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**PHASE 1 HIA REPORT FOR PROPOSED TOWNSHIP DEVELOPMENT
ON PORTION 426 OF THE FARM
DERDEPOORT 326JR, CITY OF TSHWANE, GAUTENG**

For:

***Bokamoso Landscape Architects & Environmental Consultants CC
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REPORT: **APAC022/10**

by:

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Project Number #ST1

February 2022

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SUMMARY

APelser Archaeological Consulting (APAC) was appointed by Bokamoso Landscape Architects & Environmental Consultants CC to conduct a Phase 1 HIA for proposed Township development on Portion 426 of the farm Derdepoort 326JR in the Greater Tshwane Municipal Area of Gauteng.

Background research indicated that there are a number of cultural heritage (archaeological & historical) sites and features in the larger geographical area within which the study area falls. The assessment of the specific study area did not identify any sites, features or material of cultural heritage (archaeological and/or historical) origin or significance in the direct footprint area of the proposed development. This report discusses the results of both the background research and physical assessment and provides recommendations on the way forward.

It is recommended that the proposed development be allowed to continue, taking into consideration the recommendations put forward at the end of the report.

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1. INTRODUCTION

APelser Archaeological Consulting (APAC) was appointed by Bokamoso Landscape Architects & Environmental Consultants CC to conduct a Phase 1 HIA for proposed Township development on Portion 426 of the farm Derdepoort 326JR in the Greater Tshwane Municipal Area of Gauteng.

Background research indicated that there are a number of cultural heritage (archaeological & historical) sites and features in the larger geographical area within which the study area falls. The assessment of the specific study area did not identify any sites, features or material of cultural heritage (archaeological and/or historical) origin or significance in the direct footprint area of the proposed development.

The client indicated the location and boundaries of the study area and the assessment concentrated on this portion.

2. TERMS OF REFERENCE

The Terms of Reference for the study were to:

1. Identify all objects, sites, occurrences and structures of an archaeological or historical nature (cultural heritage sites) located on the portion of land that will be impacted upon by the proposed development;
2. Assess the significance of the cultural resources in terms of their archaeological, historical, scientific, social, religious, aesthetic and tourism value;
3. Describe the possible impact of the proposed development on these cultural remains, according to a standard set of conventions;
4. Propose suitable mitigation measures to minimize possible negative impacts on the cultural resources;
5. Review applicable legislative requirements;

3. LEGISLATIVE REQUIREMENTS

Aspects concerning the conservation of cultural resources are dealt with mainly in two Acts. These are the National Heritage Resources Act (Act 25 of 1999) and the National Environmental Management Act (Act 107 of 1998).

3.1. The National Heritage Resources Act

According to the Act the following is protected as cultural heritage resources:

- a. Archaeological artifacts, structures and sites older than 100 years

- b. Ethnographic art objects (e.g. prehistoric rock art) and ethnography
- c. Objects of decorative and visual arts
- d. Military objects, structures and sites older than 75 years
- e. Historical objects, structures and sites older than 60 years
- f. Proclaimed heritage sites
- g. Grave yards and graves older than 60 years
- h. Meteorites and fossils
- i. Objects, structures and sites of scientific or technological value.

The National Estate includes the following:

- a. Places, buildings, structures and equipment of cultural significance
- b. Places to which oral traditions are attached or which are associated with living heritage
- c. Historical settlements and townscapes
- d. Landscapes and features of cultural significance
- e. Geological sites of scientific or cultural importance
- f. Sites of Archaeological and palaeontological importance
- g. Graves and burial grounds
- h. Sites of significance relating to the history of slavery
- i. Movable objects (e.g. archaeological, palaeontological, meteorites, geological specimens, military, ethnographic, books etc.).

A Heritage Impact Assessment (HIA) is the process to be followed in order to determine whether any heritage resources are located within the area to be developed as well as the possible impact of the proposed development thereon. An Archaeological Impact Assessment (AIA) only looks at archaeological resources. An HIA must be done under the following circumstances:

- a. The construction of a linear development (road, wall, power line, canal etc.) exceeding 300m in length
- b. The construction of a bridge or similar structure exceeding 50m in length
- c. Any development or other activity that will change the character of a site and exceed 5 000m² or involve three or more existing erven or subdivisions thereof
- d. Re-zoning of a site exceeding 10 000 m²
- e. Any other category provided for in the regulations of SAHRA or a provincial heritage authority

Structures

Section 34 (1) of the Act states that no person may demolish any structure or part thereof which is older than 60 years without a permit issued by the relevant provincial heritage resources authority.

A structure means any building, works, device or other facility made by people and which is fixed to land, and includes any fixtures, fittings and equipment associated therewith.

Alter means any action affecting the structure, appearance or physical properties of a place or object, whether by way of structural or other works, by painting, plastering or the decoration or any other means.

Archaeology, palaeontology and meteorites

Section 35(4) of the Act deals with archaeology, palaeontology and meteorites. The act states that no person may, without a permit issued by the responsible heritage resources authority (national or provincial)

- a. destroy, damage, excavate, alter, deface or otherwise disturb any archaeological or palaeontological site or any meteorite;
- b. destroy, damage, excavate, remove from its original position, collect or own any archaeological or palaeontological material or object or any meteorite;
- c. trade in, sell for private gain, export or attempt to export from the Republic any category of archaeological or palaeontological material or object, or any meteorite; or
- d. bring onto or use at an archaeological or palaeontological site any excavation equipment or any equipment that assists in the detection or recovery of metals or archaeological and palaeontological material or objects, or use such equipment for the recovery of meteorites.
- e. alter or demolish any structure or part of a structure which is older than 60 years as protected.

The above mentioned may only be disturbed or moved by an archaeologist, after receiving a permit from the South African Heritage Resources Agency (SAHRA). In order to demolish such a site or structure, a destruction permit from SAHRA will also be needed.

Human remains

Graves and burial grounds are divided into the following:

- a. ancestral graves
- b. royal graves and graves of traditional leaders
- c. graves of victims of conflict
- d. graves designated by the Minister
- e. historical graves and cemeteries
- f. human remains

In terms of Section 36(3) of the National Heritage Resources Act, no person may, without a permit issued by the relevant heritage resources authority:

- a. destroy, damage, alter, exhume or remove from its original position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;

- b. destroy, damage, alter, exhume or remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery administered by a local authority; or
- c. bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation, or any equipment which assists in the detection or recovery of metals.

Human remains that are less than 60 years old are subject to provisions of the Human Tissue Act (Act 65 of 1983) and to local regulations. Exhumation of graves must conform to the standards set out in the **Ordinance on Excavations (Ordinance no. 12 of 1980)** (replacing the old Transvaal Ordinance no. 7 of 1925).

Permission must also be gained from the descendants (where known), the National Department of Health, Provincial Department of Health, Premier of the Province and local police. Furthermore, permission must also be gained from the various landowners (i.e. where the graves are located and where they are to be relocated to) before exhumation can take place.

Human remains can only be handled by a registered undertaker or an institution declared under the **Human Tissues Act (Act 65 of 1983 as amended)**.

3.2. The National Environmental Management Act

This Act states that a survey and evaluation of cultural resources must be done in areas where development projects, that will change the face of the environment, will be undertaken. The impact of the development on these resources should be determined and proposals for the mitigation thereof are made.

Environmental management should also take the cultural and social needs of people into account. Any disturbance of landscapes and sites that constitute the nation's cultural heritage should be avoided as far as possible and where this is not possible the disturbance should be minimized and remedied.

4. METHODOLOGY

4.1. Survey of literature

A survey of available literature was undertaken in order to place the development area in an archaeological and historical context. The sources utilized in this regard are indicated in the bibliography.

4.2. Field survey

The field assessment section of the study was conducted according to generally accepted HIA practices and aimed at locating all possible objects, sites and features of heritage significance in the area of the proposed development. The location/position of all sites,

features and objects is determined by means of a Global Positioning System (GPS) where possible, while detail photographs are also taken where needed.

4.3. Oral histories

People from local communities are sometimes interviewed in order to obtain information relating to the surveyed area. It needs to be stated that this is not applicable under all circumstances. When applicable, the information is included in the text and referred to in the bibliography.

4.4. Documentation

All sites, objects, features and structures identified are documented according to a general set of minimum standards. Co-ordinates of individual localities are determined by means of the Global Positioning System (GPS). The information is added to the description in order to facilitate the identification of each locality.

5. DESCRIPTION OF THE AREA

The proposed development will be situated on Portion 426 of the farm Derdepoort 326JR, in the Derdepoort area of the Greater Tshwane Municipal Area of Gauteng.

The topography of the study area is flat and open with no real rocky ridges or outcrops present. Grass and tree cover in the area was very dense during the assessment, making visibility on the ground difficult. The larger geographical area within which the proposed development site is situated has been completely altered and disturbed in the recent past through various urban and industrial related developments and if any sites, features or material of a cultural heritage origin or significance did exist here in the past it would have been disturbed or destroyed to a large degree as a result of these activities. The study area itself has been extensively disturbed and altered in the recent past through agricultural activities and other developments. Between 2001 and more some buildings had been constructed (and since been demolished) on the property as well. These are visible on aerial images (Google Earth) of the study & development area footprint. As a result any archaeological and/or historical remains that could have existed here would have been disturbed or destroyed to a large degree.

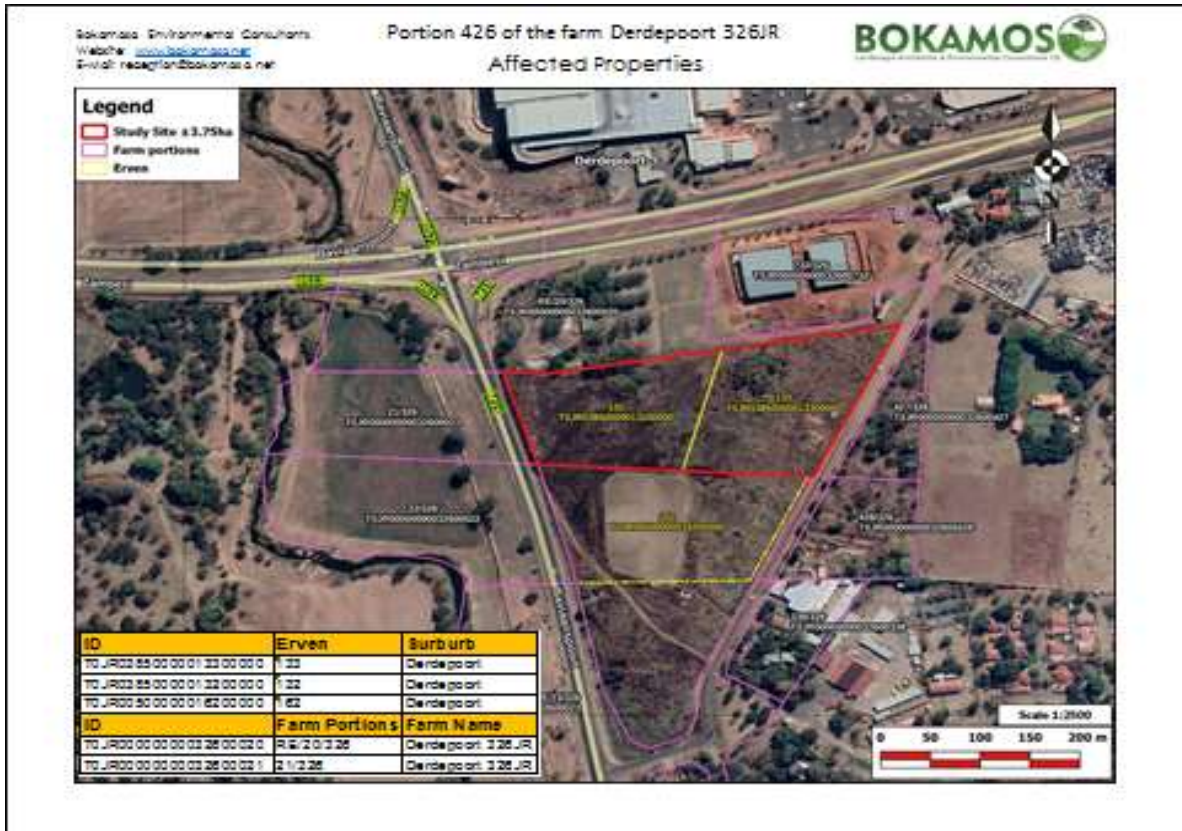


Figure 1: Locality Map showing affected properties (provided by Bokamoso Landscape Architects & Environmental Consultants CC).

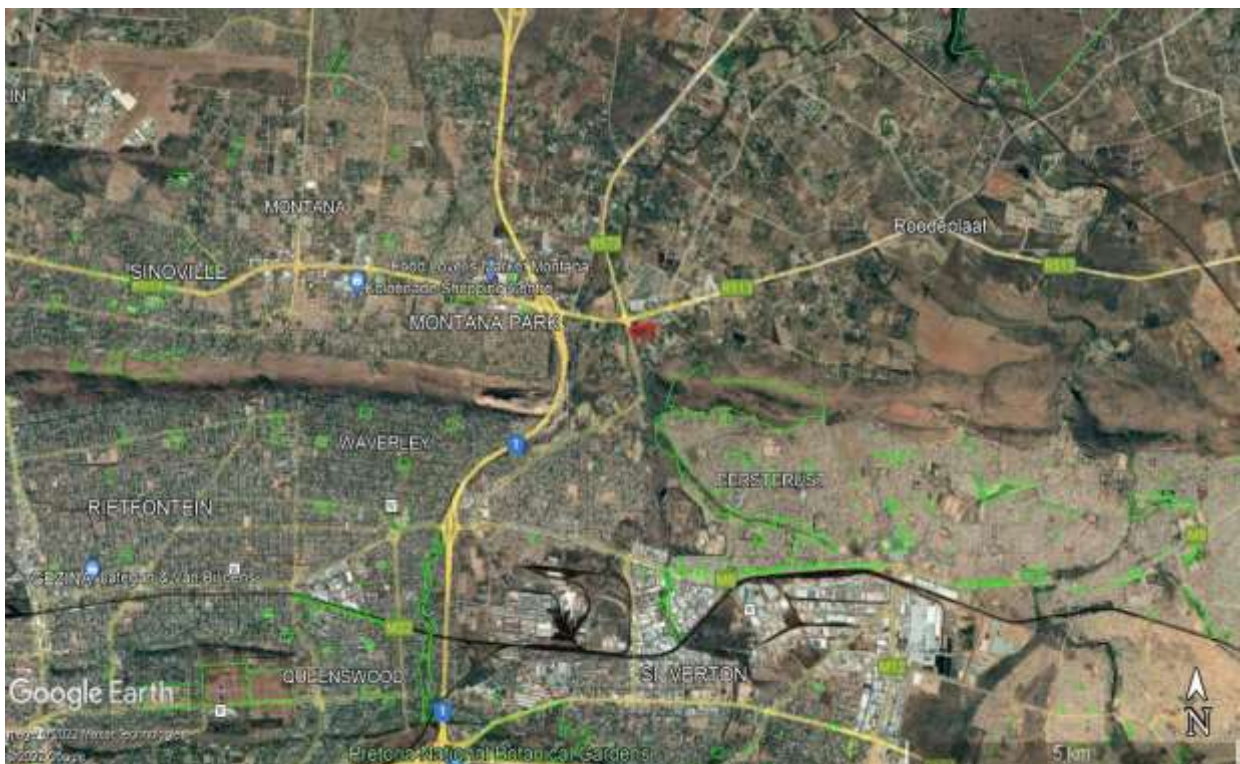


Figure 2: General location of the study & development area in red polygon (Google Earth 2022).



Figure 3: Closer view of the study area & development footprint (Google Earth 2022).

6. DISCUSSION

The Stone Age is the period in human history when lithic (stone) material was mainly used to produce tools. In South Africa the Stone Age can be divided in basically into three periods. It is however important to note that dates are relative and only provide a broad framework for interpretation. A basic sequence for the South African Stone Age (Lombard et.al 2012) is as follows:

Earlier Stone Age (ESA) up to 2 million – more than 200 000 years ago

Middle Stone Age (MSA) less than 300 000 – 20 000 years ago

Later Stone Age (LSA) 40 000 years ago – 2000 years ago

It should also be noted that these dates are not a neat fit because of variability and overlapping ages between sites (Lombard et.al 2012: 125).

There are no known Stone Age sites in the study area, and no artifacts from that period were identified during the site assessment. The closest known Stone Age sites are those of the well-known Early Stone Age site at Wonderboompoort and a number of sites in the Magaliesberg area (Bergh 1999: 4). Middle Stone Age material has been identified at Erasmusrand and the Groenkloof Nature Reserve (Van Vollenhoven 2006: 183). At the Erasmusrand cave some Late Stone Age tools were also identified as well as at Groenkloof

(Van Vollenhoven 2006: 184). LSA material has also been found at Zwartkops and Hennops River (Bergh 1999: 4). This last phase of the Stone Age is associated with the San people.

If any Stone Age artifacts are to be found in the area then it would more than likely be single, out of context, stone tools. Urbanization over the last 150 years or so would have destroyed any evidence if indeed it did exist.

The Iron Age is the name given to the period of human history when metal was mainly used to produce metal artifacts. In South Africa it can be divided in two separate phases (Bergh 1999: 96-98), namely:

Early Iron Age (EIA) 200 – 1000 A.D
Late Iron Age (LIA) 1000 – 1850 A.D.

Huffman (2007: xiii) however indicates that a Middle Iron Age should be included. His dates, which now seem to be widely accepted in archaeological circles, are:

Early Iron Age (EIA) 250 – 900 A.D.
Middle Iron Age (MIA) 900 – 1300 A.D.
Late Iron Age (LIA) 1300 – 1840 A.D.

According to Delius (1983: 12) and Horn (1996: 23) LIA people moved into the Pretoria area after 1600 A.D. No Early Iron Age sites are known in the larger geographical area of Pretoria, while Later Iron Age sites do occur in the Pretoria area (Bergh 1999: 7). The closest known LIA sites are at Silver Lakes and near Mamelodi on the farm Hatherley (Van Schalkwyk et.al 1996). These sites are related to the Manala Ndebele (Bergh 1999: 10) who was present in the area at the time when the first Europeans arrived here during the mid-19th century.

Iron Age occupation of the area did not start much before the 1500s. By that time, groups of Tswana and Ndebele speaking people were moving into the area, occupying the different hills and outcrops, using the ample resources such as grazing, game and metal ores. During the early decades of the 19th century, the Tswana- and Ndebele-speakers were dislodged by the Matabele of Mzilikazi. Internal strife caused Mzilikazi, a general of King Shaka, and his followers to move away from the area between the Thukela and Mfolozi River (KwaZulu-Natal). Eventually, after a sojourn in the Sekhukhuneland area, followed by a short stay in the middle reaches of the Vaal River, they settled north of the Magaliesberg. One of three main settlements established by them, eKungwini, was on the banks of the Apies River, just north of Wonderboompoort.

It is a well-established fact that the stone walled sites on various farms in the larger area around the east of Pretoria and the Bronberge were inhabited mainly by the southern Ndebele. The former were most probably among the earliest Nguni-speaking people in the immediate area north of the Magaliesberg range north of Pretoria. During the rule of a chief named Musi, they split into five separate migrating groups, namely the Manala, Ndzundza, Kekana, Mhwaduba and Sibasa sections (Van Schalkwyk et.al 1996:47-48). The Manala settled over a wide area towards the east of present-day Pretoria.

No Iron Age sites, features or cultural material was identified during the assessment of the study area.

The historical age started with the first recorded oral histories in the area. It includes the moving into the area of people that were able to read and write. The first Europeans to move through and into the area were the groups of Schoon and McLuckie and the missionaries Archbell and Moffat in 1829 (Bergh 1999: 12). They were followed by others such as Andrew Smith (1835), Cornwallis Harris (1836) and David Livingstone in 1847 (Bergh 1999: 13). These groups were closely followed by the Voortrekkers and Pretoria was established in 1855 (Bergh 1999: 14-17).

The oldest map for the farm Derdepoort 326JR (for Portion 1) that could be obtained from the database of the Chief Surveyor General dates to 1881 (www.csg.dla.gov.za – CSG Document 10I8G201). It shows that the farm was then known as Derdepoort 422 and that it was located in the District of Pretoria, Ward of Aapies Rivier and in the Zuid-Afrikaansche Republiek (ZAR). It also shows that the owner at the time was on J.B. Wolmarans. A 1905 map for Portion 2 (CSG Document 10I8GG01) shows that the whole of the original farm was transferred by Government Transfer to one A.J. Jansen on the 28th of December 1858. The farm was apparently surveyed in September 1905 for on Jan Adriaan van der Walt. The Portion 426 map dates to 1996 (CSG Document 1072001) and shows that it was surveyed in June and July 1996.

file 93% DRS 76 F. 69.

469

L.G. NO. 10059/1881

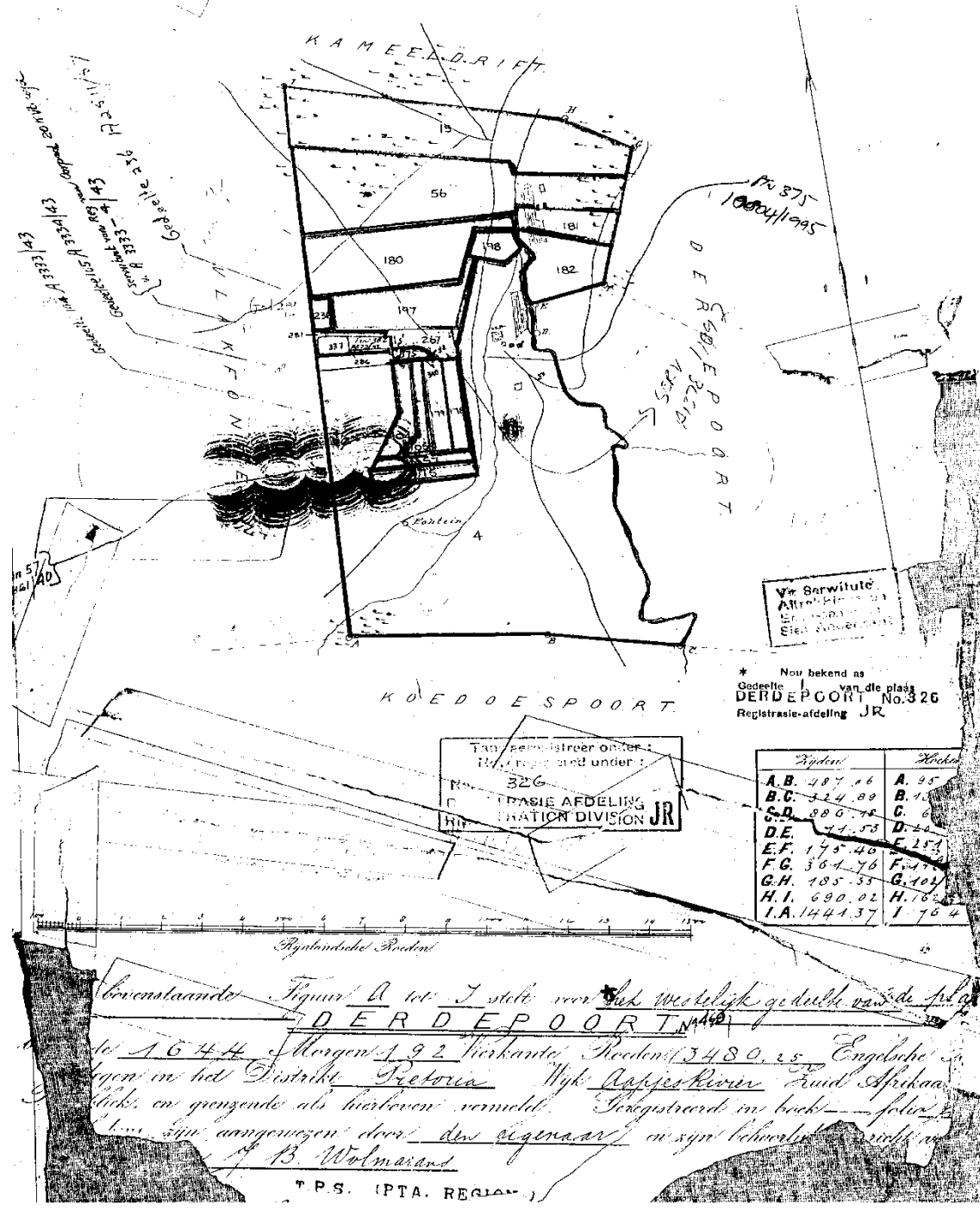
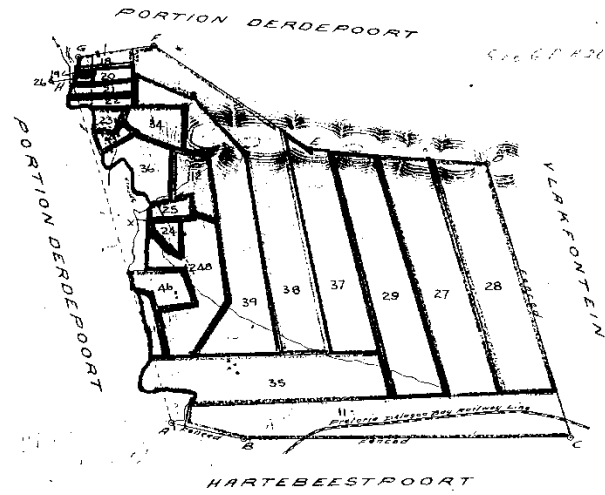


Figure 4: An 1881 map of Portion 1 of the farm Derdepoort 326JR (www.csg.dla.gov.za).

file 452 33 252 T. 29 469

SIDES.	ANGLES.	(N) CO-ORDINATES (X)
AB 170.38	A 118 17 50	A + 41.54 + 165.86
BC 744.58	B 165.56 20	B 0.00 - 744.58
CD 716.39	C 74.50 40	C + 691.47 - 557.29
DE 445.18	D 10.56 10	D + 732.28 - 154.17
EF 440.34	E 211.15 10	E + 507.48 + 127.35
FG 176.30	F 133.52 10	F + 569.71 + 371.45
GH 71.56	G 108 42 30	G + 899.16 + 383.44
HA 884.73	H 156 7 10	

Rect Area 120 M 411 Rds.
Angle G H Area 231 40 S



For Servitudes, Deductions, Easements See Over.

AFFECTED BY PTN 503
SG NO. 8197/1997

REMAINDER NOW INCLUDED IN PTN 506
SG NO. 8200/1997

Trans registered on order :
Now registered under :
No. 326
REGISTRASIE AFDELING JR

Nou bekend as
Gedeelte 2 van die plaas
LEI D 17 OCT 1905 26
Registrasie-afdeling JR

The above Diagram lettered *A B C D E F G H* and *RIVER A* represents the south eastern portion of the farm called **DERDEPOORT N° 469**

in extent *1191 Morgen* 411 Square Roods of Land, situate in the District of *Pretoria* Transvaal Colony, and bounded as indicated above.

The whole Farm was originally granted to *R. J. Jansen* by *Deed of Grant No.* dated the *28* day of *December 1858*

The Beacons were pointed out by *J. A. P. J. van der Wall* and have been properly erected according to Law. Due notice of this Survey has been given to all adjoining land owners. Surveyed on behalf of *Ten Adriaan van der Wall* in *Sept. 1905* by me *J. H. Schuster*

T.P.S. (PTA. REGION.)

No. *0583* is signed. The numerical data of this Diagram are sufficient consistent.
Maxwell Edwards
Examiner of Diagrams.
Surveyor-General's Office
Pretoria 4 - 10

No protest, confirmed.
J. H. Schuster
Arch. Surveyor-General
Surveyor-General's Office, Pretoria
12 FEB 1906
Published in Government Gazette No. *387* dated *10 NOV 1905*
JRS-G-149 1R-5-D

Figure 5: A 1905 map of Portion 2 (www.csg.dla.gov.za).

ONDERVERDELINGSKAART

SYE meter	RIGTINGS- HOEKE	KOÖRDINATE		L.G. No.
		Y	X	
	Konstantes:	0,00	+2 800 000,00	7881/1996
AB	40,27 272 38 50	A	+70 956,56	+42 022,22
BC	322,67 260 30 50	B	+70 916,33	+42 024,08
CD	177,96 25 40 30	C	+70 598,07	+41 970,90
DE	238,91 92 33 50	D	+70 675,18	+42 131,28
EF	11,11 92 44 50	E	+70 913,85	+42 120,59
FG	35,92 163 16 30	F	+70 924,94	+42 120,06
GA	66,91 161 27 40	G	+70 935,28	+42 085,66
Aanduidingsdata				
AA'	0,03 161 27 40	A'	+70 956,57	+42 022,19
462 East Lynne New		Δ	+73 376,55	+42 969,43
13 Derdepoort		Δ	+68 504,45	+42 909,86
BAKENBESKRYWING				
A : Nie gebaken nie				
B C D E F : 20mm x 600mm Ysterpen en klipstapel				
A' G : Standaard ysterpaal in beton				
SKAAL 1:5000				
Die figuur A B C D E F G A stel voor 3,7410 Hektaar grond synde Gedeelte 426 ('n gedeelte van Gedeelte 21) van die plaas DERDEPOORT NO. 326 - JR				
Provinsie Gauteng Opgemeet in Junie - Julie 1996 deur my <i>D.G. Van Wyk</i> D.G. VAN WYK (PLS 0673) Professionele Landmeter				
Hierdie kaart is geheg aan		Die oorspronklike kaart is		Lêer -/94
No.		L.G. No. A2610/1915		M.S. 3538/1996
ged.		Transport T2690/1916		A.P. No.
t.g.v.		Grondbrief		Komp. JRSG-346
Registrateur van Aktes				

Figure 6: A 1996 map of Portion 426 (www.csg.dla.gov.za).

Results of the study area assessment

No sites, features or material of cultural heritage (archaeological and/or historical) origin or significance were identified in the direct footprint of the area that will be impacted by the proposed development during the physical assessment. Fairly dense vegetation in the area during the fieldwork made visibility difficult. From earlier aerial images of the area (Google Earth) it is however evident that there are some structural remains of very recent buildings on the property. These seemed to have been constructed here between 2001 (when they do not appear on the images yet) and by 2015 they had all been mostly demolished. These remains will however not be of any historical significance and would be younger than 60 years of age as well.

Due to these recent constructions (and their subsequent demolition) if any archaeological and/or historical sites, features and material did exist here in the past it would have been largely disturbed or destroyed as a result. Sections of the larger area bordering the study portion have also been recently cleared, while an informal soccer field has also impacted on the larger area. These types of activities in the development footprint might also have occurred over time and would have had a major impact as well.



Figure 7: A 2001 aerial view of the study & development area footprint (Google Earth 2022).



Figure 8: By 2005 some structures start appearing in the study and development area (Google Earth 2022).



Figure 9: By 2011 the impact of development on the bordering properties are evident, while some more recent structures appear in the study area (Google Earth 2022).



Figure 10: By 2015 most of the recent structures had also been demolished (Google Earth 2022).



Figure 11: View of a section of the area. Note the dense vegetation.



Figure 11: Another section. Again the dense grass cover is evident.



Figure 12: A section of land close to the proposed development footprint has recently been cleared. The informal soccer field is visible.



Figure 13: The dense vegetation that is found in most of the area is also seen here.

Based on the background research, as well as the study of the aerial images of the area, combined with the field assessment, it is however possible to say that there is a very low likelihood of any sites, features or material of cultural heritage origin or significance being present in the area. The proposed development should therefore be allowed to continue from a Cultural Heritage point of view.

Furthermore, it should be noted that although all efforts are made to cover a total area during any assessment and therefore to identify all possible sites or features of cultural (archaeological and/or historical) heritage origin and significance, that there is always the possibility of something being missed. This will include low stone-packed or unmarked graves. This aspect should be kept in mind when development work commences and if any sites (including graves) are identified then an expert should be called in to investigate and recommend on the best way forward.

7. CONCLUSIONS AND RECOMMENDATIONS

APelser Archaeological Consulting (APAC) was appointed by Bokamoso Landscape Architects & Environmental Consultants CC to conduct a Phase 1 HIA for proposed Township development on Portion 426 of the farm Derdepoort 326JR in the Greater Tshwane Municipal Area of Gauteng.

Background research indicated that there are a number of cultural heritage (archaeological & historical) sites and features in the larger geographical area within which the study area falls. No sites, features or material of cultural heritage (archaeological and/or historical)

origin or significance were identified in the direct footprint of the area that will be impacted by the proposed development during the physical assessment. Fairly dense vegetation in the area during the fieldwork made visibility difficult. From earlier aerial images of the area it is evident that there are some structural remains of very recent buildings on the property. These seemed to have been constructed here between 2001 (when they do not appear on the images yet) and by 2015 they had all been mostly demolished. These remains are not of any historical significance and would be younger than 60 years of age as well.

Due to these recent constructions (and their subsequent demolition) if any archaeological and/or historical sites, features and material did exist here in the past it would have been largely disturbed or destroyed as a result.

It should be noted that although all efforts are made to locate, identify and record all possible cultural heritage sites and features (including archaeological remains) there is always a possibility that some might have been missed as a result of grass cover and other factors. The subterranean nature of these resources (including low stone-packed or unmarked graves) should also be taken into consideration. Should any previously unknown or invisible sites, features or material be uncovered during any development actions then an expert should be contacted to investigate and provide recommendations on the way forward.

Finally, from a Cultural Heritage point of view, the proposed Portion 426 Derdepoort 326JR development should be allowed to continue.

8. REFERENCES

General and Closer views of Study Area Location: Google Earth 2022.

Locality Map showing affected properties (courtesy Bokamoso Landscape Architects & Environmental Consultants)

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Chief Surveyor General Database (www.csg.dla.gov.za): Documents (1) 10I8G201 (2) 10I8GG01 & (3) 1072001.

APPENDIX A: DEFINITION OF TERMS:

Site: A large place with extensive structures and related cultural objects. It can also be a large assemblage of cultural artifacts, found on a single location.

Structure: A permanent building found in isolation or which forms a site in conjunction with other structures.

Feature: A coincidental find of movable cultural objects.

Object: Artifact (cultural object).

(Also see Knudson 1978: 20).

APPENDIX B: DEFINITION/ STATEMENT OF HERITAGE SIGNIFICANCE

Historic value: Important in the community or pattern of history or has an association with the life or work of a person, group or organization of importance in history.

Aesthetic value: Important in exhibiting particular aesthetic characteristics valued by a community or cultural group.

Scientific value: Potential to yield information that will contribute to an understanding of natural or cultural history or is important in demonstrating a high degree of creative or technical achievement of a particular period

Social value: Have a strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.

Rarity: Does it possess uncommon, rare or endangered aspects of natural or cultural heritage.

Representivity: Important in demonstrating the principal characteristics of a particular class of natural or cultural places or object or a range of landscapes or environments characteristic of its class or of human activities (including way of life, philosophy, custom, process, land-use, function, design or technique) in the environment of the nation, province region or locality.

APPENDIX C: SIGNIFICANCE AND FIELD RATING:

Cultural significance:

- Low: A cultural object being found out of context, not being part of a site or without any related feature/structure in its surroundings.
- Medium: Any site, structure or feature being regarded less important due to a number of factors, such as date and frequency. Also any important object found out of context.
- High: Any site, structure or feature regarded as important because of its age or uniqueness. Graves are always categorized as of a high importance. Also any important object found within a specific context.

Heritage significance:

- Grade I: Heritage resources with exceptional qualities to the extent that they are of national significance
- Grade II: Heritage resources with qualities giving it provincial or regional importance although it may form part of the national estate
- Grade III: Other heritage resources of local importance and therefore worthy of conservation

Field ratings:

- i. National Grade I significance: should be managed as part of the national estate
- ii. Provincial Grade II significance: should be managed as part of the provincial estate
- iii. Local Grade IIIA: should be included in the heritage register and not be mitigated (high significance)
- iv. Local Grade IIIB: should be included in the heritage register and may be mitigated (high/medium significance)
- v. General protection A (IV A): site should be mitigated before destruction (high/medium significance)
- vi. General protection B (IV B): site should be recorded before destruction (medium significance)
- vii. General protection C (IV C): phase 1 is seen as sufficient recording and it may be demolished (low significance)

APPENDIX D: PROTECTION OF HERITAGE RESOURCES:

Formal protection:

National heritage sites and Provincial heritage sites – Grade I and II

Protected areas - An area surrounding a heritage site

Provisional protection – For a maximum period of two years

Heritage registers – Listing Grades II and III

Heritage areas – Areas with more than one heritage site included

Heritage objects – e.g. Archaeological, palaeontological, meteorites, geological specimens, visual art, military, numismatic, books, etc.

General protection:

Objects protected by the laws of foreign states

Structures – Older than 60 years

Archaeology, palaeontology and meteorites

Burial grounds and graves

Public monuments and memorials

APPENDIX E: HERITAGE IMPACT ASSESSMENT PHASES

1. Pre-assessment or Scoping Phase – Establishment of the scope of the project and terms of reference.
2. Baseline Assessment – Establishment of a broad framework of the potential heritage of an area.
3. Phase I Impact Assessment – Identifying sites, assess their significance, make comments on the impact of the development and makes recommendations for mitigation or conservation.
4. Letter of recommendation for exemption – If there is no likelihood that any sites will be impacted.
5. Phase II Mitigation or Rescue – Planning for the protection of significant sites or sampling through excavation or collection (after receiving a permit) of sites that may be lost.
6. Phase III Management Plan – For rare cases where sites are so important that development cannot be allowed.