Marais, Wanda

From:

Safety & Security Cllr - Rautenbach < grautenbach@mandelametro.gov.za>

Sent:

02 March 2016 01:50 PM

To:

Marais, Wanda

Cc:

JVanSchalkwyk@hatch.co.za; Ward8 NMMM; vanwyng@vwsa.co.za

Subject:

Re: Overhead powerline along Macon Road Lorraine

Attachments:

Re: Overhead powerline along Macon Road Lorraine

Good Afternoon Ms Marais

My attached email dated 15 February 2016 refers.

I also refer to email received from Sibongile Zenzile that SRK had been appointed to undertake an EIA in this regard.

I once again reiterate the following:

This office is not aware of any public participation taking place in this regard.

The last public participation regarding the 17th Ave, Walmer substation was on 2013/10/10.

Can you please inform me of the following:

- 1. when the public consultation process was done?
- 2. why my office was not informed?

I wish to register my strongest objection in the way that this process was conducted in this ward.

Regards

GUSTAV RAUTENBACH
DA COUNCILLOR: WARD 8
DA CAUCUS CHIEF WHIP: NMBM
DA SAFETY AND SECURITY SPOKESPERSON (NMBM)
079 490 0054 (CELL)
041 368 7008 (OFFICE)
(ak)

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Please further note that any confidential, private or privileged information contained in the message is subject to legal privilege.

Marais, Wanda

From:

Ward8 NMMM <ward8@mandelametro.gov.za>

Sent:

15 February 2016 02:16 PM

To:

Hanlie Junius

Cc:

Safety & Security Cllr - Rautenbach; Eugene van Wyngaardt

Subject:

Re: Overhead powerline along Macon Road Lorraine

Attachments:

Overhead powerline along Macon Road Lorraine

Good Afternoon Hanlie

Attached email from Mr van Wyngaardt for your attention.

This office is not aware of any public participation taking place in this regard.

The last public participation regarding the 17th Ave, Walmer substation was on 2013/10/10.

Please address the residents concerns and inform me of then status quo.

Regards

GUSTAV RAUTENBACH
DA COUNCILLOR: WARD 8
DA CAUCUS CHIEF WHIP: NMBM
DA SAFETY AND SECURITY SPOKESPERSON (NMBM)
079 490 0054 (CELL)
041 368 7008 (OFFICE)

(ak)

Marais, Wanda

From:

van Wyngaardt, Eugene <vanwyng@vwsa.co.za>

Sent:

10 February 2016 08:18 AM

To:

Ward8 NMMM; Safety & Security Cllr - Rautenbach

Subject:

Overhead powerline along Macon Road Lorraine

Attachments:

ATT00001.txt; ATT00002.htm

Good day Councillor Rautenbach,

Please take note of my comments about the proposed overhead powerline along Macon Road Lorraine and please forward to the relevant powers in charge.

All the residents of Macon Road (Section A to B of the provided map in Public Participation invite), are opposed to the cable being hung overhead in front of our houses.

Apart from being unsightly it is, noisy and dangerous with negative health effects caused by long term exposure to the electrical field.

Over the past 10 ten years, three trenches have been dug and various lines laid along Macon Road. The last one being a conduit line. I was given the assurance that this was exactly for this reason, so that future cables could be accommodated without digging new trenches.

Furthermore, they are about to start digging a huge trench for a new stormwater system next to the railway line. WHY CAN THIS NOT BE UTILIZED TO LAY THE NEW CABLING. Surely there should be huge cost saving in this?

Best Regards

Eugene van Wyngaardt

295 Macon Road, Lorraine



WANDA MARAIS SRK Consulting (South Africa) (Pty) Limited e-mail: wmarais@srk.co.za

Our Ref: W PARKER/mdh/KIR2/0022

Your Ref:

22 February 2016

Dear Madam

PROPOSED 132 KV POWERLINE, WALMER

- 1. We refer to our letter dated 1 February 2016 enclosing our duly completed registration sheet reflecting our representation of Stylestar Properties 191 (Pty) Limited and Kirland Investments (Pty) Limited.
- 2. Whilst we await the basic assessment report to provide comprehensive comments in relation to the proposed 132 KV powerline, Walmer (the "PL") we are at this stage, requested to submit the following comments:

2.1 NO CURRENT SERVITUDE

- (a) We have not been able to identify any servitude over our client's property, Erf 4033 (Portion of Erf 1226, Fairview) (the "Property"), in favour of Eskom;
- (b) In addition, the Title Deed in respect of the Property, as also the main property (attached marked "Annexure A") reflect no special conditions over the Property in favour of Eskom;
- (c) In Bowring NO1 the Court held that:

"The nature of the right granted by the seller in this instance [servitude] appears from the following statement by Innes CJ in Willoughby's Consolidated Co v Copthall Stores Ltd 1918 AD 1 at 16:

'Now a servitude, like any other real right, may be acquired by agreement'."

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Grahamstown

DOCEX 20

t +27 46 622 2692

22 Somerset Street,

Grahamstown, 6140 Grahamstown, 6139, South Africa Grahamstown f +27 86 206 5517

grahamstown@jgs.co.za

Jouhert Galpin & Searle Inc., Reg No 1990/000957/21

MC Botha (Managing), Rowan Willcock, Hennie van Eck, Warren Parker, Salma Munshi, Leon van Staden, Dubennette Moolman

Innis Du Preez, Justin Malherbe, Owen Huxtable, Natasha Boshoff

Associates

Chris Walton, Lee-Anne Groener, Shakira Ahmed

Candidate Attorneys

Consultant

Daschia Pather, Shavne De Beer, Ashleigh Dyke, Stuart Hodgkinson, Anda Makovede, Lauren Cunningham — Mike Searle

¹ v Vrededorp Properties CC (271/2006) [2007] SCA 80 (RSA) (31 May 2007).

- (d) Therefore, servitudes are based on principles of contract and owing to such fact, agreement is an essential element. A party cannot be forced to conclude a servitude agreement. As such, a land owner such as our client would need to agree to a servitude, as well as the conditions relating thereto.
- (e) Eskom has issued a paper on the servitude negotiation process. No attempt has been made by Eskom to commence such process with our client.

2.2 Environmental Legislation

- (a) NEMA provides the framework in which projects such as construction of PL's are to be evaluated and approved;
- (b) It is under this legislation where one must consider the merits (pro's and con's) of the project, the appropriate manner, details of the exact location and type of construction;
- (c) Section 24(2) of NEMA provides for certain defined works to be listed in a schedule for which consent/authorisation is needed. The related schedule lists:
 - "The development and related operation of above ground cableways and funiculars",
 - as a listed activity in which a competent authority in the related province (MEC or delegated authority) must approve;
- (d) From the above it is clear that the construction of the PL's in question need to be confirmed by the competent authority after considering certain criteria. This criteria is listed in Section 2 and section 24(O) of NEMA.
- (e) The left hand column in the table below considers the principles to be applied in the relevant sections of NEMA and the right hand column considers the application of these principles to the current case. These are stated with prejudice to our client's entitlement to rely on the fact that no servitude has been requested in favour of Eskom that would permit it to construct the PL on our client's Property:

Applicable legislation	Application to facts
2(2) of NEMA	
Environmental management must place people and their needs at the	In order to achieve this aim underground cables should be laid.

forefront of its concern, and serve their Aboveground PL's have many adverse physical, psychological, developmental, effects including, health risks. The cost cultural and social interests equitably. and burden on the state of aboveground PL's owing to increased health costs is significant. 2(3) of NEMA Development must be socially, It would be more appropriate to lay environmentally and economically underground cables as aboveground sustainable. PL's are not economically and environmentally sustainable as maintenance and upkeep of the PL's aboveground would cost more (treatment of poles, wear on wires, exposed to elements). Also fire hazards are also negated should the cables be laid underground. 2(4)(a) of NEMA That the disturbance of ecosystems Should the aboveground PL's be built, and loss of biological diversity are this will affect animals and bird life in avoided, or, where they cannot be the area. Laying cables underground altogether avoided, are minimised and will negate most, if not all adverse remedied; effects, as animal life would not be less affected. That pollution and degradation of the The immediate environment would be environment are avoided, or, where degraded, in that animals would suffer they cannot be altogether avoided, are loss of habitat, and the environmental minimised and remedied; look would be unsightly if aboveground PL's are erected. That the disturbance of landscapes and A cultural heritage expert would need sites that constitute the nation's to be consulted, although, it can be cultural heritage is avoided, or where it said that the natural landscape would cannot be altogether avoided, is be negatively affected by aboveground minimised and remedied; PL's. That a risk-averse and cautious This is applicable in that the health approach is applied, which takes into danger from being exposed to such PL, account the limits of current knowledge especially schools nearby, residential about the consequences of decisions areas and a soon to be hospital. A

and actions;	prudent approach would be to construct an underground cable, which would not adversely affect the public's health, as well as the functioning of the hospital's equipment.
That negative impacts on the environment and on people's environmental rights be anticipated and prevented, and where they cannot be altogether prevented, are minimised and remedied.	This would be satisfied by running an underground cable, for the reasons stated above.
(2)(4)(g) of NEMA	
Decisions must take into account the interests, needs and values of all interested and affected parties, and this includes recognising all forms of knowledge, including traditional and ordinary knowledge.	The interests and needs of all the parties, both financial and health related would be best served by laying underground cables as opposed to aboveground PL's.
(2)(4)(i) of NEMA	
The social, economic and environmental impacts of activities, including disadvantages and benefits, must be considered, assessed and evaluated, and decisions must be appropriate in the light of such consideration and assessment.	These interests will be best served by laying underground cables as opposed to aboveground PL's. The severe financial impact on the landowner in this specific instance must be considered.
Section 24(O) of NEMA	
Any pollution, environmental impacts or environmental degradation likely to be caused if the application is approved or refused;	The immediate environment would be degraded, in that animals would suffer loss of habitat, and the environmental look would be unsightly if aboveground PL's are erected.
Measures that may be taken— (aa) to protect the environment from harm as a result of the activity which is	This can be achieved by the construction of underground cables for the same reasons as stated above.

the subject of the application; and (bb) to prevent control or mitigate any pollution to the environment or any negative environmental impacts or environmental degradation;	
The ability of the applicant to implement mitigation measures and to comply with any conditions subject to which the application may be granted;	Mitigation measures would be to construct an underground cable system.
Where appropriate, any feasible and reasonable alternatives to the activity which is the subject of the application and any feasible and reasonable modifications or changes to the activity that may minimise harm to the environment;	Once again laying underground cables will provide satisfactory adaptation of running aboveground PL's and would minimise a multitude of negative impacts on the environment, general public and land owner.

- (f) Section 24E of NEMA makes the authorisation contingent on the transfer of rights and obligations in terms of land upon which such activities are to be conducted. Therefore, a servitude would need to be concluded first;
- (g) The regulations pertaining to EIA state that if the proponent is not the owner or person in control of the land on which the activity is to be undertaken, the proponent must, before applying for an environmental authorisation in respect of such activity, obtain the written consent of the landowner or person in control of the land to undertake such activity on that land. No such written consent has been sought or obtained;

2.3 Public health concerns

- (a) There are numerous medical journal articles relating to the dangers and health risks of exposure to electromagnetic fields associated with being in close proximity to aboveground PL's. Further, many countries have imposed strict rules relating to the construction of aboveground PL's near schools, hospitals and residential areas;
- (b) Eskom has compiled a comprehensive guideline on electricity distribution in SA, which details widths of servitudes critical areas etc. (all pertinent to the issues in question).² The paper provides that for a PL of 132kV, a minimum width is 18 metres from the centreline of the PL. This will give a minimum servitude distance

² Attached as "Annexure B".

of 36 metres. However, in the Background Information Document, a servitude width of 25 metres is indicated;

(c) In addition to the above Eskom is bound by section 24 of the constitution, which states that everyone has the right to an environment which, inter alia, is not harmful to their health or wellbeing, which is no achieved if the PL are constructed on our client's Property;

2.4 Foreign Law comparisons³

The EU has been proactive in addressing the environmental and health issues surrounding PL's and electromagnetic frequency associated therewith. The EU has passed recommendations which some EU countries have signed into law in their own countries. This means that the basic restrictions and reference levels must be applied. Member states in this group are the Czech Republic, Estonia, Greece, Hungary, Luxembourg, Portugal, Romania, Latvia, Denmark, Germany, Slovakia, France, Sweden, Netherlands and Austria.

<u>Luxembourg</u> also has a ministerial recommendation not to create any new living spaces in the immediate vicinity of overhead power lines (within 20 metres for 65 kilovolt lines and 30 metres for 100 to 220 kilovolt lines).

In *France* the limits only apply to new or modified installations.

In <u>Germany</u> and <u>Slovakia</u> the reference levels in the Recommendation are applied as <u>de facto</u> exposure limits, without reference to basic restrictions.

In <u>Denmark</u> the Danish National Board of Health (Sundhetsstyrelsen) recommended in 1993 not to build new homes or children's institutions close to power lines or new power lines close to homes or children's institutions.

In the <u>Netherlands</u> the Ministry of Infrastructure and the Environment has recommended that local authorities and grid companies avoid creating new situations with long-term stay of children in areas close to overhead high-voltage power lines with annually averaged magnetic flux density greater than 0.4 microtesla (0.4% of the reference level in the Recommendation). This advice was given because of epidemiological studies that found an association between residence near overhead power lines and childhood leukaemia.

In <u>Sweden</u> they have in conjunction with the Environmental code and legislation of 1998, provided guidance for policy makers which explains how the precautionary principle is to be applied to electric and magnetic fields of 50 hertz. For existing situations, exposure to a magnetic flux density that differs strongly

³ http://ec.europa.eu/health/electromagnetic_fields/docs/emf_comparision_policies_en.pdf

from natural background (0.1% of the reference level in the Recommendation) must be reduced when possible at reasonable cost and with reasonable consequences. For new situations, an effort has to be made to reduce the exposure when designing and constructing sources.

<u>Latvia</u>, <u>Austria</u> and <u>Czech Republic</u> have all ratified the EU guidelines in 2015, although English versions of their additional requirements are not available.

- 3. For the above initial reasons, our client's objection to the proposed construction of the PL's
- 4. We trust you will find the above in order.

Yours faithfully

JØUBERT GAUPIN SEARLE

WARREN PARKER

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Encl.

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NZELENZELE, PRESTON & MEDCALF, Professional Land Surveyors, East London

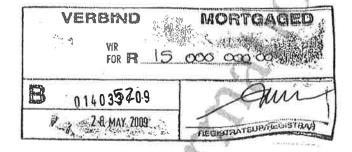
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E : Flat from F : 20mm Round Iron Peg All others are 12mm Round Iron Pegs REMAINDER OAK ROAD 15,74m F Scale 1:3000 A B C D E F G 5,1846 Hoctares Erf 4033 (Portion of Erf 1226) Fairview Situate in the Nelson Mandela Metropittan Municipality Administrative District of Port Elizabeth Province of the Eastern Cape Surveyed in November 2008 by me The diagram is annexed to No. T 24105/2009 annexed to Transfer D/T 199283151 REMAINDER REMAINDER REMAINDER REMAINDER FROM I 1226) Fairview Situate in the Nelson Mandela Metropittan Municipality Administrative District of Port Elizabeth Professional Land Surveyo This diagram is annexed to No. T 24105/2009 annexed to Transfer D/T 199283151	BC 255,86 CD 206,73 DE 233,76 EF 43,17 FG 58,73	332 28 10 62 30 30 152 36 20 273 22 20 183 25 40 242 30 30 425P5	BCDEFG	± 0,00 -49 320,82 -49 329,17 -49 447,44 -49 264,06 -49 156,50 -49 199,60 -49 203,11 -51 170,80	± 0,00 +3 761 022,44 +3 761 025,00 +3 761 251,99 +3 761 347,30 +3 761 139,63 +3 761 142,33 +3 761 083,74 +3 761 248,99	Approved Approved Approved Surveyor-General 2009.01.16				
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	Regist	rar of Deeds			Gen.	Plan. 0590009				

54 MOSTERT & BOSMAN ATTORNEYS, NOTARIES & CONVEYANCERS PLETTENBERG BAY

R. 1200.00.

Prepared by me

CONVEYANCER Marais CC



DEED OF TRANSFER

2 2 JUN 2009 OLIVIER YULANDI

BE IT HEREBY MADE KNOWN THAT

T 0241067.09

PETRUS JOHANNES CILLIE

appeared before me, REGISTRAR OF DEEDS at Cape Town, the said appearer being duly authorised thereto by a Power of Attorney which said Power of Attorney was signed at PLETTENBERG BAY on 25 JANUARY 2009 granted to him by

a

WONDERWONINGS PROPERTIES (PROPRIETARY) LIMITED No. 1969/014285/07



GhostConvey 10.2.6.14

Page 2

And the appearer declared that his said principal had, on 10 June 2008, truly and legally sold by Private Treaty, and that he, the said Appearer, in his capacity aforesaid, did, by virtue of these presents, cede and transfer to and on behalf of:

STYLESTAR PROPERTIES 191 (PROPRIETARY) LIMITED NO. 2008/003454/07

or its Successors in Title or assigns, in full and free property

ERF 4033 FAIRVIEW SITUATE IN THE NELSON MANDELA BAY METROPOLITAN MUNICIPALITY, ADMINISTRATIVE DISTRICT OF PORT ELIZABETH, PROVINCE OF THE EASTERN CAPE

IN EXTENT 5,1845 (FIVE COMMA ONE EIGHT FOUR FIVE) HECTARES

FIRST REGISTERED and still held by Certificate of Registered Title No. T. 24105 09. with Diagram SG No. 7003/2008 relating thereto

Jr.

Page 3

WHEREFORE the said Appearer, renouncing all right and title which the said

WONDERWONINGS PROPERTIES (PROPRIETARY) LIMITED No. 1969/014285/07

heretofore had to the premises, dld in consequence also acknowledge it to be entirely dispossessed of, and disentitled to the same, and that by virtue of these presents, the said

STYLESTAR PROPERTIES 191 (PROPRIETARY) LIMITED No. 2008/003454/07

or its Successors in Title or assigns, now is and henceforth shall be entitled thereto, conformably to local custom, the State; however reserving its rights, and finally acknowledging the purchase price to be the sum of R15 000 000,00 (FIFTEEN MILLION RAND).

IN WITNESS WHEREOF, I the said Registrar, together with the Appearer, have subscribed to these presents, and have caused the Seal of Office to be affixed thereto.

THUS DONE and EXECUTED at the Office of the REGISTRAR OF DEEDS at Cape Town on 2 8 MAY 2009 2009

Vac

In my presence

REGISTRAR OF DEEDS

()

Shuat .

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GhostConvey

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Best regards, The GhostConvey Team

Website: www.ghostconvey.co.za email: csc@korbitec.com 08611-GHOST (0861 144 678)

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96



Prepared by me.

CONVEYANCER

Z.O. ADAM



T 000000102/2007

DEED OF TRANSFER

DATA / VERIFY

0 2 APR 2007

BE IT HEREBY MADE KNOWN:

TAPINACHO D

THAT MARIUS STOCKENSFROM appeared before me, the REGISTRAR OF DEEDS at CAPE TOWN, he the Appearer, being duly authorised thereto by a Power of Attorney granted to him by the PROVINCIAL GOVERNMENT OF THE EASTERN CAPE

dated 15 January 2007 and signed at BHISHO.

AND the said Appearer declared that:

Whereas the former Development and Housing Board sold Erf 1214 Fairview, measuring 103,4887 on 31 October 1985 for the amount of R2 112 500-00, to Wonderwonings Elendomme Beperk;

And Whereas the former Development and Housing Board transferred Erf 1609, a portion of Erf 1214 Fairview, measuring 25,0751 Hectares to Wonderwonings Eiendomme Beperk in partial fulfilment of its obligations in terms of the above agreement as per Deed of Transfer No. T83152/1992;

And Whereas the Development and Housing Board on 23 October 1990 sold Erf 1608 Fairview for an amount of R226 582-74 to Wonderwonings Eiendomme Beperk;

And Whereas Wonderwonings Eiendomme Beperk agreed on 6 August 1992 and subsequently transferred Erf 571 Fairview to the former Development and Housing Board as per Deed of Transfer No. T56228/1992 on condition that the property be included in the hereinafter mentioned consolidation, the components of which have to be transferred to Wonderwonings Eiendomme Beperk in terms of the above agreements;

And Whereas the above Remainder Erf 1214 Fairview, Erf 1609 Fairview and Erf 671 Fairview were consolidated and are now described as Erf 1226 Fairview as per Deed of Transfer No. T83151/1992;

And Whereas the former Development and Housing Board transferred Erf 1349 a portion of Erf 1226 Fairview, measuring 30,2630 Hectares to Wonderwonings Eiendomme Beperk as per Deed of Transfer No T83151/1992 in partial fulfillment of its above contractual obligations;

And Therefore he, in his capacity aforesaid, did by these presents, cede and transfer, in full and free property, to and on behalf of

WONDERWONINGS EIENDOMME BEPERK Registration Number: 1969/014285/06

its successors-in-title or assigns:

REMAINDER ERF 1226 FAIRVIEW, in the Nelson Mandela Bay Metropolitan Municipality, Division Port Elizabeth, Province of the Eastern Cape.

MEASURING:

60,1071 (Sixty Comma One Nil Seven One)

Hectares ...

M

FIRST TRANSFER AND STILL HELD BY DEED OF TRANSFER NO. T83151/1992 WITH DIAGRAM NO. 5766/1990 RELATING THERETO.

IN WITNESS WHEREOF, I, the said REGISTRAR, together with the Appearer, have subscribed to these presents, and have caused the seal of office to be affixed thereto.

THUS DONE AND EXECUTED in the Office of the REGISTRAR OF DEEDS at CAPE TOWN on the Study day of February in the year of Our Lord Two Thousand and Seven, (2007).

In my presence,

REGISTRAN OF DEEDS

A.

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Deeds Office Microfilm reference Cape Town

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Best regards, The GhostConvey Team

Website: www.ghostconvey.co.za email: csc@korbitec.com 08611-GHOST (0861 144 678)

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FAIRVIEW, 4033, 0 (CAPE TOWN) GENERAL INFORMATION

Date Requested

2016/02/03 10:40

Deeds Office

CAPE TOWN

Information Source

DEEDS OFFICE

Reference



PROPERTY INFORMATION

Property Type

ERF

Erf Number

4033

Portion Number

0

Township

FAIRVIEW

Local Authority

NELSON MANDELA BAY METROPOLITAN MUNICIPALITY

Registration Division

PORT ELIZABETH RD

Province

EASTERN CAPE

Diagram Deed

T24105/2009

Extent

5,1845H

Previous Description

.....

LPI Code

C05900090000403300000

OWNER INFORMATION

Owner 1 of 1

Company Type

COMPANY

Registration Number

Name

STYLESTAR PROP 191 PTY LTD

Title Deed

200800345407 T24106/2009

Registration Date

2009/05/28

Purchase Price (R)

15,000,000

Purchase Date

2008/06/10

Share

Microfilm Reference

Multiple Properties

NO

Multiple Owners

NO

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Document Classification: Controlled Disclosure

Title:

Distribution Guide - Part 19:

BUILDING LINE RESTRICTIONS,

SERVITUDE WIDTHS, LINE

SEPARATIONS AND

CLEARANCES FROM POWER

LINES

Unique Identifier:

Document Type:

DGL

Revision:

0

34-600

Published date:

MARCH 2011

Total pages:

20

Review date:

MARCH 2016

COMPILED BY

APPROVED BY

FUNCTIONAL RESP

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Study Committee

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3.3.2011

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Foreword

The Land and Rights Work Group was established under the Land Development Study Committee for the purpose of compiling Standards, Procedures, Guidelines and training material for related engineering and construction practices within Eskom Distribution.

Revision history

This revision cancels and replaces revision no 0 of document no. SCSAGAAW2

Date	Rev.	Clause	Remarks
March 2011	0		Compiled By: MM Le Roux
		790	Option document was amended. Reference numbers changed Agreement between Eskom and Telkom was removed.
		æ	Draft watermark added
May 2004	0		Compiled By: V Constable, J C Greyling Document approved
Aug 2002	Α		Compiled By: V Constable, J C Greyling
			Document compiled and numbered in accordance with the Eskom Documentation System

Authorisation

This document has	been seen and accepted by:	
Name	Designation	
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Introduction

The question of the width of Eskom's power line servitudes on privately owned land is very sensitive and has legal, health and safety as well as emotional connotations attached to it. This is even more so in areas with high land values or where buildings are in close proximity to the selected route (the latter being the 'critical areas'). The final decision taken on the width of the servitude will ultimately determine how effectively Eskom can exercise its rights over the property in its effort to supply affordable electrical power. This while taking all health and safety precautions into account, as well as maintaining good relations with property owners.

The Electrical Machinery Regulations, promulgated under Section 43 of the Occupational Health and Safety Act 85 of 1993, and SANS 10280 provide for statutory clearances.

The current regulation 15(1) published in Government Gazette No 11458 of 12 August 1988. "The electric conductors and other wires" as set out in aforementioned regulation are not stationary and hang in catenary curves which vary by a considerable amount depending on a number of factors.

Eskom separation and tree and building restriction distances as currently being interpreted, are constant along the longitudinal length of the power line. These constant distances must therefore take into account the worst case distance condition, under normal circumstances at the mid-span point.

In many of the older servitudes the building restriction refers to the outside conductors of the power line. In most cases the figure of 30 feet was used as the distance from the outside conductor. The majority of the above servitudes refer to 88kV and lower voltage power lines so the figure of 11 metres can be used to describe the building restriction from the centre line in these cases. The outside conductor was usually less than 1,86 metres (6,1 feet) from the centre phase in these types of construction [9,14m + 1,86m = 11,00m]. This archaic practice causes difficulty in interpretation when the line is re-built on a different structure type, but can not be ignored.

Keywords

A guideline for building line restrictions, servitude widths, line separations and clearances from Power lines.

Scope

This document is intended to be used as a guideline for the determination of separation distances between parallel power lines, the tree and building restriction distances of various voltage power lines, as well as the height clearance of various voltage power lines over man-made and natural objects. Also included is a section on Underground Cables dealing with different voltage requirements as well as cable bending radii.

It is important to note that this document is not a specification or a standard, but rather a guideline as mentioned above.

2 Normative references

The following documents contain provisions that, through reference in the text, constitute requirements of this guide. At the time of publication, the editions indicated were valid. All standards and specifications are subject to revision, and parties to agreements based on this guide are encouraged to investigate the possibility of applying the most recent editions of the documents listed below. Information on currently valid national and international standards and specifications can be obtained from the Information Centre and Technology Standardization Department at Megawatt Park.

Advertising on Roads and Ribbon Development Act 21 of 1940

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Eskom Conversion Act 13 of 2001

Electricity Regulation Act, Act 4 of 2006

Explosives Act 26 of 1956

SA National Roads Agency Limited and National Roads Act 7 of 1998.

Occupational Health and Safety Act 85 of 1993

National Railway Safety Regulator Act 16 of 2002

Telecommunications Act 103 of 1996

DST_34-1202, Rev.2, Distribution Standard Part 6; Sub-transmission Lines, Section 1: General.

DST_34-1191, Rev.0, Distribution Standard Part 4: Medium Voltage Reticulation, Section 0: General information and requirements for overhead lines up 33kV with conductors up to HARE/OAK.

DST_34-1192, Rev.0, Distribution Standard Part 4: Medium Voltage Reticulation, Section 1: Light conductors - Particular requirements for overhead lines up to 33 kV with conductors up to Hare conductor

DST_34-827: Rev.0, Procedure for the approval of work where Eskom's rights might be encroached upon and/or services/assets placed at risk.

DGL 34-363, Rev.4, Guide for the co-use of Eskom Servitudes

DGL_34-601, Rev.0, Powerline Route selection as part of sustainable development.

SANS 10280-1:2008

3 **Definitions and abbreviations**

3.1 **Definitions**

In this guide, unless the context indicates otherwise:

Power line: means an overhead line of whatever voltage, erected for the conducting of electricity.

Cable: means an underground service of whatever voltage, laid for the purpose of conducting electricity.

Tree and building restriction: means the horizontal distance measured perpendicularly from the centre line (on either side) within which no trees and buildings may encroach. Note that: use of the centre line, which is a visible physical feature to define the width of the building and tree restrictions in servitude and wayleave agreements, has been made here. The types of supporting structures and method of constructing Eskom power lines render the physical definition of the centre line of a power line easily recognisable.

Separation distance: means the horizontal distance between centre lines measured perpendicularly between any two power lines running parallel to each other. Due to the fact that a number of variables (such as the worst case weather conditions which are likely to be encountered) have to be considered, guidelines for distances only can be laid down. The present ruling in Eskom is that when two lines of dissimilar voltages are running parallel, the separation distance is determined by the separation requirements of the higher voltage line.

Clearance: means the radial distance from any electrical power transmission conductor and other wires of power lines. The Occupational Health and Safety Act 85 of 1993 and its regulations lay down the minimum clearances of electric conductors and other wires of power lines away from buildings and other structures. Non-compliance with the Act is non-negotiable.

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Right: means the right to traverse or occupy land and includes inter alia servitudes, surface right permits, wayleaves, exercised options, licences and permissions to occupy. These are sometimes described as Rights-of-Way.

Wayleave agreement: means an unregistered personal contract conferring electric power transmission rights to Eskom, which is generally regarded as being binding on successors in the title who have knowledge of the right. Eskom's minor power lines, which are rural and urban reticulation lines, are covered by wayleave agreements. These are not secured by registration in the Deeds Office. Eskom's security relies largely on the fact that power supplies are or can be made available from these lines. No compensation is paid for these rights because their presence is generally regarded as being an advantage to the property.

Servitude: means a parcel of electric power transmission rights granted to Eskom over the immovable property of another and registered or to be registered against the title deed of the land in question and usually involves the payment of compensation.

3.2 **Abbreviations**

Not applicable

Requirements 4

4.1 **Underground Cables**

Underground power cables are not visible physical features and it is for this reason that area servitudes should be acquired. The reasons for an area servitude is the fact that the underground cables can not be installed in a straight line and tend to zigzag in the cable trench. It sometimes happens that Eskom's rights for an overhead power line provide for underground cables as well. The wording, for example, would be as follows: "centre line of an Overhead Electric Power Transmission Line with Underground cables". In such cases the requirements set down in this document for underground cables do not apply. Refer to Part 22 of the DT Web for detailed information.

4.2 Different voltages and requirements

The following apply as regards underground cables:

- Increased voltages for underground cables do not necessarily require larger tree and building restriction areas (servitude areas) than the normal minimum required for, say, an 11kV underground cable. Different depths for cables are as follow. For high voltage cables (66kV and above), the depth must be 1.2 metres; medium voltage cables (11kV and 22kV), the depth must be 1 metre and for low Voltage cables (4 core cables), the depth must be 800mm.
- Eskom has through the years maintained that 'no excavations may be effected within 1.5 metres from any of its underground electric cables'. Therefore, keeping servitude areas for underground cables at minimum 3.00 metres wide is preferable. Where multiple cables are laid next to each other, 300mm spacing apart from each other is preferable.
- No attempt should be made either in the Deed or the servitude diagram to limit the servitude area to the right of laying one cable only. This should be left open for any possible future cables that could be laid in the area with separation distance (that will not affect the cooling of the cables or the cable rating) permitting.

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4.3 Cable bending radius

A cable bend at 90 degrees can never be achieved. Define a radius for the curve that would best suite the configuration at the bends. Furthermore, the 'area servitude' eliminates, to a great extent, the need to worry about what the cable does at the bends when precautionary measures are taken into consideration. In extreme cases, for example, breaking the curve into short cords would solve the problem — see figure below.

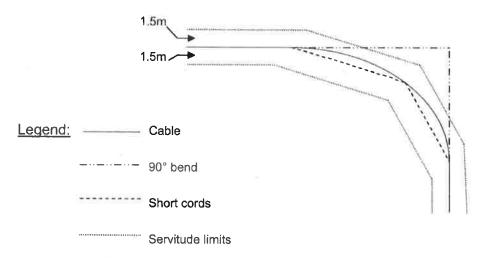


Figure 1

5 Overhead Lines

The question of servitude widths, and tree and building restriction distances have been central to long discussions and studies in the past and recently. Problems often arise due to stay positions of the angle strain structure at the bends falling outside the restriction area, commonly referred to as the "servitude area" in the Deed as well as the options. The problem occurs where stayed mono pole structures are utilised. Self supporting mono pole and lattice structures are recommended where an instance such as this could occur.

It is apparent from the studies that the tree and building restriction distance and parallel line separation distance will have to be obtained from the relevant Design Engineer for each individual project. Based on theoretical and practical principles, the servitude width is a function of the following:

- A = Horizontal conductor spacing at the structure (Generically a family of structures, e.g. self-supporting monopoles have roughly the same horizontal spacing between conductors for all types of structures; the standoff insulators are 1.2m long and the strain crossarms about the same).
- B = Conductor swing at 500Pa wind
- C = OHS Act Clearance to buildings, etc.

Therefore, required servitude width = $A + 2 \times (B+C)$

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This approach has been used very successfully in high-cost or critical areas (e.g. buildings close to proposed servitude). The best that has been achieved so far was where the land value was so high (through Stellenbosch vineyards) that, in that project, R700 000 in servitude costs were saved. This was achieved by using a single wood pole compact design over a comparatively short section of line, the reason being that, technically, the compact monopole 132kV lines can be accommodated on an even smaller servitude than 31.0m. The above equation can be used for any critical area where the applicable servitude width might not be achievable.

We can summarize the above by saying that one could have a scenario where your line servitude width changes depending on span length and cost of land. This means that it will depend on the span and the basic structure width (i.e. the horizontal conductor separation) that defines the servitude width, the other two (conductor and swing out span) being constant for a particular line. One could have shorter spans for narrower servitude width and balance the savings hereof against the cost of having more structures. It might be worthwhile to have more compact or alternative structures (which may have a cost implication) for such high land values.

The problem of stays extending beyond the servitude area can be eliminated, and should be negotiated and agreed upon with the landowner. From the Notarial Deeds of Servitudes as well as the Option documents it appears that Eskom's rights are only limited to activity within the servitude area except when it comes to the right of entry and the right to use existing roads. This is true since a 'servitude' gives only a limited right, which is also another reason why it is necessary to frame a servitude diagram in order to indicate the extent of these rights over the property concerned. Historical developments (Land Survey Manual: 8.17 Eskom's Consideration formula) also support this idea of a "restricted area". The normal clause in a deed for the rights acquired currently reads as follows:

- 1) The servitude/each of the servitudes shall include the following
 - the right to erect such structures and works on the property or to erect or lead such conductors, cables or appliances or other equipment on or over the property as may be necessary or convenient in exercising the right of servitude; and the right to erect such supporting mechanisms for structures and works with the possibility that it may reasonably extend beyond the servitude area as may be necessary or convenient to safely secure the structures or works.
 - b) the right to enter and be upon the property at any time in order to construct, erect, operate, use, maintain, repair, re-erect, alter or inspect the structures, works, appliances, conductors or cables on the property or in order to gain access to any adjacent property in the exercise of similar rights;
 - the right to use existing roads giving access to the property or roads running across the property and gates on the property and to erect in any fence such gates as may be necessary or convenient to gain access to or egress from the property and to gain access to any power line, telecommunication conductors, cables or accessory equipment;
- 2) the right to remove any trees, bush, material, grass or structures within the restricted area defined in clause 3 hereof and the right to cut or trim any tree in order to comply with the restrictions referred to in clause 3 hereof;
 - a) None of the above mentions 'supporting mechanisms', that is, stays. Sub-clauses 1.1 and 1.6 above come close to solving the problem but they could be interpreted to limit those rights within the servitude area only. It is for that reason that the standard clause 1.1 was changed in July 2002 to read as follows:
 - the right to erect such structures and works on the property or to erect or lead such b) conductors, cables or appliances or other equipment on or over the property as may be necessary or convenient in exercising the right of servitude; and the right to erect such supporting mechanisms for structures and works with the possibility that it may reasonably extend beyond the servitude area as may be necessary or convenient to safely secure the structures or works.

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The above, will eliminate the problem of stays falling outside the servitude area. The need to register a servitude at the strain points for, say, a circle with a radius of 20m from the centre peg at the bends, will also not be necessary. This clause can be justified to the landowner by the 10% solatium that is currently being paid as part of compensation. Should it be evident that stays falling outside the servitude area would adversely affect the property, and then an increase in solatium can be negotiated for during presentation for approval to the Land and Rights Tender Committee.

Over and above the rights mentioned above, the following restrictions are placed on the owner:

Extract from the official document.

c) With regards to the owner the following special restrictions are placed on the use of the property/ properties namely -

No building or structure may be erected or installed above or below the surface of the ground within metres of the centre line of any power line or within metres from any structure supporting mechanism.

No tree shall be planted within the servitude area.

No tree which will grow to a height in excess of the horizontal distance of that tree from the nearest conductor of any power line shall be planted within the vicinity of the power line.

No material which may in the opinion of Eskom endanger the safety of any power line shall be placed within metres of the centre line of any power line.

No mining activities or blasting operations shall be carried out within 500 metres of the centre line of any power line, without the prior written permission of Eskom.

5.1 Different voltages and requirements

As illustrated in the foregoing discussion on overhead lines, the following applies:

- For a number of reasons, one of which is that the clearance distance to a building in mid-span of
 power line would be different to the distance near a support structure due to conductor swing,
 Eskom has laid down servitude widths in excess of those required by the OHS Act.
- These building restrictions are constant throughout the length of power line of any particular voltage - conductor size, type of construction and route permitting. These may be reduced in accordance with the above where land values are very high.

Current practice within Eskom is that each region has its own standard building restrictions, which are applicable throughout that region. The guidelines given below are generally being used in the majority of the regions while the minority do not differ by more than 1-2 metres.

Table 1 below gives the building line restriction distances that should be used as guidelines. It is intended to lay down standard building restrictions that will be applicable to all regions within Eskom. The building restriction distances given are perpendicular from the centreline of the power line to the edge of the building restriction on one side of the power line. In order to obtain the total building restriction of a single power line the figures should be multiplied by two.

Separation distances between power lines that run parallel to each other are necessary in order to avoid excessive induction. The separation distance between two parallel lines is measured perpendicularly from the centre of the one line to the centre of the other line. Applicable separation distances for different operating voltages are also shown in Table 1.

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Table 1 - Guidelines for different voltages and requirements

Voltage	Building restriction on each side of centre line	· ·
1) All voltages below 22kV	9 metres	12 metres
2) 22kV	9 metres	12 metres
3) 33kV	11 metres	14 metres
4) 44kV	11 metres	14 metres
5) 66kV	11 metres	14 metres
6) 88kV	11 metres	14 to 15 metres
7) 132kV and Delta construction 275kV	18 metres	15 metres
	(15.5 - 20)	(21 - 24)
8) 220kV	23.5 metres	32 metres
	(19.5 - 21.0)	(25m)
9) 275kV (Horizontal)	23.5 metres	32 metres
10) 400kV	27.5 metres (Stayed)	35 metres
	(23.5 m Self-supportting)	
11) 765kV	40 metres	46 metres

Note: The information above is quoted from the Rights of Way Manual (Module 15979) and the information in brackets, where the two are different and inconsistent, is quoted from the Land Survey Manual.

Furthermore, it is strongly advised that the restriction distances for a particular voltage line not be assumed to be as given above, but that the question be discussed prior to commencing with route planning. Furthermore, in the context of this document, the following classification applies to the operating voltages shown in Table 1 above:

- 1 to 3 are classified as Distribution Lines (MV),
- 4 to 7 are classified as Sub-transmission Lines (HV), and
- 8 to 11 are classified as Transmission Lines (HV).

Note also that the ruling in Eskom is that when two lines of dissimilar voltages are running parallel, the separation distance be defined by the requirement of the higher voltage of the two lines.

The separation distance between **parallel lines for 132kv lines** of 15m will not be a problem when two monopole 132kv lines run parallel to each other, but could become a problem when a monopole 132kv line runs parallel to a lattice 132kv line.

It should therefore be considered that the **15m separation distance** only apply to monopole type construction lines running adjacent to each other.

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Where monopoles are planned to run adjacent to lattice type structures, each line needs to be looked at individually, since each lattice line has its own variables. These variables, as shown below, will need to be determined prior to a separation distance being decided on.

- a) The cross-arm length of the lattice suspension structure.
- b) The insulator length
- c) The type of conductor, conductor thickness and conductor mass
- d) The longest span between two suspension structures
- e) The maximum sag

The last four variables will have a major impact on the perpendicular distance that the conductor will swing out under heavy wind conditions. Once this has been calculated the formula to calculate the separation distance would then be as follows:

Line Separation = I + S1 + M + C + L + S2

Where: I = Length of stand off insulator from monopole

S1 = Swing out distance of conductor from monopole stand off insulator

M = Minimum safety distance as per the OHS Act

C = Length from centre of structure to insulator

S2 = Swing out distance of insulator and conductor from lattice structure

6 Line clearances

6.1 The Occupational Health and Safety Act 85 of 1993

The Occupational Health and Safety Act 85 of 1993 (the OHS Act), as mentioned previously, provides for **statutory clearances** – see Annex A (informative) on page 15 for details. Eskom and a number of other authorities (Roads Department, Transnet Telkom, etc.) have laid down minimum clearances to their works, which are in excess of those required by the OHS Act.

6.2 Various clearances

Table 2 below gives the minimum clearances as adopted and used for various operating voltages:

- 1 to 3 are classified as Distribution Lines (MV),
- 4 to 7 are classified as Sub-transmission Lines (HV), and
- 8 to 11 are classified as Transmission Lines (HV).

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Table 2 – Clearances (all distances are given in metres)

Description of Service	Т	Distri	bution		S	ub-Tra	nsmissi	on		Tra	ansmiss	ion	_
Description of dervice	6.6kV	11kV	22kV	33kV	44kV	66kV	88kV	132kV	220kV	275kV	400kV	533kV	765kV
Outdoor earth: minimum safet	0.2	0.2	0.3	0.4	0.5	0,8	1.0	1.5	1.9	2.4	3,2	3.7	5.5
Phase to phase	0.2	0.3	0.4	0.6	0.7	1.0	1.2	1.7	2.3	3.0	4.0	N/A	6.1
Ground clearnce inside in	5.5	5.5	5.5	5,5	5.7	5.9	6.3	6.7	6.7	7.2	8,1	8.6	15.0
and outside townships out	5.0	5.1	5.2	5.3		0.0	0,0	0,1	3 17	1.2	0.1	0.0	10.0
Building structures not part o power line	3.0	3.0	3.0	3.0	3.0	3.2	3.4	3.8	4.2	4.7	5.6	6.1	10.0
Transnet walkways and foo bridges	4.7	4.8	4.9	5.0	5.1	5.3	5.6	6.0	6.6	6.9	7.8	8.3	15.0
Powerlines other than Transnet	0.7	0.8	0.9	1.0	1.1	1.4	1.6	2.0	2.4	2.9	3.8	4.3	7.5
Transnet electrification wires and track earth wires	2.0	2.1	2.2	2.3	2.4	2.6	2.8	3.3	3.7	4.2	5.0	5.5	7.5
Above roads in townships proclaimed roads including Transnet	6,2	6.3	64	6.5	6,6	6.9	7.1	7.5	7.9	8.4	9.3	9.8	15.0
Telkom telephone lines (Eskom requirement)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.4	3.0	3.9	4.3	7,5
Transnet telephone lines	1.4	1.4	1.5	1,7	1.8	2.0	2.2	2.7	3.2	3.6	4.5	4.9	7.5
Spoomet tracks	9.6	9.7	9.8	9.9	10.0	10.2	10.4	10.9	1 1.4	11.8	12.7	13.2	
Spoornet electrification structures	3.0	3.0	3.0	3.0	3.0	3.2	3.4	3.8	4.3	4.8	5.6		
Transnet power lines	1.4	1.4	1.5	1.7	1.8	2.0	2.2	2.7	3.2	3.6	4.5		
Natal & Transvaal (TVL) abnormal load routes and TVL freeways: minimum	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5					
National roads and Natal minimum	6.5	6.5	6.5	6.5									

As regards to other clearances the following applies:

Timber restrictions:

The distance at which a single tree or a row of trees may grow in the vicinity of a power line is set out in the servitude agreements signed by each landowner. This distance is dependent on the height of the tree, the extent of foliage and the manner in which the tree grows. The main purpose of the clause in the servitude agreement is to preclude any danger to the power line.

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When power lines are planned and constructed through known forestry areas i.e. an area designated for the commercial production of timber, the servitude area is increased to the figures given in Table 3 below.

Table 3 – Timber areas (all distances are given in metres)

Voltage	Tree restriction distance on each side of the centre line	Total servitude width paid for at 100%
1) 11, 22 and 33kV	25	50
2) 42 and 66kV	33	66
3) 88kV	33.5	67
4) 132kV	36	72
5) 275kV	38.5	77
6) 400kV	40	80

No trees should be permitted within the servitude area given above. Existing firebreaks in the timber areas should be used as far as possible to mitigate costs.

Explosive magazines

Power Lines must not be constructed in the close proximity of explosive magazines.

Regulation 7.3 of the Explosives Act 26 of 1956 lays down that no power line shall be erected or alternatively no magazine may be erected unless the following minimum horizontal distances are adhered to:

Table 4 – Explosive magazines (all distances are given in metres)

Length of power line span	Clearance to magazine	
1) Under 30metres	15 metres	
2) 30 – 150 metres	20 metres	
3) Over 150 metres	30 metres	

The distances given above are not only to the centre line but rather to any part of the power line.

Rifle ranges

Power lines should not be routed across or within the areas defined as "danger zones" of rifle ranges as stray bullets may damage the conductor or insulators. The requirement for the planning of a power line in the vicinity of one of the South African National Defence Force ranges is set out in *Planning of Power Lines in the vicinity of Rifle Ranges*. This standard sets out the procedure to be followed in the case where a power line is planned within or near the danger zone of a South Africa National Defence Force rifle range.

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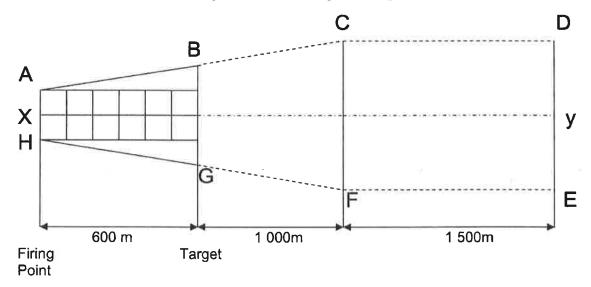
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The sketch below illustrates the danger zone of a rifle range of 12 targets.



Note: BG = 384m

CF = 824m

DE = 824m

Figure 2: Proximity to rifle ranges

It will be noted that the danger zone extends for 2 500 meters behind the target area. This area can be reduced for local conditions e.g. such as a hill 60m high behind the targets.

Vertical clearances over navigable waters

Generally, normal ground clearances should be provided to the normal summer water level of a river and the spillway level of a dam. Care should be taken not to place support structures of transmission and distribution lines in the 50 and 100-year flood plains.

If crossings are proposed over rivers, dams or lakes (which are or could be used as navigable, particularly by yachts or boats with high masts) then a clearance of 2,5 metres plus the relevant minimum outdoor clearance should be provided over the tallest mast likely to be encountered on such water under conditions of spillway level and maximum conductor sag. The tallest mast likely to be encountered on inland waters should not exceed 15 metres (measured from the water level).

Finally, regulation 15(1)(b) of the Electrical Machinery Regulation states that: the clearances of conductors and other wires over the normal high-water level of power lines crossing over water shall not be less than the values for power lines above the ground outside townships, with the provision that if the owner of the land on which the water is situated requires a greater clearance and no agreement can be reached, the dispute shall be referred to the chief inspector for a decision.

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Other structures

Boreholes and Windmills should be treated in the same manner as a building. The sweep of the tail of the windmill should not be closer that the building restriction distances set out in Table 2.

Although swimming pools do not normally protrude above the ground surface they should be treated in the same manner as a building is.

Clearances as per agreement with Telkom

Where an overhead non insulated electrical supply line (except overhead service mains) crosses an existing or projected overhead telecommunications line, the electricity supplier or user must provide minimum clearances as follows:

 In accordance with the regulations in terms of the Occupational Health and Safety Act 85 of 1993, see Table Annex A.

6.3 High load roads/routes

The requirements of the Occupational Health and Safety Act (OHS Act) 85 of 1993 must be strictly adhered to when crossing over high load roads or routes. Table 2 (under 'abnormal load routes') on page 11 gives the clearances as adopted and used in this regard.

The following are some of the standard conditions for clearances that are applicable to power lines and/or cables that cross or are parallel to national roads:

- (i) No tower, pole, stay, pipe nor cable shall be erected or laid within a distance of 20 or 60 metres as applicable, measured from the national road reserve boundary, if such tower, pole or stay, pipe or cable is erected or laid parallel to the national road.
- (ii) No tower, pole or stay shall be erected within a distance of 20 or 60 metres as applicable, measured from the national road reserve boundary, if such tower, pole or stay is erected for the purpose of establishing a power line across the national road.
- (iii) No manhole shall be constructed within a distance of 20 metres, measured from the national road reserve boundary, if such a manhole is constructed for the purpose of laying an underground cable underneath the national road, unless an alternative position for the manhole has been previously determined in consultation with the Regional Engineer
- (iv) A vertical clearance of not less than 6.5 metres, measured from the crown of the national road to the lowest wire, shall be observed for lines operating at a phase voltage of 33kV and below.
- (v) The underground cable pipe shall be laid inside a sleeve pipe, which shall extend across the full width of the national road reserve, the top convex of which shall be at least one metre below the surface of the national road and the natural ground level. ESKOM shall ensure that in the process of laying an underground cable or sleeve pipe across the national road, the surface of the road shall not be interfered with.
- (vi) ESKOM shall undertake to maintain any tower, pole, stay or overhead wire, cable or pipe at all times, at its own cost and to take all necessary precautions to ensure the safety of road users.
- (vii) ESKOM shall undertake to shift or relocate, at its own cost and without compensation, any overhead power line or underground cable at the intersection of such power line with the existing national road, if such shifting or relocation becomes necessary as a result of road widening work, road construction work or road maintenance work, provided that such widening, construction or maintenance shall not involve any re-routing of the national road.

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Another standard condition of importance to remember is that: No permanent entrance to or exit from a National Road shall be permitted.

The 20 metres referred to in clauses (i) and (ii) is applicable to those power lines of voltage below 40kV. The 60 metres distance refers to power lines whose voltages are 40kV or higher.

The clearance given in clause (iv) is a minimum for road purposes only. The Occupational Health and Safety Act 85 of 1993 require clearances in excess of 6,5 metres for all voltages above 40kV, and these additional clearances must be abided by.

The SA National Roads Agency Limited and National Roads Act 7 of 1998 require that no crossing should be within 500 metres of the point of intersection at a junction but this restriction may be waived with special application with motivation. No fee is payable for any application to National Roads.

As regards Provincial roads the following applies: the Provinces use clauses in the Advertising on Roads and Ribbon Development Act 21 of 1940 to impose building restrictions for a distance outside the road reserve boundaries. The clauses in the Advertising on Roads and Ribbon Development Act preclude without approval, any building or structure within 300 Cape feet each side of the centre line of any proclaimed building restriction road. By common usage the 300 Cape feet has been converted to 95 metres.

The jurisdiction of any provincial roads department does not extend beyond the 190 metre wide strip whose centre line is the centre line of the proclaimed road reserve. Eskom has agreed to apply to the relevant provincial road authority for all new Eskom services so that Eskom can be advised of future road plans and other special conditions that must be observed.

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Annex A - Electrical machinery regulations

(Informative)

			Minim	um clearance	in metres	
Maximum voltage for which insulation	Minimum	Above	Above	Above roads in	То	To buildings,
	safety	ground	ground in	townships, proclaimed	telecommunicat ion lines or	poles and structures not
	52.51,	ouside	ground in	roads outside townships and	between power lines and	forming part of
is designed. kV rms phase-phase	clearance	townships	townships	tramways	cradles	power lines
1.1 or less	_	4.9	5.5	6.1	0.6	3.0
7,2	0.15	5.0	5.5	6.2	0.7	3.0
12	0.20	5.1	5.5	6.3	0.8	3.0
24	0.32	5.2	5.5	6.4	0.9	3.0
36	0.43	5.3	5.5	6.5	1.0	3.0
48	0.54	5.4	5.5	6.6	1.1	3.0
72	0.77	5.7	5.7	6.9	1.4	3.2
100	1.00	5.9	5.9	7.1	1.6	3.4
145	1.45	6.3	6.3	7.5	2.0	3.8
245	1.85	6.7	6.7	7.9	2.4	4.2
300	2.35	7.2	7.2	8.4	2.9	4.7
362	2.90	7.8	7.8	9.0	3.5	5.3
420	3.20	8.1	8.1	9.3	3.8	5.6
800	5.50	10.4	10.4	11.6	6.1	8.5
533kV d.c.*	3.70	8.6	8.6	9.8	4.3	6.1

^{*} Maximum voltage to earth for which insulation is designed.

Provided that these figures are based on the assumption that clearances shall be determined for a minimum conductor temperature of 50 °C and a swing angle corresponding to a wind pressure of 500 Pa: Provided further that where under normal conditions power line conductors operate at a temperature above 50 °C, the clearance at a higher temperature at which the conductors operate shall be in accordance with the clearance indicated in the table.

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Annex B – Impact Assessment

(Normative)

Impact assessment form to be completed for all documents.

1 Guidelines

- o All comments must be completed.
- Motivate why items are N/A (not applicable)
- Indicate actions to be taken, persons or organisations responsible for actions and deadline for action.
- Change control committees to discuss the impact assessment, and if necessary give feedback to the compiler of any omissions or errors.

2 Critical points

2.1 Importance of this document. E.g. is implementation required due to safety deficiencies, statutory requirements, technology changes, document revisions, improved service quality, improved service performance, optimised costs.

Comment: Document Revisions

2.2 If the document to be released impacts on statutory or legal compliance - this need to be very clearly stated and so highlighted.

Comment: n/a

2.3 Impact on stock holding and depletion of existing stock prior to switch over.

Comment: n/a

2.4 When will new stock be available?

Comment: n/a

2.5 Has the interchangeability of the product or item been verified - i.e. when it fails is a straight swop possible with a competitor's product?

Comment: n/a

2.6 Identify and provide details of other critical (items required for the successful implementation of this document) points to be considered in the implementation of this document.

Comment: n/a

2.7 Provide details of any comments made by the Regions regarding the implementation of this document.

Comment: (N/A during commenting phase)

BUILDING LINE RESTRICTIONS, SERVITUDE Unique Identifier: WIDTHS, LINE SEPARATIONS AND CLEARANCES FROM POWER LINES

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Annex B

(continued)

3 Implementation timeframe

3.1 Time period for implementation of requirements.

Comment: Immediately

3.2 Deadline for changeover to new item and personnel to be informed of DX wide change-over.

Comment: n/a

- 4 Buyers Guide and Power Office
- 4.1 Does the Buyers Guide or Buyers List need updating?

Comment: n/a

4.2 What Buyer's Guides or items have been created?

Comment: n/a

4.3 List all assembly drawing changes that have been revised in conjunction with this document.

Comment: n/a

- 4.4 If the implementation of this document requires assessment by CAP, provide details under 5
- 4.5 Which Power Office packages have been created, modified or removed?

Comment: n/a

5 CAP / LAP Pre-Qualification Process related impacts

5.1 Is an ad-hoc re-evaluation of all currently accepted suppliers required as a result of implementation of this document?

Comment: n/a

5.2 If NO, provide motivation for issuing this specification before Acceptance Cycle Expiry date.

Comment: n/a

5.3 Are ALL suppliers (currently accepted per LAP), aware of the nature of changes contained in this document?

Comment: n/a

DOCUMENT CLASSIFICATION: CONTROLLED DISCLOSURE BUILDING LINE RESTRICTIONS, SERVITUDE Unique Identifier:

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Annex B

(continued)

5.4 Is implementation of the provisions of this document required during the current supplier qualification period?

Comment: n/a

5.5 If Yes to 5.4, what date has been set for all currently accepted suppliers to comply fully?

Comment: n/a

5.6 If Yes to 5.4, have all currently accepted suppliers been sent a prior formal notification informing them of Eskom's expectations, including the implementation date deadline?

Comment: n/a

5.7 Can the changes made, potentially impact upon the purchase price of the material/equipment?

Comment: n/a

5.8 Material group(s) affected by specification: (Refer to Pre-Qualification invitation schedule for list of material groups)

Comment: n/a

- 6 Training or communication
- 6.1 Is training required?

Comment: Yes

6.2 State the level of training required to implement this document. (E.g. awareness training, practical / on job, module, etc.)

Comment: On Job

6.3 State designations of personnel that will require training.

Comment: Survey staff and Land & Rights Practitioners

6.4 Is the training material available? Identify person responsible for the development of training material.

Comment: Workgroup/Development Team

6.5 If applicable, provide details of training that will take place. (E.G. sponsor, costs, trainer, schedule of training, course material availability, training in erection / use of new equipment, maintenance training, etc).

Comment:

DOCUMENT CLASSIFICATION: CONTROLLED DISCLOSURE BUILDING LINE RESTRICTIONS, SERVITUDE Unique Identifier: 34-600 WIDTHS, LINE SEPARATIONS AND CLEARANCES Type: **DGL FROM POWER LINES** Revision: Page: 20of 21 Annex B (continued) 6.6 Was Technical Training Section consulted w.r.t module development process? Comment: n/a 6.7 State communications channels to be used to inform target audience. Comment: n/a 7 Special tools, equipment, software 7.1 What special tools, equipment, software, etc will need to be purchased by the Region to effectively implement? Comment: n/a 7.2 Are there stock numbers available for the new equipment? Comment: n/a 7.3 What will be the costs of these special tools, equipment, software? n/a 8 Finances 8.1 What total costs would the Regions be required to incur in implementing this document? Identify all cost activities associated with implementation, e.g. labour, training, tooling, stock, obsolescence Comment:

Impact assessment completed by:

Designation: Land and Rights

Name: Magda Le Roux



Ground Floor, Bay Suites 1a Humewood Rd, Humerail Port Elizabeth, 6001 P O Box 21842 Port Elizabeth 6000 South Africa T: +27 (0) 41 509 4800 F: +27 (0) 41 509 4850 E: portelizabeth@srk co za



REGISTRATION & COMMENT SHEET

BASIC ASSESSMENT PROCESS FOR THE PROPOSED WALMER 132 KV POWERLINE, PORT **ELIZABETH**

Attention: Wanda Marais

Fax No: 041-509 4850

Email: wmarais@srk.co.za

Signed:Thank you for yo	Date: 22 /02 /2014
SURELY AN UNDER GROUND CA	BLE IS A BETTER OPTION.
OVERHEAD LINE WILL PUIN 7	
I PERSONNALLY WILLIZE THIS	OPEN SPACE PLACING THIS
ATTOMIC TEMPORE	
VISUAL IMPACT.	THE CACCED FUNCE
HUGE UNSIGHTLY STEUCTURES	
THE DISTURBANCE THAT WILL B	t CAISED BY THESE
TOWERS IN THIS AREA BETWE	EN MOINIS H&C.
I STRONGLY OFFICE THE ERRECT	
	- P
Comments (please use additional sheets of paper if required):	
"The NEMA EIA Regulations, 2014, require that an IAP discloses any direct business, financial, persimple for the method of communication. The absence of email / facsimile facilities may result in a delay	one or other interest in the energyal as set and With a set to a
C/O BERGERS & MALON	Email**: rudi_vans@ Lotmail.com
CADASTAL REF. 277 MACON ROAD	Mobile Number: 082441 6629
1 DERGERS STREE!	Telephone Number: C41 373 6SSZ Facsimile Number**:
Postal Address: BERGEUS: STREET	Nature of Interest*: PCSIDCNT Telephone Number: CALLETT (COST)
Title: MA Organisation:	Name: RUDI VAN SCHALKWIK
	I No.
Contact Information:	ring to the attention of SRK Consulting the following comments.

COUNCILLOR/RAADSLID RETIEF ODENDAAL (WARD/WYK 6)

UNIT 11 WALMER DOWNS FAMILY CENTRE WILLIAM MOFFATT EXPRESSWAY PORT ELIZABETH

Tel: (041) 3671670 Fax: (041) 3682309 Email: ward6@mandelametro.gov.za



22 FEBRUARY 2016 ATT: WANDA MARAIS

PER EMAIL

Dear Sir/s

RE: BASIC ASSESSMENT PROCESS FOR THE PROPOSED WALMER 132 KV POWERLINE PE

The abovementioned matter has reference.

I confirm that I am addressing this letter to you for and on behalf of the greater Overbaakens and Fairview community.

The greater Fairview / Overbaakens area has seen unsurpassed growth in development over the last number of years. Not only has the area alongside William Moffett become a very important business node but the residential property market has also seen unsurpassed growth even in the current difficult economic climate. I have no doubt that the area shall continue to develop at an unparalleled pace given the fact that the first newly built school has just recently opened their doors here as well as the fact that a private hospital is currently being constructed and is due for completion during the third quarter of 2016.

Given the aforesaid it stands to reason that the local authority has to ensure that the existing infrastructure is sufficiently upgraded in order to enable them to meet the future electricity demands of the area. Although I welcome the proposed upgrade of the Walmer Substation which is long overdue, I cannot however support the construction of the proposed high level masts (pylons) in our area and therefore wish to raise the following concerns:

- 1. The masts shall have a very negative visual impact on its surroundings;
- 2. The electromagnetic radiation from these masts may have a negative impact on the health of nearby residents;
- 3. Property values in the area shall be severely affected by the construction of said masts.
- 4. The construction of the proposed high level masts shall have a definite negative impact on future growth and development in the area.

I fail to understand how the local authority can even consider erecting these unsightly, potentially dangerous high level masts in this day and age. Given the fact that local authorities are increasingly installing this type of infrastructure underground, we have no choice but to investigate alternatives to the archaic proposal made in the application at hand.

I trust you find the above in order.

I remain yours faithfully

Retief Odendaal L.LB (NMMU)

Marais, Wanda

From:

John Baeyens <john.baeyens@gmail.com> on behalf of John Baeyens

<john@vinlanda.com.br>

Sent:

18 February 2016 04:15 PM

To:

Marais, Wanda

Cc:

Mike Cohen; Johan Strydom; Marc Crocker

Subject:

Re: Reminder: Proposed 132kV Powerline, Walmer, Port Elizabeth

Importance:

High

Dear Mrs. Wanda,

John Baeyens, director of Capeco Developments; private owner of big portions of land with zoning and ROD that are impacted by this

My colleague director, Marc Crocker, who has been in contact with you over the phone today, will file our Registration sheet tomorrow, we will include our initial objection sheets (a complete pack); which we will further complete when we receive the fully detailed report.

We have three questions/comments:

- 1. You send us this Background information today Thursday February 18th at 12:00. The deadline you give all IAPs to file Registration is Monday February 22nd at 12:00. This is less than 2 working days. Is such short notice legal? You write "reminder"; we were never informed before today. We never were contacted by you before today. Please provide context on the timing.
- 2. You did not include the names and contact details of all Stakeholders and IAPs (they were Blind Copied. Please send us the full lis.
- 3. The BID is 4 pages long and doesn't specify crucial elements. Pictures and drawings of the electricity masts, exact locations of the servitudes in the various scenarios, specifications why some parts were granted underground options and others not.
- 4. The fact that no pictures of the massive visual impact is included, means that IAPs who receive this writing (in such short notice) cannot judge correctly the necessity to register. In this context we oppose the way this Public Consultation is being performed.
- 5. You are aware that your plans cross areas on our property which are classified as "sensitive ecological areas" in our ROD?
- 6. When do we receive the fully detailed report? It is impossible to comment based on this Information Document./

Please provide us full detailed info on the above 4 topics in a timely matter (considering your self-imposed deadlines).

Sincerely,

John Baeyens

On 18 Feb 2016, at 09:27, Marais, Wanda < WMarais@srk.co.za > wrote:

Dear Authorities, Stakeholders and IAPs,

Reminder: Proposed 132kV Powerline, Walmer, Port Elizabeth





REGISTRATION & COMMENT SHEET

BASIC ASSESSMENT PROCESS FOR THE PROPOSED WALMER 132 KV POWERLINE, PORT MUZABETH

Allenton: Wanda Marois I were to register as on interestical and Affected party and/or bring to the attention of GRK Conducting the following comments.

Fax Ndc 041 - 518 4850

THE OF THE PARTY O	NATION MARCE CROCKER
SEMPLE CAPECO DEVELOPMENTS	Nation of improsure
PORTULA PORTUL	Tapprove N. miles 0720 249464
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Comments (please use additional absets of paper if required): * 755 OSCIECTION! の用なの 子によりまり TODO AFTANZ OUR ののはいるのがいてあるのろう IS A SUPPORTING OBJECTION COLORIAN COLLEGE

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Date:

Thank you for your participation



CAPECO DEVELOPMENT (Pty) Ltd

R09, 07: 1989/314185/87

To: Wanda Marais

Re: PROPOSED 132Kv Powerline, Walmer, Port Elizabeth

Dear Wanda

Services) in July 2013, We Capeco (Wonderwonings Elendonne) put in our objections which we As per the draft Environmental impact assessment carried out by CES (Coastal and Environmental received receipt thereof from the DEDEAT from Indica George.

this covering letter all previous submitted documentation regarding our objection and concerns for the proposed powerlines which still stand. For your Public Participation Process — Comments and Response Report, please find attached to

As the owners of arf 1226, Fairview, for which we have just received our residential zoning rights through the middle of our property. and approvals to develop this erf we, in no way, will permit overhead electrical cables to run

underground over our land (err 1225 Fairviow). We will however assist and accommadate this proposal if the electrical supply is placed

Please also note that the water channel along which this electrical supply is proposed to run is a minimized the footprint of our approved development rights. highly sensitive no-go area toxether with a 100 year flood line which has already entroached and

underground installation from numbers G_i at to E and G f to E respectively as you only need a and we are spending args sums of capital to do alien irradication of this indego area On figure 2 of your background information decument —we will only consider the option of an

We have been imposed this 'no-go' condition on our approved KOD: ref. Kcm1/LV1&3/M/12 &8,

If your feed to contact me for any further information of this property, please don't hestitize to

servitude width of Lake.

Spiegaris

Capeco Oruciopment(Pty) Its SCH 120 2215 UF 190

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ABEN A SECTION OF THE CASE SECTION OF THE PROPERTY OF THE PROP

WONDERWONINGS EIENDOMME (PTY) LTD

PO Box 10031 Unton Stange Port Elizabeth 6015 Tel: 1041; 367 7884 Fex. (086; 559 0290 Company Reg nr 1968;0014785/07

DEDEAT REP FOR INLN 82/M/12-59

*2 September 2013

By e-mails ind to conjugate tecape to live and

Department of Environments Affairs

341 508 5800

Chilles and House

Canada

FOR ATTENTION, WE Talta George

Dear Madam

RE: PROPOSED VIALMER 17 AVENUE 132/11 KV SUBSTATION DEVELOPEMNT

. Maro Croeker, set on Schelf of Wonderwenings Eisnaamnie (Pty) ind. the owners of Erf 1226 Farview.

Eff 1226 is ourrently being rezoned for a Rotherment Villago and residential development

- To tro noth of the water charmal, of 1276 is being zoned for a Relifement Village constaint; of 355 opportunities as well as 10 Residential Portions consisting of 276 opportunities. (See annexuro A).
- To the sputh of the water channel, of 1255 is being zoned for residential pulposes, consisting of 4 partitions with 503 apportunities. (Sub annexure B).

Schwinatio layout pland have almacy tieen cesigned and drawn for these residents, developments (See annexure 3)

Corrently, we are also in negatiations with an equipational institute with wards to acquire a portion of erf 1926 for a private school, situated directly next to the water channel to the Bouth.



We are also final sing the negotiations with a National reviencem village operator for the deficin of secular north of the water channels.

Alf our professional studies have been completed including the Traffo impect besassifichts. Buik Services repurts, and the Environments eassessmunts.

Herewith our comments on the Besic Assessment Report Caired July 2013

- The NEMA regulations clearly states that feasible and reasonable atternatives should be investigated. We would see to oring to your attention that our responding applications have already been submitted for a potential 1086 residence dwellings including a retirement visage, Your plants if and 2" a ternatives are therefore not reasonable. It is most cofinitely not an option to black privately owned and for a proposed activity that will no doubt devalue the privately owned and on their proposed in a shear and a cataling it a most imputation to sell divertings in the developments proposed in a shearing it a most imputation to sell divertings in the developments proposed in a shearing it a matched
- According to the NEMA regulations, the approximation by the displayating of the oxiderating of the proposed archity might have on the community. Resides the comment of the oxiderationer may being vibually introduce, there also has infectors to take into account which has not been dock with Especially alternative 1 not blacks through a rospital situ material will alled the robremany diagradies operate.
- The housing day-topments also will be negatively impented as the 2" alternative bisects public Surveys also indicate that perpie are unlikely to buy into a residential development when are directly surposed to invertible dower cables, therefore creating a huge neglection for the private land owner with regards to marketing and selfing the proposed residential development.
- The colon of private school been established on a portion of \$7,25 would also become highly unificially as equantions in stitutes will not (not this land adequate for a saming environment as there are direct houth inscress associated with overneed private cobie thus deviating this private property substantially.
- We addresslend that the best alremative for the position of the dverhead cables is in the water channol which is part of eff 1228, but self a sects our developments with the retrement willage to the roth and residential developments to the south. The only alternative we are willing to negotiate and accent is the underground caren for the pothon of 1226 willing to negotiate and accent is the underground caren for the pothon of 1226.
- It is noted that every response to the underground option is that the proponent does not have the people to appoint does not have the proposed to such an option. Unfortunately this is the only option that won't directly affect the proposed developments for all 1223 and I am sure the owners of the hospital forthis sume. The powerfine is therefore this conflict with all sumounting land owners' development proposals and this conton reads to be considered as the only cotton moving forward.
- Negotistors with Wanderwohings Elendomme (Pty) to need to be scheduled with the stroophent to allow the budget of this proposal to accommodate underground cables over the partion of off 1225. The monetary shotfall between the 2 options needs to be clear and transparent to form the foundation of the negotiators.



- We advinowledge that the proposed new substation with provide new permanent job positions. But with the varge scalar developments proposed for efficient and the loss bits issue were enviseding a double of hundred permanent jobs and not to mention the jobs prested for the construction of these developments over a 5 10 years por ad. So bith the atematives proposed will result directly in nundrates of joh losses that could be created it the overhead option is approved hereo the accumulative impacts will be severely more negative than costive.
- Our strong position of the eventeed bables as the only option is unattainable and it should be reacted.
- The construction of the proposed dovelopments for off 1228 has not commonded yet, but should be highlighted in the weassement. And molegised as a negative impaction the weat.
- In that assessment you and obted that you are uncertain whether say are translogical or calcondingitial area exist within 20m of the site. The department and calcinotiant clearly stakes that if you are uncertain, a specially investigation has to be conducted. Your response is that an investigation will be conducted. If the project got the gorahest I had this remark to be very flawed as in a sudy should be conducted. If the project got the gorahest bean granted, becaused in a sudy should be conducted of the project got the gorahest with bean granted. Therefore this find assessment is normalists as there are no second studies attached.
- We acknowledge that the lobe outhor by is committed to maintaining a safe, reliable and afforced to again a section of actions and sustainable development in the motio. But this service should not be to the detriment of private and a difficilly contract of my point on job provide and a difficilly contract of my point on job provide and a difficilly contract of my point on job provide and a difficilly contract of my point on job provide and a difficilly contract of my point on job provide.
- To the response much to Marke Viteken with regards to the proposed route attended to has been charged to economize the most concerns, we find your second aftermative to 8.50 whate the proofs intend (give). The proposed eligibility are not improved the situation, but mad to one seruble worse as if they effects a larger portion of privately cared kind, namely left 1225. The violation of private property rights will expose your dight of considerable update distinct damps to identify a property rights would be improposed budget would not be revised to accommodate an underground option as this would be the most viable option for all parties considering all the capics and not just the linearch one.
- It is also noted that there is no servitude registered in favour of the studiosatry or Estein over est 1228 Fairview.



In conclusion:

- We are of the opinion that the 2 attemptives baceting of 1226 and 4933 are unattainable and insist that at specialist studies to be conducted before any codision is made.
- That negotilation's we ontered into with the owners of all 1226 Fatiview to make the underground applian a viable one as the evertesed cable option will regatively affect all developments proposed for all 1226.

aciments:

Aghewre A: North portion of ert 1228, Fairtiew - Rebroment Village & Residental Developmonts

Ancexure B. South cortica of eff 1225, Hery sw - Residential Developments

Agrexure O. Religinant Vilage Sile Plan

Annexure D. Lotter - Our Environmental Consultants Commants on the Final Draft.

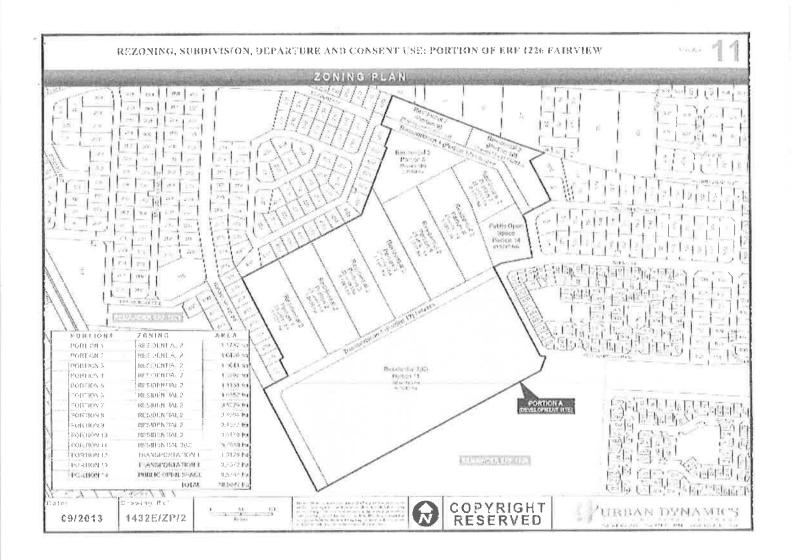
Arrexure Et Letter - Mr.Johan Van Der Westhuysen - Urban Dynamics (Urban Flannors)

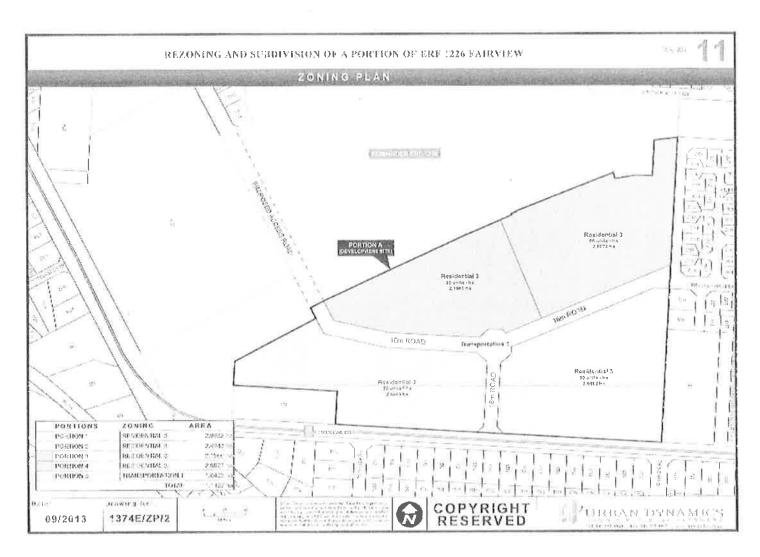
Arhexura F. Lettor - Endorsement Letter - Reset Odenosa -- Fein ew Word Ocuncilor



For Mordenianays Elerdomine (Pay Ltd.







Marc Crocker

Sent 뎱

thous:

Mike Cohen keteenbek@asnosat coiza> 1287 C825 68 16 September 2013 1825

H Marc

A few notes on the power line

The Basic Assessment states

the preferred sitemative. The assessment of impacts stated that that as Alternative 1 has fand rights listles Alternative 2 became Failure to adequately address attematives

It must be pointed out that Alternative 2 has the exact same land rights issues as Alternative 1 and the very reasons given by the EAP for rejecting Alternative 1 are applicable to alternative 2. If the one was rejected We to land rightiss issues than the second must also be rejected.

The close proximity of the two alternatives does not constitute a reasonable and feasible elternative

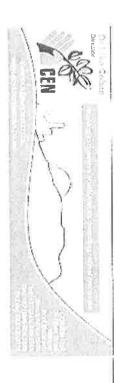
earmarked for an already approved development. After numerous discussions, it was agreed to make route alternative 2 the preferred alternative. Full details of the correspondence and consulting process are included in Appendix E and Section O (1) of this report. "A land owner objected to the proposed routs afternative 1 as it passed to rough their property that is

edromagnetic Raciation

The assessment does not address the potential impact of electromagnetic radiation

Property Values

The report does not address the potential loss of property value. There will be a reduced value of all properties within a 50-100m distance from the line. The reduction will be related to electromagness radiation feets (real and or perceived) and the massive visual impact. The hum of the line is also a determent.





17 September 2013

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The other continue Cape Development Comment TOTAL STATE



Autention : Waster Cooker

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PROPOSED WALMER SEVENTEENTH AVENUE 132 / 11XV SUBSTATION AND POWERLINE DEVELOPMENT

Bridi, William Spatia. Development Framework, leantifying this area as a resident of intensit colon will dent fication parkers have been prepared and submitted to the Answer Mundels Bey Medes. These proposes are in the with the til early singuan on the proposed developments to the south and north on Erf 1770, Fylliaws (Wandenwon) galland to the new substation on the casteen which the William Moffett Once. The proposed alignment of the passeding will E katelia. The propose also includes building a souple circuit 122kV line from the existing loresine 132kV assettions Taférade is mede so see Emilionado sur Imaria Assessment process camento beina underlobra los Coesso ágai cedars for development produktis to ing ement medium to high demity tedidenta development of tide and rode, up to 80 pain per fectors Tukanament) Services so obtain authorisation of a 133/1184 substation near Walmer, Servitation Assaus, Fort

collection Br 1225, is rules, Accessment Report will rave a serious regalise and debintental effect on the visibility, i har other and development We note and table that the processed continuents of the powerfine along the digrepron total miss per the basic

The following key ignitivity of ethice in and hereby forms the host of our of fathers

- Visited impact with a a migricum of "An density residents", and is unsomptible one will direct a highest on visibility of this area as a residential intensification and infil hode
- The exhibing open space and distingly formula have gerillated apan apade and assistant cost of thems. Nevertablish anders on the wait like of this or an integrated onen space system Avenue with this portion of Eginziaw ? Larraine and construction of overhead tolocating with the bytom will seriously

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- Roteing of the countries power that will decrease development collocal and passiz hites on Eri 1225
- The axisting vacant and on Fri 1270, Schwiew, has approved for residential devidential und given the reactired service and the the tellest and subject of these story
- The character of the Families area will be regative a physical of and the assault most function by milicated, given the existing high intensity development in and around the area.
- OR TRAITED, EXPOSED A RIVER FOR A DEC. OF C. I. 1220. THE TRAITE WAS INTRACTORS IN MARKED BOX CODE OF THE TWO The construction of ownhere bowerfines within a well-witch fines neighbourhood and urban area should not be

Mile medice vietile comportation the durit up area We told back back on a triangly Environmental impact Agarbiment process, alternative cottons of the structure westinent in this area will be own sense, with agestify reterrand to pass pie enderground sacing as the only

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I this that you will find the regular is proces. If any further information a recording many do not bestets to combact we office.

Kind Egyptics Uzban Öyrəmlüs Başışım Çapız İnc.

Jáhan von der Westhuysen SACPLAN (A/923/1896) SAPI

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COUNCILLOR/RAADSLID RETIEF OBENDAAL (WARDWYK 6)

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YOUR REFLIGINGS:

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WE PROPOSED DEVELOPMENT - NEW SUBSTATION WALMER

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Should you have any control of the old not better to the wife.

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DEPARTMENT OF INTIROXMENTAL AFFRIRS

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RE: PROPOSED DEVELOPATEST - NAM AUMSTATION WALMER

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- The effective shall have a very negative view interest may have a legative interact of the matrix of neutrics.
- Hopery vripes in Figures shall be encount affacted by the construction of solid make;
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Marke Vieken Town Plemers CO

12 Char Street + 7.0. Sor 2150 + KNYS24 + 6570

15 September 2013

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Your Refi

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¥-12/55c04

By timails i.jegels@ccsnet.co.za

CHARLES CONTRACTOR F.O.Box 934 CES Environmental Consultants

FOR ATTENTION: MR J JEGELS

Dear Sir

RESPONSE TO BASIC ASSESSMENT REPORT - PROPOSED WALMER 17TH AVENUE 132/11 KV SUBSTATION DEVELOPMENT, PORT ELIZABETH

Tar pievo We act on behalf of Stylestar Properties 191 (Pty) littly the ewners of Fri 4633 (portion of Eri 1225)

Our previous comments (co this application as well as your Basic Assessment report refer. Therewith our comments on the original basic assessment report.

Activity Description

standard and it is recommended that I be mentioned, byte attach a copy of the linkom 18 metres building restriction on each side of the central inc. (i.e. a minimum of 35m wide You have indicated that a servicude of 12m will be accommodated. The Eskom Guidelines yervitude). The proposed 12 meter wide servitude is not consistent with the ESKOM for different Vollages and Requirements Indicates that a "122Ky power life" requires an Standards for consideration:

N Alternative

We note with gratitude that the preferred alternative routs no longer disects through our clent's and.

Heritage significance

it might be too late to get sufficient input from a Heritage practitioner. It is therefore You propose that a Heritage productioner be consided during the construction phase of the proposed development. It should be noted that once the development commontate

Program (1987)

proposed that a Heritage practitioner be consulted before the construction phase to avoid an unnecessary impact on any significant culture and importance of the currolinding and proposed construction area.

4. Public Response report Paragraph 12

We naturally a specialist report on the magnetic fields, this was not provided. This matter will be further addressed in this letter.

i. Basic Assessment Report Paragraph 5

It should be noted that paragraph 5.15 of this section was (accidently) not ticked. Even though there is not a hospital at the moreoup, Building plans have been approved and it will be constructed show.

6. National Environmental Management Principles (Act 107 of 1990)

ı

NEWA sets our principles that apply throughout the Republic of South Africa to the actions of all organs of state that may significantly affect the environment. The following principles have reference to the particular applications:

Including the following: that the discullance of landscapes and sites that constitute the relation's cultural territage is avoided, or where it cannot be altogether evoided, or where it cannot be altogether evoided, is minimised and removaled in minimised and removaled of minimised and removaled of constant pick-average and cautious approach is applied, which takes into adjourn the landscape of denisions padeadists; and coursequences of denisions padeadists; and coursequences of denisions padeadists; and	** Development inust be socially environments. And economically sustainable." (3) Sustainable development requires the consideration of all relevant factors.	NEMA PRINCIPIE Finitionment in acasement must seek execute and their measurement must seek execute and their selection of the concern, and serve their selection of server end serve (her selection) occurs, education of section (seeks) deposits (cultural on section) interests equipolity).	NEWA Driving
when previous commences. Physical landscape and cuttured significant sizes can be disturbed if not identified before development commences thus underling that is Heritage practitioner be consulted beforehand. The risk involved of constructing a 132KV overhead gower libe will be defined to the High-tech modical equipment of the proposed private nospital, impact on the quality of health of surrounding inmediations and the visual impact created by the masks.	Introducing in underground channel for the proposed power lines, will be more sustainable to the environment and public. It is proposed to introduce a Heritage practitionar transfer and proposed powers.	It is noted that the 132 AV power line is necessary to provide sufficient distribution to allow sustained and growth for commercial and residential areas. It is however worth questioning whether an overhead power line with its associated bacilith impacts would be in the best inheast. The both affected parties and the anythornment. Maybe consider surgices the fire to problems answers.	TO AD'S COMPOSIT (Interpretation

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NEMA Principle	ignation is the still state of the state of	(4) (g) <u>Dickons</u>	Cuchushi kuahikatan Kuonkedhe uchanging Kuonkedhe uchanging
inople	(b) Environmental menaghment must be integristed, schrowledging that all clements of the environment are linked and nicerolated and it must be in procount the grand and it must be in procount the grand and it must be in the grand particular and the grand particular and the environment by pursuing the selection of the procount materials are the procount and the procount of the pro	(a) <u>Dicisions</u> must take Into eccount (by Interests, <u>Dieds and values of all</u>	<u>Interested and affected barders</u> , and this includes recognizing all forms of knowledge, including traditional and provingly knowledge.
1&AP's comment / interpretation	The emistraction of evertead yower lines and the effects it raises to the environment and affected parties should be taken into consideration.	The interest and needs of affected parties	should be taken into consideration during the assessment this application.

The principles discussed above is of high impotonce and should be taken into consideration. It is vita that both affected parties and the environal entitle before in mind before any dedicans are taken.

7. Case Studies on adverse Human Health Impacts of high voltage power lines

We have municipled in our initial comments that we are concerned about the hoolth lerpacts of the Electromagnetic fields from the high voltage power lines. This concern has not been approximistely addressed in the Basic Assessment roport.

We have done some residently on this subject and affects four (4) articles for consideration. These being:

7.1. An analysis of risks associated with the proposed Energex Sun Coast 132 kV Power line Project's "option 3' in relation to the Hungerford and nearby properties at Forest Gien, Qld, authored by D Maisch on 15 May 2009.

This study investigates five (3) specific impacts. These are: (1) Inedectacry of the standards in schadon to assurances of public health protection, 7). What is a "safe" level and distance? 3) possible health effects on both people and horses spending large amounts of time under or near the lines; (1) Adverse effects on property values. 5) cost of livelinged, 6) Occupational I health and

0.00

- (3) writers, they do not periorate carters. It is it ought that if FN "vigrade" the trimunu "...Currant studies indicate that Extra Law Frequencies (CLTs) increase susceptibility to system. This successibility to rancers is antly during the period of exposure; it doesn't As a very general observation I have seen that at 50 metres transmission the magnetic exposure, the larger the apparatrilly for the directs to take hold rasult in bermanent degradation of the intritute system. Theretero the langer the Set G levels are bolows in G at pass load times. For oxygen sons, the Swiss governments evidence suggests health problems sould alike with prolonged exposore above 4 mG..." those apparation, At 150 metres tha magnetic field would be well est then 1 mG ತಲೀಗಿರುಬಿಕರೆನ್ನಳು ಭಲೀರಲೀಕರ ನರ್ಗನನಗಾಗಿ ಆಗಿ ಭಿತಿಗೆ ರಗ್ಗೆ ಭಿನೀ ವರ್ಷಗಳುಗಿಲ್ಲ? ತನರ 15 ವರ್ಗಜಲಿ ೭೭ ಯಗ್ಗಳಗಳಿಗೆನ್ನ policy that "no sensitive site" is less than 150 metres from wensmission (inex. This policy that distance 14,5mG at peak localing. Note that Powerlink in turch Queens'and has a U.S. a 115 kV line can reach 3.6 mG at peak load at 20 metres and for a 250 kV line at up to 30 metres from the line and for 226KV this would be up to 55 metres77. In the OMIX standard indicates that, for a 110 Y transmission like levels may approach 10mG unconstanting is that the growest exposure risk is to the head and wisto. Current The question
- (ii) In my opinion 40 medius is too cose to the linux to assure safety if the evidence i cover herein is taken into account.
- (IV) Anather high EMF occupationally exposed group are industrial scandoresses who ware found to have exposure levels usually over 10mG for inach of the werkday. This accupation is also found to consistently be at digitar Hisk of Alabameral discusse and fentile breast cancer, but disease that have an <u>apparent fink</u> with title magnetic links.
- Quite independent of the beath effects issue the visual site of the transmission inession will have a negative effect on the hungarilard property and even more so with the thich pecific development subdivision the functions in the will apparency have high viability from many of the alloments and this Waly make it hardents as these expandes and this way necessarily of the alloments and this way in a pecific as the second and the second an
- (vi) It stands to leason that, quite separate from the potential for actual hotarits (rub) or imagined) to lument and houses, guidit to provide at musible health tawards may have the committe maderic affect the Hunocricial business accorded and that of the Kunda Park Party Club as well, Will pennia still be whiting to agist their houses if they fear a possible hazard exists for their animals? Will parents be reling to have their children procedure under the lines (intertinately the only va) to answer hiera questions.

will to see effect on the belance shedts after the line is belit and energised. Energes in the fire the case.

7.2. Evidence that Electromagnetic fields from high voltage power lines and in buildings, are hazardous to human health, especially to young children, authored by Dr Nell Cherry, dated 29 August 2001

Or Neil Cherry was asked by a school in Florida, United States, to review of biological and epidemiological holds effects of electromagnotic fields, establishing on interest with the proposed to have a substation constructed next to the school with high-voltage power lines coming in, this review shows are many sally showing an extremely fow-frequency electromagnetic fields reduced axidetorin, entering directions, surranged DNA strains and increase rates of caricor electrical and electromic workers, and children and adults in residential situations both from sower lines and from the tisks in their own homes. Successe we almost all live in homes with electric energy that means for the electronic fields which enhance line background concernate so that therefore the outsisted studies significantly underestimate the relative risks levels. Very few people realize how many waith effects of homy rates from this background fields we live in important information from this study for consideration include:

- Centable damage occurs cell-by-cell and the proper is the repair mechanisms take attice cell-by-cell. The interaction cells that are damaged and the proper is the repair mechanism, the greatier is the risk and incidence of damaged cells ofring. Cell death is a very important process for damaged cells are sidected and eliminated. Those final damaged cells are sidected and eliminated. Those final survive increases the risk and incidence of concer, cardiac, neurological and reproductive diseases and death. This shows the role of cumulative exposures leading to cumulative increases in risk.
- (ii) The Julians condute the Chiahood leukeemia poak of common acute lymphoblesis: Joukeemia (cALL) is uthributable to reviewing decinitiation. 75% of chiahood pALL and go of all chiahood leukeemia may be preventable.
- ii) associations between an () increased risk of ierkacomis in children and the existence of, or discance oc, power linus in the vicinity of their residence, (ii) an increased risk of chronic () miphaetic (evikeemia and occupational exposure to low frequency exponential ferification for the context meligrant malaretic exposure to low frequency exponential existed, meligrant malaretic of the skin, nervous system cumous, non-hoodylan imponome, acces imphaetic leukaemia or contexture myeloid teukaemia and centuri accessions.
- W. Hence wilkly workers in the Substation and maintaining the priviet little are actively and chronically at risk of serious hastin effects. Propie who live or mark in the violaty of the chronical at risk, and also what a

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Every person is at risk of neuralegizal effect from living, weeking or going to school in will reside within the zone where the indirect magnetic field is around i into or higher fields of 012 mg or more, a 72 % increase in solddio 1844

Arranging Overhead Power Transmission Line Conductors Using Swarm Intelligence of Science and Technology, Irbid 22110, Jordan, 2010 M. A. S. Hassouna from the Department of Electrical Engineering Jordan University Technique to Minimise Electromagnetic Fields, Authored by M. S. H. Al Salameh and

7.3

comparison is made between the cost of inducing EMEs of a line segment in a suburban erea in the segment when it passes in close proximity to a populated area of may interfere with sensitive it might be needed in some situations to reduce the magnetic and electric fields of a right voltage with the nazray electrical and electronic equipment. In response to the processionary principle that they have many hazaris on human basith. Also the sowor frequency Tieds may interfere Abstract sithough there is no certain known mechanism of how the electromagnetic fiolds (EVEs reducing the fields is much less than the possible health costs" of continuous Arringh in Corden, and the cost of non-reducing Ehits, where it is found that the cost of equipment to other words, new effergements of high voltage ligners lines" are needed. A exposure to EMF's. frequency (50/60 Hz) can affect human health, it has been epidediologically shown

suburners area in the North of American in Jordan... A segment of 3km of the transmission line living near and also directly under a high voltage 132 KV transmission line passing through a to 5.3 acreans/family, thus there are approximately 8586 individuals within the buffer zone of units by the averagy family size given by Department of Statistics (DOS) of Jonden which is equal buffer zone, and the number of Individuals was determined by multiplying the number of housing people of either side of the line was counted. It was found that 1620 housing units are in tills within a buffer some of 100m on either side from the center line was basen and the number of 53 linesses per year are expected to occur among the \$580 individuals living near the the transmission line. Based on estimates in [23], it is assumed that 13 fatalities in addition to cost of tabaliles is \$104 million/year (in 2010 dollars), and the annual cost of incesses is \$20.8 transmission line due to EMFs exposure, itising the estimations of VSL and VOI above, the enrical to be \$50,000/mile (in 1994 collars), as a result of a study made on opplacing conventional conductors per mile to reduce EMFs was estimeted by the linked States Accounting Office (GAD) \$2,2829 billion in 2018 deliars. On the other hand, the cost of rearranging a transmission and fatzlities in addition to \$380.47 million for finesses, so the total NPV for non-reducing sings is the average lifetime of the overhead transmission line, which amounts to \$1.5024 billion for million/year (in 2010 dollers). The net present value (NeV) in 2010 dollars for 30 years which is maranission like design by a deba design [24]. This cost confesionads to s168,568/mile in 2010 case study was conducted for this investigation. The case study identified the populations

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25 Fabruary 2015 C=\$5!01226

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SUSDIVISION APPROVAL: APPLICATION 1278: PORTION OF ERF 1226, FARMENT TOWN PLANNING AMENDMENT 1595; PORTION OF ERF 1226, FARMEN

3 I refer to previous correspondence in the regord and well to advise that the executive Mayor at a remain specific precision of Circular (DOGOK 6/1888) she Por Eleateon Correction (DOGOK 6/1888) she Por Eleateon Correction (DOGOK 6/1888) she Por Eleateon Correction of Remainder Let 1220 and
- compliance with the provisions of the Pol L Eastern Zoning Schome, Regulations selections the Residential 3C and Transportation Zone 1 use 25) as
- a maximum density of 32 dwelling units pur heatists od ig parmiting on Poylagh 1 and Poylagh 2 and 110 3 instrument density of 50 dwelling units but meating hearing solutions on Poylagh 3 and POLICE C
- 3 a maximum hoghlar 12m being permitted.
- 3 s Em building it e boing poserved along Oppular Drive of it 1945sts Ewan Orbe
- the payment of a transportation pasts such any to be overthined by the Executive Director. intrastructure and Engineering and subject to association.
- The automission of site persionancy dan in accordance with places. 11 of the Point Eticober is Contral Solitane for the organizar of the Executive Character Harmon Solitanents, base to submitisation are exposed of building places. The Executive Character Harmon Solitanents in this solit discretion with the faith of assessing of the sto development with a control of a solit discretion with a special file of the sto development with a control of a control of a solitane proposed by the stop team.

- the control and stay, in pictorics by the regulation in all cope and rectable in a substantial to the coper, and the substantial of a substantial with the first development follows and the substantial to the first first Director Fund Settlements and the beautive Director Fund that are the price. Stopping Set Director Fund and the substantial Settlement Settlement Settlement First and Landscaping Page 100 to the line required Landscape First.
- Fig. detailed a tendenating is to be expendent by the fixed and Director Plante Health (Tailes) and the temperature of some planter with the resolution of the control of t

- a) Edvertiding dignege shall be submitted to the Executive Sinecron (4uman Settlements for apphicular operation of Councils Division Advertising Policy;
- the owner of his doct integring a Trains largue. Appearing it is supplied of the full wild fair appropriately the Executive Discount infrastructure and highesting at well as the Provincial Disparation of Trainager. The cost of each if A shall board program is necessary to minimum the impact of the development and the cost of each in the compact of the development actions to conclude addressing as required for the appearance of the fair conclude as a second control for the conclude of the control of the processed distinction and.

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- two and countermant from existing space aligns training executed an Circular all viets
- ell 12 approvat and liene to be so boyed to well to open menoprovided venet cases
- A) In line reports must have a halfstic view of the full development is a upgrading masswiss
 propaged in TIA shall a be halfstic and rule be in I becommon full.

By white of the powers delegated to my Council by the Phemier, approval is hereby grampd in hems of Seatun 26 of the number No. 16 of 1996 by the subdision of the your effectioned proposity as accoming the standard plant in the council standard of the standard plant in the council standard of the standard of the council standard of the coun

This approval is subject to the conditions set out in Acropy to "N"

Numbly next that is better 15 section 27 of the Cramatical that owner stroll with its beneficial for years after the appreciation can been compact for the appreciation of the section 25 of the

deno elle de relating to the servicery requirements canha recur the amount of sides of suits to soo censis to the cost of units for some costs in 1992445.

I should not be noted by the Europe Common or when approxing the disiplants of the newly sold of well and on the Luck Moreof or moving of a habber stamp, the faking of the desires murdent of loss approxis. The common of Decotor of the speciality of the special of the service of the application for the speciality of t

the enthasement will be given on such lead of proof that the quinkly is of extable bliment, as set out hyper, there have considered in the flower that increase of extending of the imposed must be quinted in the flower of Affairs, out Application for Confidence of Registrated This matter about mental must be qualified to my Council beginned with the diagrand for confidencement. Only where it is expressly caused that is considered to my be incorporated into the trie, must that throughout on equality in the Power of Application.

Yours fall thusy

C EXECUTIVE DIRECTOR: HUMAN SETTLEMENTS

INCLOSURIES PARAMA

E0-1820-18507

ARNEXUNE "A"

The substraint of Perion of Semander Eff 1226. Fathers a contract so that the browners of Provinced Repairs one code in time of South 1171 of Ordinance 15 of 155 in unit cased by Wille of Provinced Notice (1647-1988 dated 6 December 1886, read with 115 Income of Louis Soverence 15 Ordinance (1973-17) (956 dayeds July 1988 at as amended time at the 13 the

The Council has further resolved that the subdementioned property op zone's (TPA 8585A1) in a manner dynasting subductions subject to the conditions reading to a Resident of density in the Part Elizabeth Zoning Katherie.

Subt idalog of wolge more attached Dwn Tys (Fig. 4 http://diable.24123/fi

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- ় 2 one grafting day shall be provided in and constructed to the Fixecular Officer : দ্যিত্য ধানতে each of the ভাগত দেয়া তালি তালে তেওঁ কৰিব তালেতে.
-) no parson what it stylens is the example of seeh land with directly into wed in the sith) visitin of two or more substituted divestings with the
- \$.2.1 Traintain with part or any maining that root pape guitau, seting or direct structure of the previous processing or structure of the second of the seco
- 7.2 Intertibilit every poort of such well profit tiple gather writing or fill the Mountaine or filing with a long or fragments such land with;
- 123 partitis account to the little will for the purpose of internating, costring, introvating, recording, recording, recording and actions are well not property with given and actions are well not property and half not go entring which will not be property and internative with the half action of t
- 1.2.4 and stake any extendents or additions to be destroid; any own of the Budicing crusted on each form only bounce; y walk and tended or drawler the extender colour and time of the extender colours and the County and the potential of the extender of the additional to destroid the extender of the extender of the extender.

Constal Conditions attaching to L. Subojidena (Roguldion 3 s

like person who of this time is the sowlet at each and writit thatly involved in the subsidian shall be read that without applicated seation.

- 2.1 To globs gift that a, odd by leaghting and white this politics and other many within place and forecast and attended in the within place of the place and the conditions and the conditions are sometimes and the conditions are as mink outputs for major about a ready in a suit as one of the conditions are also as an about the conditions are also as an about the conditions are also as an about the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions as a suit to be added to the conditions and the conditions are also as a suit to be added to the added to the conditions as a suit to be added to the added to the conditions and the conditions are also as a suit to be added to the added to the conditions and the conditions are also as a suit to be added to the added to the conditions and the conditions are also as a suit to be added to the conditions and the conditions are also as a suit to be added to the conditions and the conditions are also as a suit to be added to the conditions and the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are also as a suit to be added to the conditions are a
- 9.2 to receive such measural or some such extraordion in the land unit as may be introved an activate several and provide a with and order stock or to share the social and order stock or to share the social of the street of the provided and the land of the land of the land of the share of the social order to the social order to the street of the social order to - Servicing the Land Links (Circula LOPE 17" #50)
- 3.1 Struktes must be executed to \$1 and that mundpel attendants inducing attends with starmyztent/shage to the entends the Council's satisfiction of the possibilities to the

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- The Ta building or indicate exist on the person of Daing Buby year. The owner shall
- 3.4.1 coomic with the diagrams to colendarsed, appendix it, signed by a registered of uniting and densiting a contractor quillying that in respect of uniter and structures.
- (1) I there is no marconsistant of pipework thinders any subtleties order and this ago, some either conton, where a telegrap solete has a separate metales refer your resident.
- ৪.4.) সা াছে ওপুলা কান্ত্র ধ্যেওঁ ওন্ধান্ত্র সামগ্রিকা একলভানিত আলি মিক present কর্মনাক্ষকশার ভা সাক্র পিতাকো উন্নত্নপূলিকার সাক্ষাক্তর উপুন্তিমত ধুনানিত নিক্তবাধান্ত্রতাত
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- 1.3 The affect of the givents of building of use is that should it has be complied with every rule which is level by the Counce should in departs on such band unities for usufur of within a particle veneral traveless.
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- 5) moding authorizing emergent data with the Poet Office in torms of technol 88(4) of the first Office Addition the execution of the execution to the egacon routes within those the land one of a cutofy NYC.
- 4.2 submit is distributioned to this defect that no effect that no effect restrangent that is the the select perfolloging to the interventing the select effect of the off.
- shall ensure that to access as boing permitted off Orou at Office
- (ii) or source that all costs relating to the extonsions or total connections to stortwater, watermarks and sewers to survoints proporties, are help for his first own scools.
- (iii) ossating the account for any loadwark improvements required as a result of eparatral of the apprication including the extension of rose linkages on Wessel Swert Orber.

- tiving short enture that no development to permitted within the 1:100 year flood imp
- iv) shall arsure compliance with the requirements of the Netional Environmental Management Act and with the gravisions of the Record of Decision;
- ensuring that the Executive Director: | lumgn Selfements reserves the right to imposs further conditions at dovelopment \$1996;
- Will shall ensure that oann partice a provided with individual water sewerage confections and individual plumbing and dissinage systems
- (Will ensuring that cognisance is taken that Waste Acade? Conveyings have socie capably?)

 Our sever lines to enorminate the flow from the proposed development as well to the increase in constity in the covie mentioned art.
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- A) and drople had during there is a condition further downstream on the Orificativis collector servicity. By Special real record report by Joseph Stemete Consulting Claff Cognition. As additional parelopment will be allowed to drop into the Orificance cognition. As a stational until such that the participant that Distrance collector serviciform the United and collector serviciform.
- (ii) Italiso with "Casto Water Convoyance": Planning are Research Sub-Directorate following the property of Figure 2 with regards to the planning and implementation of this conesion sever:
- of should be the state of the same with a set the same of the same of the set the set of - ixing cubmidding a device/ment your encourage of by a papamentary is from a Constituting trightness detailing at on sits weeklops, or few does would be given and the measurement of such services with the surrounding managers services including the disposal of commonstrate or concentrate activities services services being displayed of commonstrate or concentrate activities are displayed on the activities activities activities and on the activities activities and on the activities activities of the experience of the experience activities activiti
- ি) ensuring that any starmatur arctar read modifications chalor elementars are কা অগ expenses and to the entatection of the _xecutive টাকেললা বিষভাগনোমাত কাব নিৰ্মাণ্ডান্ত
- that shall ensure that all reads are subclivided of as a flemained :
- will shall popular that bit ervan have a place stormywarar correspond
- two shell ensure that the endured so the existing stormwater dispate on the existing stormwater concerning to be required to obtains the etermwater dispate on the existing stormwater system.
- (veril) shall ensure that a full stommular rapor, is upone taking into account the Lorisina aterminate representatives done by Consulting Engineers SRTY Consulting.
- ensuring that differents are constituted to full municipal standards and accepted by the Executive Director: hithacruadure and Engineering: utility own expense.
- www. Shoil emails that all supporting information submitted with the sopecation was for information bullbases only and a non-approved as call of the opposition.

- tool noting that the Executive Director, infrastructure and Engineering reserves the right to impose Europe conditions as development Engineer's Design 1889s.
- (XXV) on survice that each perion proceed has one we well to success;
- shall enouge that the Road screens the open space is Foked to [REH 228]:

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- with I noting that should there be any road giving accuse to the development not constructed then then these roads must be constructed to full municipal standards of own expense.
- (XXXV) Strail ensurations of reports noted have a tradition evant that full development
- ্য লাও। দিন্তু গিন্দু গৈটিত year fignalino by a registered ওপেৰিস্কৃতনাত ভগুড়ীনতনা ১ উচ্চাল ted at ০০০৭ ক্ষেত্ৰভাৱত থাপে বিচাদিত ভৱটাৰিকটাতন স্থা ইসক্তমান্তিত শ্রীক্তবাস, intrestructure যাও ইন্তুনিক্তনান্ত্
- (xxxii) making that existing call as are prosent on, or in the kinnediate violatry of the offi
- Town I easuring that ha structures, or cutting or thing that and eiter the ground loved, will be a noved within the power ne services of, in the absence of a service, within the of uncargocated cathers.
- And reading that a materialism may be comment. The developer maid obtain approver from the stopping of the substation. Easilistly and Energy regarding the lessition of the substation, which must be extensible to municipal staff.
- set miding written details together with all approved final toyout of the stadingly supply requirements to the Executive Diractor - Electricity and Energy before a suntily can be made and lights.

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Street Approxi-

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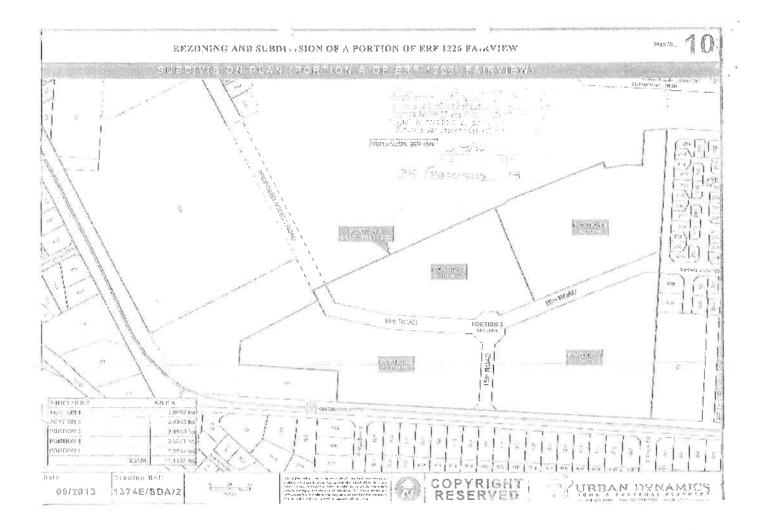
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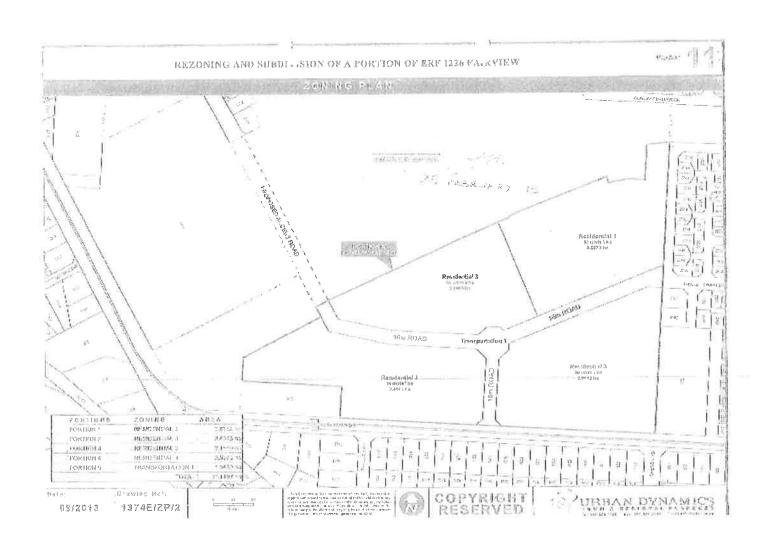
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INVCTOR	"as audit" site and counter electricity plans have boom unquived by the Executive Director infraetricums and engineering, for secti peritin distributing a habitative estimate.	the discribity thereon contribute with the present requirements of the discrete Birdovs andrew Regulations.	thank to the interrectionablem of themselve, between any scottleteed person and that each succession person, where on multimer, or the habit seconds matures shadh also expense.				THE STATE SALES	14. 1 1100000000000000000000000000000000		\$10,000 (1) 10 (1) 10 (10)	STREET ADDRESS				i de

700 St. or street and and FUINBING AND DRAMAGE CONTRACTOR:

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APPENDIX A









EASTERN CAPE

ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM

CACADU REGION

PIBAG X5007, Greeniores,
Port Efizatech, South Africa, 8057
Phone: +27 (841) 508 589
= ax: +27 (841) 508 5889
1. = 2x : +27 (841) 508 5889
With Warring edge 100%, 28
E-mail: Nicola, Gerber (2009) (2008, 600%, 2008)

Wenderworthigs Distributive (Ptg) 116
P.O. Law 19051
Linton Grango
Port Blizzboth
6015

Reference: Enquirings

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ntion: The Director

NAME OF STREET

Stranger Wir Mare Creeker

APPLICATION FOR AUTHORISATION IN TERMS OF SECTION 24 OF THE NATIONAL MAVENOMIENTAL MANAGEMENT ACT, ACT 107 OF 1993 TO UNDERTAKE A LISTED ACTIVITY AS SCHEDULDD IN THE ENVIRONMENTAL IMPACT ASSUSSMENY REGULATIONS: PROPOSED RESIDENTIAL DEVELOPMENT ON A FORTION OF SET 1226, FAIRVIEW, PORT ELIZABETH, WITHIN THE NELSON MANDELA BAY MUNICIPAL AREA

With reference to the above-susket kind application (Raference manifer ECm.1/LN18-2/M/12-58), please be advised that the Department has decided to grant authorisation. The Authorisation Notice and masons for the Escision are artisphed herewish.

In terms of Regulation 10(2) of the Environmental Impact Assassment Regulations, 2010, yeura interface to mailty all registered interested and affected parties, in writing and within twelve calendar days of the dare of this letter, of the Department's decision in testant of your application.

- I The written modification referred to above treat -
- 1.1 Specify the date of which the Davidormanni authorization was issued;
- 1.2 Inform in-ordered and affected parties of the appear procedure provided for in Chapter 7 of the NEMA FIA Regulations, 2010, and
- 1.3 Advise interested and affected parties that a copy of the Endronmental Authorisation and reasons for the decision will be furnished on request.
- Should you decide to appeal, you must sorro a capy of your nodic of intention to appeal on all registered interested and differed purities as well as a notice incloaring where, and for what period, the appeal submission will be evaluated for inspection.

N

Only appeals in eactionnmental gratitus cun be considered. All appeals should be accompanied by relevent supporting documentation

8. Notice of intertion to appear against the decision contained in this Authorisation must be addressed in writing to passive for Economic Development. Previousnantal Affairs and Tourism intertuning parts of as "the MEC" in assess of Regulation 504; of the

> ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM Utilt directorate, environmental affaire

NEMA EM Rogulations, 2010 and within twenty 201 days after the appellant has been rotified in terms of Conditions I and 2 of the decision.

4. The address to which the originals of any such a notice of infantion to appeal axis: be mailed is critimed below. Flease note that originals may also be delivered per hand or courter.

Detwitings	Sconomic Development, Environmenta, Allaire & Teartum General Munager, Environmental
Miczon Postał Address	Ceneral Murages, Environmental Affaire France Bag XUSS4, BHISHO, 5505
Hond Califeries at	Reapon Fill Librally Close Ang Vinlan's Town
In order to factinate editional soministration of appeals gopies of the static of intertion to appeal and any subsequent supeal documentation to appeal and any subsequent supeal documentation to appeal of the static of the sta	
	a doornessation meet also be
per taxo	col. (eppeals <u>copies</u> of the rictive of documentation must also be considered to the constant of the constant
per lan per lan per lan Manager No. S. Gynlargile Haringer No. S. Gynlargile	1943 505 7300

In the event that an ampeal is lodged with regard to this station/souton, the listed convince described in this Authorisation may not commonce prior to the resolution of fits expand and prior to the Espandianter's written confirmation of compliance with all conditions that must be not before construction can commence, whicher even is in famous.

DATALAN GOVENDER
DEFUTY DIRECTOR: ENVIRONMENTAL AFFAIRS
CACADU RUSION LOTH
DATE: OF CONTLOTH

ECMI/LVI &3/IV/2-&3



EASTERN CAPE

PROVINCE OF THE

Private Bag X5001, Greenaozes, Port Elizabeth, South Airica, 6057 Phene: (341) 508 5806 Fax: (341) 608 5866

Fax: (041) ove rept 4-mail: Nicole Cerber@ceast.ecass.con///a

ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM

Bartronnentel Authorization

AUTBORISATION NOTICE REGISTER NUMBER	ECm1/LN1&3/N/12-88
LAST AMENDED	Not applicable
HOLDER OF	Whederwonings Elendonnine Pay Ltd
LOCATION OF ACTIVITY	A pemien of Bri 1238, Fairview, Fait Eleabeth, within the Nelson Mandels Bey Nurrapal area

DEFINITIONS:

The following definitions are applicable to this Armiconniconal Authoritation

letten of Chapter & of the National Sovietanmental Management Act. Not 107 of 1998 "ElA logolations" — These are the Daytronmente Impec loansamant Regulations in

As published in Government Notice R. 548 of 15 June 2010 as corrected by 165 No. R. 1159 of 16 December 2016. "Colrection Notice 1" (GN Ne. R. 550 of 30 Luly 2014) and "Correction Notice 2"

and Tourism, Destern Cape Province "The Deputizient" - The Department of Records of Post opened. Businessed it fails

"Commencement" — in y physical activity on site that our be viewed as associated with the constituction of the development inclusive of initial site proparation, oxcluding the namoval of alien vegetation (other than with nearly machinery in terms of other TEMEVETT LOSSELATION

Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this Unvironmental Authoritation that the applicant should be enabled to undertake the action specified below. Details regarding the busis on which the Department reached this decision are set out to Sections a set of this choiceness. Authorisation.

80m1/12018.3/3072-88

Payer of 13

economic development, environmental appairs and tourism

THE DESCRIPTION ENVIRONMENT A STARS

Activities and regulations for which authorization has been granted

By virtue of the powers conferred on it by the National Environmental Management. Act, Act 107 of 1998 and the NEMA Britishmontal Impact Assessment Regulations 2019, the Department hereby authorists Wonderworings Eindomne (Pt. 4d buck the legal or natural parson who has applied for this authoriseiton, with the following CENTRO CONTENT

mercy capeco coras	r E-mail	Mr Marc Crocker	Contact
986 602 6710	rg az	041 367 2954	Telephone
auge. Port Elizabeth, 6015	Linton Grange, Por	P O Box 10051.	<u> </u>
tá (The Director)	Wonderwonings Elendomme (Fty) Ita (The Director)	Wonderwonings	Kame

To undertake the following activities thereafter unforced to as "the activity", its terms of the scheduled activities listed to the table below:

Detailed description of activity

Community 3, 747 (225 will be subdivided in Transportation 1. Community 1 and Community 3, 747 (225 will be subdivided into two partions, namely the Rameinder of Est 1925 and Portion A. the development site. Forther A will be rescued into 5 perions, with portions 1 · 4 being resoned as Residential 3 and portion 5 being resonad as Transportation 1, as indicated in Figure 1 on page 3. associated rouds and infrastructure on a Penton of EH 1225. Principe, Port Elizabeth, FM 1225 is currently zoned as Residential 1. Transportation 1. Community $1\ \mathrm{and}$ The proposed development aprails the extebishment of a residental township and

following table indicates the areas of each purcon, maximum density, maximum aumber of units and required Fricate Open Space areas (inclusive of the identified environmentally sensities area in Portion 4/Area 3.5): The 1576) gran of the development site, i.e. For fan A, is approximately 11.1197 hermon. A total maximum of 550 residential opportunities will be developed. The

5 - Transport	4 - Kes. 3	3 - 1305, 2	2 - Res 3	- 100% D	Portion Number
0.8337 ha	2.5573 hu	3,2669,53	2,5946	2,3682 元章	Area
1868	80 Line 18/20	80 units/bu	30 units 'na	30 units/ha	Wayimum density
K/A	1305	35	76	66 66	Max. no. units
WW	107/16 m²	2501,	38,88 = 2	1320 m	Required Private Open Space opinulated at 54m°/unit within access of six units)

The proposed leyout is shown in Figure 2 on gage 4 polon, with the various partions labelled as Areas, with Poster's and labelled as Area 3A and Area 3B respectively.

88-51/00/5/91/VIII/1m13 Fage 2 of 18



RC=1/1N1&3/36/12-88

Fuge 4 of 18

ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND YOURISM CIRECTORATE BWEOWNEN ON AFFAIRS

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ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM

SHIEF DIATOTORASE ENVIRONDENTAL LENGTH

2 storegra. Acces 3.4 and 3B will have a taxture of 1, 2 and 3 bedroom units with a maximum neight of 3 storeys. Each Area of the development will be a gated source Areas (and 2 will have a mixture of 2 and 3 sections units with a maximum hoght of CONTROL TRUE STARS STOLLING TOLLING SOLLINGS be zoned as Frivate Open Space as there will be no excess to the general public. Excli-gated complex will have a gate/guard house with excess control. There are also other with sectional rule ownership and Buty Corporate Management. The upen spaces will

Access to the development site will be via Cherdar Drive at a point approximately will way to recent Cheron Road and Phyllida Road. Access is also proposed from Wessel Swart Drive which will be extended into the development and will form the boundary between Acces I and 2 and Areas 3A and 3E. A traffic circle will be provided at the junction with the access from Cherday Drive.

A Trailed Impact Assessment was undertaken for the development, and recommendations for various read upgrades to be funded by the developer included as conditions of this Environmental Authorisation. the developer ore

internal roads will be constructed to municipal standards

Sendest

Signamentes

- Stormwater will be drained via a combination of pipes. Now along to pra-decaleptional love s, with storm water being attenuated on site and readways and direngh a system of delention peads. Conditions of this Being released over on exempled period of Timo. Invitational Audior sation will require that story water is a tenurical
- Both the remar (1.2 year) and major (1.110) strams will be controlled in pitter and detection pends as fire storements conduit for the 112 year at overtend/piped system which uses both the root resorte, statiowater Stock out the 1:100 year stock.

- 17 Bulk water supply will be from the Hostharbenk Reservoir with a top Water level of 173 m MSI.
- A dedinated 150 mm officies from the pipelite in Charles Prive is available to serve the development

- Capacity exists in the consting network to accommodate the sewerage entertains from this development
- Ģ Bulls sewerage will drain foro the of this Protestmental Authoritation will ensure that this augmentation areas to commercial prior to the temperatural of sale of course. Augmentation of this collector sower has been approved and conditions Difference Colleger Shape

EUGNONIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND YOURISM CHARLES THE BUTCH ON THE PARKS

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Stockholdy 5 Riconnetty will be supplied by the NMBM,	o internal pipe diacrotars will be a minimum of 150 mm and sowers will be inscalled in the road inscalles.
	50 mm and sewers will be

ms of the 2010 NEWA BIA Regulations

Heartst registered waste disposel facility

Solid Waste

Selid waste will be removed by the municipality and disposed of at the

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	e built mansmans
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	The construction of facilities or infrastructure exceeding 1606 news.

- it) with a peak throughput of 120 litres per second or more. excluding where with an interest disperse of 0,36 metres of a a. such facilities of primarmodure are for brischmanerorision of
- where such construction will occur within urban areas but water, sewage or storm water or storm water drainage inside a road reserve; or further than 32 metres from a watercourse, measured from the size of a watercourse.

2. 5// - 23	The Sease of the Common March 11 Common March 12 Common March
The transformation of understoped, wecam or derelles kind to the transformation of the lead to	Whatserveiter of Whatserveiter serveites similares; W. buildings acceeding 50 square metres in size; or (2) Infrastructure or spructures occeeding 50 square metres or more within 32 matter such construction occlus within a metrecurse or within 32 metres of a materioruse aleanated from the edge of a materioruse excluding where such construction will paster behind the development selback line.

- 医 医第二年 institutional uso, inside an urban auts and where the total area to be transferred is 5 bectares or more, but less tide 70 hectares. than 13.5 metre. The construction of a road wider than 4 metres with a reserve less
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- (c) in the Entern Cupe
 Li in urban areas, the following
 bb) Areas designated for printer at on use in Spatial Development THE PERSON The elegations of an area of I became of more of vegetation where

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ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM

CHEED DECTORATE: ENCROS MENTAL ARRESTS

sendeck fina. (a) In the Enstern Cape (b) In the Enstern Cape (iii) Listive urban areas, in (bb) Areas designated for Phancaeolies adopted by consequently use		Figureworks adopted by the competences use. [dd] Amas on the watercourse side of within 10 memors from the edge of sections the base been determined. The construction of
sembeck line. [8] In the Eastern Cape [8] In the Eastern Cape [8] Instite arbita areas, in: [8b] Areas obsignated for conservation use in Spatial Development [8b] Areas obsignated by the competant authority of zoned for a conservation use.	(iii) ballings with a footprint exceeding 10 square metros in sinct or (iv) infrastructure coursing 10 square metros or more which a watercourse or which also mercus at a watercourse, mercus of a watercourse, mercus of the organ of watercourse, mercus of a watercourse, mercus of the order of watercourse, mercus of a watercourse, mercus of a watercourse, mercus of a watercourse, mercus of the order of watercourse, mercus of a watercourse of a watercourse, mercus of a watercourse, mercus of a watercourse of a watercourse, mercus of a watercourse of watercourse, mercus of a watercourse of watercourse, mercus of a watercourse of watercourse of a watercourse, mercus of a watercourse mercus of a watercourse of a watercour	Figureworks subpited by the compensat sufficilly or correct on a conservation use. Conservation use. (adj. treas on the watercourse side of the favelopment safetick line or within 10 morros from the edge of a watercourse when no such subsect line has been determined. The conservation of

At the locality defined in the Table below, and hereafter referred in as the juspeny to

District	Cacado	
Municipal Area	Nelson Mandels Buy Municipeli	ক
Park Name	** S	
Farm Number and Portion	N/N	
Erf Number and Township Extension or Suburb	A portion of Srt 1226, Fairview, Port Elizabeth	Fort Elizabeth
Co-ordinates	33°58'39'.16' S; 25'32'07'.50' E	
Physical address	A portion of Erf 1226, Fairney, Port Mizzboth, within the Nelson Mandela Bay Municipal area	Port Mizabeth, Municipal area

This Environmental Authorisation is granted subject to the conditions set out

3. Conditions

The Department of Sconomic Development, Environmental Affairs and Tokelom way from time to time review days developmental Authorisation and on good grounds and other united notice to the holder thereof, suspend in amount such Environmental WITH STREET

CO plan Duration of authorisation

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Z-1 Subdivision and the subsequent residents development inclusive of the associated infrastructure as equation to Section 2 of this Environmental issue of this Authorisation. Automore coment of the activity more not occur Authorization must commonly within a penul of 24 months from the date of

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economic development, environmental affairs and tourism

CHEFT RECTORATE ENVIRONMENTAL AFFAIRS

within this period, this Invironmental Authorisation must be under in order for the

- Construction of all components inclusive of sortion infrastructure and top structures to be completed within 45 months of components. SOUTH TO DO DO MINOR THE PARTY OF THE PARTY
- 50 Convictura relating to the operation of the project are said at perpatting.

(c) Standard conditions

- 2 Authorisation is subject to the empfilians contained in this Earliconscens. Authorisation which conditions form, part of the Epvironmental furthorisation and are hindring on the holder thereof.
- 00 GRACITORS TRAINERS. This Eurirannental Authorication applies only to the activities and property
- (a) This Environmental Authorisation does not negate the holder thereof of his/for responsibility to compt, with any other statulary requirements that may be applicable to the undertaining of the animaly.
- (i) 112.4 Should any environmental dumage be detected, that in the spinist of this The helder of this Environmental Actionisation shall be responsible for Department, is the result of the development, then the applicant shall be behalf, including but not limited to, an agent, sub-contractor, employee or person randering a sortice to the holder of this Environmental Authorization. creating compliance with the conditions by any person acting on his or her required to music good that stamage to the suitabletten of the self authority
- ca for ga In the event of pay dispute as to what constituent environmental demographs this Department's opinion will provide. at the rest own extense.
- 2 Any charges to, or daviations from the project description sor out in this Environmental Authorisation must be approved, in uriting, by the Department before such charges or deviations may be effected, in assessing Exvironnestal Authorisation to exply for further authorisation in letters of such changes or deviations and it may be necessary for the holder of this information as it deems recossary to craticals the significance and impacts of whether to grant such approval or not, the Department may request such the regulations.
- established in this Euvinouncental Authorisation must be made known to and approved or not. Transfer dusy only take place if the Department has approved the transfer and issued such within approved. Conditions the request and information applicant in withing as in which to the invester is another person (whether legal or natural), then writer notification of such This Brymminental Authorisation is issued to the applicant described above. Should the applicant wish to transfer this Environmental Authorisation to are frickly on the new outset forestren. such transfer is proposed to lake place. The Department will then consider grososed transfer must be seen to this Department a reasonable time before

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3,2.9. This Environmental Authorisation must be made ordinable to any interested and affected party who has represent most interest in the proposed development. The applicant is referented to easiting that a copy of this known mercal Authorisation is given to any such interested and affected

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Economic development. Environmental affairs and tourism

CHEFIGEROTORATE ENVIRONMENTAL ATTAINS

party including the describouring isoscenters within 12 (wedst) days of receiving this Mavirousnests! Authorisation.

- 3.2.10. This Invenence Authorisation mast be produced to any such crist.

 NICOL of the Department who requests to see it and that he made available for jusquentor by any employee or agent of the holder of the authorisation who were vector or undertaken work at the site.
- 5.2.11. Where any of the applicant's context details thenge, including the name of the responsible person, the physical or postel address and/or telephonic details, the applicant must notify the Papartment as soon as the new details become known to the applicant.
- 3.21.12. In all cases, the holder of the Environmental Authorization rouse nority the Department, in writing, within 30 days if a condition of this authorization is not editored to. Any mulficulton in terms of this condition must be accompanied by ressent for the non-compliance.
- 3.2.13. Non-compliance with a condition of this Environmental Authorisation may nesself in criminal presentation or either actions provided for in the National Environmental Management Act, Act 107 of 1998 and the regulations.
- 3.3. Conditions specific to secess arrangements and bulk sewerage provision to be compiled with prior to the commencement of construction of the residential development as described in Section 2 of this Environmental Authorisation
- All road appredes required to accommodate the extra utilic from this downlogment, which are the in part to the current everall increases in Sackground traffic, as stated in the Treffic Impact Assessment by Engineering Advice and Services [Fty] had dated Ontober 2012, and application the additional information submitted by the consultrant's and reactived on OS January 2014, must be completed prior to the transfer of any enter/antist within the development.
- 3.3.2. The upgrading of the sequired intersection by the developer i.s. the Circular University from Avenue intersection, as contained in the Traffic Impact Ausensment, must be completed before construction of the development begins.
- 5,3.3. Further to Christian 3.3.5. the extension of Wessel Sweet Drive and the success to the development from Circular Drive, as described in Section 2 of this Environmental Authorisation, is to be completed prior to the communication of infrastructure tratal science and must conform to the recommendations and drawings in the Traffic impact Assessment.
- 3.5.4. Transfer of my erron/units which the development may only commence once anymentation of the Expense Collector Sawar by the IMEM is completed.

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economic development, exvisonmental appairs and tourism

CHEF DRED OR OF STRUBONISH ALAFFA TO

- 3.4. Conditions specific to the establishment (inclusive of Layout and design) of the residential development as described in Section 2 of this Environmental Authorisation
- Pointeen days written notice outsi to given to the Department that the activity will commence. Commencem for the purposes of this condition freluces site preparation. The notice must include a date on which it is unfolgated that the activity will occurrence.
- 3.4 Z. A final isyout clar based on the layout plan tiled Troposed Recording for Ed 1226, Pajuriaw^a will Project No. HH2-10 and Drawing No. SP1.00, detel February 2013, by induced TAA Architects set, as included in Apparetic Concentration received on 23 October 2013, must be submitted to INSDEAT for approved cross the communication of DEDEAT for approved cross to be communicated at some affected keyout plan to include the following:
- 2.1.2.1. The densited 1:100 year fleedling for the wetercourse nowls of fire development.
- No sirrequires or infrastructure to be located within the 11100 year francline;
- 3.4.2.2. The location of all sterra water determine, sterrassion points must be indicated on the layout;
 3.4.2.4. All Open Spaces to be sensed for Open Space Zens 2 Structe
- Open Space; and

 5.4.2.5. The 10 metro buffer around the payfronatemally sensitive extends
 Area 35 is to be mainvained.
- 2.4.3. Ownership of incividual suits to be by means of sectional title, and a Sady Corporate to be implemented for each gated complex, Management of the Open Space Zone 2 areas to be implemented by a Management Committee consisting of representatives of each flody Compute.
- 5.4.4. A plant "search and cosmic", to be conducted by a bollarinal specialist prior no commencement of any site preparation or construction explicitly for all protected upocies and special concern that must be affected by constructed as well as other indigeness plant appearance which can be reducated. Such appearances are to be houseout an anoustic coursely whereafter they are to be referenced and appropriately "sunspicated, including in substitution industries, where applicable used protected, no the private open space areas on the site. Ness where refrequent will take place are no no observe demonstrated and the ECO is to be on site to mixediar that no species are comprod from the designated open space areas.
- Put ther to Condition 3.4.4 kety protested species which need to be removed or released require the accessant permits to be obtained from DEDEAT for those species protected under the Cape Nature and Environmental Ordination Ordinates 19 of 1974). The lateral partitis are us he obtained from the Department of Agriculture Turesty and Fisheries for any species protected under the National Fundational Agriculture (1998).

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ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM CHEF DRIVID RATE ENVIRONMENTAL NAMES

- 3.4.0. A dedicated team is to carry but a feural "search and rescue", which are to be relocated to a suitably protected returnl sees prior to the commencement of construction. Any species prosected in terms of the Care Kanuc and Environmental Cadinated Codinated 19 of 1977 which need to be removed or relocated trajure the necessary portains to be obtained from DEDEAT.
- 3.5. Conditions specific to the installation of infrastructure and construction of the development as described in Section 2 of this Environmental Authorisation
- 3.5.1. All open spaces of the development as continued in the exceeded layout blan described in Cendition 3.4.2, as well as the draining line to the north of the development site, are to be demandathd as "No Go" areas for the duration of construction activities and anist, be forced off prior to the commencement of any activity on site, specifically forcing the 10 motion before around the environmentally sensitive area. The forcing must however allow for the free movement of small magnitudes.
- 3.5.2. Construction must be in accordance with the amended site injoint plan as described in Condition $8.4.2.\,$
- S.3. Construction areas are to be clearly demarcated and all construction activities are to be restricted to within this democrated was.
- 3.5.4. An Environmental Control Officer (ECC) must be appointed to
- 3.5 A L Overson all porter bright act which and
- 3.5.4.2 Phasure compliance with the consistions are out in this Environmental Astrhorisation and the Construction Environmental Management Programme.
- 3.5.8 A comprehensive stormwater management plan is to be subpitted to DEDEAT prior to the commencement of construction. This is to address amongs others, growing and strains presented. This plan is to include the management of stormwater during construction, as well as the insultation of stormwater inflative during construction, as well as the insultation of stormwater inflativement, placement and construction of stormwater inflativement and construction.
- 3.5.6. All units / dwollings are to be constructed with the following energy and water saving mechanisms:
- 3.5.6.1. Solur geysers or heat pumps, as well as solar panels;
- S.S.S.D. Energy saving lighter
- 2.5.6.3. Duel itish tollels shit low-flow shower bands:
- 5.6.4. Rain water harvesting unke for each block/sol of units within the complemes with a minimum 10000 line capacity for inigation use, washing of cara, etc.
- 5.7. The Draft Construction Symposimental Management Presidence (CEMPs) as contained in Appendix 7 of the uniform information received on 23 October 2013, is hereby approved The CEMPs, regulates with all conditions of this Environmental Mulnors Merican we as the general principles of

ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM

environmental menagoment as untained in Condition 0.5.8 below must be adhered to.

General principles of environmental management as applicable to construction activities must be adhered to thring the installation of services and construction of the ell components of the development. These principles to include, amongst effects, the following:

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- 3.5.8.1. Management of dust that may be generated during construction antivities:
- 3.5.5.2. No cement/concrete mixing to take place on the soil surface. Coment mixers to be placed on large trays to proven andiductal applies from coming into contact with the soil surface:
- 3.5.8.3. Measures to be taken to minimize soil croster assembled with constantiation antivities;
- 3.5.8.4. Generators and find supply needed disting communities must be placed on reays, which rest on clear sand. Once construction has been completed, this said must be removed from sire and disposed of at a registered waste disposal site;
- 3.5.8.5. Any substrate contaminated by the splitage of hydrocarbons of other politicants in he removed from the site and disposed of at a registered waste disposal site;
- 3.5.8.6. All excess construction material and any whete generated during construction must be removed from size on an on-going basis;
- 3.5.6.7. The contractor must provide adequate waste dispusal and carriedon facilities and must ensure that these facilities are properly used and maintained;
- 3.5.6.8. . Clear eigentations as an who is respects 1000 and accountable for what actions:
- 3.5.3.6. The BCO must report any non-compliance with the provisions of the CEMPs and conditions of this Environmental Authorisation;
- 3.5.8.10 Penaltina must be stipulated for any contractor that transgresses the provisions of the CEMPr and contilions of this Environmental Authorisation; and
- 3.5.8.11, A general ondo of cumduct for any nominactor that might complete out any work on the dorologment when
- 3.5.9. All unbegation measures as countained in Section D of the consultant's Gaste Assessment Reput are to be adhered to.
- 3.5.10. Construction work trust to Printed to between 07:00 and 17:00 during weakdays. No construction must take place on weekends or public holidays.
- 3.5.11. All alien invasive species and declared woods, in terms of the Conservation of Agricultural Resources. Act. Act. 43 of 1989, are to be systematically craditated, and any of these species of invariant disturbed ground after the completion of construction are to be established and destroyed prior to actaining the send formation phase.

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- 3.5.12. Any faura or svi-faura on site is to romain undisturbed as for as possible, and shall not be trapped/killed or otherwise caught by any persons.
- \$.5.15. Construction activities, stockylling of any building addedial and the storing of machinery wast be accommodated within such decreased oreas and in accordance with the relevant provisions of the CEMP.
- S.S. 14. Exceveled will must be stockpilled for the during rehabilitation. Care must be taken not to mix to pused with subsoil.
- 8.5.15 Gravel, sand and alone used during construction must be obtained from a bond file source.
- 3.5.15. No blunkel clearing of vegetation is to occur. Vegetabled removal mitst be those only for the specific phase being constructed at that time. Such removal must be carried out to a prespective manner, and all required mitigation magazines becharacter to present soil species.
- 3.5.17. All disturbed great much he progressively rehabilitated with spaniments that have been relocated from consumetion greats.
- 3.5.18. Wenderwannings whendomine (Pty) Lid will be held liable in the event of non-compliance by any contractor associated with this activity.
- 2.3.19. The South Afform Horitage Resources Agency (SAHFA) must be contacted immediately should any noticeable contracted of northage resources be discovered during the course of the development.
- 3.5.25. An environmental such mass be carried out by the BCO quarterly throughout the course of the development, as well as a first such orac construction is complated, and submitted to the Department
- 3.5.21. Compliance/non-compliance recurds must be kept and shall be made awaitable on request from the authorities.
- 3.6. Conditions specific to the on-going operation and management of the development as described in Section 2 of this Environmental Authorisation
- 2.4.1. An Operational Environmental Management Programme (OEMR) is to be submitted to DEDEAT for approval prior to the completion of the development.
- 2.4.2. The OEMPs provided for in Condition 3.5.1 must include anvironmental space and objectives management ections monitoring requirements and ordered for monitoring and remainst actions where actions are instead the The OEMPs is to include the following, amongst others:
- 5,4,2,*. Vignagement of all private open space areas, findusive of an allen regetation management plant
- 3.4.2.2. A comprehensive storm water managerism programme including special measures that may be recessive to ensure that storm water from all table within the development are managed at source to reduce the fish of ensure. All storm with NIST be remirted on site for as the possible within the attention/detention punds where wing released. All macasary massives are to be put in place of the attention on a the discharge massives are to be put in place.

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SCONONIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM

CHEF CRECTORATE ENABORMENTAL AFFAIRS

Series:

- 3 4.3.2 A comprehensive Fire Management Flan
- 8.4.2.4. A comprehensive waste management programme, indicative of mechanisms to provide for recycling of waster
- C.4.2.5. Maintenance of all internal only ade sonder
- 5.4.2.6. The registration of all Private Open Spaces into a collective body of the Body Corporates, Lorethe Management Committee;
- 5.4.2.7. Management unles for the Sody Compreses referred to at Condition 3.4.3. As well as a code of conduct incorporating general as well as environmental management rules) and
- 5.4.2.6. Must bind all property owners to comply with the conditions of the Body Corporate rules and this Environmental Auctorisation, and any other conditions resulting from this Environmental Auctorisation.
- 9.4.3. A suitably qualified, dadicand person as he appointed by the Management Committee of the heaty Corporates to eversee the implementation of, and ongoing adherence to the Chilbs.
- 3.4.4. Notwithstanding the provisions of any of best conditions all recommendations, guidelines and standard conditions contained in the consultanta Basic Assessment Report must be adheren to

Information considered in making the decision

Ę'n,

In reaching its decision, the Department make waser alia, the following into obusidenation:

- 4. The information contained in the following documentation:
- Application form dared 20 Newmber 2018 and received at 11 December 2012:
- The Final Casto Assessment Report compiled by OFN Integrand bhydronmental Management Unit titled, "Proposed Residential Development on a Fortion of Eri 1926, Fairriow, Natson Mandela Cap Municipality" dated May 2018 and received on 28 May 2013;
- The Department's letter requesting thread information dated 22 August 2018;
- The Amended Pinal Gask: Assessment Report from CEN ISM Unit Easted 23 Cotober 2013 and roombred at 23 October 2013;
- Observations made during a site visit conducted by Mr Andries Strawig and Ms Nicole Gerber of the Department, regetion with the consultant on 22 November 2013;
- The Depairtuent's letter magnasting further information as a result of the site vieit dated 22 Novombor 2013;
- The consolidated response Aboumant flow CEN IEM Unit dated 10 December 2013 and received profit Junium 2014:

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economic development, environmental appairs and tourism

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- The acceptance of the Artended Final Sasin Assessment Report and additional information dated 07 March 2013
- 1.12. The BIA regulations of 2010 and the objectives and requirements of relevant legislation, policies and griffolines, including Section 2 of the Plational Environmental Management Act, Act 107 of 1998.

5. Key factors considered in making the decision

- 5.1. The sire was previously authorised for residential development but the Environmental Authorisation had lapsed.
- 5.2. The site is located within the urban edge of Pert Elizabeth and is currently zoned as Residential I, Transportation I, Community I and Community 3, The site will be rezored to allow for Residential I (Granp Housing, Pervale Open Space 2, Thansportation I, for internal reads. The south-dastent portion of the site is southasted for future residential development in the NATA SDF 2009, while the remainder falls within is Chideal Biodiversity Area of the Nelson Mandels. Buy Manifepality's (NMEM) conservation network, However, as the site has been severely degraded and a residential development has previously been authorited on the site based on the familiags of an environmental limput assessment, the NMEM s Devironmental Management Sub-Directorate has issued a letter of agreement for the
- 5.3. The development is furthermore in keeping with the MINK SDF objectives of its urban densitivation policy which supports dessification and increased development laking contributes, areas of public transport and in oxisting nodes. This exchanges whan sprawl, the need to extend bulk sections infrastructure to the peripheny of the metro, and allows access to Cansport confident. The average density of the development in Areas 1 and 2 is 30 units/feotiat, and in Areas 3A and 3B is 80 units/hootare which is in line with the draft Vidinger LSDF which allows a postumin density of 20 30 dwelling units/hectare.
- 5.4. Rurthermore, other developments in the area have been approved at higher densities, thus the character of the area with it's mostly single residential one-storey houses, is in the process of changing to a higher density area with when 2 and 3-storey buildings along the Gleatier Diver contribe. Wisned impact is reduced as the higher density areas are set back from Circular Drives A reciution in the impact of loss of privacy for residences on the eastern boundary of the development is provided by an open space balls:
- 5.5. Services are available for the development, and Condition 3.3.3 will ensure that the Driftsands Collisted Sewer augmentation is completed prior to the transfer of any units/error. Traffic impacts will also be minimised as much as possible, as contained in Conditions 5.3.4 to 3.3.6.
- 5.6. A specialist regetation assessment report contained in Appendix D 2 of the additional information received per 25 5,000 2013, showed that the majority of the site has been degrated and invaded by alien regetation. The impacts of development in terms of find below. An area of

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ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM

CHEF SIRECTORATE: BUSINESS RETAIL AREA RE

the with the retained some of the grassy lyabos springs and has been designated as the socioglocal souts three area retented to in Containing 3.3.2.4, and a 0 matrix in first will be retained around this even. The drainage line to the north of the development is designated as a Critical Ecological Pricass area. Conditions of this Environmental Authorisation require that a 1.100 year fixed his is determined and that no development is to emerge to on this. 3.10, by the Space areas which have been shaded and that a development is to emerge to on this profession areas will be reliabilizated with species of special conference and professional Special bare boar respectation that a suplemented which also provides for alter vegetation means will be suplemented which also provides for alter vegetation management.

- 5.7. All storm water will be managed on site and will be released over a long pariod of time, in order to minimise potential negative impacts of increased storm water flow into the drainage line, as contained in Condition 3.5.2.2 of this Authorisation.
- 5.8. Public participation wielded commonts which included some concerns regarding the devaluation. These issues been addressed in the Music Basic Assessment Report and subsequent information submitted to the Department.
- (5.5). The development will have a positive effect in terms of job opportunities greated in the construction phase.
- 5.10. The Department is of the opinion that, after implementation of the conditions of this Environmental Authorisation and all midgation pressures described in the Environmental Impact Assessment Report, the residual impacts and risks to the environmentare acceptable.
- 11. The conditions set in this Authorisation have been designed to ensure that the negative impaints and risks associated with the project are identified addressed or managed effectively.
- 12 in constraint, it is believed that project implementation will not result in innanceptable environmental impacts.
- In general the environmental process followed is domined to be satisfactory. It is the opinion of the Obpartment that the information at hand is sufficient and adequate to make an informed decision. In this regard the Department is satisfact front subject to compliance with the conditions contained in the American and Authorisation, the proposed activity will not conflict with the general objectives of infograted environmental management and down in Compter 5 of the National Environmental Management Act. 107 of 1998, and that any potentially devictions in information in the proposed activities can be proposed activities for the proposed activities can be proposed activities from the proposed activities can be proposed activities and the proposed activities can be proposed activities activities to proposed activities and the proposed activities can be proposed activities activities and the proposed activities activities can be proposed activities activiti

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ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM

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6. Appeal of authorisation

- 6.1. In forms of Negulation 10(2) of the Emitronmental Impact Assessment Regulations, 2010, you are instrumed to notify all registered interested and affected parties, in writing and within 12 (twelve) calendar days of the date of this letter, of the Department's decision in reserved of your application.
- 6.2. The written notification referred to in Condition 6.1 above must -
- 6.2.11. Specify the date on which the Authorisation was issued;
- 5.7.1.7. Inform interested and affected parties of the appeal proceeding considers.
- 6.2.1.3. Advise interested and affected parties that a copy of the Environmental Authorisation and stasome for the dominion will be farmished on request.
- 5.8. Xedda of intention to appeal against the decision contained in this Authorisation must be addressed in writing, to the MEC for Economic Development, Environmental Affairs and lourism thereinafter referred to as "the MEC" in terms of Regulation 50 II of the NEWA EA Regulations, 2010 and within 20 (wear) days after the appellant has been notified in terms of Conditions 6.1 and 5.2, at the decision.
- 6.4. The address in which the originals of any such a notice of intention to appeal must be mailed is purified below. Please rate that originals may also be delivered per hand or courter.

Department	Economic Development, Brytronmental Albins and Tourism
Attention	General Manager: Environmental Affiles
Postal Address	Private Bag X0054, BRIBHO, 5805
By Sand	Boacon Hill, Hockey Close, Ming Williams
In order to facilitate officient admi intention to appeal and any subse- submitted as follows:	In order to facilitate officient administration of appeals genties of the modes of intention to appeal and any subsequent appeal documentation must also be submitted as follows:
Omoral Manager, Mr Albert Mingana: Environmental Albirs per Exc	0 isl 605 7800
Managor Environmental Affairs: Mr S. Gqalangile per fax:	[053] 305 7300
documentation also be c-marind described of all appears	Windl arthusacs will be supplied on

ECONOMIC DEVELOPMENT, ENVIRONMENTAL AFFAIRS AND TOURISM CHIEF DRECTORATE DAVISONMENTAL AFFAIRS

In the event that an appeal is loaged with regard to this Auditorisation, the listed activities described in this Authorisation may not commonce prior to the resolution of the appeal and prior to the Department's written confirmation of compliance with all confilment that must be met before construction can commonce, whichever event is the latter.

NICOLE GERBER
ENVIRONNENTAL OFFICER: EIM
CACADU REGION
DATE: 57 0: 350

DAYALAN GOVENDER

DEPUTY DIRECTOR: ENVIRONMENTAL AFFAIRS

CACADU REGION / COM/ COM/

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Ty sek

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E: portelizabeth@srk.co.za



REGISTRATION & COMMENT SHEET

BASIC ASSESSMENT PROCESS FOR THE PROPOSED WALMER 132 kV POWERLINE, PORT ELIZABÉTH

	LIZADETR
Attention: Wanda Marais	Fax No: 041—509 4850
	Email: wmarais@srk.co.za

I wish to register as an Interested and Affected party and/or bring to the attention of SRK Consulting the following comments. Contact Information: Title: Name: MONTUTHUZELO RITA MRS JALL Nature of Interest* Undironmental & Social Organisation: Postal Address: Telephone Number: 074 425 3926 22 Lion CACHET CRESCENT Facsimile Number* 066 224 7502 QUERBARKENS Mobile Number: 074 425 2926 PORT CLIZABETH nacaichibi @ 9 mail. com The NEMA EIA Regulations, 2014, require that an IAP discloses any direct business, financial, personal or other interest in the approval or refusal of the Preferred method of communication. The elecance of emol / facermile facilities may result in a delay in receipt of IAP not fications. Please write clearly

Comments (please use additional sheets of paper if required): At this Stage I do not know whether I will be affected by this powerline but I do know point K the Start of the underground work is not far from my property actually it is probably almost at my forg backyard, if I read the map property.

Environmentally this will have an impact, people are walking through as it is a Short out to the Shops, there are also guinea fouls in the area which will be affected by the bash clearing

Be aware this area people treat it as a dumping site.

Signed: (B)ai Date: 2016/02/08



Ground Floor, Bay Suites
1a Humewood Rd,
Humerail
Port Elizabeth, 6001
P O Box 21842
Port Elizabeth 6000
South Africa
T: +27 (0) 41 509 4800
F: +27 (0) 41 509 4850
E: portelizabeth@srk.co.za



REGISTRATION & COMMENT SHEET

BASIC ASSESSMENT PROCESS FOR THE PROPOSED WALMER 132 kV POWERLINE, PORT ELIZABETH

ttention: \	Wanda M	arais								Fax No: 041—	509 4850
									En	nail: wmarals@s	srk.co.za
I wish	to register a	as an Inte	erested and	d Affected party and	or bring to th	ne attentio	on of SF	RK Consult			
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Signed:

Date: 0102 2016

WARREN PARKER OF

JOUBBLT GALPIN SEARLE IN Thank you for your participation

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Port Elizabeth

WANDA MARAIS SRK Consulting (South Africa) (Pty) Ltd e-mail: <u>wmarais@srk.co.za</u>

Our Ref: W PARKER/nm/KIR2/0022

Your Ref:

01 February 2016

Dear Madam

PROPOSED WALMER 17TH AVENUE 132/11 KV SUBSTATION DEVELOPMENT, PORT ELIZABETH

- 1. We represent Stylestar Properties 191 (Pty) Ltd and Kirland Investments (Pty) Ltd.
- Stylestar Properties 191 (Pty) Ltd is the registered owner of Erf 4033 (Portion of Erf 1226, Fairview).
- 3. Kirland Investments (Pty) Ltd, has been granted a Private Hospital License to develop a Private Hospital upon Erf 4033 (Portion of Erf 1226, Fairview).
- 4. The proposed powerline dissects Erf 4033 (Portion of Erf 1226, Fairview), and is accordingly, highly prejudicial to our client's proposed development of a Private Hospital facility on such property.
- 5. We attach a duly completed registration sheet reflecting our representation of Stylestar Properties 191 (Pty) Ltd and Kirland Investments (Pty) Ltd.
- 6. Please would you provide us with all information relative to the proposed development so that we may submit detailed comments in relation to the proposed development.
- 7. We look forward to hearing from you as a matter of urgency.

Yours fait Mully

JOUBERT GALPIN SEARLE

WARREN PARKER

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Commercial • Conveyancing • Estates • Labour • Litigation • Recoveries

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Joubert Galpin & Searle Inc., Reg No 1990/000957/21

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Candidate Attorneys

Daschia Pather, Shayne De Beer, Ashleigh Dyke, Stuart Hodgkinson, Anda Makrwede, Lauren Cunningham Mike Searle



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BASIC ASSESSMENT PROCESS FOR THE PROPOSED WALMER 132 kV POWERLINE, PORT ELIZABETH

Attention: Wanda Marais

Fax No: 041-509 4850

Email: wmarais@srk.co.za

I wish to register as an Interested and Affected party and/or	bring to the attention of SRK Consulting the following comments.
Contact Information:	
Title: M.C.	Name: EUGENE VAN WYNCAARST
Organisation:	Nature of Interest*: RESIDENT
Postal Address: 295 MACON RA	Telephone Number:
LORRAINE.	Facsimile Number**:
	Mobile Number: 084234789
	Email": vanwyng@vwsa.co.Za
"The NEMA EIA Regulations, 2014, require that an IAP discloses any direct business, financial, pe "Praferred method of communication. The absence of email / facsimile facilities may result in a de	ersonal or other interest in the approval occitisat of the application. etay in receipt of IAP notifications. Please write clearly.
Comments (please use additional sheets of paper if required)):
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CLERITERAD POWERLINES	AND STEEL TOWER
STRUCTURES YOUR	RUIN THIS!
Signeti	Date: 28/01/2016
Thank you for	your participation
Thank you for	Jour barneibarion



Ground Floor, Bay Suites 1a Humewood Rd, Humerall Port Elizabeth, 6001 P O Box 21842 Port Elizabeth 6000 South Africa T: +27 (0) 41 509 4800 F: +27 (0) 41 509 4850 E: portelizabeth@srk.co.za www.srk.co.za



Fax No: 041—509 4850

REGISTRATION & COMMENT SHEET

BASIC ASSESSMENT PROCESS FOR THE PROPOSED WALMER 132 kV POWERLINE, PORT **ELIZABETH**

Attention: Wanda Marais	Fax No: 041—509 4650
	Email: wmarais@srk.co.za
I wish to register as an Interested and Affected party and	/or bring to the attention of SRK Consulting the following comments.
Contact Information:	
The second state of the se	Name: Renaud Vanderlinden
F 11 3 -	Nature of Interest": House owner.
Organisation: Private.	Telephone Number:
Postal Address: 1 Clermont Street	Facsimile Number**:
Lorraine Mayor.	turning was a second of the se
600).	Mobile Number: 083 458 7286
	Email**: Revoude web mail. (0.3a.
"The NEMA Eta Regulations, 2014, require that an IAP discloses any direct business, finance "Preferred method of communication. The absence of email / facsimile facilities may result in the communication of the communic	cial, personal or other interest in the approval or retusal of the approval. In a delay in receipt of IAP notifications. Please write clearly.
Comments (please use additional sheets of paper if requi	
The proposed power lines	will devalue my house
and as such I am again	not the project of The
him are built on the	
To To the factor of	not Lorraine Manor and
Lavemore Heights then	am ok with the project.
U	
	v ·
JANA	Date: 26.01-16.
Signed:	

Thank you for your participation

Marais, Wanda

From:

Claire Threadingham < ClaireT@L2B.co.za>

Sent:

25 January 2016 09:43 AM

To:

Marais, Wanda

Subject:

132kv Powerline, Walmer, PE

Good morning Wanda,

I hope you are well and had a lovely holiday.

I am emailing in connection to the above mentioned notice of BA I came across.

Please can I register as an I&AP and also please request a copy of the background information document for this proposed development.

Looking forward to hearing from you.

Kindest regards

Claire Threadingham Regional Content Researcher Private Projects

Leads 2 Business (www.L2B.co.za)

Tel: 0860 836337 0860 TENDER Fax: 033 3435882

'Affiliates of CESA and ASAQS'

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Attention: Wanda Marais

Fax No: 041-509 4850

Email: wmarais@srk.co.za

I wish to register as an Interested and	Affected party and/or bring to the attention of SRK Consulting the following comments.
Contact Information:	
Title: MR	Name: DAVID HAYSELDEN
Organisation:	Nature of Interest*: WARS COUNCILLOR
Postal Address:	Telephone Number: OUL 58/40/3
	Facsimile Number**: 041 581 H013
	Mobile Number: 0726781318
	Email mand 3 mondal a motton and 20
*The NEMA EIA Regulations, 2014, require that an IAP discloses: **Preferred method of communication. The absence of email / face	any direct business, financial, personal or other interest in the approval or refusal of the application, simile facilities may result in a delay in receipt of IAP notifications. Please write clearly.
Comments (please use additional sheets	
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Signed:	Date: 2/01/30/6
	
	Thank you for your participation