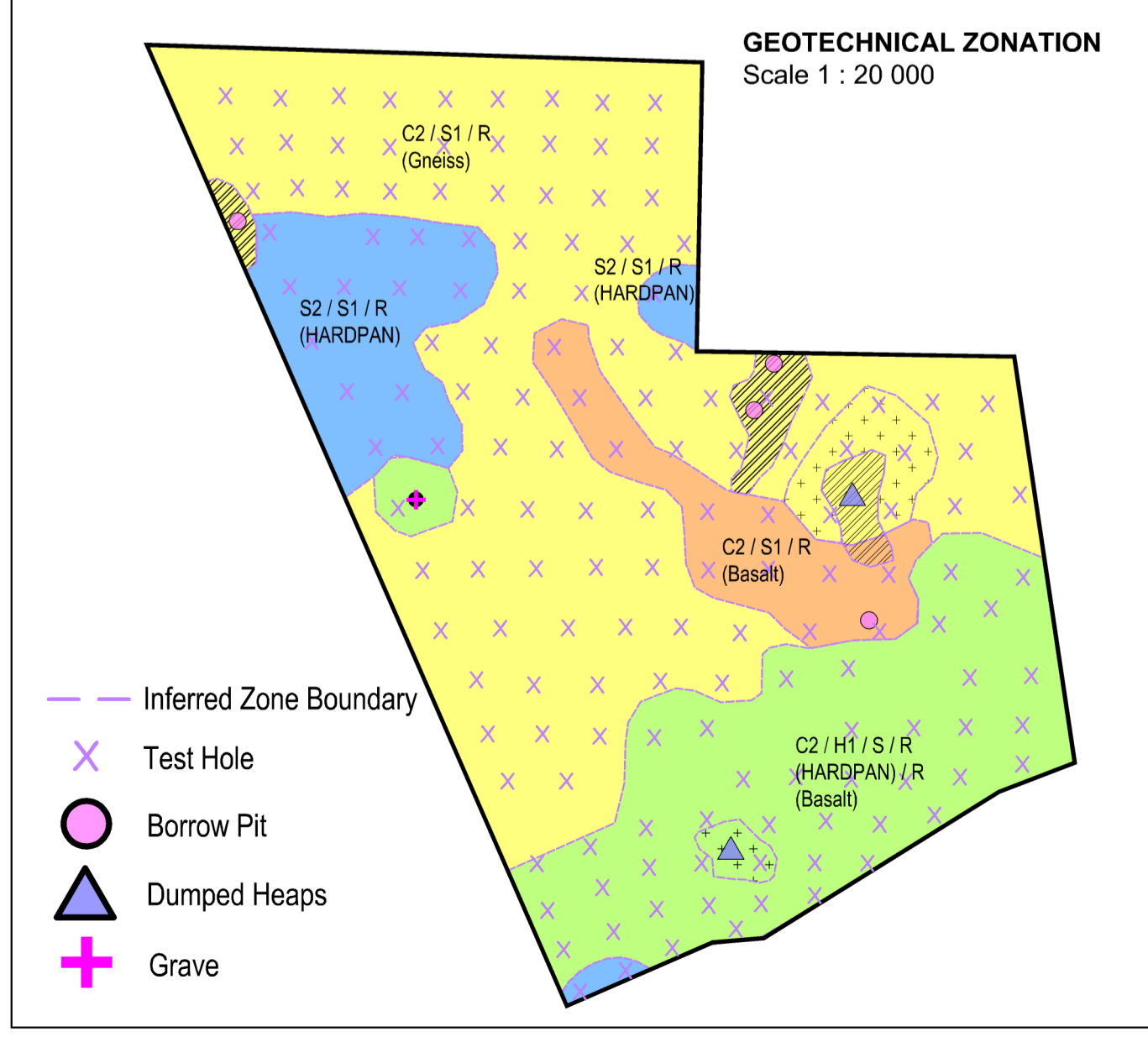


Geotechnical Report
Compiled by:
Geo Simplicity Geotechnical Engineering (Pty) Ltd
1 Killoran place
Bedfordview
2007
Tel: 083 601 5189

- NOTES:**
1. Demarcation of zones is approximate and should be confirmed during construction.
 2. Refer to text of report for detailed foundation recommendations.
 3. Site class designation:

Geotechnical Zone:	Description:
Zone C2 / S1 / R (Gneiss)	Potentially collapsible fine to medium grained silty SAND, Aeolian transported, fine to medium grained silty SAND, underlain by a variable pebbles marker transported horizon, predominantly competent partly developed calcrete (combined partly ferruginous over the upper reaches in places), predominantly competent reworked residual gneiss, competent residual gneiss and gneiss bedrock with depth.
Zone S2 / S1 / R (HARDPAN)	Massive, fine to medium grained silty SAND, alluvium transported, underlain by a predominantly competent partly developed calcrete, pedogenic grading into a competent fully developed hardpan calcrete, pedogenic in places within TLB reach.
Zone C2 / S1 / R (Basalt)	Potentially collapsible fine to medium grained silty SAND, Aeolian transported, fine to medium grained silty SAND, underlain by a variable pebbles marker transported horizon, predominantly competent partly developed ferricrete, pedogenic, competent residual basalt and basalt bedrock with depth.
Zone C2 / H1 / S / R (HARDPAN) / R (Basalt)	Potentially expansive sandy and silty CLAY, alluvium transported, underlain by a predominantly competent partly developed calcrete, pedogenic grading into a competent fully developed hardpan calcrete, pedogenic or basalt bedrock within TLB reach.



LEGEND

PROPOSED ZONING	PROPOSED LAND USE	NO. OF ERVEN	ERF NO.	AREA - ha	COV.
Residential 1 A	Residential Stands (Average 300m ² - 400m ²)	2334	10195-10216; 10218-10248; 10248-10265; 10267-10282; 10284-10291; 10293-10304; 10307-10321; 10324-10362	85.5356ha	17.75%
	Residential Stands (Average 500m ² - 600m ²)	763	10364-10385; 10387-10395; 10397-10405; 10407-10415; 10417-10424; 10426-10433	41.9092ha	8.70%
	Residential Stands (Average 600m ² - 800m ²)	360	10336-10347; 10349-10358; 10360-10369; 10371-10380; 10382-10391; 10393-10396; 10398-10402	26.7053ha	5.54%
Residential 3	Residential Stands (Average 800m ² - 1000m ²)	366	10896-10897; 10899-11018; 11020-11441; 11443-11294	34.7679ha	7.22%
	Medium Density 80units/ha	15	11351-11353; 11355-11364; 11558; 11565	41.3116ha	8.57%
Municipal	Community Facility	1	11562	0.4454ha	0.09%
	Cemetery	4	10217; 10656; 10770; 11354	2.5273ha	0.52%
Business 2	Business	6	11369-11370; 11559-11561; 12005	3.7409ha	0.78%
Special	Mixed land uses	37	11365-11368; 11380; 11385-11392; 11395-11403; 11406-11412; 11421-11423; 11426-11431	15.0573ha	3.13%
Industrial 2	Light Industrial	29	10371-10375; 10381-10385; 10389-10394; 10413-10420; 10428-10429; 10432	11.0068ha	2.28%
Institutional	Clinic	1	12723	0.9517ha	0.20%
	Primary School	2	11564; 12722	7.7388ha	1.61%
	Secondary School	1	11563	4.8006ha	1.00%
	Creche	7	10247; 10612; 10670; 10988; 11142; 12006; 13962	1.7080ha	0.35%
Transportation	Church	4	10366; 10374; 11294; 14127	1.1546ha	0.24%
	Station	1	10548	2.1752ha	0.45%
Public Open Space	Public Open Space	35	14128-14162	104.1665ha	21.62%
Recreational	Sports Field	1	11019	16.2862ha	3.38%
Streets				79.8250ha	16.57%
TOTAL				3967	481.8139ha

STREETS

RESERVE WIDTH	LENGTH IN METER	% OF STREET LENGTH
6m Street	62m	0.10%
10m Street	29 682m	50.00%
13m Street	10 385m	17.34%
16m Street	11 506m	19.22%
20m Street	7 114m	11.68%
25m Street	1 115m	1.66%
TOTAL	59 864m	100%

1 : 100 YEAR FLOODLINE

It is hereby certified in terms of the provisions of Section 144 of the National Water Act 1998 (Act No.36 of 1998) that the lines shown on this drawing indicate the maximum extent of inundation likely on an average every hundred years by the flood waters from the natural catchment (as determined using present topography).

DESIGN OF TOWN LAYOUT

Maxim Planning Solutions (Pty) Ltd
C. Grobbelaar Pr. Pin A/101/1985
D.J. Bos Pr. Pin A/384/1985
Tel. (018) 468 6366

CONTOURS

The contour survey is in accordance with the standards laid down by the Regulations relating to Township Establishment and Land Use.

Contour Mapping by:
Bigen Africa Services (Pty) Ltd
P.O. Box 373
Mhakeneng
2745
Tel: (018) 386 2111

PR ENGINEER

It is hereby certified that the town layout complies with the conditions and recommendations as stated in the Geotechnical Report.

PR ENGINEER

- NOTES:**
- 1) The figure A-B-C-D-E-F-G-H-J-K-A represents the proposed township Mahikeng Extension 40.
 - 2) The lines tt-uu; vv-ww and xx-yy represents a 20m building restriction measured from the reserve boundary of Road N18.
 - 3) No ingress or egress along the line(s) lettered a-b-c; d-e-f-g-h-j; k-l-m-E; n-o; p-q; r-s-t-u; v-w-x-y-z-aa-bb; cc-dd-ee; ff-gg-hh; i-j-k-k; ll; mm-nn-oo and pp-qq-r-r-s-s as indicated on the layout plan
 - 4) 9m Building Restriction on both sides of the centre line of the power line indicated by the line(s) lettered z-z-yy as indicated on the layout plan
- SERVITUDE NOTES:**
- 1) The figure EE-FF-GG-HH represents a powerline servitude vide Diagram SG No. 1186/2008 - To be cancelled
 - 2) The line AA-BB represents the centre line of a proposed Eskom powerline servitude 22m wide - To be registered
 - 3) The line CC-DD represents the centre line of a proposed Eskom powerline servitude 22m wide - To be registered

PROPOSED TOWNSHIP MAHIKENG EXTENSION 40

240m 180m 120m 60m 0 300m

SCALE 1 : 6000

1cm = 60m

The proposed town is situated on Portion 54 of the farm Mmabatho Town and Townlands No. 301-JO

MAHIKENG LOCAL MUNICIPALITY NORTH WEST PROVINCE

Drawing Compiled by : C. Cloete
Tel (014) 592-9489
Fax (014) 594-2061
koot@maxim.co.za

Drawings Nr. : 8-71-9

Date : 2022/09/20

Revision : 0

MAXIM
planning solutions
ACCREDITED TOWN AND REGIONAL PLANNERS

SERVIER\Maxim\PROJECTS\8-25-48-RS
Mahikeng Precinct Plan - Pin 54\Maps\CAD