

ANNEXURE 1

MAP OF THE MALAPA SITE

870/2012/50
DPT/tp
Wits / Nash v20 FINAL
2/8/2013



Handwritten signature and initials, possibly reading "Wits" and "Nash".

Aerial Map of the Malapa Site.

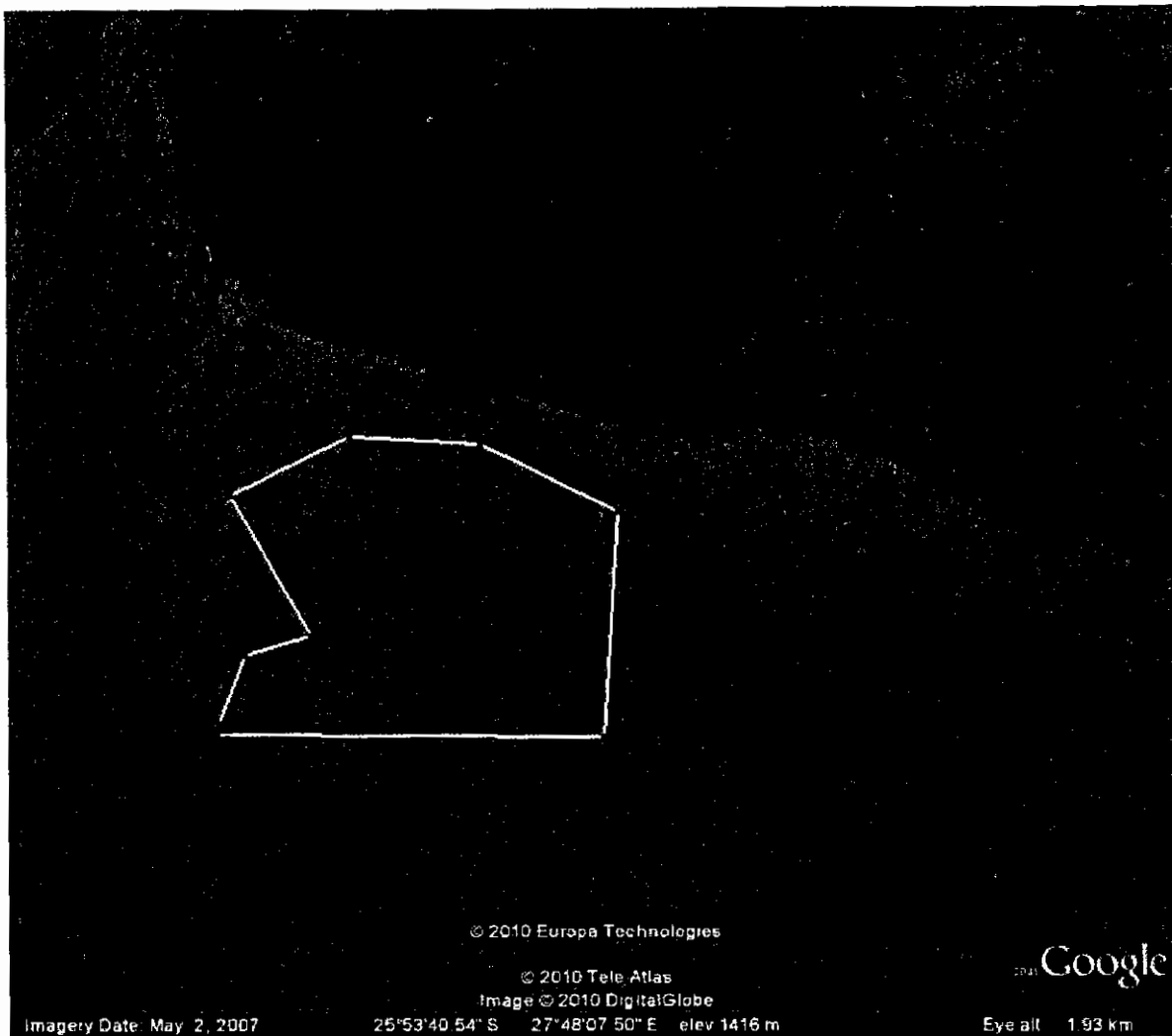


Figure 1 –The Malapa site. GPS coordinates for red dots are as follows, beginning in the extreme western edge of the area and proceeding clockwise:

25 53 43.74S; 27 47 59.75E

25 53 42.07S; 27 48 00.90E

25 53 41.87S; 27 48 02.16E

25 53 39.32S; 27 48 00.74E

25 53 38.52S; 27 48 03.11E

25 53 38.99S; 27 48 05.56E

25 53 40.39S; 27 48 07.97E

25 53 44.03S; 27 48 07.25E

Handwritten signature:
Tom Smith

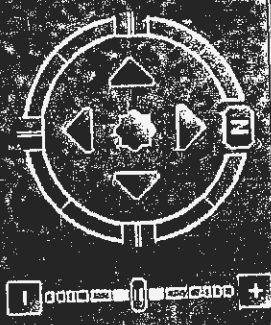
ANNEXURE 2

MAP OF THE GLADYSVALE SITE

870/2012/50
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Wits / Nash v20 FINAL
2/8/2013



Handwritten signature and initials, possibly reading "an pm" and "Fou amst".



zur
Trenn

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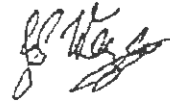
PROCLAMATION DIAGRAM

REGISTRATION COPY

SIDES metres	ANGLES OF DIRECTION	CO-ORDINATES	
		Y	X
		Constants	+0, 00 +2 800 000, 00
A B	218, 75	314.59.40	A -77 415, 72 +65 369, 15
B C	106, 15	33.45.10	B -77 570, 41 +65 523, 81
C D	233, 22	120.29.20	C -77 511, 43 +65 612, 06
D A	163, 10	220.11.30	D -77 310, 46 +65 493, 73

SG No.
2296/2004

Approved



J.S. WEYERS
for

SURVEYOR-
GENERAL

2004-04-16

TRIGONOMETRICAL BEACONS

BRIT 83	123 Δ	-86 245, 57	+55 867, 43
BRIT 87	299 Δ	-80 098, 13	+68 249, 49

BEACON DESCRIPTIONS
A, B, C, D .. 20mm iron peg

GLADYSVALE PALAEOANTHROPOLOGICAL SITE

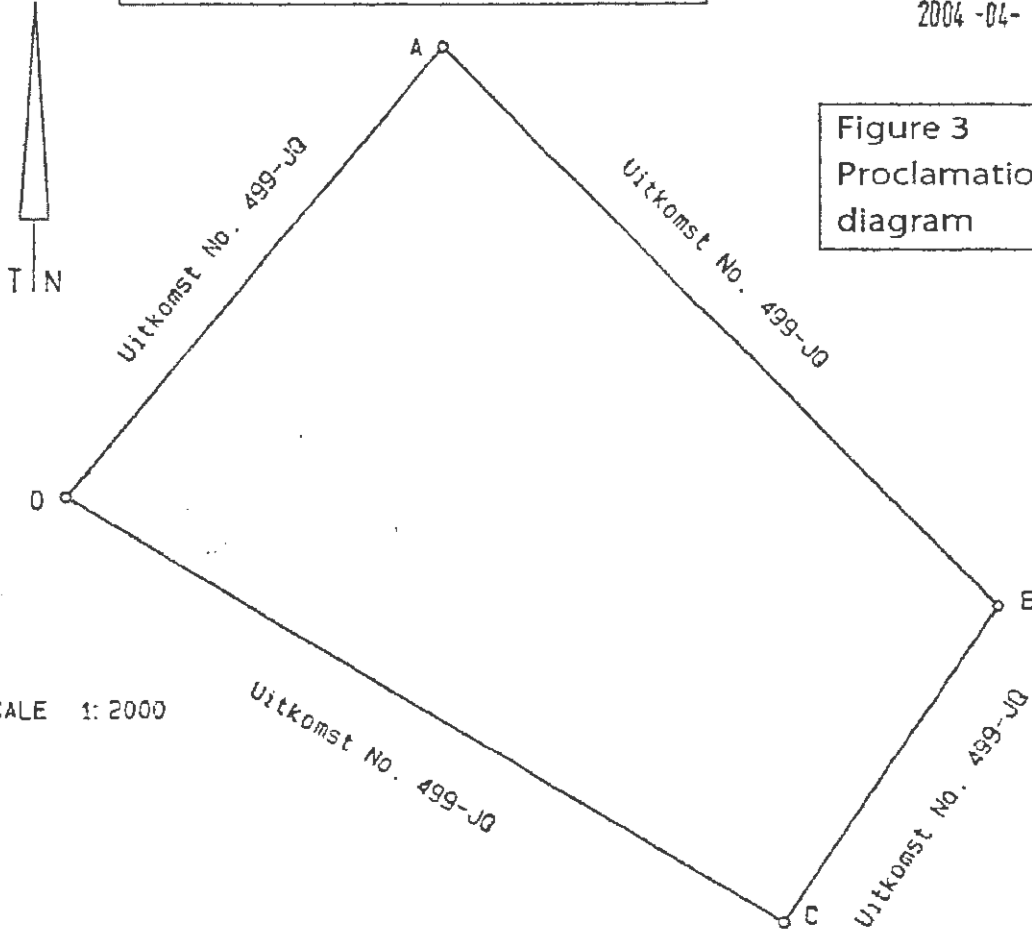


Figure 3
Proclamation
diagram

SCALE 1:2000

The figure A B C D A
represents 3,0134 hectares of land being
a declared area over the farm UITKOMST No. 499-JQ

Province of Gauteng

Framed for National Heritage Site declaration purposes in terms
of the National Heritage Resources Act No 25 of 1999

Surveyed in January 2004

by me P.H. KCHRS

Professional Land Surveyor PLS0314

This diagram is annexed to

No.

d.d.

i.f.d.

PTA
Registrar of deeds

The original diagram is

No. A 1764/1909

Transfer
DB 376/4
Grant

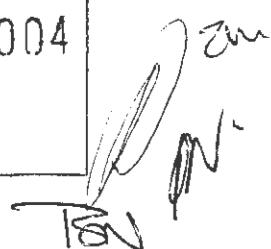
C.C.T.

File JQ - 499

S.R. No. **922/2004**

T.P.

Comp. JQST - 44

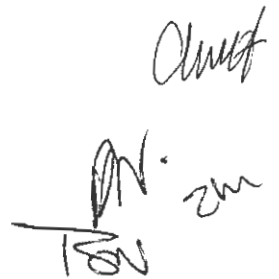



ANNEXURE 3

MAP OF THE ACCESS ROUTE TO MALAPA AND GLADYSVALE SITES



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2/8/2013

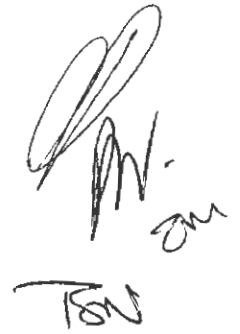


Access to Malapa

Annexure 3 – Access to Malapa and Gladysvale sites.

Annexure 4 - Parking areas at the Malapa site.

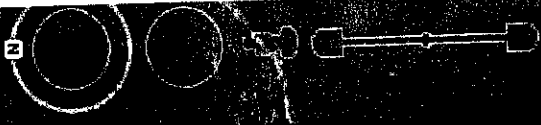
Access to both sites will be on existing roads and originate through the Malapa nature reserve from the Kromdraai Road at 25°55'53.34"S, 27°49'37.64"E (marked "Entrance"). The route to Malapa is indicated as a red track. The divergence to Gladysvale (marked as a yellow track) is at 25°54'26.24"S, 27°47'53.56"E. The site of Malapa is located at 25°53'42.01"S, 27°48'3.32"E; the site of Gladysvale is located at . Parking A (Annexure 4) at Malapa is located at 25°53'42.14"S, 27°48'3.26"E; Parking B is located at 25°53'44.11"S, 27°47'59.18"E.



Handwritten signature and initials, possibly reading "M. on" and "TON".

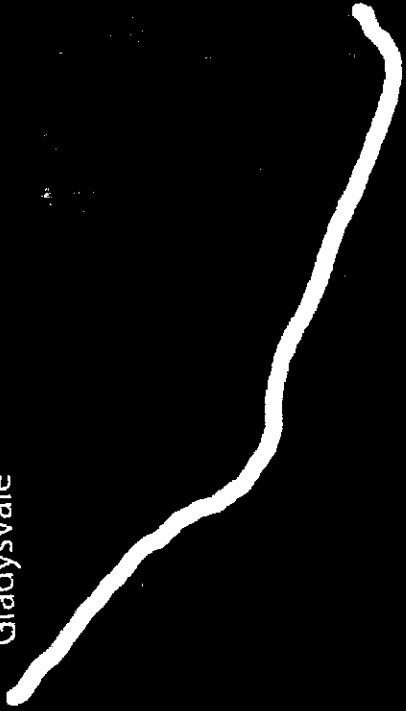


Handwritten signature, possibly reading "Almy".



Malapa

Gladysvale



Entrance

Google earth

Eye alt 8.34 km

© 2013 AirGIS (Pty) Ltd
© 2013 Google
Image © 2013 GeoEye

25°54'51.31" S 27°47'47.41" E elev 1521 m

Imagery Date: 12/9/2012 2004

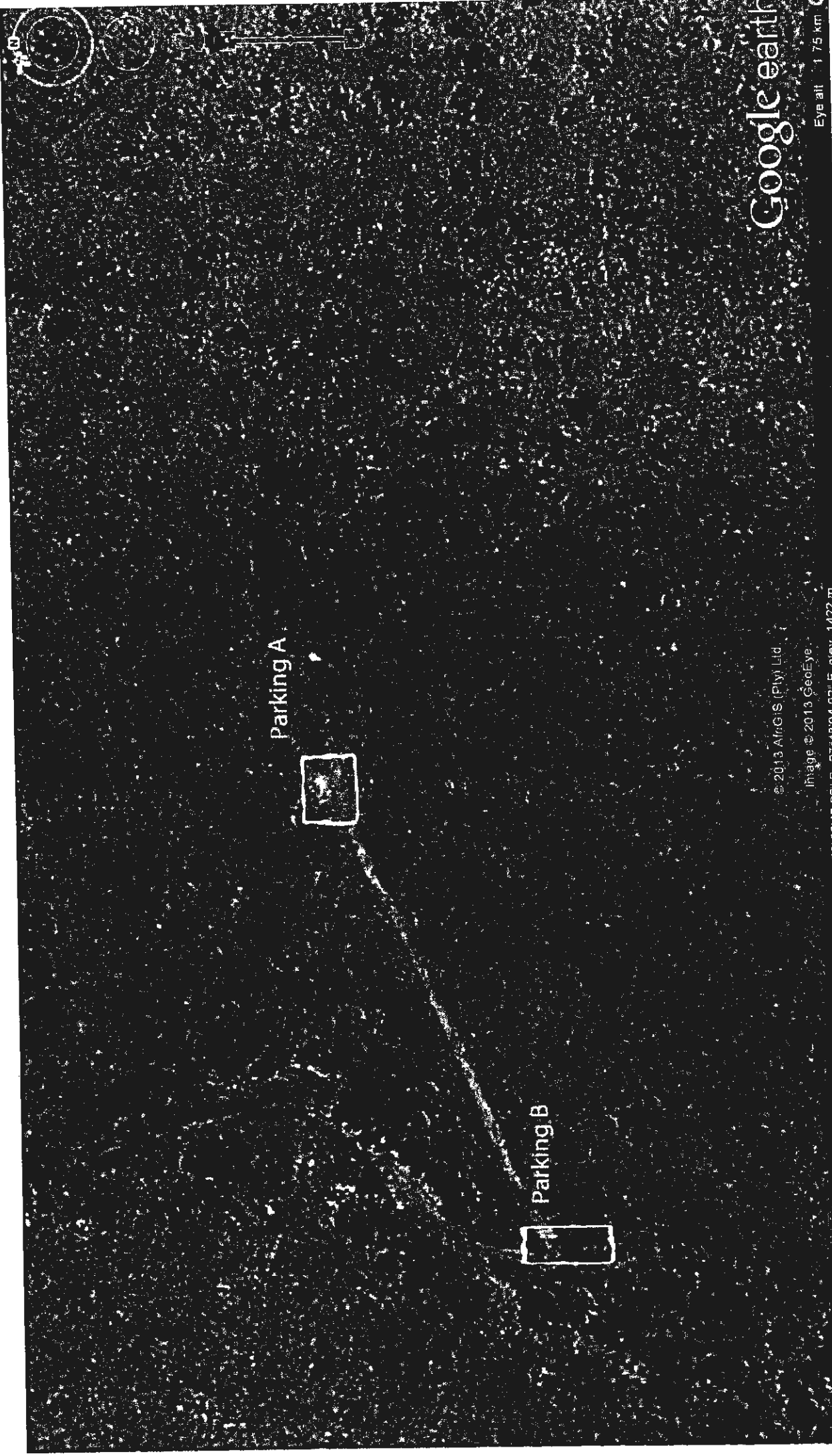
Handwritten signatures and initials:
CMT
2012
M
[Signature]

ANNEXURE 4

PERMITTED PARKING AREAS

870/2012/50
DPT/lp
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2/8/2013

TSN
W. W
Amst



Google earth

Eye alt 1.75 km

Parking A

Parking B

© 2013 AirCIS (Pty) Ltd

Image © 2013 GeoEye

25°53'42.92" S 27°48'04.02" E elev 1422 m

imagery Date: 12/9/2012 2004

Handwritten signatures and initials:
A large scribble at the top.
Below it, the letters "KOV".
Below that, "D.V." and "2012".
At the bottom, another large scribble.

ANNEXURE 5

WAIVER AND CONFIRMATION FORM

I, (Full name) _____

hereby irrevocably and unconditionally confirm and agree in favour of Malapa Nature Reserve (Pty) Ltd and John Nash Nature Reserve (Pty) Ltd (jointly referred to as "**the Landowner**") that –

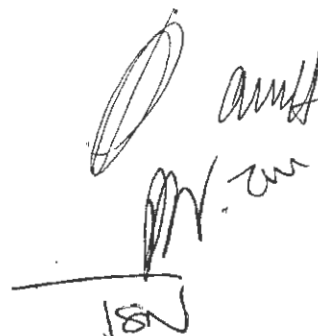
1. I understand that the Landowner has granted permission to the University of the Witwatersrand, Johannesburg ("the University")
 - 1.1 to conduct certain scientific and educational activities ("Permitted Activities") in respect of the the paleontological site currently under excavation permit No. 80/08/09/001/51 from the South African Heritage Resources Agency held by scientists employed by the University located at approximately S25.29486, E27.80145 ("**Malapa Site**") and the National Heritage Site declared in terms of section 27 of the National Heritage Resources Act 25 of 1999 known as Gladysvale Fossil Site, situated on Portion 1 of the Farm Uitkomst 499 JQ, on the John Nash Nature Reserve, Cradle of Humankind South Africa, located at approximately 25 53 44.06S, 46 22 27E ("**Gladysvale Site**") which Permitted Activities are to be conducted strictly in accordance with the terms and conditions of the written agreement between the Landowner and the University entered into for this purpose; and
 - 1.2 to obtain access to the Malapa Site and the Gladysvale Site using specifically defined access roads over the properties belonging to the Landowner ("the Properties");
2. I have been permitted access to the Malapa Site and / or Gladysvale Site and one or more of the Properties by the University and the Landowner;

Handwritten signature and initials in black ink, including a large stylized signature and the letters 'AMH' and '18/2/13'.

3. the Landowner shall be entitled on reasonable grounds to require that I depart from the Properties at any time;
4. I shall adhere to the instructions of the Responsible Persons at all times, including (without limitation) that I will remain within the areas of the Malapa Site and/or Gladysvale Site as instructed to me by the Responsible Persons;
5. I will not have any ownership or other rights in respect of anything discovered on or underneath the Malapa Site and/or Gladysvale Site;
6. I have no claims, and I hereby waive any claims that I might otherwise have had, against the Landowner, its shareholders, directors, officers, employees, agents, responsible persons or otherwise whatsoever for any direct or consequential loss, liability, damage, cost (including legal costs on the scale as between attorney and own client and any additional legal costs), expense, claim, injury or death which I may suffer, whether directly or indirectly, in respect of and/or in connection with any event, matter, circumstance, occurrence or otherwise whatsoever relating to and/or in connection with my access to or presence on the Malapa Site and/or Gladysvale Site for any reason whatsoever.

Signed at _____ on _____ 201__

Signature: _____



Handwritten signatures and initials, including a large scribble, 'amf', 'M. van', and 'JBN'.

ANNEXURE 6

PERMIT

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2/8/2013


amf
rnr
TSU



**SOUTH AFRICAN HERITAGE
RESOURCES AGENCY**

111 HARRINGTON STREET, CAPE TOWN, 8000
PO BOX 4637, CAPE TOWN, 8000
TEL: (021) 462 4502 FAX: (021) 462 4509

9/2/233/0017

PERMIT Extension
No. 80/08/09/001/51

Issued under Section 35(4) of the National Heritage Resources Act, Act No. 25 of 1999. Permission is hereby given:

to: Professor LR Berger (ID: 65122250731 86) and Dr Job M Kibii,
of: the Institute for Human Evolution, University of the Witwatersrand, Private Bag 3, WITS 2050,
for: collection and excavation at a fossil hominin site on the John Nash Nature Reserve (Fossil Hominid Sites of Southern Africa), in order to understand the content and context of the fossil faunal remains from the site,
at: Malapa (formerly Gladysvale B), at approximately S25.29486, E27.80145, near the town of Brits,
in: the Krugersdorp District, Gauteng Province.

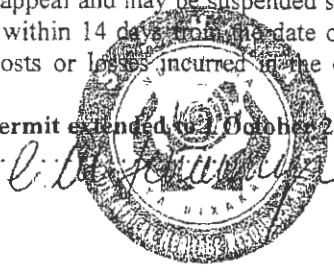
The following conditions apply:

1. If the permit holder is not to be present on the site at all times then SAHRA must be provided with the names and qualifications of the authorised representatives.
2. Adequate recording methods as specified in the Regulations and Guidelines pertaining to the National Heritage Resources Act must be used. Note that the position of all excavations must be marked on a plan of each site.
3. A standard site record form must be lodged with the National Cultural History Museum.
4. All material collected and excavated, as well as field notes and records, will be curated by the University of Witwatersrand.
5. A progress report must be submitted to SAHRA on or before 1 October 2009 and 1 October 2010 and a final report is due on or before 1 October 2011. SAHRA reserves the right to withhold further permits if progress is not deemed satisfactory.
6. Reprints of all published papers, or copies of theses or reports resulting from this work must be lodged with SAHRA.
7. If a published report has not appeared within three years of the lapsing of this permit, the report required in terms of the permit will be made available to researchers on request.
8. It is the responsibility of the permit holder to obtain permission from the landowner for each visit, and conditions of access imposed by the landowner must be observed.
9. It is the responsibility of the permit holder to fill in excavations and protect sites during and after excavation to the satisfaction of SAHRA and the landowner.
10. SAHRA shall not be liable for any losses, damages or injuries to persons or properties as a result of any activities in connection with this permit.
11. SAHRA reserves the right to cancel this permit by notice to the permit holder.
12. This permit is subject to a general appeal and may be suspended should an appeal against the decisions be received by SAHRA within 14 days from the date of the permit. SAHRA may not be held responsible for any costs or losses incurred in the event of the suspension or retraction of this permit.

This permit is valid until 1 October 2011. ~~Permit extended to 1 October 2014.~~

for CHIEF EXECUTIVE OFFICER

Date: 15 February 2012



Place: Cape Town

ANNEXURE 7

MALAPA SITE DEVELOPMENT PLAN

870/2012/50
DPT/fp
Wits / Nash v20 FINAL
2/8/2013



our client
TON
MN.



Framework proposal for the development of infrastructure around the Malapa Fossil Excavation site in the Cradle of Humankind

14 February 2013

Section 1: An overview of the proposed Malapa Infrastructure

1.1 Background

1.1.1 Malapa is a fossil-bearing cave located about 15 kilometres (9.3 mi) Northeast of the well-known South African hominid -bearing sites of Sterkfontein and Swartkrans and about 45 kilometers (28 mi) North-Northwest of the City of Johannesburg, South Africa. It is situated within the Cradle of Humankind World Heritage Site.

1.2.2 A cover is required to the Malapa excavations to enable the site to be worked. The excavation site needs to be accessible to the public and attractive to visitors.

2.1 Scope of Work

The works when completed may include:

- 1) An excavation site cover and viewing deck (tentacle structure)
- 2) A pedestrian walkway from the car park to the viewing deck
- 3) A car park
- 4) A boom gate for access control
- 5) A borehole water supply
- 6) A permanent electrical generator and power supply
- 7) A panning facility
- 8) Services building which includes toilets and storage areas
- 9) Site works

2.3 Phased approach

The current budget that is available for the project is R 4 973 807.86 including VAT. (Available project funds to date have amounted to R 5 833 039.00. Expenditure to date amounts to R R859 231.14)

Due to budgetary constraints, it is not possible to complete the entire project within the available funds. However, as the project unfolds and public interest is generated, additional funding will inevitably flow. As a result, the project will be developed in three phases as follows:

- **Phase One:** Complete tentacle steel structure, including trial assembly, roof covering, skylight, paint, fire resistant paint to legs, balustrading, rock anchors and trimming trees
- **Phase Two:** Decking to walkways, timber suspended walkways and handrail and water tanks

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- **Phase Three:** Service building, sieve structure, rainwater harvesting, steel retaining walls, waterproofing, parking

Phase 1 enables the site to be worked, Phase two allows the public access to view the work. Phase three completes the works and makes the site attractive to visitors.

The professional estimates for the completion of the construction costs of each of these phases including VAT are as follows:

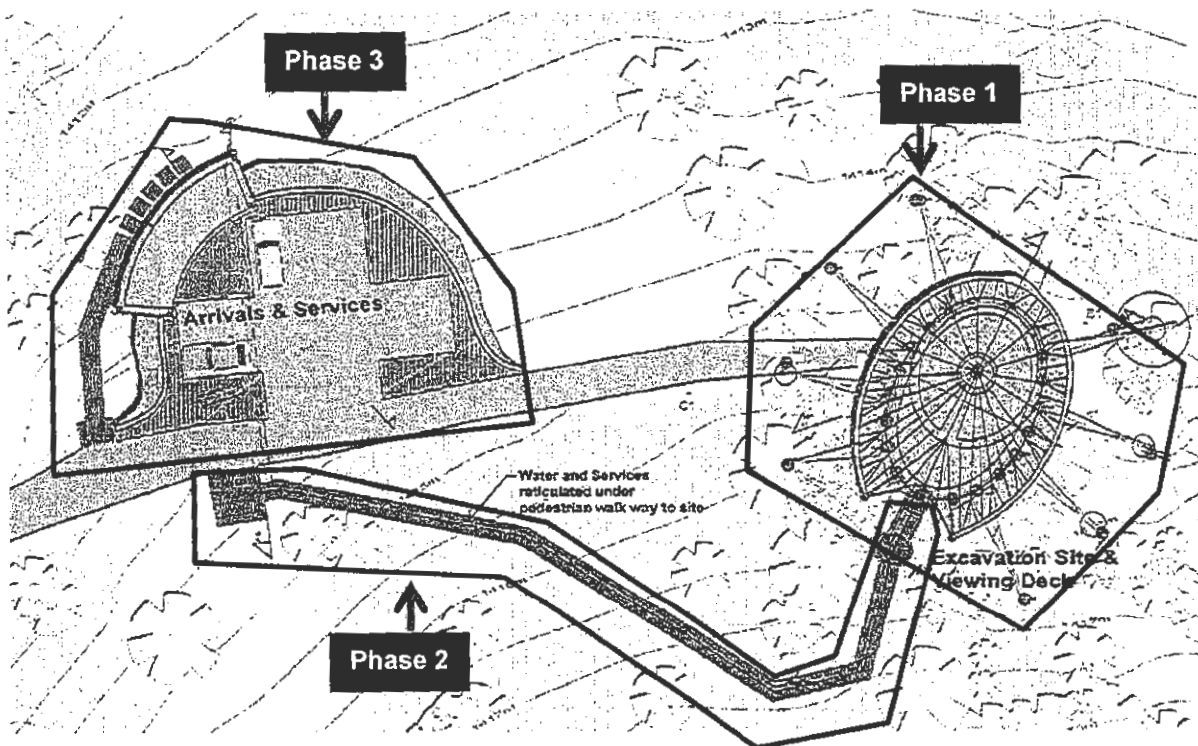
Phase 1: R 4 485 500

Phase 2: R 713 640

Phase 3: R 345 240

Estimated total construction costs including VAT to complete the project = R 8 964 960

Excluded from the cost estimate are electric fencing and security systems



2.4 Proposed contract

A framework agreement for a three year term in an amount not exceeding R10 million is proposed. This will enable package order to be issued to the same contractor as and when additional funding is made available. The only firm commitment that will be made to the contractor is for work associated with the first package order i.e. phase 1.

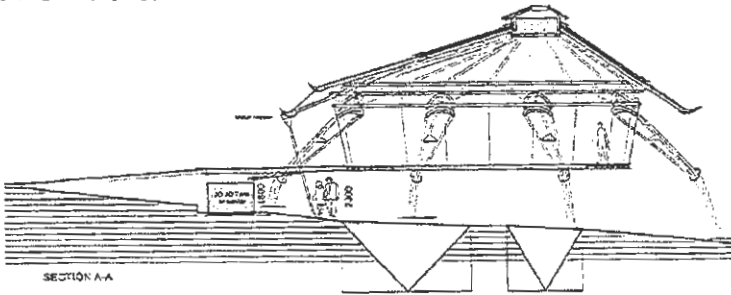
The NEC3 Engineering and Construction Short Contract will be used as the basis for the contract.

Given the highly environmentally sensitive nature of the site, it is imperative to have one contractor to undertake all the work associated with the site.

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 TON
 [Signature]
 [Signature]
 [Signature]

Section 3: Procurement process

The structure covering the excavation is in essence a one of a kind innovative structure with very little repetition. It is designed in such a manner that it can be moved as the excavation surface area changes – the tentacles can be moved and relocated. Furthermore the site is an environmentally sensitive one.



A structure of this type cannot be designed by a design team in a vacuum. It needs to be designed collaboratively with a specialist steel fabricator and erector from the outset. Given the international interest and the World Heritage Status of the site, the structure also needs to have high quality finishes and aesthetic appeal. The professional team accordingly scanned the market for a suitable partner to collaborate with them regarding the conceptualisation and development of the design of the structure. Omni Struct Nkosi (Pty)Ltd was found to be a suitable partner.

Omni Struct cc was established in June 1983. In 2005 a strategic decision was made to amalgamate with BEE company Nkosi Projects (Pty) Ltd and restructure the company. The company name was also changed to Omni Struct Nkosi (Pty) Ltd. (OSN). given its many and varied clients the confidence to trust it with their projects — time and again. OSN has over the years come to be respected not only for its ability to design and supply structural steel in its purest form, but also to design, innovate, propose and deliver on time high quality architectural and decorative structural steelwork. OSN has over the years received the following Southern African Institute of Steel Awards:

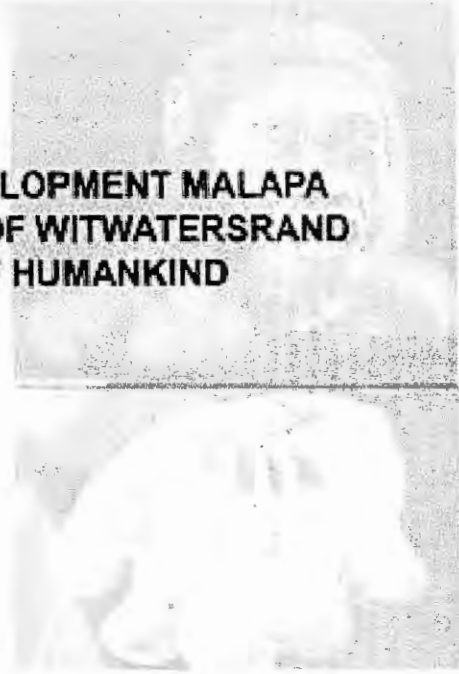
<u>Year</u>	<u>Award</u>	<u>Project</u>
2012	Winner – Bridge Category	Hanger Street Pedestrian Bridge
2011	Winner – Industrial and Mining category	Goldfields Headgear
2010	Winner – Bridge Category	7 th Avenue Bridge
2009	Winner – Tubular Steelwork	Melrose Arch
2008	Overall Winner – Structural Steelwork	Maponya Mall
2008	Category Winner – Tubular Steelwork	Maponya Mall
2007	Overall Winner – Tubular Application	Standard Bank Durban
2005	Special Mention – Tubular Structures	Standard Bank Skywalk
2005	Overall Winner – Excellence in Execution	The Innovation Hub
2005	Overall Winner – Structural Steelwork	Diamond Hill Plaza / N4 Toll Gates
2004	Overall Winner – Structural Steelwork	Cape Town Convention Centre
2004	Architectural Commendation – Steelwork	First Direct Call Centre
2003	Overall Winner – Architectural Steelwork	Sevens Furniture Store, Fourways
2002	Runner-Up – Fabrication & Erection	Vodacom Phase 3
2001	Overall Winner – Fabrication & Erection	Momentum Head Office
2001	Excellence in Tubular Application	Momentum Head Office

1999	Special Commendation – Fabrication	Phokeng Sports Stadium
1997	Special Commendation – Fabrication	Multichoice Africa – Head Office
1996	Special Commendation – Fabrication	Siemens Office Park – Staircase
1995	Runner-Up – Innovation	Glencross Swimming Pool Roof
1995	Overall Winner – Fabrication & Erection	Glencross Swimming Pool Roof
1994	Overall Winner – Fabrication	Standard Bank Core Branch
1990	Runner-Up – Architectural Fabrication	Cradock Heights, Rosebank

The negation process as provided for in the University's Construction procurement policy, processes, procedures, methods and delegations was applied.

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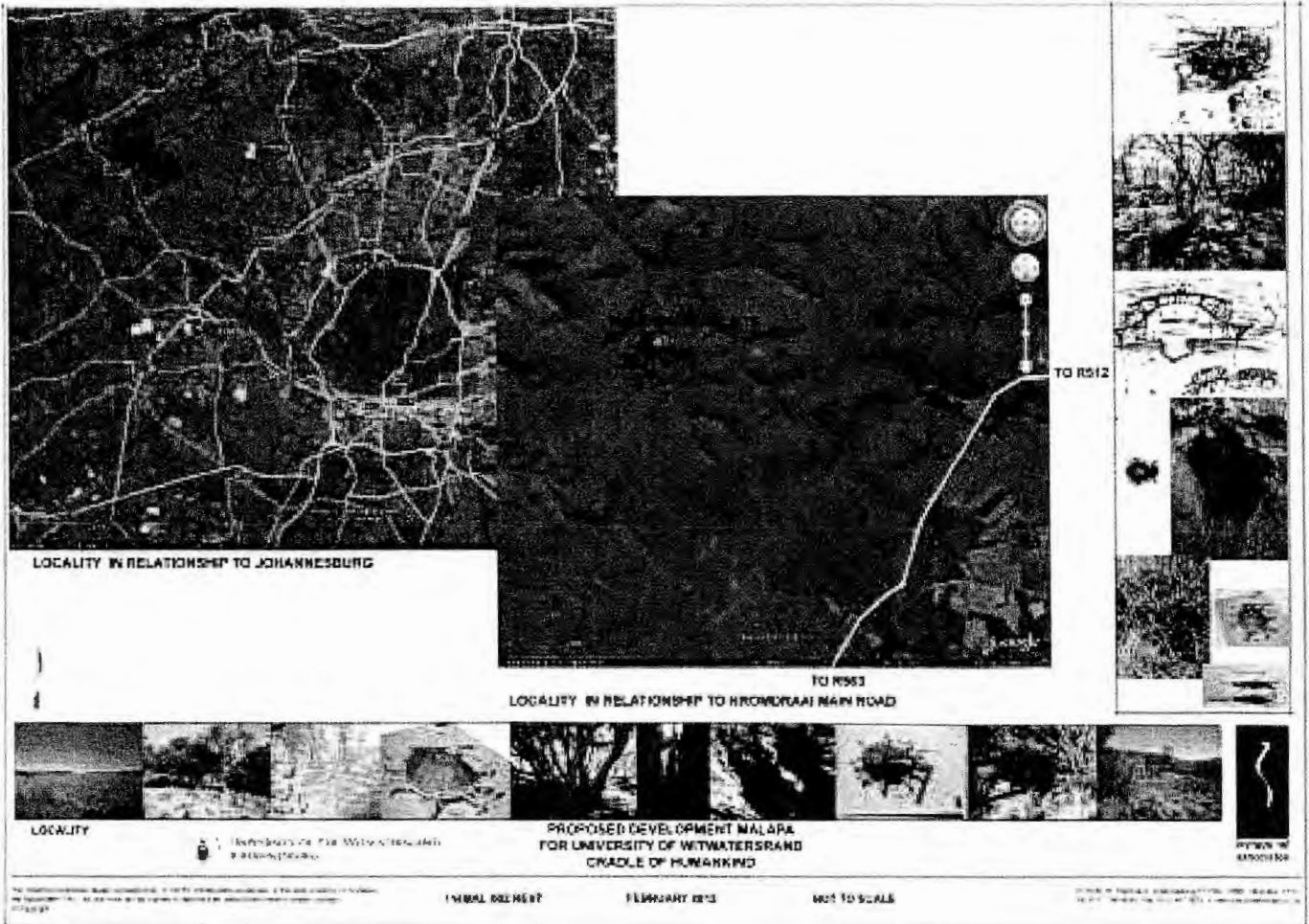
PROPOSED DEVELOPMENT MALAPA FOR UNIVERSITY OF WITWATERSRAND CRADLE OF HUMANKIND



UNIVERSITY OF WITWATERSRAND
PROPOSED DEVELOPMENT MALAPA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMANKIND

1998 FEBRUARY 2012 NOT TO SCALE

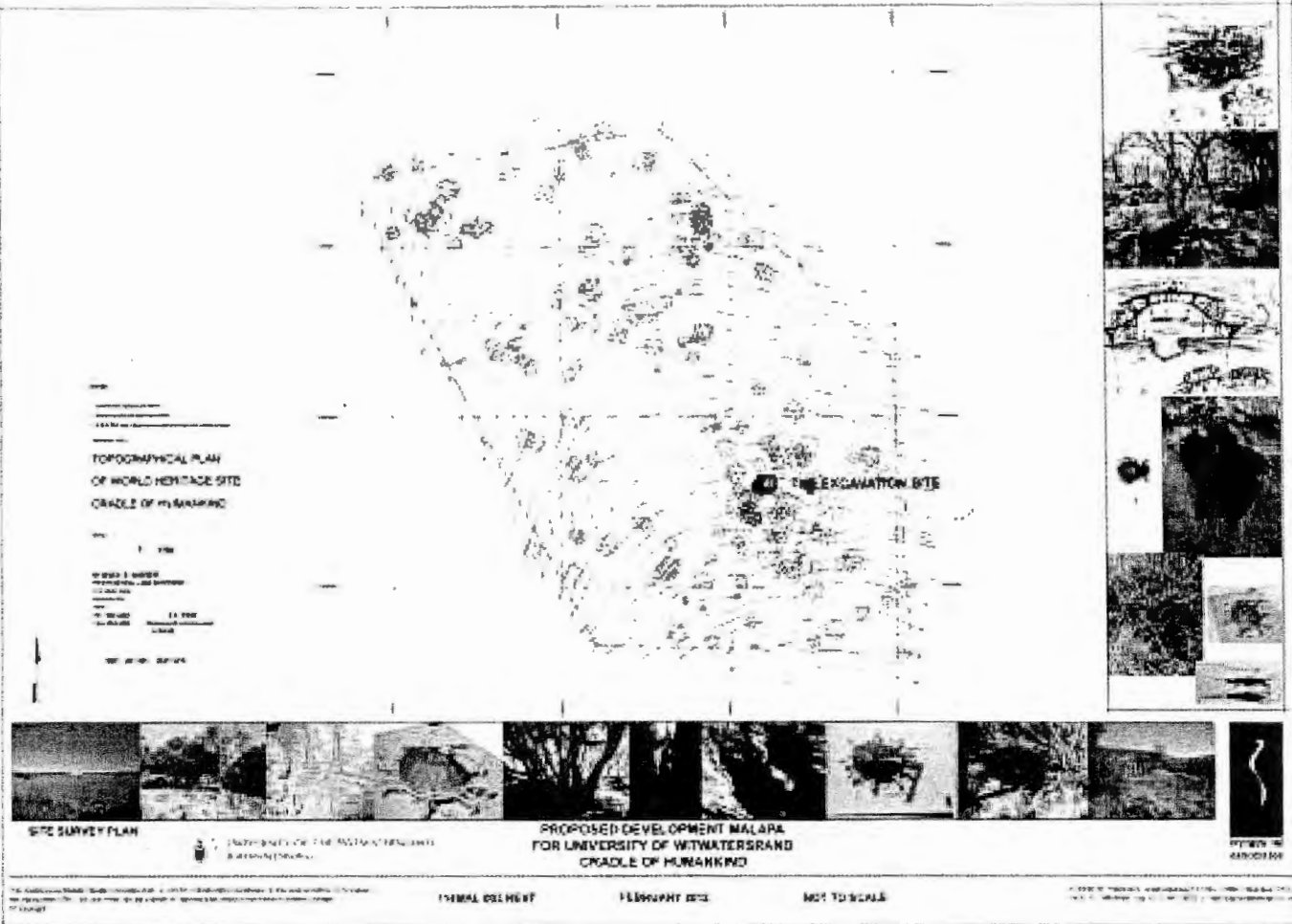
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13/02/13

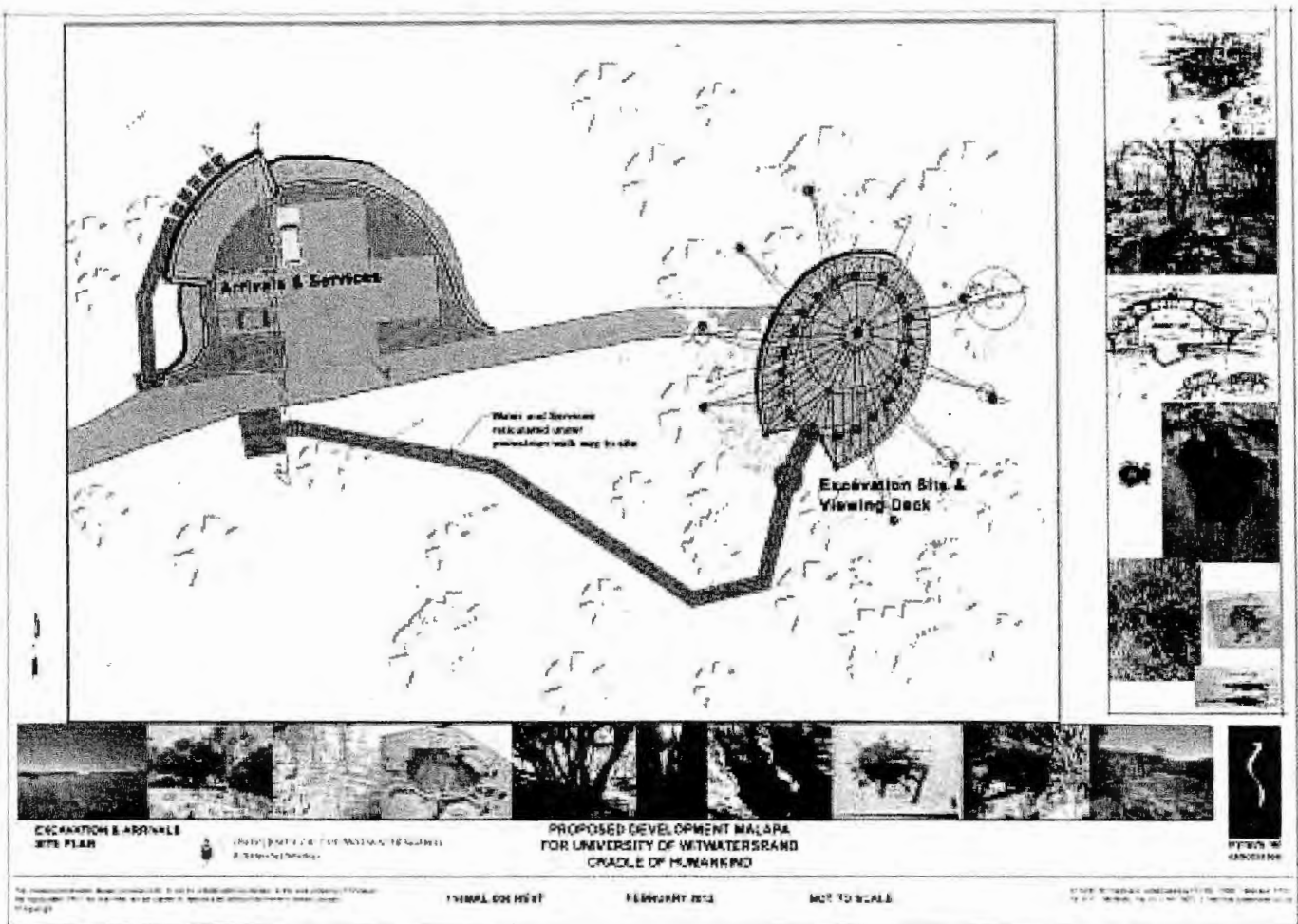
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 18/2



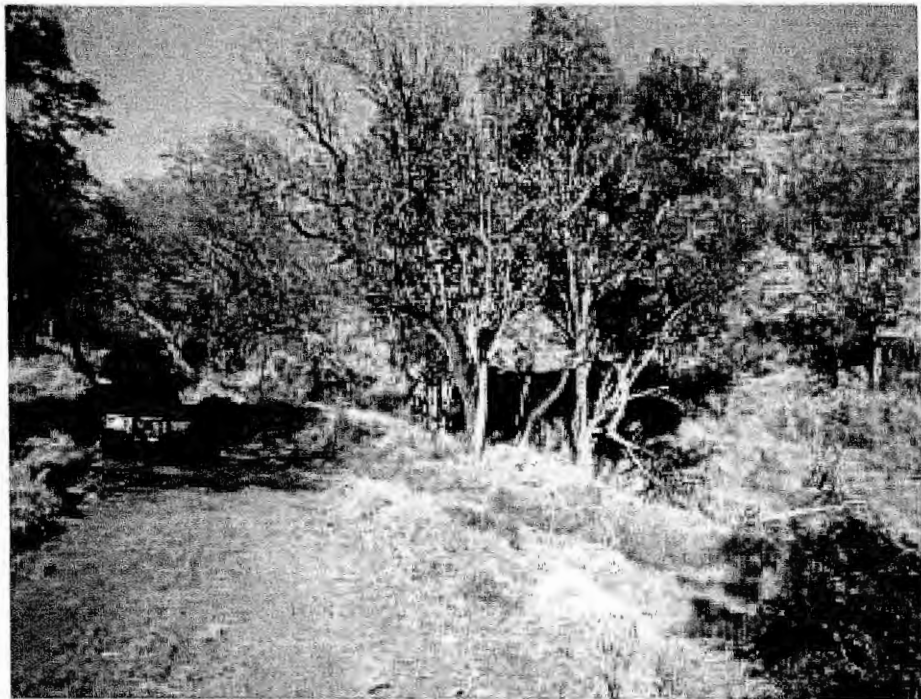
TSU

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THE UNIVERSITY OF WITWATERSRAND
 CRADLE OF HUMAN KIND
 MALAPA
 ARCHITECTURAL SITE PLAN
 FEBRUARY 2012
 NOT TO SCALE

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SITE PHOTO ARCHIVES

UNIVERSITY OF THE WITWATERSRAND
SCHOOL OF ARCHITECTURE

PROPOSED DEVELOPMENT MALAPA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMAN KIND

STUDIO DE ARCHITECTURE

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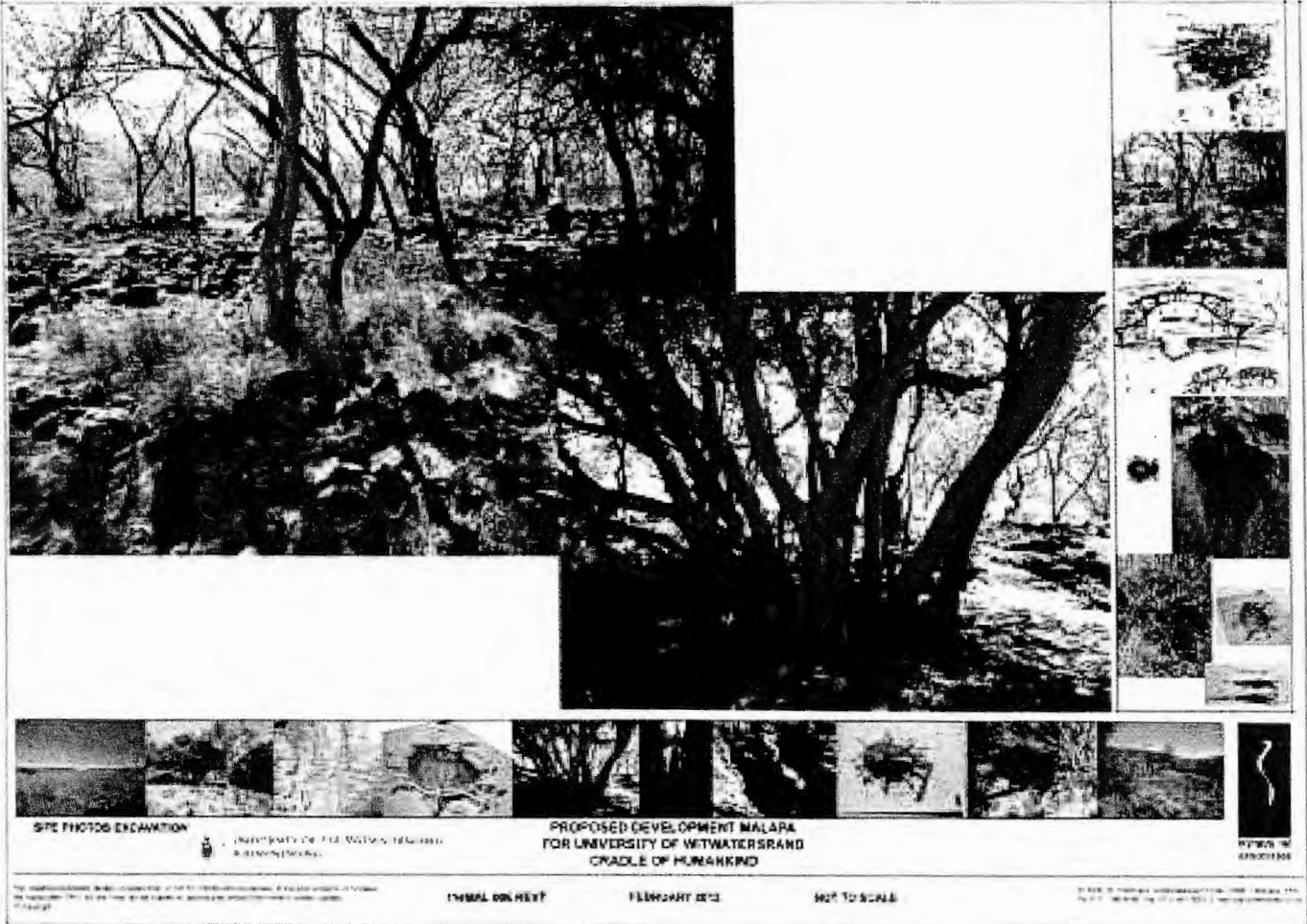
INTERNAL DOCUMENT

ELEMENTARY PLAN

NOT TO SCALE

1:1000 TO 1:50000 (VERTICAL SCALE) 1:1000 TO 1:50000 (HORIZONTAL SCALE) 2014

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 [Signature]
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 TSN



SITE PHOTO DOCUMENTATION

University of Witwatersrand
Johannesburg

PROPOSED DEVELOPMENT MALAPA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMAN KIND

PHOTO 10
07/02/2012

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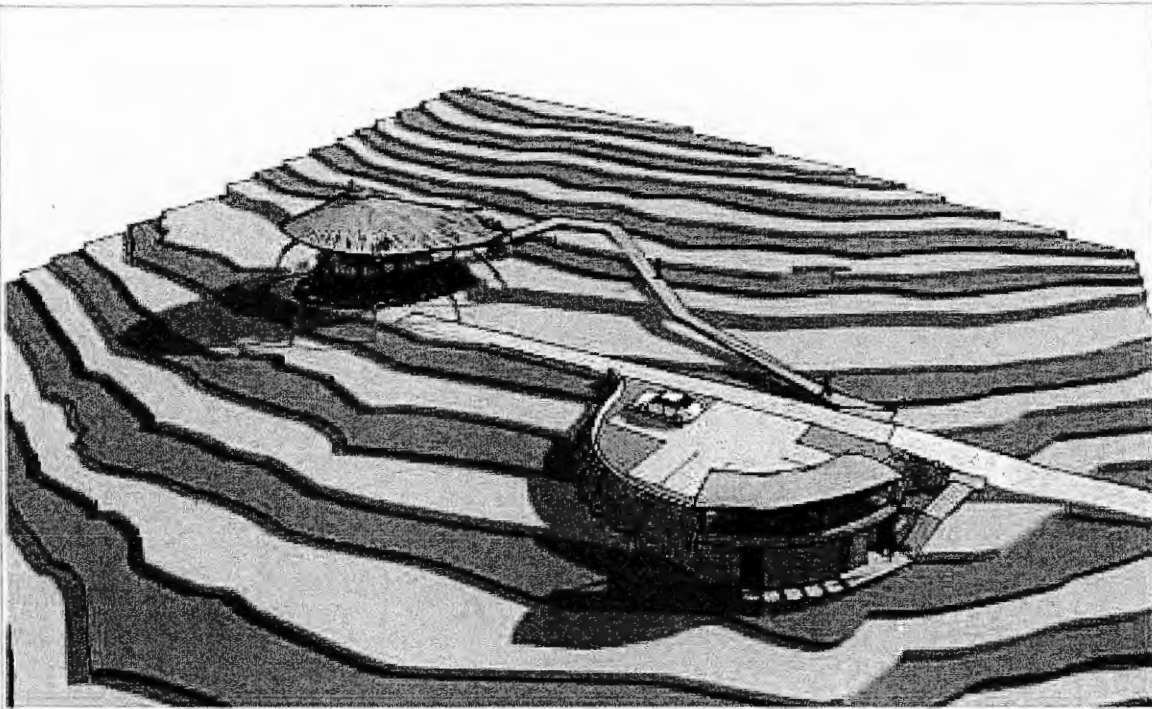
FINAL REPORT

FEBRUARY 2012

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EXCAVATION SITE 1-0-1
NO TREES

UNIVERSITY OF WITWATERSRAND
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PROPOSED DEVELOPMENT MALAPA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMANITY

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GENERAL SITE PLAN

FEBRUARY 2012

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M. AmH
ZM
15/11



CONSTRUCTION SITE 3-02
TREES

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PROPOSED DEVELOPMENT MALAKA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMANITY

PTW/01/01
ARCHITECTURE

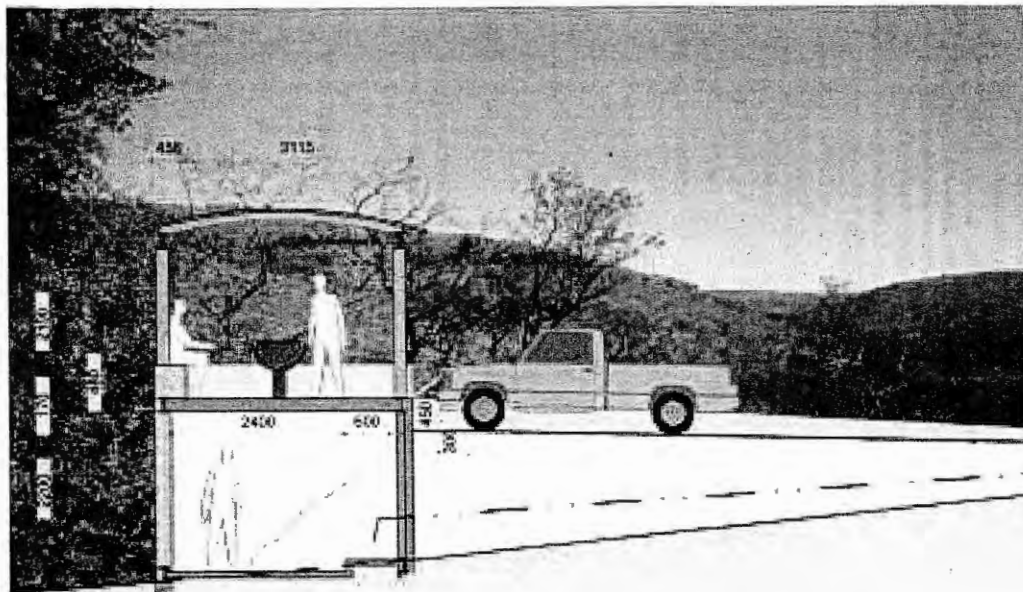
1:10000 SITE PLAN

FEBRUARY 1972

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 1972



SECTION



SECTION ARRIVALS AND SERVICES

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SCHOOL OF ARCHITECTURE

PROPOSED DEVELOPMENT MALAPA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMAN KIND

PIETRO DE ASSUNÇÃO

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.

FINAL SITE PLAN

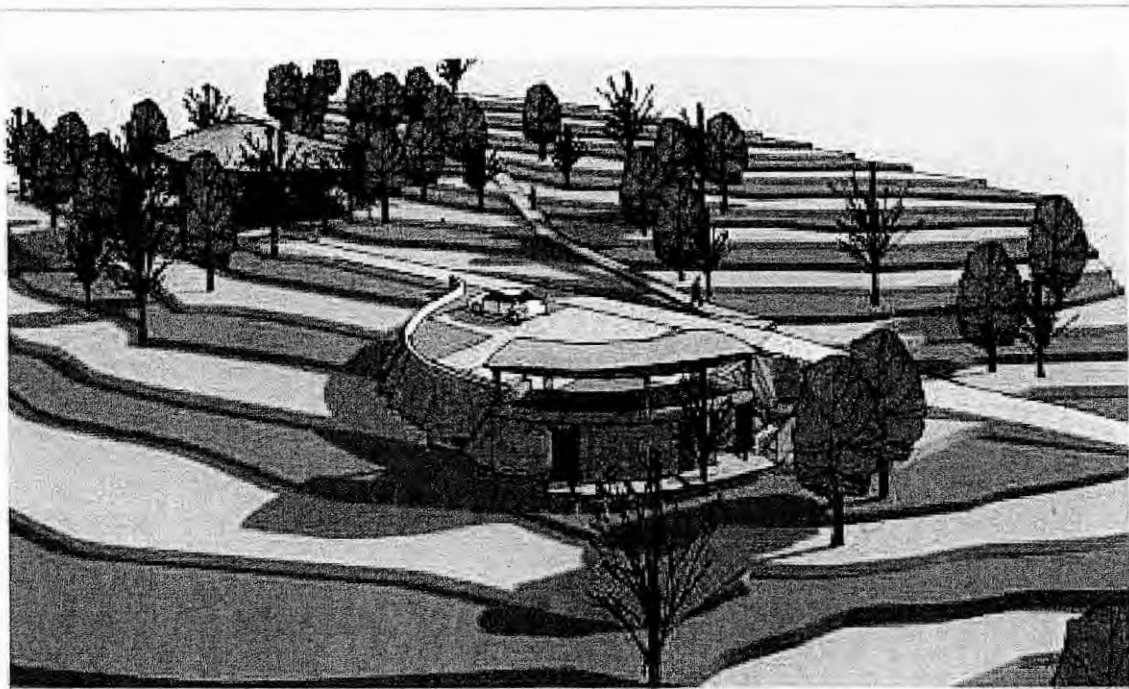
PERMITTED SITE

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Handwritten signature and initials:

 CMH
 TSN [unclear] 2011



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PROPOSED DEVELOPMENT MALAPA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMAN KIND

PT 2011
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SIDE ELEVATION



SECTION ELEVATION
DECK AND POOL

UNIVERSITY OF THE WITWATERSRAND
ARCHITECTURE

PROPOSED DEVELOPMENT MALAPA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMAN KIND

PIETER W.
KROONHOF

THE UNIVERSITY OF THE WITWATERSRAND ARCHITECTURE
1000 WILLOW DRIVE, SANDHURST, 2008
TEL: 011 261 9311 FAX: 011 261 9312

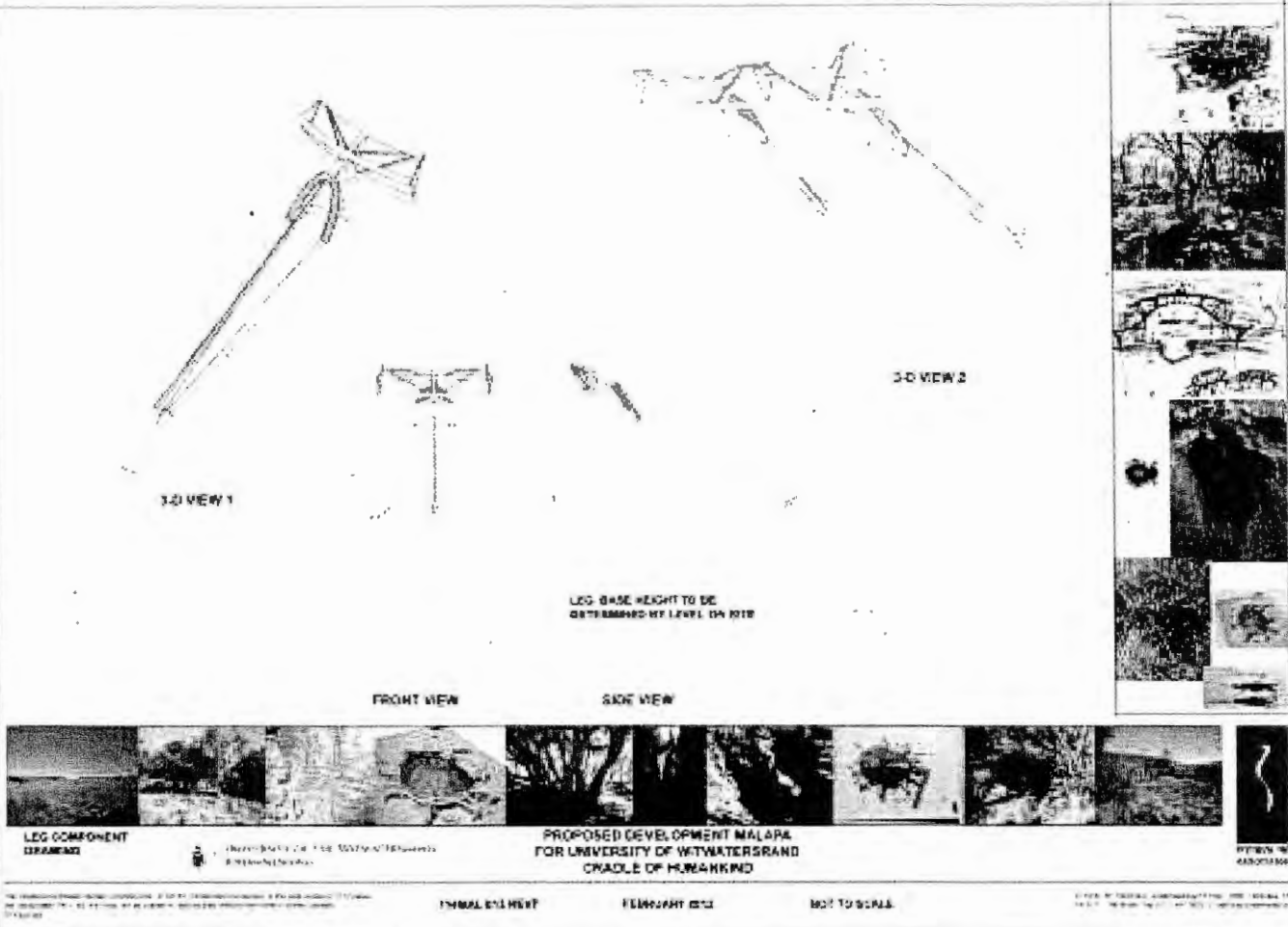
FINAL ELEVATION

ELEVATION 013

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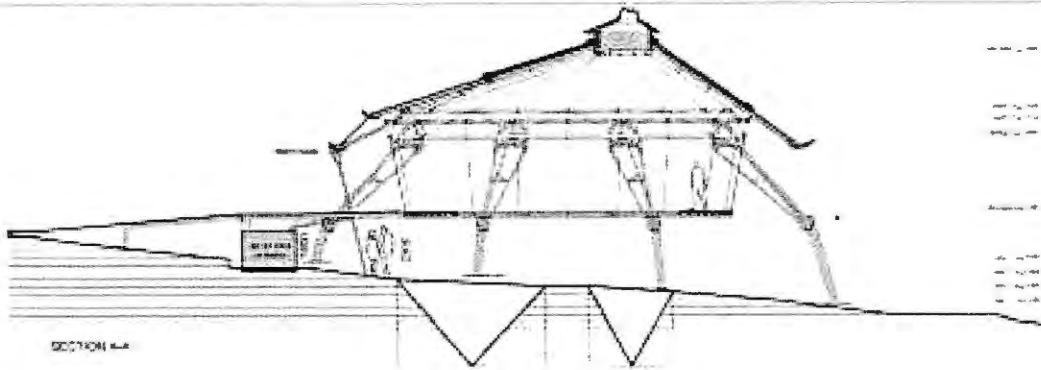
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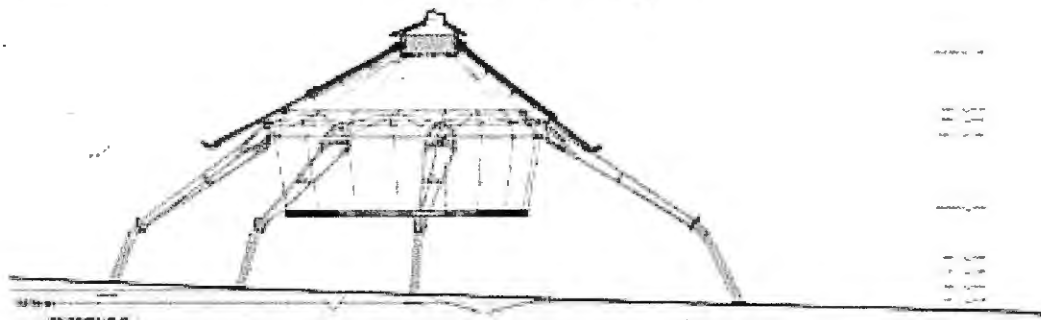
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SECTION A-A



SECTION B-B



EXCERPT SECTION

UNIVERSITY OF THE WITWATERSRAND
J. H. VAN DER MERWE

PROPOSED DEVELOPMENT MALAPA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMAN KIND

STUDIO 101
ARCHITECTS

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INTERNAL VIEW

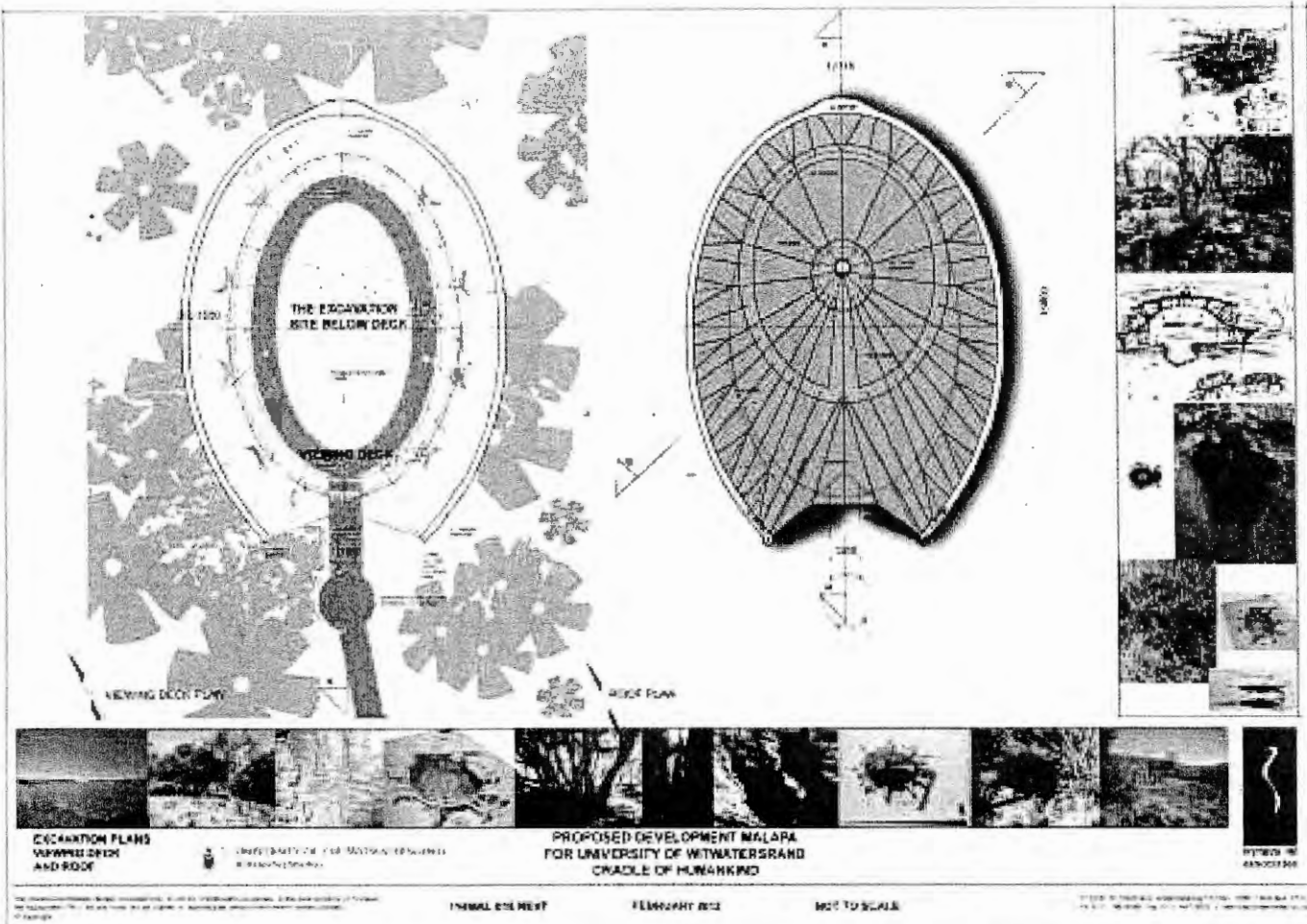
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EXCAVATION PLANS
VIEWING DECK
AND RIDGE

UNIVERSITY OF WITWATERSRAND
WITWATERSRAND

PROPOSED DEVELOPMENT MALAPA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMAN KIND

DATE: 10/10/2011
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CECANTION COVER 3-D

INVESTIGATION OF THE NATURAL FEATURES
AND LANDSCAPE

PROPOSED DEVELOPMENT MALAPA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMAN KIND

VIEW OF
LANDSCAPE

THE ARCHITECTURE OF THE UNIVERSITY OF WITWATERSRAND
AND THE UNIVERSITY OF WITWATERSRAND ARCHITECTURE DEPARTMENT
1997

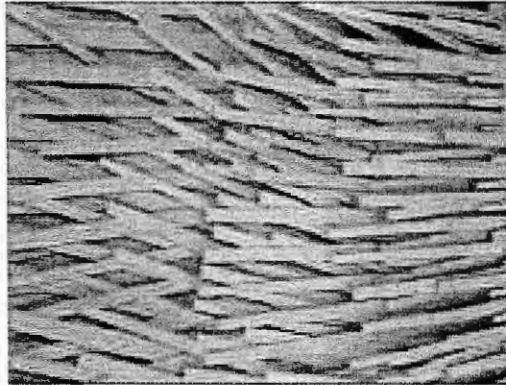
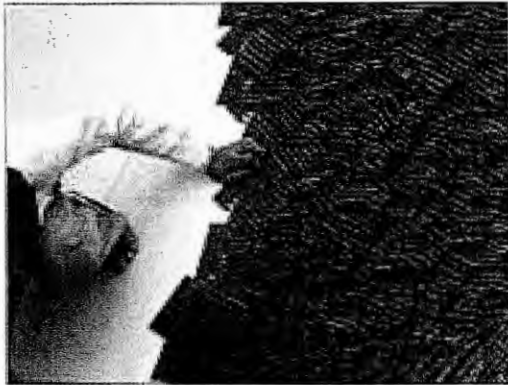
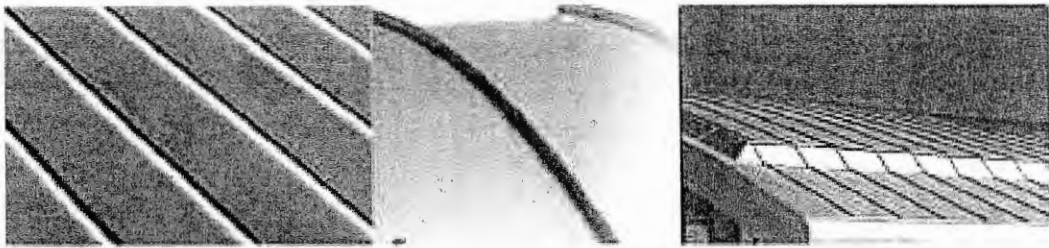
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1997

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EXCAVATION COVER
MATERIALS & FINISHES

UNIVERSITY OF WITWATERSRAND
ARCHITECTURE

PROPOSED DEVELOPMENT MALARA
FOR UNIVERSITY OF WITWATERSRAND
CRADLE OF HUMANITY

PROJECT NO.
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ANNEXURE 8

GLADYSVALE SITE STABILISATION PLAN

Gladysvale Rehabilitation Proposal December 2012

Prepared by Prof. LR Berger FRSSAf

Background to proposed rehabilitation

The Gladysvale site is one of the better known fossil bearing sites with scientific investigations dating back to the 1930's. Its history is well documented in a large body of scientific writing. It was proclaimed part of the World Heritage site at the time of proclamation and is a proclaimed National Heritage site. Excavations were conducted at the site during a number of periods including early work in the late 1940's. The most extensive investigations were conducted under the direction of LR Berger from 1991 until the early 21st Century. No significant excavations or activity has taken place in the last decade. It is therefore desirable and necessary that rehabilitation of the site from particularly these latter activities take place and to improve the visual impact on the landscape of these activities. To this end, the Cradle of Humankind World Heritage Site Management Authority as part of the Gauteng Provincial Government has made available a sum of money adequate to rehabilitate the site. This document outlines the various activities deemed necessary to take place and provides specifics as to how these activities will take place.

General

All activities mentioned will be supervised by Prof. LR Berger or his appointed scientific authority. As the site falls within a fragile wilderness environment, due consideration will be given at all times to the sensitivity of the environment. This means that vehicular size and the number of vehicles, damage to existing vegetation and other factors will be considered with equal weight to the necessity to alter, protect or move objects. Decisions may need to be made, from time to time, not to perform certain activities where the protection of endemic flora or fauna is considered of greater value than the rehabilitation activity. As the site is situated in such a sensitive area, the actual work will be conducted by a company appointed by and supervised by the landowners along with Prof. Berger to ensure the safety and security of the

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environment during the operations. It must be recognized that due to the sensitivity of the area, slight alterations to this proposal in the positioning of items, structures etc. may have to be altered due to wildlife or flora or general issues of aesthetics, but that the overriding principle of these activities is to bring the site to a satisfactory state of rehabilitation to the satisfaction of all parties, as much as is possible. It is envisioned that the entire rehabilitation will take place prior to end June 2013. Necessary permits from agencies such as SAHRA and/or the COH Management Authority will be acquired by Prof. Berger and the landowners agree to the issuing of these necessary permits. Safety, indemnity etc. for the labour and workers will be the responsibility of the landowners whom have contracted the labour. At the end of the process, Prof. Berger will file a report and summary of the activities that have taken place and provide documentation of these activities as outlined in this proposal. The landowners will sign this report and the supporting documentation and this will serve as indication of their satisfaction with the process and finalization of the rehabilitation.

Infrastructural rehabilitation and re-siting

External bridge

The external bridge was built in the late 1990's out of welded metal and crosses the excavation in a roughly the Southeast to Northeast, ending at the main entrance to the Upper Chamber. Its footing rests on a series of outcrops, supported by small cement pillars. It is in relatively good condition though it requires repainting and weld checking and renewal. In its present position, the landowners consider it unsightly and thus it is desirable to move it from its present location. It is proposed that the bridge be disassembled and moved to a lower position. Its entrance would then be approximately 10 meters to the Southwest of its present position. It would travel for approximately five meters Northwesterly and then be positioned in a stepwise fashion up and towards the Main entrance to the Upper Chamber, thus allowing access to the interior parts of the system. Footings will be in a similar manner to that which exists, although as the proposed position does not cross over the exposed fossil bearing deposits, the positioning of the footing is less critical and appropriate sized concrete bolsters will pose no threat, nor impact the fossils or existing excavation. Exact sighting of the position of this bridge will be dictated at the time of movement as much by visual impact as direct line access as the movement is largely for aesthetic purposes rather than functional purposes. While much of the materials from the existing bridge will be used in the construction additional material may need to be purchased and designed on site for staircases etc. All existing footing material and any other aspect of the

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bridge such as the concrete entrance and exit platforms will be removed. The new structure will be painted in a neutral colour selected as appropriate and desirable by the landowner.

Internal staircase

The internal staircase was built in the mid-1990's for purposes of accessing lower Chamber II. It is manufactured in much the same method and design as the external walkway. It is in moderately good condition though it requires re-welding and repainting. The internal staircase will be checked for safety. Re-welded where necessary and repainted. It is not envisioned that any changes will be made to this device. The existing winch will be covered to protect it from moisture and the winch support system will be repainted in the chosen site colour.

External arch support

There is a wooden bolster placed under the external archway. This bolster was created in the mid-1990's to ensure the safety of excavators underneath the arch. The wooden structure will be replaced and its security will be checked.

Painting

All metal structures will be cleaned of rust, a primer of metal paint will be applied and then all exposed metal structures will be painted with a durable outdoor paint of an appropriate neutral colour chosen by the landowners.

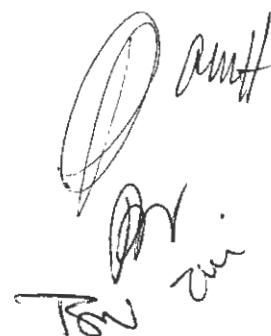
Datum

The original site datum was put in place in 1992. It is position approximately three meters northwest of the Main Entrance, just above the excavation area. It is considered for historical and scientific purposes that this datum remain. Its security and stability will be checked and the metal central bar will have any rust removed and it will be painted in the site colour.

Infrastructural removal

Excavation equipment

All major and minor remnants of the 1991 and early 21st Century excavation activities will be removed from the site.

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Concrete pad

A concrete pad was built approximately 100 meters west of the excavation area in the early 1990's. This pad is a small surface foundation of no more than 5cm in thickness and was used to support a caravan that acted as the main scientific centre until it was destroyed in a fire in the late 1990's. This pad will be removed and the rubble removed from site.

Toilet

A long-drop toilet was built in the early 1990 just to the North of the concrete pad mentioned above. The toilet seat is situated over a disused mining shaft. The toilet and all associated materials will be removed from site.

Existing signage

There is a minimal amount of existing safety signage. This will be removed.

Lighting pins and wires

A primitive lighting system was installed in the early 1990's to provide light to the interior of the upper chamber and lower chamber. The wiring, bulbs and any supporting pins or devices will be removed from site. In a few cases, early 19th century pins placed by the miners were used to attach the wire to the ceiling, in these cases the pins will be left as historical artefacts.

Sundry

Any trash, rubble or unsightly materials left by the 1990 to early 21st century excavations will be removed from the vicinity of the site. Any objects relating to earlier periods of activity, mining or excavation will be documented and left in place as historical objects.

Stabilization

Minimal stabilization of walls is required. Two areas are deemed important for stabilization to avoid the potential of collapse. These are the lower western wall and the lower eastern wall. These walls are comprised of miners rubble and are of minimal scientific value. These two walls will be covered using standard archaeological stabilization practices. A long life plastic sheeting will be laid over the areas to be stabilized. A steel wire mesh will then be used to form and hold the plastic in place. Steel pegs will hold this, and the plastic in place. A thin concrete mixture, that has been mixed with fine dump material derived from the excavations will be made and

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used to cover these walls so that it is both aesthetically pleasing and functional. The bolstering will be made in such a way as to be suitably permanent but easily removable should future scientific work wish to go on in these areas.

Drainage

The excavation has created a change in the drainage patterns of the external deposit. To rectify this, a half pipe aqueduct will be created along the northwestern edge of the excavation. The 15cm half pipe will be partially buried and angled to direct the major flow of water from above the excavation along the eastern wall of the main entrance, the west of the excavation and releasing it below the excavation into the natural drainage system in the base of the valley. The piping will be secured with concrete mixed in the way described previously and the aqueduct drainage will be constructed to aesthetically pleasing. Again, it will be constructed in such a manner as to be sufficiently permanent but easily removable should future scientists wish to open these areas. It will not contact any existing fossil bearing deposits but will run along miner backfill.

Infilling

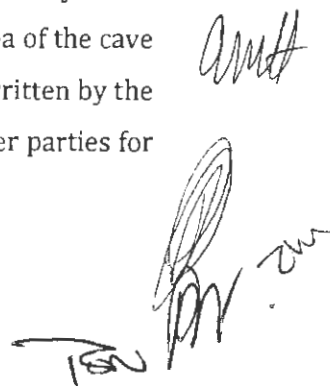
Only in one area is it deemed scientifically desirable to backfill. This is a small open shaft now covered by black plastic in the northwestern part of the external excavations. This shaft was opened during excavations in the late 1990's. It is not known where this shaft travels to, but there is a possibility its opening is affecting some lower chambers. It is proposed that the plastic be removed and a plastic, wire mesh, concrete cover be made as described elsewhere. This will seal this hole and be aesthetically pleasing. It will be designed in such a way as to be suitably permanent but easily removable if future scientific investigation is desired.

Pathways

The existing pathways and roads were largely continuations of existing paths and roads made by 19th and 20th century mining. It is not deemed necessary to alter these roads.

Signage

Appropriate safety signage will be placed as well as indemnity signage. It is particularly noted that a sign, in appropriate colours should be placed where individuals enter the area of the cave and excavation. Suitable phrasing for this indemnity and danger warning will be written by the legal office of the University that will indemnify the landowner, university and other parties for

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accidents or injury that may occur upon entering the area of the site. The support for this signage will be decided on a case by case basis according to the position and aesthetic impact of the signage.

Additional warning signs will be placed at the Main entrance, the entrance to lower chamber I and lower chamber II that include a message to be aware of falling rocks and that the interior of the cave is a hard hat area only.

A plinth, manufactured from natural material acquired from the dumps and selected by Prof. Berger will be constructed near the vehicular entrance/existing parking area of the site. On this plinth will be placed a plaque provided by the appropriate national authorities indicating the sites status as a National Heritage site.

Safety Equipment

Just inside of the main entrance, it is proposed that a suitable chest be created that contains sufficient hard hats for the maximum number of visitors envisioned by the landowners.

Vegetation control

While the long term control of vegetation will be based upon whether tourism will take place at the site, there is no evidence that the present vegetation is endanger to any greater degree than it has for many decades the fossils exposed at the site. It is therefore deemed not necessary to perform vegetation control at this time.

General visual impact improvements

All improvements, movement of materials or infrastructure will be done with the idea of creating an aesthetically pleasing environment wherever possible. Only where the question of such a decision impacting upon the safety of individuals or of the fossil deposits will these latter two items take precedence over aesthetics.

Miners dumps, 1990's and early 21st Century Dumps and other indicators of scientific activity

A number of rock dumps were created by the various activities at the site through the decades. These dumps are considered an important part of the scientific and industrial heritage of the site and will not be moved or altered in any way. Additionally a large number of oriented cores, core drillings and other scientific markers were made over the course of the years. These are

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considered of scientific and historical value and will be left untouched. Most are documented in various scientific literature.

Documentation

Every removal, alteration or change will be documented with a before and after photo. This comprehensive record of the situation before and after the change will be put in a book form, bound and a hard copy will be presented to the landowner, SAHRA, the University of the Witwatersrand and the Management Authority to act as a permanent record of these rehabilitation activities.

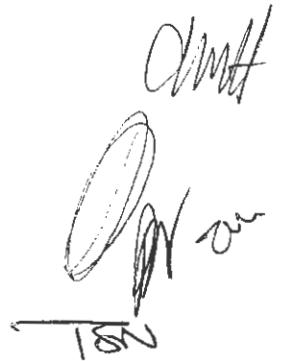


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ANNEXURE 9

PHOTOGRAPHS (MALAPA SITE)

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Malapa entrance track and parking area 1, view from the East looking West. February 28th, 2013



The Malapa entrance track, view from the West, looking East. February 28th, 2013

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Malapa site as viewed from the west. February 28th, 2013



The Malapa site looking eastward from entrance track. February 28th, 2013

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Malapa site sieving area viewed from the West. February 28th, 2013



Malapa site viewed from North. February 28th, 2013.

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M. J. van
R. van



Malapa site viewed from the North. February 28th, 2013



Malap viewed from the East. February 28th, 2013

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Malapa site viewed from the South. February 28th, 2013



Malapa site viewed from the southwest. February 28th, 2013

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Malapa main excavation viewed from the south west. February 28th, 2013



Malapa main pit viewed from the West. February 28th, 2013

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Malapa main pit and datum, viewed from the North. February 28th, 2013



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Lightning struck tree at Malapa, viewed from the South. February 28th, 2013

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