



Draft Basic Assessment Report

Proposed Road Development between the Heritage Lifestyle Centre and
Reynecke Avenue / Frans Kleynhans Road, Bloemfontein



BASIC ASSESSMENT REPORT



destea

department of
economic, small business development,
tourism and environmental affairs
FREE STATE PROVINCE

(For official use only)

File Reference Number:

Application Number:

Date Received:

Basic assessment report in terms of the Environmental Impact Assessment Regulations, 2014, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.

Kindly note that:

1. This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2014 as amended and is meant to streamline applications. Please make sure that it is the report used by the particular competent authority for the activity that is being applied for.
2. This report format is current as of **07 April 2017**. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority
3. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
4. Where applicable **tick** the boxes that are applicable in the report.
5. An incomplete report may be returned to the applicant for revision.
6. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
7. This report must be handed in at offices of the relevant competent authority as determined by each authority.
8. No faxed or e-mailed reports will be accepted.
9. The signature of the EAP on the report must be an original signature.
10. The report must be compiled by an independent environmental assessment practitioner.
11. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
12. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.
13. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.

14. Two (2) colour hard copies and one (1) electronic copy of the report must be submitted to the competent authority.
15. Shape files (.shp) for maps must be included in the electronic copy of the report submitted to the competent authority.

SECTION A: ACTIVITY INFORMATION

Has a specialist been consulted to assist with the completion of this section?

YES ✓ NO

If YES, please complete the form entitled "Details of specialist and declaration of interest" for the specialist appointed and attach in Appendix I.

1. PROJECT DESCRIPTION

a) Describe the project associated with the listed activities applied for

The project entails the construction of a new road between the Heritage Lifestyle Centre and Reynecke Avenue up to Frans Kleynhans Road in Bloemfontein. The new road is planned on Portion 137 and the Remainder of the Farm Bloemfontein 654, Bloemfontein.

The proposed road is approximately 2.5km in length with single and dual carriageway sections (road widths of 7.5m and 15m). (Roads within the Heritage Lifestyle Centre site have been approved as part of that development and therefore this project only includes the proposed road from the Heritage Lifestyle Development to Heuwelsig.

Due to the fact that the site on which the proposed road is planned lies within the urban edge of Bloemfontein, road-related NEMA activities do not apply, but a section of the new road is planned in close proximity to a wetland area and within an area indicated as Metropolitan Open Space System (MOSS) on the Spatial Development Framework (SDF) of the Mangaung Metro Municipality, therefore triggering Listing Notice 3 activities.

A locality plan and site development plan are included in Appendix A and C respectively.

b) Provide a detailed description of the listed activities associated with the project as applied for

Listed activity as described in GN 327,325 and 324	Description of project activity
<i>Example: GN 327 Item xx xx): The construction of a bridge where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</i>	<i>A bridge measuring 5 m in height and 10m in length, no wider than 8 meters will be built over the Orange river</i>
GN 324 of 7 April 2017: Activity 4 b ii (b)	
<i>"The development of a road wider the 4 metres with a reserve less than 13,5 metres in the Free State, inside urban areas: in areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority or zoned for a conservation purpose."</i>	The project entails the construction of a road between the Heritage Lifestyle Centre and Reynecke Avenue up to Frans Kleynhans Road, Bloemfontein, where a section is located within the Metropolitan Open Space System (MOSS) of the Mangaung Metropolitan Municipality.

GN 324 of 7 April 2017: Activity 12 b iv	
<i>“The clearance of an area of 300 square metres or more of indigenous vegetation except where such clearance of indigenous vegetation is required for maintenance purposes undertaken in accordance with a maintenance management plan – in the Free State in areas within a watercourse or wetland; or within 100 metres from the edge of a watercourse or wetland.”</i>	Clearance of an area of more than 300 square metres for the construction of a road in close proximity (within 100m) to wetland areas.

2. FEASIBLE AND REASONABLE ALTERNATIVES

“alternatives”, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

Describe alternatives that are considered in this application as required by Appendix 1 (3)(h) of GN 326, Regulation 2014 as amended. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity (NOT PROJECT) could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed.

The determination of whether site or activity (including different processes, etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the, competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

The identification of alternatives should be in line with the Integrated Environmental Assessment Guideline Series 11, published by the DEA in 2004. Should the alternatives include different locations and lay-outs, the co-ordinates of the different alternatives must be provided. The co-ordinates should be in degrees, minutes and seconds. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

BASIC ASSESSMENT REPORT

a) Site alternatives

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
See linear activity below.		
Alternative 2		
Description	Lat (DDMMSS)	Long (DDMMSS)
Alternative 3		
Description	Lat (DDMMSS)	Long (DDMMSS)

In the case of linear activities:

Alternative:

Alternative S1 (preferred)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

Latitude (S):

Longitude (E):

29° 5' 22.20" S	26° 10' 25.57" E
29° 4' 56.96" S	26° 10' 42.77" E
29° 4' 32.98" S	26° 11' 30.60" E

Alternative S2 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

29° 4' 56.67" S	26° 10' 45.79" E
29° 4' 56.96" S	26° 10' 42.77" E
29° 4' 32.98" S	26° 11' 30.60" E

Alternative S3 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

In the case of an area being under application, please provide the co-ordinates of the corners of the site as indicated on the lay-out map provided in Appendix A of this form.

b) Lay-out alternatives

Alternative 1 (preferred alternative)		
Description	Lat (DDMMSS)	Long (DDMMSS)
Proposed road development between the Heritage Lifestyle Centre and Reynecke Avenue / Frans Kleynhans Road as per route indicated on Plan T1014 in Appendix C.	29° 5' 22.20" S	26° 10' 25.57" E
Alternative 2		
Description	Lat (DDMMSS)	Long (DDMMSS)
Proposed road development was originally planned through the wetland area to the north east of the Heritage Lifestyle Centre site's northern boundary. The route was amended	29° 4' 56.67" S	26° 10' 45.79" E

BASIC ASSESSMENT REPORT

during the planning phase of the Environmental Impact Assessment (EIA) to not transect wetland areas.		
Alternative 3		
Description	Lat (DDMMSS)	Long (DDMMSS)

c) Technology alternatives

Alternative 1 (preferred alternative)
Standard road construction methods will be applied, which include clearing and excavation of the route, mounting and levelling soil for the new road pathway (culverts and drains are also laid for drainage), laying of an aggregate base of crushed stone or gravel and then layers of asphalt are applied. Sidewalks are then constructed and signage positioned, where necessary.
Alternative 2
Alternative 3

d) Other alternatives (e.g. scheduling, demand, input, scale and design alternatives)

Alternative 1 (preferred alternative)
Alternative 2
Alternative 3

e) No-go alternative

The no-go alternative means keeping the status quo, i.e. no road development and the site will remain vacant. The vegetation at the site is currently degraded, but there are sensitive wetland areas that need to be conserved.

Paragraphs 3 – 13 below should be completed for each alternative.

3. PHYSICAL SIZE OF THE ACTIVITY

a) Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

Alternative:

Alternative A1¹ (preferred activity alternative)

Alternative A2 (if any)

Size of the activity:

	m ²
	m ²

¹ "Alternative A.." refer to activity, process, technology or other alternatives.

BASIC ASSESSMENT REPORT

Alternative A3 (if any)

m²

or, for linear activities:

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

Length of the activity:

± 2 500 m

m

m

b) Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

Alternative:

Alternative A1 (preferred activity alternative)

Alternative A2 (if any)

Alternative A3 (if any)

Size of the site/servitude:

± 75 000 m²

m²

m²

4. SITE ACCESS

Does ready access to the site exist?

YES ✓

NO

If NO, what is the distance over which a new access road will be built

m

Describe the type of access road planned:

Not applicable.

Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

5. LOCALITY MAP

An A3 locality map must be attached to the back of this document, as Appendix A. The scale of the locality map must be relevant to the size of the development (at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map.). The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- indication of all the alternatives identified;
- closest town(s);
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1km radius of the site or alternative sites; and
- a north arrow;

- a legend; and
- locality GPS co-ordinates (Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

6. LAYOUT/ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document.

The site or route plans must indicate the following:

- the property boundaries and numbers of all the properties within 50 metres of the site;
- the current land use as well as the land use zoning of the site;
- the current land use as well as the land use zoning each of the properties adjoining the site or sites;
- the exact position of each listed activity applied for (including alternatives);
- servitude(s) indicating the purpose of the servitude;
- a legend; and
- a north arrow.

7. SENSITIVITY MAP

The layout/route plan as indicated above must be overlain with a sensitivity map that indicates all the sensitive areas associated with the site, including, but not limited to:

- watercourses;
- the 1:100 year flood line (where available or where it is required by DWS);
- ridges;
- cultural and historical features;
- areas with indigenous vegetation (even if it is degraded or infested with alien species); and
- critical biodiversity areas.

The sensitivity map must also cover areas within 100m of the site and must be attached in Appendix A.

8. SITE PHOTOGRAPHS

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under Appendix B to this report. It must be supplemented with additional photographs of relevant features on the site, if applicable.

9. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of at least 1:200 as Appendix C for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

10. ACTIVITY MOTIVATION

Motivate and explain the need and desirability of the activity (including demand for the activity):

1. Is the activity permitted in terms of the property's existing land use rights?	YES ✓	NO	Please explain
<p>The properties on which the new road is planned (Portion 137 and the Remainder of Bloemfontein 654) are zoned "undetermined".</p> <p>A portion of the proposed road falls within the Metropolitan Open Space System (MOSS) of the Mangaung Metropolitan Municipality (MMM), but according to the MMM bylaws regarding urban open spaces (2007), municipal infrastructure may be allowed.</p>			
2. Will the activity be in line with the following?			
(a) Provincial Spatial Development Framework (PSDF)	YES	NO	Please explain
Not applicable.			
(b) Urban edge / Edge of Built environment for the area	YES ✓	NO	Please explain
The site is located within the urban edge of Bloemfontein.			
(c) Integrated Development Plan (IDP) and Spatial Development Framework (SDF) of the Local Municipality (e.g. would the approval of this application compromise the integrity of the existing approved and credible municipal IDP and SDF?).	YES ✓	NO	Please explain
A portion of the proposed road falls within the Metropolitan Open Space System (MOSS) of the Mangaung Metropolitan Municipality (MMM), but according to the MMM bylaws regarding urban open spaces (2007), municipal infrastructure may be allowed.			
(d) Approved Structure Plan of the Municipality	YES ✓	NO	Please explain
(e) An Environmental Management Framework (EMF) adopted by the Department (e.g. Would the approval of this application compromise the integrity of the existing environmental management priorities for the area and if so, can it be justified in terms of sustainability considerations?)	YES	NO ✓	Please explain
The Municipality's inputs with regard to the proposed road development are required.			
(f) Any other Plans (e.g. Guide Plan)	YES	NO	Please explain

BASIC ASSESSMENT REPORT

3. Is the land use (associated with the activity being applied for) considered within the timeframe intended by the existing approved SDF agreed to by the relevant environmental authority (i.e. is the proposed development in line with the projects and programmes identified as priorities within the credible IDP)?	YES ✓	NO	Please explain
The current landuse is "Underdetermined". No change of landuse / rezoning application is required as the proposed road is considered municipal infrastructure.			
4. Does the community/area need the activity and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local context it could be inappropriate.)	YES ✓	NO	Please explain
The proposed road is required as an alternative route to and from the Heritage Lifestyle Centre. This new road and the proposed intersection upgradings at Frans Kleynhans Road are essential to alleviate current traffic in Heuwelsig and provide a link to Nelson Mandela Drive.			
5. Are the necessary services with adequate capacity currently available (at the time of application), or must additional capacity be created to cater for the development? (Confirmation by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)	YES	NO ✓	Please explain
Bulk services not required for this proposed road development.			
6. Is this development provided for in the infrastructure planning of the municipality, and if not what will the implication be on the infrastructure planning of the municipality (priority and placement of services and opportunity costs)? (Comment by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)	YES ✓	NO	Please explain
The proposed road has been planned in conjunction with the Mangaung Metro Municipality. The site for the road is also located on municipal land and therefore the proposed road is in line with their infrastructure planning.			
7. Is this project part of a national programme to address an issue of national concern or importance?	YES	NO ✓	Please explain
(Empty row for explanation)			
8. Do location factors favour this land use (associated with the activity applied for) at this place? (This relates to the contextualisation of the proposed land use on this site within its broader context.)	YES ✓	NO	Please explain
The location factors are ideal for the proposed road development to provide a link between the Heritage Lifestyle Centre (and indirectly Nelson Mandela Drive) and Heuwelsig.			

BASIC ASSESSMENT REPORT

9. Is the development the best practicable environmental option for this land/site?	YES ✓	NO	Please explain
The site is currently vacant and located on a portion minimally utilized by the Tempe Military Base. The wetland area in close proximity to the proposed road route is of concern and therefore the road is planned adjacent to and not through these areas. Although impacts from the road are anticipated, it is expected that these can be mitigated to not have a detrimental impact on the wetland.			
10. Will the benefits of the proposed land use/development outweigh the negative impacts of it?	YES ✓	NO	Please explain
See 9 above.			
11. Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?	YES	NO ✓	Please explain
As the proposed activity is the development of a road, it is not expected that a precedent will be set for similar activities, but the road and better access to smallholdings may stimulate development in the area.			
12. Will any person's rights be negatively affected by the proposed activity/ies?	YES	NO ✓	Please explain
Not currently aware of any person whose rights may be affected.			
13. Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality?	YES	NO ✓	Please explain
The proposed road is planned within the urban edge of Bloemfontein.			
14. Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?	YES	NO	Please explain
SIP 6 refers to integrated municipal infrastructure. The proposed road can be considered to be contributing to municipal road infrastructure goals.			
15. What will the benefits be to society in general and to the local communities?	Please explain		
<ul style="list-style-type: none"> Link road to the Heritage Lifestyle Centre and Nelson Mandela Drive; Alleviate traffic congestion; Upgraded intersection at Frans Kleynhans Road; Better road conditions in Reynecke Avenue. 			
16. Any other need and desirability considerations related to the proposed activity?	Please explain		
17. How does the project fit into the National Development Plan for 2030?	Please explain		
The proposed development of a road can be considered to fall under the objectives of the National Development for 2030 by contributing to infrastructure. An enabling milestone would also be a increase in employment during the construction phase of the road.			

18. Please describe how the general objectives of Integrated Environmental Management as set out in section 23 of NEMA have been taken into account.

The project has, through the Basic Assessment Process, identified, predicted and evaluated actual and potential impacts on the environment. Public participation has also taken place and best suited modes of environmental management have been employed as far as possible.

19. Please describe how the principles of environmental management as set out in section 2 of NEMA have been taken into account.

NEMA Section 2 (2) states that environmental management must place people and their needs at the forefront of its concern. Although the proposed hospital development may have impacts on the environment, although assessed to be minimal, sustainable development is the main aim and it would be safe to say that the factors applicable to sustainable development, namely (4)(a)(ii), (iii), (iv) and (viii) of NEMA Section 2 are most relevant to the proposed development and the EIA process followed. Social, economic and environmental impacts have been considered and evaluated allowing the DESTEA to make an informed decision.

11. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:

Title of legislation, policy or guideline	Applicability to the project	Administering authority	Date
National Environmental Management Act (Act 107 of 1998)	Legislation requiring Environmental Authorisation to be obtained for proposed development.	DESTEA	1998
National Environmental Management: Biodiversity Act (Act 10 of 2004): National list of ecosystems that are threatened and in need of protection	The site is vacant with indigenous vegetation and the proposed development involves the destruction thereof. Protected tree species are also present on site.	DESTEA	2004
National Heritage Resources Act (Act 25 of 1999)	The site is located near to an Anglo-Boer War (1899-1902) concentration camp. There are also historical features on the adjacent property.	SAHRA	1999
National Water Act (Act 36 of 1998)	The origin of the Bloemspruit and wetland area are located in close proximity to the site.	DWS	1998

12. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT**a) Solid waste management**

Will the activity produce solid construction waste during the construction/initiation phase?

YES ✓	NO
Unknown at present m ³	

If YES, what estimated quantity will be produced per month?

How will the construction solid waste be disposed of (describe)?

The contractor will be responsible for the disposal of waste during the construction phase.

Where will the construction solid waste be disposed of (describe)?

Most likely the Northern Waste Disposal Site in Bloemfontein.

Will the activity produce solid waste during its operational phase?

YES	NO ✓
m ³	

If YES, what estimated quantity will be produced per month?

How will the solid waste be disposed of (describe)?

If the solid waste will be disposed of into a municipal waste stream, indicate which registered landfill site will be used.

Where will the solid waste be disposed of if it does not feed into a municipal waste stream (describe)?

If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the NEM:WA?

YES	NO ✓
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If YES, inform the competent authority and request a change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

Is the activity that is being applied for a solid waste handling or treatment facility?

YES	NO ✓
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If YES, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

b) Liquid effluent

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

YES	NO ✓
m ³	
YES	NO ✓

If YES, what estimated quantity will be produced per month?

Will the activity produce any effluent that will be treated and/or disposed of on site?

BASIC ASSESSMENT REPORT

If YES, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Will the activity produce effluent that will be treated and/or disposed of at another facility?

YES

NO ✓

If YES, provide the particulars of the facility:

Facility name:

Contact

person:

Postal

address:

Postal code:

Telephone:

E-mail:

Cell:

Fax:

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

Not applicable.

c) Emissions into the atmosphere

Will the activity release emissions into the atmosphere other than exhaust emissions and dust associated with construction phase activities?

YES

NO ✓

If YES, is it controlled by any legislation of any sphere of government?

YES

NO

If YES, the applicant must consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If NO, describe the emissions in terms of type and concentration:

Only dust and exhaust emissions during the construction phase are anticipated.

d) Waste permit

Will any aspect of the activity produce waste that will require a waste permit in terms of the NEM:WA?

YES

NO ✓

If YES, please submit evidence that an application for a waste permit has been submitted to the competent authority

e) Generation of noise

Will the activity generate noise?

YES

NO

If YES, is it controlled by any legislation of any sphere of government?

YES

NO ✓

Describe the noise in terms of type and level:

Vehicular noise is anticipated with the development of a new road.

13. WATER USE

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box(es):

Municipal	Water board	Groundwater	River, stream, dam or lake	Other	The activity will not use water ✓
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Water will be required during the construction phase. The contractor will provide water with tankers for construction purposes. The source of water used for construction will be confirmed with the contractor before construction commences.

If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

Does the activity require a water use authorisation (general authorisation or water use license) from the Department of Water Affairs?

If YES, please provide proof that the application has been submitted to the Department of Water Affairs.

litres	
YES ✓	NO

A Water Use License is required for the construction of the road in close proximity to a watercourse / wetland.

14. ENERGY EFFICIENCY

Describe the design measures, if any, which have been taken to ensure that the activity is energy efficient:

This is limited with the construction of a road, but best environmental practices, especially with regard to energy efficiency will be implemented and monitored during the construction phase.

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

Where possible, alternative energy sources will be considered and preferred, for example in the use of traffic lights, street lighting etc. Materials required for the road construction will be sourced locally as far as possible, to minimize the energy cost associated with transport.

SECTION B: SITE/AREA/PROPERTY DESCRIPTION

Important notes:

1. For linear activities (pipelines, etc) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section B and indicate the area, which is covered by each copy No. on the Site Plan.

Section B Copy No. (e.g. A):

A

2. Paragraphs 1 - 6 below must be completed for each alternative.

3. Has a specialist been consulted to assist with the completion of this section?

YES
✓

NO

If YES, please complete the form entitled "Details of specialist and declaration of interest" for each specialist thus appointed and attach it in Appendix I. All specialist reports must be contained in Appendix D.

Property description/physical address:

Province	Free State
District Municipality	Motheo District Municipality
Local Municipality	Mangaung Metro Municipality
Ward Number(s)	
Farm name and number	Farm 654
Portion number	Portion 137 and Remainder
SG Code	

Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application including the same information as indicated above.

Current land-use zoning as per local municipality IDP/records:

"Undetermined"

In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.

Is a change of land-use or a consent use application required?

YES

NO ✓

BASIC ASSESSMENT REPORT

1. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Alternative S1:

Flat ✓	1:50 – 1:20 ✓	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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Alternative S2 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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Alternative S3 (if any):

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
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2. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site:

2.1 Ridgeline	<input type="checkbox"/>	2.4 Closed valley	<input type="checkbox"/>	2.7 Undulating plain / low hills	<input checked="" type="checkbox"/>
2.2 Plateau	<input type="checkbox"/>	2.5 Open valley	<input type="checkbox"/>	2.8 Dune	<input type="checkbox"/>
2.3 Side slope of hill/mountain	<input type="checkbox"/>	2.6 Plain	<input checked="" type="checkbox"/>	2.9 Seafront	<input type="checkbox"/>
2.10 At sea	<input type="checkbox"/>				

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

Is the site(s) located on any of the following?

	Alternative S1:		Alternative S2 (if any):		Alternative S3 (if any):	
Shallow water table (less than 1.5m deep)	YES	NO ✓	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO ✓	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES ✓	NO	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO ✓	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO ✓	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO ✓	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO ✓	YES	NO	YES	NO
An area sensitive to erosion	YES ✓	NO	YES	NO	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. Information in respect of the above will often be available as part of the

BASIC ASSESSMENT REPORT

project information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted.

4. GROUNDCOVER

Indicate the types of groundcover present on the site. The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld - good condition ^E	Natural veld with scattered aliens ^E ✓	Natural veld with heavy alien infestation ^E	Veld dominated by alien species ^E	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an “E” is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn’t have the necessary expertise.

5. SURFACE WATER

Indicate the surface water present on and or adjacent to the site and alternative sites?

Perennial River	YES	NO ✓	UNSURE
Non-Perennial River	YES	NO ✓	UNSURE
Permanent Wetland	YES ✓	NO	UNSURE
Seasonal Wetland	YES ✓	NO	UNSURE
Artificial Wetland	YES	NO ✓	UNSURE
Estuarine / Lagoonal wetland	YES	NO ✓	UNSURE

If any of the boxes marked YES or UNSURE is ticked, please provide a description of the relevant watercourse.

The origin of the Bloemspruit, although not well-defined, is located to the east of the proposed road development. It flows from north east to south west and a wetland area is associated with the stream. Refer to the Biodiversity and Ecological Assessment Report in Appendix D for more detail.

6. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

Natural area ✓	Dam or reservoir	Polo fields
Low density residential ✓	Hospital/medical centre	Filling station ^H
Medium density residential ✓	School	Landfill or waste treatment site
High density residential	Tertiary education facility	Plantation
Informal residential ^A	Church	Agriculture
Retail commercial & warehousing	Old age home	River, stream or wetland ✓
Light industrial	Sewage treatment plant ^A	Nature conservation area
Medium industrial ^{AN}	Train station or shunting yard ^N	Mountain, koppie or ridge
Heavy industrial ^{AN}	Railway line ^N	Museum
Power station ✓	Major road (4 lanes or more) ^N ✓	Historical building
Office/consulting room	Airport ^N	Protected Area
Military or police base/station/compound ✓	Harbour	Graveyard
Spoil heap or slimes dam ^A	Sport facilities	Archaeological site ✓
Quarry, sand or borrow pit	Golf course	Other land uses (describe)

If any of the boxes marked with an "N" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

Major roads nearby include the N1 (to the north west of the site). As the proposed development is a road, no impacts anticipated.

If any of the boxes marked with an "An" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

Not applicable.

If any of the boxes marked with an "H" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

Not applicable.

Does the proposed site (including any alternative sites) fall within any of the following:

Critical Biodiversity Area (as per provincial conservation plan)	YES	NO ✓
Core area of a protected area?	YES	NO ✓
Buffer area of a protected area?	YES	NO ✓
Planned expansion area of an existing protected area?	YES	NO ✓
Existing offset area associated with a previous Environmental Authorisation?	YES	NO ✓
Buffer area of the SKA?	YES	NO ✓

If the answer to any of these questions was YES, a map indicating the affected area must be included in Appendix A.

A portion of the proposed road does fall within the Metropolitan Open Space System (MOSS) of the Mangaung Metropolitan Municipality (refer to map in Appendix A).

7. CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the site? If YES, explain:

YES	NO ✓
Uncertain	

If uncertain, conduct a specialist investigation by a recognised specialist in the field (archaeology or palaeontology) to establish whether there is such a feature(s) present on or close to the site. Briefly explain the findings of the specialist:

The site borders the Tempe Military Base and cultural remains found can be grouped into military related finds (empty shells), wrecks of various types of vehicles, building rubble dumps, scrap metal without context as well as glass and ceramic sherds without context. The study area can accordingly not be assigned a heritage grade of significance. Refer to the Heritage Impact Assessment in Appendix D for more detail.

Will any building or structure older than 60 years be affected in any way?

Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

YES	NO ✓
YES	NO

If YES, please provide proof that this permit application has been submitted to SAHRA or the relevant provincial authority.

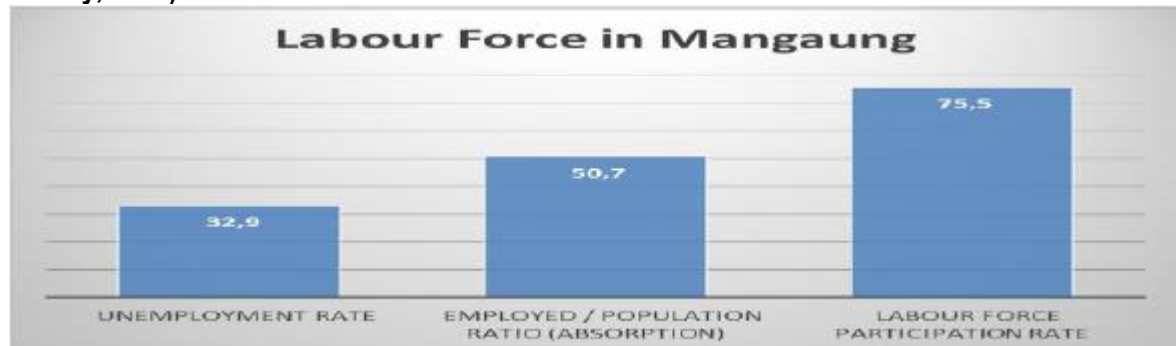
8. SOCIO-ECONOMIC CHARACTER

a) Local Municipality

Please provide details on the socio-economic character of the local municipality in which the proposed site(s) are situated.

Level of unemployment:

Unemployment Status as per the MMM's IDP 2018/2019 (according to Stats SA Community Survey, 2016)

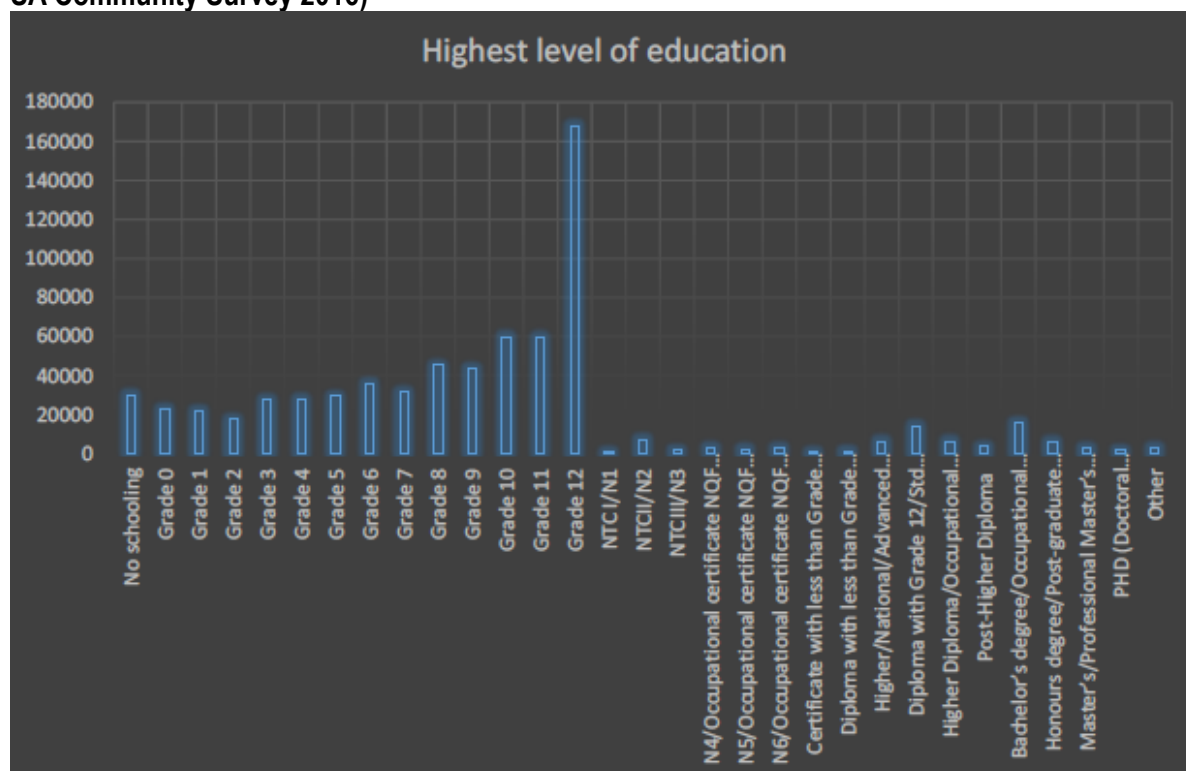


Economic profile of local municipality:

The Mangaung Metropolitan Municipality (MMM) is comprised of Bloemfontein, Botshabelo and Thaba Nchu, of which Bloemfontein is the economic hub of the municipal area. Mangaung is the largest contributor of GDP in the province. According the MMM's Integrated Development Plan (IDP) 2018/2019 and based on the 2016 community survey, MMM has a population of 787 929. Bloemfontein is considered the sixth largest city in South Africa and is also the judicial capital. Bloemfontein is located on the N1 between Gauteng and the Western Province and on the N8 between Kimberley to the west and Lesotho to the east. The economy of the city is strongly driven by community services, trade, finance and transport.

Level of education:

Highest level of education in Mangaung (copied from MMM's IDP 2018/2019 and based on Stats SA Community Survey 2016)



b) Socio-economic value of the activity

What is the expected capital value of the activity on completion?

R 65,6 million

What is the expected yearly income that will be generated by or as a result of the activity?

R 0

Will the activity contribute to service infrastructure?

YES ✓

NO

Is the activity a public amenity?

YES

NO ✓

How many new employment opportunities will be created in the development and construction phase of the activity/ies?

40

What is the expected value of the employment opportunities during the development and construction phase?

R 3,4 million

What percentage of this will accrue to previously disadvantaged individuals?

75 %

How many permanent new employment opportunities will be created during the operational phase of the activity?

0

What is the expected current value of the employment opportunities during the first 10 years?

R 0

What percentage of this will accrue to previously disadvantaged individuals?

%

9. BIODIVERSITY

Please note: The Department may request specialist input/studies depending on the nature of the biodiversity occurring on the site and potential impact(s) of the proposed activity/ies. To assist with the identification of the biodiversity occurring on site and the ecosystem status consult <http://bgis.sanbi.org> or BGIShelp@sanbi.org. Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/EAP's responsibility to ensure that the latest version is used. A map of the relevant biodiversity information (including an indication of the habitat conditions as per (b) below) and must be provided as an overlay map to the property/site plan as Appendix D to this report.

- a) **Indicate the applicable biodiversity planning categories of all areas on site and indicate the reason(s) provided in the biodiversity plan for the selection of the specific area as part of the specific category)**

Systematic Biodiversity Planning Category				If CBA or ESA, indicate the reason(s) for its selection in biodiversity plan
Critical Biodiversity Area (CBA)	Ecological Support Area (ESA) ✓	Other Natural Area (ONA)	No Natural Area Remaining (NNR)	Most likely a support area for watercourses.

- b) **Indicate and describe the habitat condition on site**

Habitat Condition	Percentage of habitat condition class (adding up to 100%)	Description and additional Comments and Observations (including additional insight into condition, e.g. poor land management practises, presence of quarries, grazing, harvesting regimes etc).
Natural	%	
Near Natural (includes areas with low to moderate level of alien invasive plants)	50 %	
Degraded (includes areas heavily invaded by alien plants)	50 %	Degradation and transformation of the natural vegetation due to a long history of human activities. Dumping of waste and building rubble was also evident.
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	%	

c) Complete the table to indicate:

- (i) the type of vegetation, including its ecosystem status, present on the site; and
- (ii) whether an aquatic ecosystem is present on site.

Terrestrial Ecosystems		Aquatic Ecosystems							
Ecosystem threat status as per the National Environmental Management: Biodiversity Act (Act No. 10 of 2004)	Critical	Wetland (including rivers, depressions, channelled and unchannelled wetlands, flats, seeps pans, and artificial wetlands)			Estuary		Coastline		
	Endangered								
	Vulnerable								
	Least Threatened ✓	YES ✓	NO	UNSURE	YES	NO	YES	NO	

d) Please provide a description of the vegetation type and/or aquatic ecosystem present on site, including any important biodiversity features/information identified on site (e.g. threatened species and special habitats)

According to Mucina & Rutherford (2006) the area consists of Winburg Grassy Shrubland (Gh 7). This vegetation type is currently listed as being of Least Concern (LC) under the National List of Threatened Ecosystems (Notice 1477 of 2009) (National Environmental Management Biodiversity Act, 2004). It is not currently subjected to pronounced development pressures and has a wide area of distribution. The north eastern section is listed as an Ecological Support Area 2 whilst the south western section is listed as Degraded under the Free State Province Biodiversity Management Plan (2015) (Refer to Map 3 in the Report on the Biodiversity and Ecological Assessment in Appendix D). Although it does not fall within a Critical Biodiversity Area it still functions in ecological support of watercourses.

The Bloemspruit originates in the eastern portion of the area and flows from north east to south west. The wetland area associated with the stream has been modified to a significant degree and is in a degraded condition.

A few specimens of the protected geophyte, *Brunsvigia radulosa* were identified. Although widespread they are still of some conservation value and where they will be affected by the road construction it is recommended that the necessary permits be obtained to transplant them to adjacent areas where they will remain unaffected.

The site proposed for the road development has been rated as being acceptable for development. This is mostly as a result of the degraded condition of the site but is also subject to the implementation of adequate mitigation such as the exclusion of the wetland area from the development. The site also contains a high amount of exotic weeds and invaders.

Taken from the Report on the Biodiversity and Ecological Assessment by
Darius van Rensburg, included in Appendix D.

SECTION C: PUBLIC PARTICIPATION

1. ADVERTISEMENT AND NOTICE

Publication name	<i>Bloemfontein Courant & Die Volksblad</i>	
Date published	10 January 2019 & 11 January 2019	
Site notice position	Latitude	Longitude
	29° 04' 44.57" S	26° 11' 06.60" E
	29° 04' 37.76" S	26° 11' 20.94" E
	29° 04' 33.55" S	26° 11' 30.94" E
	29° 04' 32.65" S	26° 11' 31.35" E
Date placed	11 January 2019	

Include proof of the placement of the relevant advertisements and notices in Appendix E1.

2. DETERMINATION OF APPROPRIATE MEASURES

Provide details of the measures taken to include all potential I&APs as required by Regulation 41(2)(e) and 41(6) of GN 326

Key stakeholders (other than organs of state) identified in terms of Regulation 41(2)(b) of GN 326

Title, Name and Surname	Affiliation/ key stakeholder status	Contact details (tel number or e-mail address)
Me Stacey Canham	SANRAL Eastern Region	ERStatutory@nra.co.za
Mr Lourence Bango	Centlec	lourence.bango@centlec.co.za
Mr Harms	Bible Society of South Africa	harmse@biblesociety.co.za
Mrs Cecilia Kruger	Heritage Foundation	bd@vtm.org.za
Prof Barry Frey	Rapportryers	27834621963@vodamail.co.za
Mrs Karin Botha	Dameskring	karnbotha@hotmail.com
Dr Chris Verwoerd & Mr Lewis Strauss	Bloemfonteinse Afrikaner Kultuurraad	chris.verwoerd@gmail.com ljstrauss@lantic.net
Dr Chris Verwoerd	Koördinerende Afrikaner Kultuurraad	chris.verwoerd@gmail.com
Prof Piet Strauss	Nasional Vrouemonument Kommissie	straussp@ufs.ac.za
Mr Gert Theart	Vriende van die Oorlogsmuseum	gert.theart@vodamail.co.za
Mr Willie Engelbrecht	Vriende van die Bron van Herinnering	willie7@vodamail.co.za
Mr Willie Engelbrecht	Die Voortrekkers	willie7@vodamail.co.za
Mr Lambertus van Rensburg	Historiese Vereeniging van die Ou Presidensie	vanrensburgbj@gmail.com
Mr Mike Jacobs	Die Volkspede Vereeniging	tralie@internext.co.za
Mr Johan van Zyl	The War Museum	jvanzyl@anglo-boer.co.za
Mr Joseph Renaud &	Afriforum	joseph@afriforum.co.za

BASIC ASSESSMENT REPORT

Me Simonè Harms	simoneharms3@gmail.com
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Include proof that the key stakeholder received written notification of the proposed activities as Appendix E2. This proof may include any of the following:

- e-mail delivery reports;
- registered mail receipts;
- courier waybills;
- signed acknowledgements of receipt; and/or
- or any other proof as agreed upon by the competent authority.

3. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summary of main issues raised by I&APs	Summary of response from EAP
Existing traffic at Reynecke Avenue and Frans Kleynhans Road intersection.	This intersection will be upgraded as part of the road development and a new signalized intersection will be constructed.
Noise during construction.	Mitigation measures have been included in the EMPr to ensure lower levels of noise during construction.
Refer to the Comments & Responses Report in Appendix E for all the comments received to date.	

4. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments received from I&APs and respond to each comment before the Draft BAR is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to the Final BAR as Appendix E3.

5. AUTHORITY PARTICIPATION

Authorities and organs of state identified as key stakeholders:

Authority/Organ of State	Contact person (Title, Name and Surname)	Tel No	Fax No	e-mail	Postal address
Department of Police, Roads & Transport	Mr I. Roux	082 0599747		rouxiz@freetrans.gov.za	P.O. Box 119 Bfn 9300
SANDF	Brig-General S. Moyo / Lt.col van Niekerk	051 4021000		worksunitfs@gmail.Com	Private Bag X20599 Bfn

BASIC ASSESSMENT REPORT

					9300
Mangaung Metro Municipality (landowner)	Nelson Mofokeng	051 4058854		nelson.mofokeng@mangaung.co.za	
Mangaung Metro Municipality: Environmental Management	Mpolokeng Kolobe / Motheo Poee	051 4058577		mpolokeng.kolobe@mangaung.co.za	
Department of Water and Sanitation	Willem Grobler / Dakalo Ramuhovhi	051 4059000		ramuhovhid@dws.Gov.za	
SAHRA	Online submission				
FS Provincial Heritage Agency	Ms Mbatha	051 4104750		Mbatha.np@sacr.fs.gov.za	
Ward Councillor (Ward 48)	Cllr Johan Pretorius	072 2260222		xgrafies@gmail.com	

Include proof that the Authorities and Organs of State received written notification of the proposed activities as appendix E4.

In the case of renewable energy projects, Eskom and the SKA Project Office must be included in the list of Organs of State.

6. CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for any activities (linear or other) where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub-regulation to the extent and in the manner as may be agreed to by the competent authority.

Proof of any such agreement must be provided, where applicable. Application for any deviation from the regulations relating to the public participation process must be submitted prior to the commencement of the public participation process.

A list of registered I&As must be included as appendix E5.

Copies of any correspondence and minutes of any meetings held must be included in Appendix E6.

SECTION D: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014 as amended and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

1. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

Provide a summary and anticipated significance of the potential direct, indirect and cumulative impacts that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed. This impact assessment must be applied to all the identified alternatives to the activities identified in Section A(2) of this report.

Activity	Impact summary	Significance	Proposed mitigation
Alternative 1 (preferred alternative)			
Construction of a road between the Heritage Lifestyle Centre and Reynecke Avenue / Frans Kleynhans Road, Bloemfontein. (Refer to the EMPr for more detail.)	Direct impacts: <ul style="list-style-type: none"> Vegetation destruction 	Medium (without mitigation) Low (with mitigation)	<ul style="list-style-type: none"> Permits will be obtained for the protected geophyte, <i>Brunsvigia radulosa</i>, which will be transplanted to adjacent areas. Monitoring and eradication of exotic weeds.
	<ul style="list-style-type: none"> Visual impact 	Medium (without mitigation) Low (with mitigation)	<ul style="list-style-type: none"> Construction site must be kept neat and tidy at all times. No dumping of construction debris is allowed, especially within the open space areas.
	<ul style="list-style-type: none"> Noise impact 	Medium	<ul style="list-style-type: none"> Working hours must conform to local by-laws. Contractors will not be allowed to use sound amplification equipment on site. Construction workers

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
			<p>will be made aware of not creating noise unnecessarily such as hooting and shouting.</p> <ul style="list-style-type: none"> Complaints received must be reported to the ECO.
	<p>Indirect impacts:</p> <ul style="list-style-type: none"> Impact on terrestrial animal 	<p>Medium (without mitigation)</p> <p>Low (with mitigation)</p>	<ul style="list-style-type: none"> Hunting, capturing or trapping of mammals on site will be strictly prohibited. All human movement will be contained within the designated construction areas to prevent impacts on surrounding natural habitat.
	<ul style="list-style-type: none"> Impact on wetlands 	<p>High (without mitigation)</p> <p>Medium (with mitigation)</p>	<ul style="list-style-type: none"> The road layout has been amended to avoid wetlands. Water Use Licences need to be obtained from the DWS. The road design must include adequate storm water drainage structures. Disturbance and sedimentation of the wetland areas will be prevented as far as possible.
	<ul style="list-style-type: none"> Impact on heritage resources 	<p>Low (with and without mitigation)</p>	<ul style="list-style-type: none"> Mitigation required for neighbouring Erf 22011 (which includes the lay down areas) should take place before road construction can commence. The Chance Find Procedures document must be signed and committed to.

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
			<ul style="list-style-type: none"> Should any historical or archaeological artefacts be unearthed, the ECO and Archaeologist must be notified.
	Cumulative impacts:		
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
Alternative 2			
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
Alternative 3			
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
	Direct impacts:		
	Indirect impacts:		
	Cumulative impacts:		
No-go option			
No road development, site remains as is.	Direct impacts: <ul style="list-style-type: none"> No job creation. 	Medium	
	Indirect impacts: <ul style="list-style-type: none"> Increase in traffic 	High	

BASIC ASSESSMENT REPORT

Activity	Impact summary	Significance	Proposed mitigation
	Cumulative impacts:		

A complete impact assessment in terms of Regulation 19(3) of GN 326 must be included as Appendix F.

2. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

Alternative A (preferred alternative)

The proposed development of a road between the Heritage Lifestyle Centre and Reynecke Avenue / Frans Kleynhans Road is required mainly to accommodate additional traffic anticipated from the Heritage Lifestyle Centre. The new road, with the internal roads of the Heritage Lifestyle Centre, will also link up with Nelson Mandela Drive.

The site is currently within the grounds of the Tempe Military Base and owned by the Mangaung Metropolitan Municipality. A section of the site for the proposed road does fall within the Metropolitan Open Space System (MOSS) of the Mangaung Metropolitan Municipality (MMM). The road is however municipal bulk infrastructure, which is an allowed land-use within open spaces and an amendment of the SDF is therefore not required. MMM comments will also be included, once received.

There are wetland areas on site, associated with the origin of the Bloemspuit. The proposed road layout has been amended to exclude these areas and mitigation measures are proposed to ensure that the wetland areas are not impacted on. Design measures with regard to storm water management will also be implemented. The protected geophyte plant species, namely the *Brunsvigia radulosa*, was found on site and the transplanting of these plants to surrounding open areas (with permits) is the mitigation measure proposed.

With regard to possible impact on heritage resources, although the site is adjacent to monuments and a site previously used as a concentration camp in the Anglo Boer War, the site for the proposed road does not have any grade of significance and the findings were mainly military, building rubble and scrap metal. Mitigation is therefore only for chance finds during construction.

Mitigation measures for noise during the construction phase have been provided. Noise during the construction phase will also be temporary.

The EMPr included in Appendix G lists mitigation measures that should be adhered to prior to, during and post construction. It is the EAP's opinion that the site is suitable for the proposed road development and that, if mitigation measures are adhered to, environmental impacts anticipated can

be kept to a minimum.

Alternative B

Alternative C

No-go alternative (compulsory)

The no-go alternative refers to not developing the road and leaving the site undeveloped. Considering the location of the site, i.e. within the built environment of Bloemfontein, the degraded state of the vegetation and least concern (LC) for vegetation type, leaving the site undeveloped will not contribute significantly to conservation. The wetland areas are however considered sensitive, but the exclusion and protection thereof are possible.

The proposed road is necessary to accommodate traffic to and from the Heritage Lifestyle Centre thereby providing a link to Nelson Mandela Drive and vital for the Heritage Lifestyle Centre. With regard to indirect and cumulative impacts associated with increase in traffic, the no-go alternative is not recommended.

SECTION E. RECOMMENDATION OF PRACTITIONER

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the environmental assessment practitioner)?

YES ✓	NO
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If "NO", indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment).

--

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application.

- Water Use Licences need to be obtained from the Department of Water and Sanitation (DWS).
- Wetland areas must be avoided.
- All human movement will be contained within the designated construction areas to prevent impacts on surrounding natural habitat.
- The road design must include adequate storm water drainage structures.
- Disturbance and sedimentation of the wetland areas will be prevented as far as possible.
- Permits must be obtained for the protected geophyte, *Brunsvigia radulosa*, which will be transplanted to adjacent areas.
- Monitoring and eradication of exotic weeds needs to take place.
- The construction site must be kept neat and tidy at all times.
- No dumping of construction debris must be allowed, especially within the open space areas.
- Working hours must conform to local by-laws to limit noise disturbance during construction.
- Construction workers will be made aware of not creating noise unnecessarily such as hooting and shouting.
- Hunting, capturing or trapping of mammals on site will be strictly prohibited.
- Mitigation required for neighbouring Erf 22011 (which includes the lay down areas) should take place before road construction can commence.
- The Chance Find Procedures document (for any archaeological or heritage material findings) must be signed and committed to.

Is an EMPr attached?

YES ✓	NO
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The EMPr must be attached as Appendix G.

The details of the EAP who compiled the BAR and the expertise of the EAP to perform the Basic Assessment process must be included as Appendix H.

If any specialist reports were used during the compilation of this BAR, please attach the declaration of interest for each specialist in Appendix I.

Any other information relevant to this application and not previously included must be attached in Appendix J.

BASIC ASSESSMENT REPORT

NAME OF EAP

SIGNATURE OF EAP

DATE

SECTION F: APPENDIXES

The following appendixes must be attached:

Appendix A: Maps

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports (including terms of reference)

Appendix E: Public Participation

Appendix F: Impact Assessment

Appendix G: Environmental Management Programme (EMPr)

Appendix H: Details of EAP and expertise

Appendix I: Specialist's declaration of interest

Appendix J: Additional Information