13 |
| Disabled | 0 | 0 | 0 |

**FIRE LEGEND**
- FHR - FIRE HOSE REEL
- FH - FIRE HYDRANT
- FIHI - F. H. PRESSURE GAUGE
- FE - FIRE EXTINGUISHER
- FE - FIRE EXTINGUISHER
- FPC - FIRE BRIGADE CONNECTOR

110 DIA FIRE MAIN RING

Fire hose:
1. All pvc underground piping to be Class 1
2. Minimum municipality water supply 20 l/s @ 300 kPa minimum residual pressure
3. All hose reels to house a supply of 0.5 l/s the minimum residual pressure at the highest hose reel to be 300 kpa as per sans 10400 Part W.
4. Water mains to be confirmed on site.
5. All hydrants to have a minimum supply of 20 l/s
6. One fire hydrant to be allocated per building.
7. All fire extinguishers to be dry chemical powder and carbon-dioxide type

| ROOM SCHEDULE | |
|---|---|
| EDUCATIONAL SPACES | TOTAL NUMBER |
| New Classrooms Grade R | 1 |
| Future Classrooms Grade R | 1 |
| Existing Classrooms to be renovated | 8 |
| Future Classrooms | 5 |
| New Nutrition Centre | 1 |
| Media Centre | 1 |
| Future Hall | 1 |
| ADMINISTRATION SPACES | |
| Principal Office | 1 |
| H.O.D. Office | 1 |
| Strong Room | 1 |
| Reception & Administration Area | 1 |
| Reception /Waiting Area | 1 |
| Sick Room | 2 |
| Disabled Toilet | 1 |
| Pastoral Room | 1 |
| Print Room | 1 |
| Stock Room | 1 |
| Staff Room | 1 |
| Kitchen | 1 |
| Mens Ablutions (WCs, WBs & Urinals) | 1 |
| Womens Ablutions (WCs & WBs) | 1 |
| Educational Support Spaces | |
| Assembly Area | 1 |
| New Combi Court | 1 |
| Soccer Field | 1 |
| Nutrition Yard | 1 |
| Future Refuge Yard | 1 |
| Guard House | 1 |
| Existing Ablutions | 1 |
| 3 x New Girls Toilets | 3 |




Building Phases:
1. Ablutions and Nutrition Hall to be completed over the school holidays as not to require temporary toilets &kitchen.
2. Existing Classrooms renovations to be phased; first the North, followed by the South block.

**DECANTING DIAGRAM**
not to scale

| SANS 10400 & XA COMPLIANCE | | | | |
|---|---|---|---|---|
| CONDUTANCE (TBC) | Rational Des. Y | N | Standard Cal Y | N |
| SOLAR HEAT GAIN (TBC) | Rational Des. Y | N | Standard Cal Y | N |
| GEOGRAPHICAL ZONE | | | | |

| NBRs COMPLIANCE | | |
|---|---|---|
| SITE PLAN (TBC) | Yes | No |
| OTHER DRAWINGS (TBC) | Yes | No |

| OTHER APPROVALS | Mark with X: Yes | No | N/A |
|---|---|---|---|
| Environmental Impact Assessment (EIA) | | X | |
| South African Heritage Resource Agency (SAHRA) | | X | |
| Department of Water and Sanitation (DWS) | | | X |
| South African National Roads Agency (SANRAL) | | X | |
| Other | | | |

| WATER SUPPLIER | | | | |
|---|---|---|---|---|
| MUNICIPALITY | Yes: | No: X | MUNICIPALITY NAME | |
| BOREHOLE | Yes: X | No | WATER USE LISENCE | |
| PRESSURE | TBC | | | BARS |
| TANKS | Number: TBC | | Total Capacity | LITERS |
| OTHER STORE | Yes: | No | Specify below | |

| SANITATION / SEWER | | | | |
|---|---|---|---|---|
| MUNICIPALITY | Yes: | No: X | MUNICIPALITY NAME | |
| SEPTIC TANKS | Yes: X | No | CAPACITY | M³ |
| PIT LATRINES | Yes: | No: X | | |
| OTHER | Yes: | No | SPECIFY: | |

| SITE INFORMATION | |
|---|---|
| ERF No. | PORTION 1 OF THE FARM MOOIPAN No. 104 - IO |
| COVERAGE | 5.28% |
| VILLAGE NAME | TSHEDIMOSO |
| DISTRICT | NORTH WEST PROVINCE |
| COORDINATES | S<br>E |

| STAGES | | |
|---|---|---|
| SIPDM | SACAP | Mark with X |
| 0 | | |
| 1 | | |
| 2 | | |
| 3 | 1 | |
| 4 | 2 | |
| 5 | 3 | |
| 6 | 4 | |
| 7 | 5 | |
| 8 | | |
| 9 | 6 | |

| PROJECT TEAM | | | | |
|---|---|---|---|---|
| | COMPETENT CONTACT PERSON | CONTACT No. | REGISTRATION No. | COMPANY NAME |
| ARCHITECT | A.A. (Riaan) Steyn | 079 160 6358 | Pr.Arch. 20832 | ARC-STUDIO |
| Q. SURVEYOR | L.E. Lombard | 072 447 0855 | Pr QS. 5024 | KITSOBCE |
| STRUCT. ENG | LIKWALETHU NCUBE | 061 026 8737 | ECSA 202001406 | KITSOBCE |
| CIVIL ENG | KHULEKANI ZULU | 078 617 0479 | | KITSOBCE |
| MECH. ENG | MUNYARADZI MIHLOLO | 072 542 8592 | ECSA 201270091 | KITSOBCE |
| ELECT. ENG | MAURICE BOKABO | 073 673 4589 | ECSA 201470146 | KITSOBCE |
| OHS | NGONI GOMBAMI | 072 327 5266 | CHSM/267/2016 | KITSOBCE |
| CONTRACTOR | | | | |