



OVERSTRAND MUNISIPALITEIT
ERF 1132, KERKSTRAAT, HAWSTON :
AANSOEK OM VERGUNNINGSGEBRUIK EN
AFWYKING: HIGHWAVE CONSULTANTS (nms
HAWSTON SEKONDÊRE SKOOL vir
PROVINSIALE REGERING - WESKAAP)

Kragtens Artikels 47 en 48 van die Overstrand Munisipaliteit Gewysigde Verordening vir Munisipale Grondgebruikbeplanning, 2020 word hiermee kennis gegee van die onderstaande aansoek van toepassing op Erf 1132, Hawston naamlik:

Vergunningsgebruik

Aansoek ingevolge Artikel 16(2)(o) ten einde 'n 25m hoë transmissie-apparaat op bogenoemde eiendom op te rig.

Afwyking

Aansoek ingevolge Artikel 16(2)(b) vir die volgende:

- Om die 5,0m agter- en noordelike syboulyne na 0m te verslap ten einde die voorgestelde transmissie-apparaat te akkommodeer.
- Om die toepaslike 10,5m hoogtebeperking te oorskry ten einde die voorgestelde 25m hoë transmissie-apparaat te akkommodeer.

Besonderhede aangaande die voorstel lê ter insae gedurende weeke tussende 08:00 and 16:30 by die Departement: Stadsbeplanning te Patersonstraat 16, Hermanus.

Enige kommentaar moet skriftelik ingedien word in terme van Artikels 51 en 52 van die bogenoemde Verordening aan die Munisipaliteit (Patersonstraat 16, Hermanus / (f) 0283132093 / (e) loretta@overstrand.gov.za) voor of op **4 Junie 2021**, stipuleer u naam, adres, kontak besonderhede, belang in die aansoek en redes vir kommentaar. Telefoniese navrae kan gerig word aan die **Stadsbeplanner, Mnr. H Olivier** by 028-3138900. Die Munisipaliteit mag weier om kommentare te aanvaar na die sluitingsdatum. Enige persoon wat nie kan lees of skryf nie kan die Departement Stadsbeplanning besoek waar hul deur 'n munisipale amptenaar bygestaan sal word ten einde hul kommentaar te formuleer.

Munisipale Bestuurder, Overstrand Munisipaliteit, Posbus 20, **HERMANUS**, 7200

Munisipale Kennisgewing Nr. 69/2021

OVERSTRAND MUNICIPALITY
ERF 1132, CHURCH STREET, HAWSTON:
APPLICATION FOR CONSENT USE AND
DEPARTURE: HIGHWAVE CONSULTANTS
(obo HAWSTON SECONDARY SCHOOL for
PROVINCIAL GOVERNMENT – WESTERN
CAPE)

Notice is hereby given in terms of Sections 47 and 48 of the Overstrand Municipality Amendment By-Law on Municipal Land Use Planning, 2020 of the applications mentioned below applicable to Erf 1132, Hawston namely:

Consent Use

Application in terms of Section 16(2)(o) to erect a 25m high transmission apparatus on the above property.

Departure

Application in terms of Section 16(2)(b) for the following:

- to relax the 5,0m rear and northern lateral building lines to 0m to accommodate the proposed transmission apparatus; and
- to exceed the applicable 10,5m height restriction in order to accommodate a proposed 25m high transmission apparatus.

Detail regarding the proposal is available for inspection during weekdays between 08:00 and 16:30 at the Department : Town Planning at 16 Paterson Street, Hermanus.

Any written comments must be submitted in accordance with the provisions of Sections 51 and 52 of the said By-law to the Municipality (16 Paterson Street, Hermanus / (f) 0283132093 / (e) loretta@overstrand.gov.za) on or before **4 June 2021**, quoting your name, address, contact details, interest in the application and reasons for comments. Telephonic enquiries can be made to the **Town Planner, Mr. H Olivier** at 028-313 8900. The Municipality may refuse to accept comment received after the closing date. Any person who cannot read or write may visit the Town Planning Department where a municipal official will assist them in order to formalize their comment.

Municipal Manager, Overstrand Municipality, P.O. Box 20, **HERMANUS**, 7200

Municipal Notice No. 69/2021

UMASIPALA WASE-OVERSTRAND,
ISIZA 1132, STREET STREET, HAWSTON: ISICELO
SOKUSETYENZISWA NEMVUME NOKUSEKA:
ABABONELELI BAMAGAMA APHAKAMILEYO
(egameni le SIKOLO SESEKONDARI SE-
HAWSTON SIKARHULUMENTE WEPHONDO -
ENTSHONA KOLONI)

Isaziso sikhutshwe ngokwemqathango yeCandelo lama-47 nelama-48 loMthetho oYilwayo kaMasipala wase-Overstrand UMthetho kaMasipala woLungiso kuCwangciso lokuSetyenziswa koMhlaba kaMasipala, 2020 wezicelo ezichazwe ngezantsi zisebenza kwiSiza 1132, eHawston ezizezi

Imvume yokusetyenziswa

Isicelo ngokweCandelo le-16 (2) (o) lokwakha isixhobo sokuhambisa esiphakamileyo sama-25m kulo mhlaba ungasentla.

Isindululo

Isicelo ngokweCandelo 16 (2) (b) soku kulandelayo:

- ukukhulula umva ngeemitha ezingama-5,0m nasemantla ekwakhiweni kwemigca ukuya kwi-0m ukulungiselela izixhobo zothumelo ezicetywayo; kwaye
- ukudlula kwisithintelo sokuphakama esili-10,5m ukuze kulungiselelwe izixhobo ezicetyiswayo zokuhambisa eziphakamileyo ezingama-25m.

linkcukacha eziphathelene nesi sindululo ziyafumaneka ukuba zihlolwe kwiintsuku zaphakathi evekini, phakathi kwentsimbi ye-08:00 ukuya kweye-16:30 kwiSeba: loCwangciso lweDolophu 16 ePaterson Street, eHermanus.

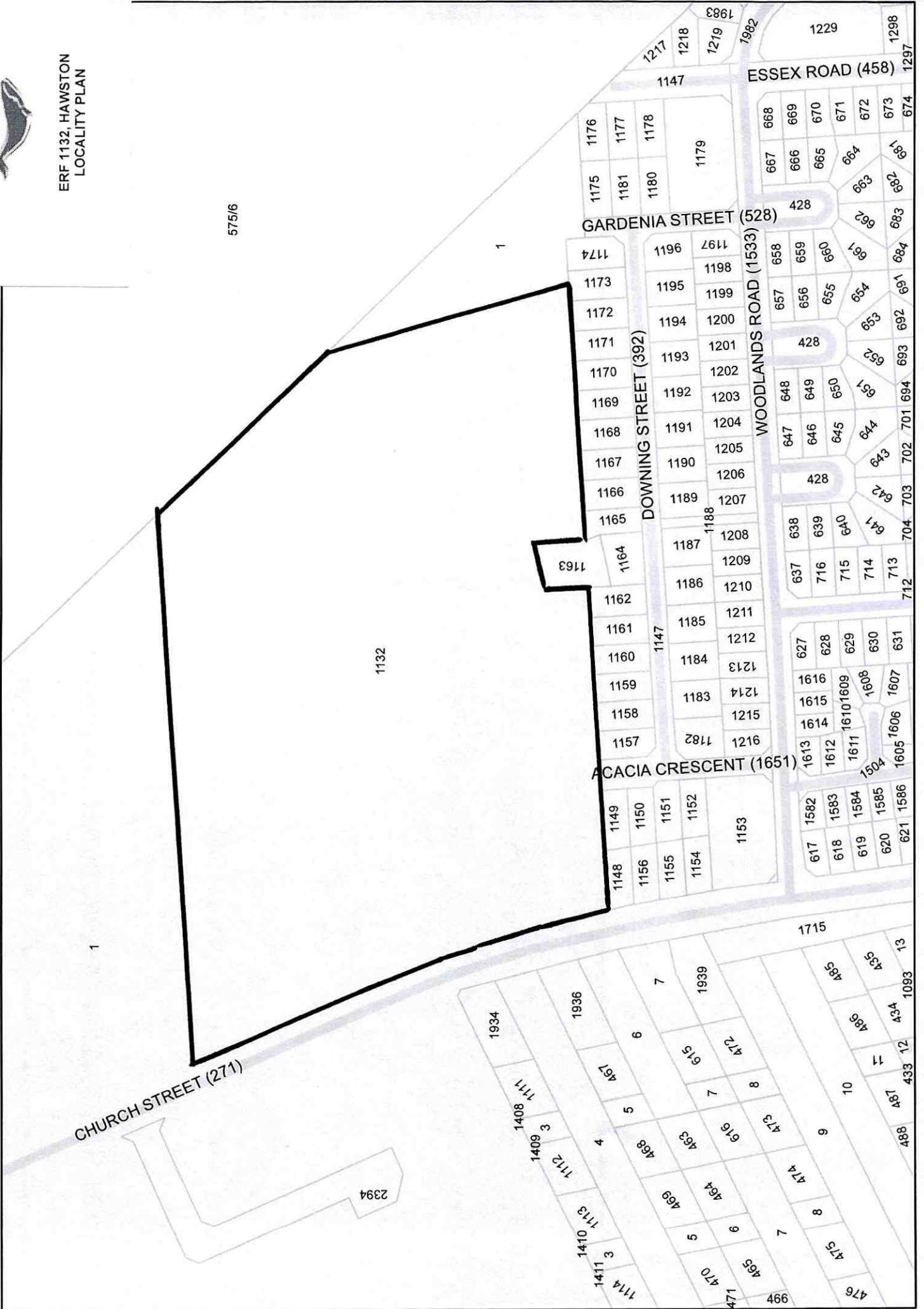
Naziphi na izimvo ezibhaliweyo mazingeniswe ngokuhambelana namaCandelo lama-51 nelama-52 oMthetho kaMasipala (16 Paterson Street, Hermanus / (f) 0283132093 / (e) loretta@overstrand.gov.za) ngomhla okanye ngaphambi komhla wesi- **4 uJuni 2021**, unike igama lakho, idilesi, iinkcukacha ofumaneka kuzo, umdla wakho kwesi sicelo nezizathu zokuhlomla. Imibuzo ngomnxeba kungatsalelwa ku**Mcwangcisi weDolophu, Mnu Henk Olivier** kule nombolo yomnxeba 028-313 8900. UMasipala angala ukwamkela izimvo ezifike emva kosuku lokuvalwa. Nawuphi na umntu ongakwaziyo ukufunda okanye ukubhala angandwendwela iSebe lokuCwangciswa kweDolophu apho igosa likamasipala liza kumnceda ukuze ubhale izimvo zenu.

Umlawuli kaMasipala, kuMasipala wase-Overstrand, P.O. Box 20, **HERMANUS**, 7200

Inombolo yeSaziso sikaMasipala 69/2021



ERF 1132, HAWSTON
LOCALITY PLAN



575/6

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1132

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CHURCH STREET (271)

GARDENIA STREET (528)

DOWNING STREET (392)

ACACIA CRESCENT (1651)

WOODLANDS ROAD (1533)

ESSEX ROAD (458)

2394

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1936

1939

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1. THE APPLICATION

Application is hereby made on behalf of our client Blue Sky Towers (Pty) Ltd to allow the following on Erf 1132 Hawston.

- **Consent use application** in terms of Section 16(2)(o) of the Overstrand Municipality Amendment By-Law on Municipal Land Use Planning, 2020 for the purpose of erecting a 25m monopole type land-based transmission apparatus.
- **Permanent departure application** in terms of Section 16(2)(b) of the Overstrand Municipality Amendment By-Law on Municipal Land Use Planning, 2020 for the purpose of erecting a 25m monopole type land-based transmission apparatus. The departures include the following:
 - Relaxation of the height restriction from 10.5m to 25m;
 - Relaxation of a side building line (northern boundary/ adjacent Erf RE/1 Hawston) from 5.0m to 0.0m; and
 - Relaxation of a side building line (eastern boundary/ adjacent Portion 6 of Farm Afdaks Rivier no. 575) from 5.0m to 0.0m.

This consent use and permanent departures application will allow for the installation of 25m land-based transmission apparatus which is a permitted by means of a consent use for 'Community Zone 1' zoned properties in terms of the Overstrand Municipality Land Use Scheme, 2020 (Schedule 2).

2. PROPERTY DESCRIPTION, SIZE AND OWNERSHIP

The subject property relating to the application is identified as Erf 1132 Hawston with an extent 7.0751HA (seven comma zero seven five one hectares). The property is situated in Hawston. The subject property is located at 1938 Church Street, Hawston. Approval for the intended development was received from the Minister of Education (DA Schäfer) from the Western Cape Education Department on 29 September 2020 – refer to Annexure J.

There are no title deed conditions contained in the title deed no. T78480/1992 that restrict or prevent the installation of a land-based transmission apparatus on the subject property. A copy of the Title Deed for Erf 1132 Hawston containing the details outlined below is contained in Annexure A. *(Please refer to Annexure A: Title Deed)*



TITLE DEED DESCRIPTION: ERF 1132 HAWSTON IN THE OVERSTRAND MUNICIPALITY, DIVISION
CALEDON, PROVINCE OF THE WESTERN CAPE

TITLE DEED NUMBER: T78480/1992

TITLE DEED RESTRICTIONS: None that restricts the installation of a land-based transmission apparatus .
Drawings abide by the building lines imposed by the title deed.

PROPERTY SIZE: 7.0751HA (seven comma zero seven five one hectares)

ZONING: Community Zone 1

PROPERTY OWNER: Provincial Government – Western Cape

SERVITUDES: The proposed development does not encroach or have an impact on the
Registered servitude.

3. CONTEXTUAL INFORMANTS

a. Locality

The concerned property is identified as the Erf 1132 Hawston located within the Overberg Region. The property is situated at 1938 Church Street, Hawston.

b. Surrounding Area

Hawston is a small fishing village situated on the Overberg coast of South Africa's Western Cape province. It is located approximately 100 km from Cape Town along the scenic R43 ocean drive between Fisherhaven and Onrus, close to Hermanus. Other uses in the direct vicinity of the subject property includes residential dwellings, small local businesses and community related activities.

c. Land Use

The proposal entails the erection of a land-based transmission apparatus on Erf 1132 Hawston. The property is currently zoned "Community Zone 1" and is currently used as a place of instruction and comprises of buildings utilised for educational purposes. The surrounding land uses in the area are predominantly utilised for residential and business-related purposes

(small local shops) with community related land uses in close proximity of the concerned property.



Fig. 1 – Aerial photo of development area with the green outlining of the proposed area of intervention

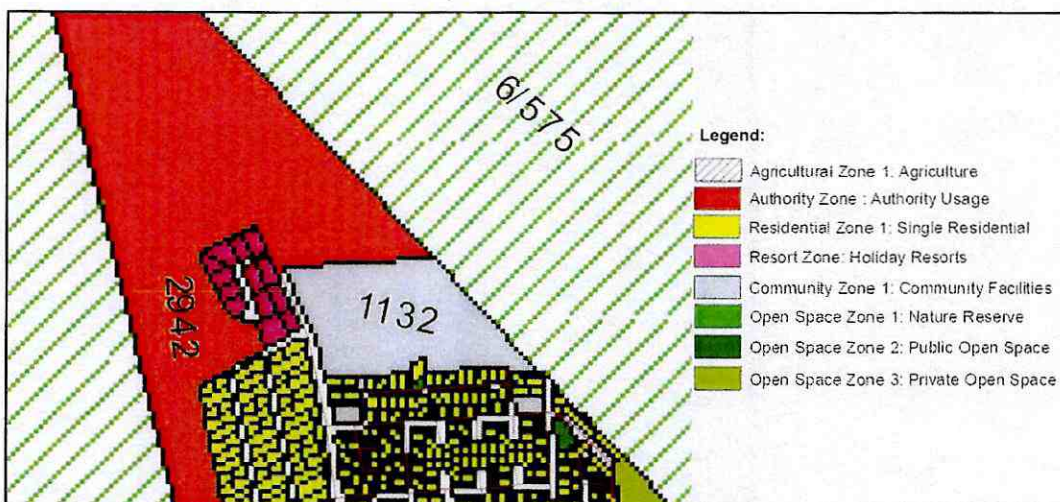


Fig. 2 – Zoning of compliant area (adapted from the Overstrand Zoning Scheme Regulations, 2014 – Rural Zoning (Fisherhaven/ Hawston/ Hermanus/ Stanford/ Rural Areas) - Map 2)

4. DEVELOPMENT PROPOSAL

a. Development

It is the intention of our client to apply for a consent use and permanent departure (height restriction and two common building line relaxations) application to allow for the installation of a 25m monopole type land-based transmission apparatus on the Erf 1132 Hawston. The application entails the following proposed development parameters:

- Erection of a 25m monopole type land-based transmission apparatus situated in the north-eastern corner of the property (adjacent Erf RE/1 Hawston and Portion 6 of Farm Afdaks Rivier no. 575).
- Erection of a DB Pole mounted with floodlight;
- Installation of 9 triband antennae on the proposed 25m mast;
- Installation of 3 transmission dishes on the proposed 25m mast;
- Construction of 4 concrete plinths and installation of 4 x telecommunications equipment containers at ground level;
- 3 Portable fire extinguishers to be installed on site;
- Fibre optic line connecting with a specific point within the compound;
- The mast & equipment containers will be placed inside a +/- 90m² compound enclosed off by a 2.4m palisade fence.

(Please refer to attached Annexure H – Plans)

b. Access

Access to the proposed freestanding base station will be obtained from the existing entrance of the property located at Church Road.

c. Permanent Departure

A height departure will be required as an installation of 10.5m high will not provide sufficient coverage for the complaint area.

d. Building line relaxations

This application includes the relaxation of the northern and eastern side building lines adjacent Erf RE/1 Hawston and Portion 6 of Farm Afdaks Rivier no. 575 respectively. These relaxations will allow for the mast to be installed in an unused portion of the school premises. Further, these building line relaxations are required for the proposal to comply with the requirements set by WCED – refer to Annexure K.

e. Security

The proposed monopole type land-based transmission apparatus will be constructed on Erf 1132 Hawston. Extra security will be added to the actual land-based transmission apparatus through a 2.4m high palisade fence. The telecommunications radio and transmission equipment will be installed inside alarm monitored containers; these containers are secure as they are locked at all times. The antennae will be located 18-25m above ground level. Only authorised personnel will have access to the antennae. A mast gate with a high security lock will be installed ensuring increased security to mast. Access to the equipment and antennae will be limited to registered and qualified personnel only. Health and safety legislation also require restrictive security signage (0, 4 x 0,5m) to be attached to access gate, containers and mast door. The above safety and security measures have been put in place by telecommunication operators and legal entities to prevent access to the public and greatly reduce vandalism of the equipment.

f. Electricity Requirements

Electricity supply will be obtained from the available on-site supply, technological advances have also seen current telecommunications equipment reduce their electricity usage.

g. Environmental

Environmental and social sustainability are regulated by *The National Environmental Management Act (Act 107 OF 1998) (NEMA) - published in Government Notice No. R324*. When read together with the National Environmental Management Act Regulations Listing Notice 3 of 2017 (promulgated April 2017), an Environmental Impact Assessment (EIA) or Environmental Authorization (EA) is only applicable in the following circumstances:

The development of masts or towers of any material or type used for telecommunication broadcasting or radio transmission purposes where the mast or tower:

- i) is to be placed on a site not previously used for this purpose; and*
- ii) will exceed 15 metres in height*

But excluding attachments to existing buildings and masts on rooftops.

The requirements in the Western Cape are defined in NEMA Listing Notice 3 of 2017:

(f) In Western Cape:

- i) All areas outside urban areas; or*
- ii) Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority, or zoned for a conservation purpose, within urban areas.*

As this site falls within an **urban area** inside the town of Hawston and **not** in an area designated for conservation use as prescribed in the Spatial Development Framework adopted by the competent authority, or zoned for conservation purposes. Therefore, the intended development does not trigger a listed activity in terms of the 2017 NEMA regulations and therefore no environmental impact assessment or ROD (Record of Decision) is required. *(Please refer to Annexure G: A Copy of the Listing Notice 3 of 2017)*

5. MOTIVATION

a. Background

Over recent years' cellular communication in South Africa has evolved from merely a means of convenience to an essential business tool, means of communication and safety measure. Initial high tariff rates limited the accessibility of the product and its service. However, over time more reasonable consumer tariffs and packages have been introduced, making cellular communications more accessible to a much larger sector of the population.

Data usage on the mobile networks is also becoming faster, more affordable, and more accessible. User behaviour patterns are continuously changing in reaction to cheap internet, new data intensive smartphones, data intensive applications and websites, and an increasingly

social-media-driven society. These factors resulted in the average consumer data usage doubling every year.

The current cellular infrastructure is not equipped to handle this level of high demand. As a result, the networks become congested with connection problems and dropped calls on the voice network and limited or unstable internet connections on the data network.

Cellular service providers are taking steps to improve their network by keeping abreast with the advances in communication technology and providing increased capacity in terms of coverage in the areas where there is an increased demand. Blue Sky Towers (Pty) strives to make this technology available to a wider spectrum of the population.

Newer technology such as LTE provides faster internet to more users which alleviates the pressure on the base station, however its range is very limited. A single old generation GSM voice based base station could cover dozens of kilometres. The new LTE base stations have a maximum coverage range of 500m depending on the number of users.

The congestion of existing sites together with the decrease in its coverage range necessitates that the distance between base stations decreases, resulting in the need for construction of new freestanding and rooftop cellular base stations.

It is estimated that cellular network operators in South Africa will build more than 4000 new base stations over the next 5 years. The proposed site is located at a nominal point as identified by Blue Sky Towers (Pty) Ltd network planners. By utilizing sites located at the networks' nominal points the number of future base stations is limited and an effective service network can be developed.

The following information is provided to provide clarity on some of the telecommunication terminology. For ease of reference, kindly refer below to an extract from the Overstrand Municipality Land Use Scheme (2020):

"transmission apparatus" means any land- and roof-based support structure and associated infrastructure that is used for the transmission and/or reception of electromagnetic waves and includes telecommunication, cellular telecommunication, radio, television and satellite transmission that is used for commercial purposes;

b. Proposed Development Parameters

The current and proposed allowable development parameters as per the Overstrand Municipality Land Use Scheme (2020) are indicated in the tables below:

Development Parameters	Overstrand Zoning Scheme Regulations (Community Zone 1)	Proposed Development on Erf 1132 Hawston
Floor Factor	1.2	COMPLY:
Coverage	60%	COMPLY
Setback	8m	COMPLY
Building Lines	Street Building Lines: 5.0	COMPLY
	Side building line: 5.0	DEPART: Relax from 5.0 – 0.0m (northern side building line adjacent Erf RE/1 Hawston)
	Side building line: 5.0	DEPART: Relax from 5.0 – 0.0m (eastern side building line adjacent Portion 6 of Farm Afdaks Rivier no. 575)
Parking	1 bay per classroom or office plus a stop and drop facility	COMPLY: No parking spaces will be affected by this development
Height	10.5	DEPART: RELAX FROM 10.5M TO 25M to allow for a land-based transmission apparatus

The proposed erection of a land-based transmission apparatus will **NOT** have an impact on parking, building lines, coverage or floor factor as described in the Overstrand Zoning Scheme Regulations.

c. Physical Characteristics

RF Engineers are subject matter experts and identify sites by utilizing a specific set of engineering rules and principles, Erf1132 Hawston was identified as a prime position on the following premise:

- Property offers the optimal position situated between existing and planned base stations to provide efficient data and voice coverage.

- Proximity to Church Street and the R43 road and surrounding schools, business and residential units which will benefit from more effective voice- and data coverage (e.g. access to WIFI).
- Location hard in the north-eastern corner on property is preferred by WCED. At this location the creation of "dead spaces" are eliminated – which might have become potential hiding places for children behind the base station.
- At the proposed location, the base station will be far away from the school building and surrounding residential dwellings.
- Surrounding geographical aspects are in line with the requirements.
- Minimized physical, natural and visual impact due to vegetation in compliant area.
- Ability to reduce the number of base stations in the surrounding areas.
- Ability to provide sufficient security to the equipment.
- Capacity to share infrastructure with majority of the operators.
- Property position will address the complaints received in the area.
- Sufficient space to erect a freestanding base telecommunications station.

In order to achieve the optimal data and voice coverage objectives base stations in this specific area needs to be approximately 500m apart on average, this is due to the density of the surrounding areas as well as geographical and physical features. The Fresnel effect also influences the quality of the voice and data coverage caused by the amount of steel and concrete of the buildings in the surrounding area, this results in a reduced coverage area.

d. Title Deed Restrictions

In respect of Erf 1132 Hawston it was found that there are no restrictive conditions contained in title deed no. T78480/1992. Drawings abide by the building lines imposed by the title deed.
(Please refer to the attached Annexure A: Title Deed)

e. Health

Current research on telecommunications base stations has reached a point whereby scientists are satisfied that base stations do not pose a health threat. Research on handsets is however

ongoing, as it is deemed that placing the handset against your head could pose a greater threat to health. Mobile phones are low powered radiofrequency transmitters. They operate at frequencies between 450 and 2700 MHz. The handset only transmits power when turned on. Using the phone in areas of good reception decreases exposure as it allows the phone to transmit at reduced power.

In a statement made by the World Health Organisation (WHO) it is stated that effects from base stations and wireless networks are so low that the temperature increases are insignificant and do not affect human or animal health.

The WHO in 2004 said:

"In the area of biological effects and medical applications of non-ionizing radiation approximately 25,000 articles have been published over the past 30 years. Despite the feeling of some people that more research needs to be done, scientific knowledge in this area is now more extensive than for most chemicals. Based on a recent in-depth review of the scientific literature, the WHO concluded that current evidence does not confirm the existence of any health consequences from exposure to low level electromagnetic fields." – World Health Organization (WHO) – website: <http://www.who.int/peh-emf/research/database/en/>

Radio waves are emitted by numerous instruments including microwave ovens and television screens inside our households. Walking along any street exposes us to RF emissions. RF emissions are part of modern-day society and scientists continuously monitor the impacts of these.

ICNIRP (International Commission on Non-Ionizing Radiation Protection), an independent scientific organization established in 1992 published guidelines providing a means of limiting and guiding human exposure to electromagnetic fields. These guidelines have become the world standard for human exposure to electromagnetic fields. ICNIRP considers both the thermal and non-thermal effects of RF exposures as well as all other identified hazards of RF exposure. Cellular equipment needs to comply with all the regulations of ICNIRP as well as the WHO and also National Legislation governing the use of this equipment and the emissions of radio waves. ICNIRP allows for an exposure measurement level of 41.000 (v/m) within a distance of 15m from the antennae. Cellular operator antennae operate at a level of not more than 0.04 (v/m) within a distance of 15m, in laymen's terms the levels are approximately 1/1000th of the prescribed exposure levels. It is therefore clear that the installation of these antennae does not pose a health risk. Cellular companies monitor the health impact of their base stations carefully, and spend large sums of money researching this topic annually.

South Africa's Department of Health has also published EMF exposure limit guidelines. These are based on guidelines endorsed by the ICNIRP. Emissions from all existing and proposed base stations are following these guidelines and are far below international standards.

A statement made by the Department of Health dated 19 January 2018 on the Health Effects of cellular communications base stations states the following (see letter attached in application):

" Considering the very low exposure levels and research results collected to date, there is no convincing scientific evidence that the weak RF signals from base stations and wireless networks cause adverse health effects".

Also mentioned in the statement of the Department of Health another WHO fact sheet was published in June 2011 and reviewed in October 2014 (i.e. *Electromagnetic fields and public health: mobile phones* viewable online at <http://www.who.int/mediacentre/factsheets/fs193/en/>) and subsequently concluded the following:

"A large number of studies have been performed over the last two decades to assess whether mobile phones pose a potential health risk. To date, no adverse health effects have been established as being caused by mobile phone use."

Further on in the document (attached in application), the Department of Health goes on to say that:

"The Department is therefore satisfied that the health of the general public is not being compromised by their exposure to the microwave emissions of cellular base stations. This also means that local and other authorities, in considering the environmental impact of any particular base station, do not need to and should not attempt, from a public health point of view, to set any restrictions with respect to parameters such as distance to the mast, duration of exposure, height of the mast, etc."

f. Need & Desirability

In modern times it is become a rear instance where a member of the public only utilizes one cellular phone, majority utilize a cellular phone for personal and an additional phone, iPad or dongle for business purposes, it's on this premise that we believe it to be in both the Overstrand local Municipality & the operators interests to address the problem of weak voice and data

coverage and to provide the surrounding high traffic commercial & business community with the basic need of effective voice and data coverage, as it has become an integral part of our daily lives.

When selecting a site, special consideration is given to the geographical aspects so that the cellular infrastructure is positioned to ensure optimal functionality and availability to the customer. This reduces the number of base telecommunication stations necessary to provide the best possible experience for the end user.

Our client Blue Sky Towers (Pty) pride themselves in ensuring that a positive impact is created in terms of the social, environmental and economic wellbeing of the area. Since the introduction of LTE in South Africa in 2012 there has been greater need for access to faster data, due to the higher penetration of LTE data in commercial and business areas, this has led to lower subscription fees which in itself provide economic sustainability and development. LTE will ultimately address high data traffic requirements and the surrounding community will be the main beneficiary.

The erection of a telecommunication base station does not impact on the current or surrounding land uses of the property. The construction and maintenance phase of the proposal will provide a positive economic & social impact by ensuring job creation effecting the surrounding community in a positive way.

In recent events e.g. COVID-19 outbreak, the importance of optimum voice- and data coverage in residential areas were proven. In order to perform important employment duties, these services are considered to be essential.

When choosing a site for a telecommunication base station, service providers are guided by nominal points indicating the areas where poor signal is being experienced.

f.1 Choice of site

These nominal points are selected because of an increase of customer complaints, within an area. When there is an increase in the number of users in an area. The coverage provided by the existing network decreases, leading to dropped calls and lack of data services. Figures 4 - 9 strive to explain how the need for an increase in cellular infrastructure evolves in a typical urban area.

f.2 Cellular infrastructure explained:

Figure 3 is an illustration of optimum network and data coverage. This is explained by envisioning the octagonal shape of a honeycomb (cells). As network users increase, the cells shrink which leads to gaps within this network of cells. This leads to dropped calls, weak/limited signal and the failure to access the latest technologies in communication innovations (Figure 4). Gaps between cells require new/additional telecommunication base stations to be placed in these gaps to retain good network coverage. Locations for telecommunication infrastructure are primarily chosen within areas where a need exists for coverage (refer to Figure 4). If a need for coverage does not exist in a specific area, no company would invest capital to build a telecommunication base station in the said area. The fact that there are only a few telecommunication base stations in the surrounding area supports the statement that there is a clear need for coverage in the area.

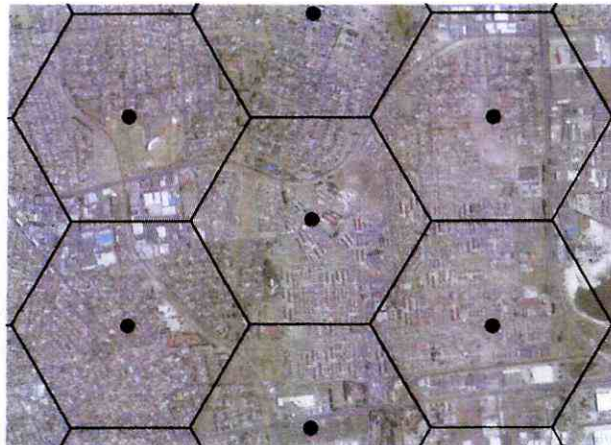


Fig 3 - Initial coverage (cell) provided by Telecommunication Base Stations

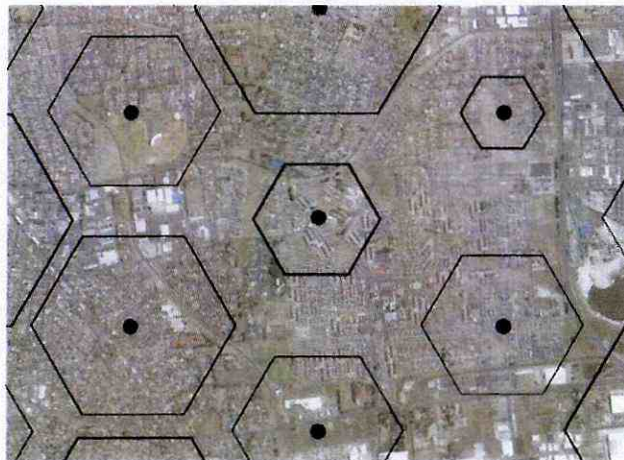


Fig 4 - Coverage decreases due to increase in network users – cell size decreases

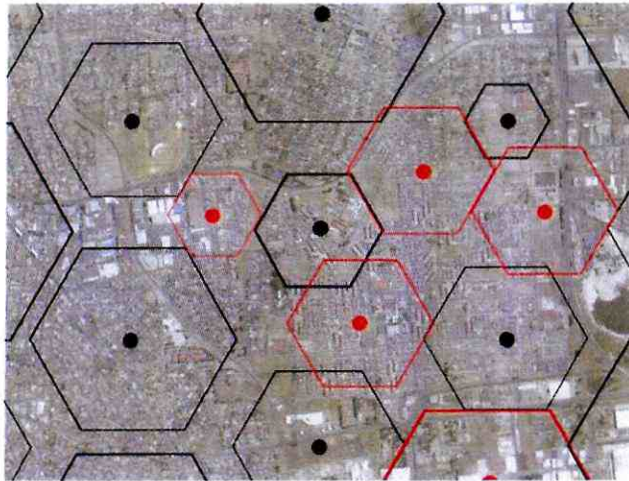


Fig 5 - Additional telecommunication base stations required to fill the gaps

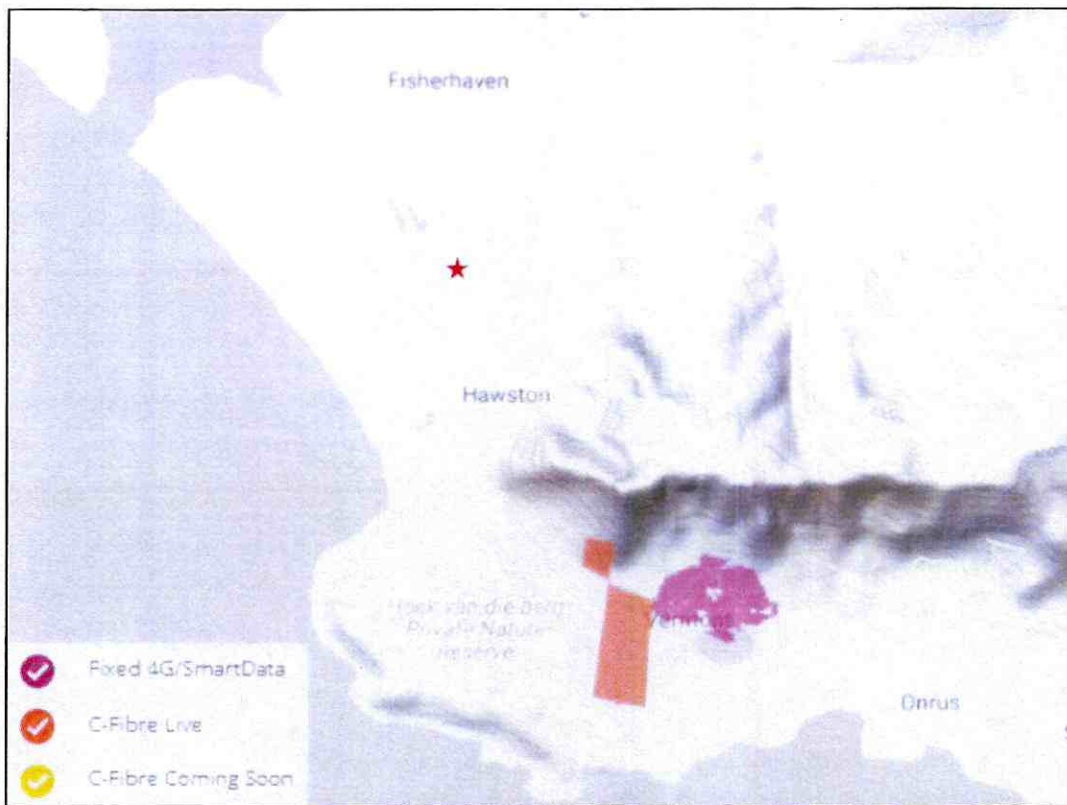


Fig 6 – Cell C Fixed-LTE connectivity in the area of Hawston – Red star indicates the location of the site (Source: <https://www.cellc.co.za/cellc/coverage-map>)

Figure 6 illustrates the current Cell C Fixed LTE coverage in Hawston. It should be noted that some areas have very limited LTE and 4G technology (especially MTN and Vodacom Advanced LTE and Fibre connectivity). Therefore, a land-based transmission apparatus as proposed in this application will increase the amount of coverage in this area.

g. Existing Infrastructure

Figures 7 and 8 aim at illustrating the manner in which the level of voice- and data coverage potentially may be increased. These RF plots are provided by our client and indicate the coverage provided by existing telecommunication infrastructure within a 500m and 1000m radius, vs the expected increase in coverage provided by the proposed development.



Fig. 7 – RF plot indicating coverage provided by existing telecommunication infrastructure within a 500m and 1000m radius (Source: As composed by the client’s RF Planners)

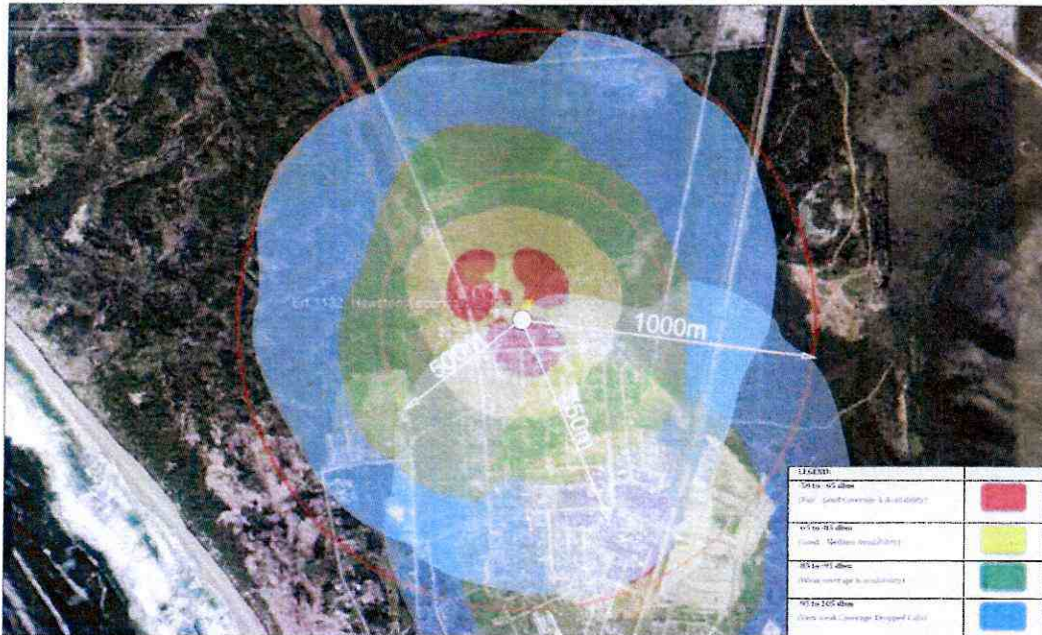


Fig. 8 – RF plot indicating the expected increase in coverage provided by the proposed installation (Source: As composed by the client’s RF Planners)

h. Existing Policy Frameworks

Overstrand Municipality Land Use Scheme, 2020 (Schedule 2)

Chapter 16.10.23 of the Overstrand Municipality Land Use Scheme, 2020 (page 152) provides a standard list of criteria for the assessment of applications related to the erection of transmission apparatus. For ease of reference, this criterion is presented in a tabular fashion coupled with the manner in which our proposal addresses each point.

CRITERIA	PROPOSAL ON ERF 1132 HAWSTON
(a) Site Development Plan which clearly illustrates the proposal in the context of the existing landscape and receiving environment, with reference to application guidelines as may be	Please refer to submitted building plans and supporting documents that addresses this criterion.

incorporated in the application form;	
(b) Transmission Apparatus Infrastructure Plan (indicating but not limited to the following, namely dimensioned plans showing detail of TA, graphic illustration of the proposed facility, elevation details, proposed materials and colours, screening or fencing);	Please refer to submitted building plans and supporting documents that addresses this criterion.
(c) Site Development Plan and Transmission Apparatus Infrastructure Plan to be accompanied by a report detailing the motivation for the selected site, how the siting and design of the facility responds to the SDP;	With reference to accompanying development plans, this report aims to confirm that the TA is presented in an unused portion of the school property with a considerable distance away from residential dwellings. The TA at this position holds the ability to accommodate at least three of the four MNOs operating in SA. The design is carefully selected as it will accommodate the most operators while limiting the number of future base stations. The position in the north-eastern corner is favoured as it is far away from the road and will have the least visual impact.
(d) Motivation report. to be accompanied by relevant proof pertaining to need and desirability (demand & technical requirements);	Figures 6, 7 and 8 reflects the current coverage in the area. During the National State of Disaster issued by the National Government during the COVID-19 pandemic, telecommunication services were realised as essential. These services allowed people to work-from-home, educate children and staying connected with loved ones. As more people depend on these services during these uncertain times, the pressure on existing infrastructure and the general coverage increases. Additionally, this development will be able to provide optic fibre connectivity to the community of Hawston.
(e) Application to satisfactorily demonstrate to the AO / MPT that	Surrounding properties are predominantly zoned for residential and agricultural uses. Therefore, the school

all alternatives to the site itself have been explored within a 1km radius of the subject property;	property is one of the only properties that will be able to accommodate this development without compromising any future expansions or developments in the surrounding area.
(f) Minimum of two alternative sites and design options to be considered;	As discussed under criterion (e), limited alternative sites in the surrounding area exist that may act as alternative sites. No buildings exist that may present a rooftop-based TA as alternative.
(g) Zoning and land use map to accompany application, that shall also indicate all areas of heritage or environmental significance, if applicable;	Accompanying drawings aligns with this criterion. No heritage or environmentally significant sites are located in close proximity to the site.
(h) Visual Impact Assessment prepared by a suitably qualified professional, if required by the municipality, that shall incorporate mitigation measures limiting visual impact;	The proposal site is not close to residential dwellings. Therefore, it is our opinion that a Visual Impact Assessment in this instance is not required.
(i) Landscaping plan to accompany application, if required by the municipality, and	The proposal site is located in the far north-eastern corner of the school property. Landscaping in this instance will not aid in mitigating the visual impact of the development. Should council require this, our office will prepare and submit such a plan.
(j) Statement demonstrating that the installation complies with the applicable health and safety standards.	Blue Sky Towners only uses competent contractors for the installation of TA. Blue Sky Towers manages its Tower build operations in line with the Occupational Health and Safety (OHS) Act, 1993 (Act No. 85 of 1993) and the applicable sub-regulations, in particular the Construction Regulation (CR) 2014.

Western Cape Integrated Development Plan

As depicted in the Western Cape IDP, a change in intensified land use and form is anticipated. Hawston has been identified as an easily accessible activity corridor where increased public

movement and transportation is both being expected and supported by the district municipality. The positioning of the base station will be in close proximity of the district restructuring routes. This will lead to an increase in tourism, commercial and business activities and would require the need to erect a base station which in turn will address the increased communication needs of the surrounding community.

Western Cape Economic Development Strategy (2009)

The Directorate for Economic and Human Development published a draft Economic Development Strategy in 2009 which supports the need to provide fundamental telecommunications infrastructure and to provide the best possible available coverage. This will lead to the attraction and growth of the commercial sector and at the same time retain and advance skilled persons

Please find below an extract from the above-mentioned policy supporting telecommunications infrastructure:

"High data access and low telecommunications costs are a key input factor for local community, business and industry to achieve sustainable growth" &

"Taking into account the high accessibility of mobile telephones and the growth in the mobile telecommunications market, the provincial government will actively seek to create technology parks in nodal areas in order to increase the digital literacy of citizens".

As confirmed by the policy, basic access to voice and data coverage is defined as a basic need for the public and falls under the umbrella of electricity, water, sanitation and access.

i. Electricity

The electricity supply to TI (Telecommunications Infrastructure) must, where practically possible, make use of underground cables. All electrical installations must be as per Eskom or Overstrand Local Municipality's Electrical Department requirements and standards. Our client will ensure that the proposal will be in line with the above-mentioned electrical supply requirements.

j. Visual Impact

Special consideration has been given to the placement of the proposed land-based transmission apparatus in order to minimize the visual impact as far as possible however this is challenging at times. The proposed erection of a 25m monopole type land-based

transmission apparatus will offer the opportunity for operators to collocate resulting in the reduction of future transmission apparatus (refer to Figure 10). The mast compound is also smaller ($\pm 80\text{m}^2$) than the typical mast compounds (standard 100m^2). Our client Blue Sky Towers (Pty) has selected to erect a monopole type land-based transmission apparatus design in order to be sympathetic to the character of the area and blend with the activities found on the property (existing school buildings). A monopole is an option that blends with an urban setting. Although it does not echo existing streetlights in the compliant area. If there is lush trees and plants in the area, a green painted mast will best blend in the area. Alternatively, it can be left in galvanised silver or painted white.

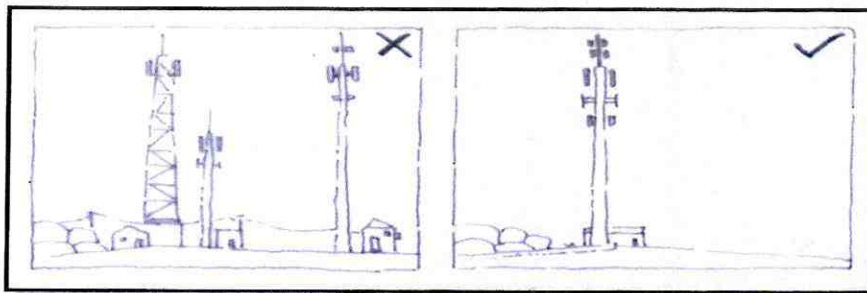


Fig.10- *Sharing of Infrastructure*



Fig. 12 – *Artist impression of proposed development as observed from Church Street*

The visual impact of the land-based transmission apparatus will be further reduced by the existing vegetation found in surrounding the area. The position of the development behind an existing building will further lessen its visibility from a street-point-of-view. Council are welcome to suggest any other tower design should it be required, however the practicality and height thereof need to be considered – please refer to the client’s website for examples of other tower solutions <https://blueskytowers.com/>

Should the relevant departments within the city council require an altered design the client would be willing and forthcoming to the proposal. The proposal will not impact on the current land use. As illustrated in Figure 7,8 and 9 this land-based transmission apparatus will create collocation options for two/ three of the four Mobile Network Operators e.g. Vodacom, MTN, Cell C and/ or Telkom Mobile.

k. Access & Traffic considerations

Erf 1132 Hawston is easily accessible, and access will be obtained from Church Street. This road has low-to medium traffic volume thus this development will not affect traffic negatively and will not cause any additional traffic volume to the area.

l. Alternative candidates

Various alternative candidates were evaluated and approached for this proposal as detailed below:

- **Rooftop option** was considered but would be impractical due to the average building height on the area being less than 15m in height.
- This area is primarily used for residential and community uses. Therefore, the Erf 1132 Hawston holds sufficient unused space to permit the installation in question.
- **ALTERNATIVE DESIGNS:** should council require mast amendments with regards to the monopole type land-based transmission apparatus design, our client would be satisfied to provide alternatives.

6. CONSISTENCY WITH SPLUMA AND LUPA PRINCIPLES

This application complies with the land development principles (Chapter 2, SPLUMA, 2013) as referred to in section 42 of the *Spatial Planning Land Use Management Act, 2013* (Act 16 of 2013) (SPLUMA) and (Chapter VI, LUPA, 2014) as referred to in section 59 of the *Western Cape Land Use Planning Act, 2014*:

HOW DOES THIS APPLICATION COMPLY WITH THIS PRINCIPLE?	
Spatial Justice	<p>In a broader sense, spatial justice refers to an intentional incorporation of spatial (geographical) aspects. This refer to the fair and equally distributed services and enhanced accessibility of these services.</p> <p>The aim of this proposal is to provide excellent communication service to the inhabitants of an area.</p>
Spatial Sustainability	<p>Spatial sustainability is an explicit concept which describe the relations between environmental, economic and socio-cultural facets related to a societal environment.</p> <p>Enhanced signal in an area will promote all three the dimensions of sustainability (economic, social and environmental facets). Economically, businesses in the area will benefit from enhanced connectivity. The social facet is addressed as more people will have access to emergency services (e.g. Healthcare, Police, Fire response etc.). The third dimension (Environmental facets) will be promoted as the sensible placement of land-based transmission apparatus and the possibility of co-location will limit the amount of transmission apparatus, should there be sufficient signal in an area. This development will create a co-location opportunity for two/ three of the four Mobile Network Operators.</p>
Spatial Efficiency	<p>Spatial efficiency relates to the concept of minimum distance to be travelled between a specific location and intended destination. Telecommunication Infrastructure is placed in an area (optimally situated between planned and existing stations) with a reason. This reason is to incorporate various factors (e.g. number of users, quality of service etc.) when considering the placement in order to promote effectiveness and is not merely placed by random.</p> <p>This development will make use of existing local resources and contribute to specialised skill development within the local municipality.</p>
Spatial Resilience	<p>Spatial resilience can be defined as the ability of a region to withstand possible arising shocks (e.g. economic crisis, social disruptions etc.). However, Telecommunication Infrastructure will be a service that will always be necessary. In a state of crisis, communication plays an integral role in a societal environment.</p>

Good administratio	This installation will be lawful and reasonable, following an equal and fair public participation process in order to incorporate the views and opinions of all relevant parties. The Overstrand Municipality is obligated to consider the application fairly and within the timeframes provided in terms of the Municipal Planning By-Law.
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7. CONCLUSION

This application for consent use and permanent departure (height restriction and two side building line relaxations) application aims to obtain council's permission to install a proposed 25m monopole type land-based transmission apparatus on Erf 1132 Hawston. We would like to emphasise the positive contribution this transmission apparatus will have on the immediate area, as well as the surrounding community and passing commuters:

- This proposed development comprises a 25m monopole mast (in the north-eastern corner the property), triband antennae (3 x 3 = 9 antennae), 3 x Transmission Dishes, 4 x concrete plinths and 4 x equipment containers within an approximately 90m² compound, surrounded by a 2.4m palisade fence.
- Access to the compound will be obtained through the existing point-of-entry of the property;
- The base station will be surrounded by a 2.4m palisade fence and antennae will be securely positioned at the top of the mast.
- This installation will not constitute a listed activity according to NEMA listing Notice 3 of 2017.
- This application is also supported by a Health Statement made by the Department of Health on 19 January 2018 which reads as follow: "*The Department is therefore satisfied that the health of the general public is not being compromised by their exposure to the microwave emissions of cellular base stations.*"
- This proposed installation complies with the Spatial Planning and Land Use Management Act (SPLUMA), 2013 and Western Cape Land Use Planning Act (LUPA). 2014.
- Eradication of poor network coverage three of the four major Mobile Network Operators (MTN, Vodacom, Cell C and/ or Telkom Mobile). Due to the height of the proposed mast, various Mobile Network Operators may co-locate and share infrastructure. Figures 4 – 9 strive to illustrate the need and desirability for enhanced voice- and data coverage in the subject area.

- Alternative sites (rooftop options) were considered, however this site posed as the best option in terms of mobile coverage.
- Enhanced voice and data coverage will assist to combat crime and life-threatening emergencies. This installation will promote accessibility to emergency services (e.g. Ambulances, Police- and Fire departments etc.). Mobile communication has become an important safety and security element in modern society. In an emergency, such as housebreaking, medical alert or fire, a member of a household can quickly and easily contact the emergency services for help.
- Social integration will be promoted by this installation. Most households in the surrounding area depend on the services of the cellular telecommunications providers, including internet and social networking media (Facebook, Twitter etc.). With such a high demand for their products, it follows that service providers are responsible for supplying a high level of network coverage.

Finally, we would like to emphasize that communications companies deliver an important service to the wider public, and in terms of their license with ICASA they have to meet certain standards in order to retain their licenses. One of these standards is to supply adequate network coverage to their demanding customers. The proposal also allows for all other service providers to share this installation and refrain from constructing another base station in this area.



TP-A Theart
(Holivier)

11A Gladstone Street
Durbanville
7550

File reference: 1132 HHW

20 January 2021

DIRECTOR: INFRASTRUCTURE & PLANNING
Overstrand Municipality
Town Planning
16 Paterson Street,
Hermanus,
7600

Dear Madam/ Sir

RE: RESPONSE TO ADDITIONAL INFORMATION REQUESTED ON THE APPLICATION FOR CONSENT USE AND DEPARTURE TO PERMIT LAND-BASED TRANSMISSION APPARATUS ON ERF 1132 HAWSTON

This letter serves as a response to two letters requesting additional information. First letter is dated 8 December 2020 and extension was granted until 29 January 2021. The second letter is dated 22 December 2020. This response is presented in a twofold fashion as it first provides a response to the first letter, followed by a response to the second letter.

First letter: Dated 8 December 2020 (extension granted until 29 January 2021)

The requested additional information read as follow:

"Owner's Consent to be submitted where Provincial Government – Western Cape give the Principal of Hawston Secondary School permission to appoint the applicant on their behalf. Document to be undersigned by a minimum of two witnesses. (see attached database information for ease of reference).

FILE NO: EL 1132 - HAW
SCAN NO: 02
COLLABORATOR NO: 1501392

TP 28 JAN 2021

Response:

Application to WCED from Hawston Secondary School: With reference to the circular 0008/2019, Mr Philander on behalf of Hawston Secondary School acknowledged that the school is required to apply for ministerial approval to host a cellular mast and base station on the school property. Annexure A of this letter of response, provides a copy of the letter addressed to Mr. De Pontes (WCED) to obtain permission to enter into such an agreement.

WCED APPROVAL: We wish to highlight the fact that the Western Cape Government Education Department awarded permission to Mr. Philander in an official state document date 29/09/2020, reference no.: 12/2/1/E1802, IMS number: 20200805-7386, signed by the Minister of Education (Western Cape), DA Schäfer (MPP). This letter specifically deals with the application for approval to erect a Telecommunication Base Station. (See Annexure B that accompanies this letter of response)

Amendment to Annexure "B and C": This state issued consent awarded to Mr. Philander, is accompanied an *Amendment to Annexure "B and C"*. This amendment is signed by two witnesses and confirms that an agreement was entered into by and between Hawston Secondary School as ratified by the Western Cape Education Department (the Landlord) and Blue Sky Towers (Pty) Ltd (the Tenant). The amendment is accompanied by a signed set of the drawings as submitted to the Overstrand Municipality. (See Annexure C that accompanies this letter of response)

Minutes of SGB Meeting: Contains signatures of entire School Governing Body of the Hawston Secondary School that approves the request for the installation of telecommunication equipment on the School's property. Mr. Philander is the principal and is duly authorised to act as power of attorney. (see Annexure D)

Power of Attorney: The Power of Attorney signed by Mr. Philander confirms that Highwave Consultants are appointed for and on behalf of Blue Sky Towers (Pty) Ltd to apply for the necessary land use applications at the Overstrand Municipality. (See Annexure E)

Second letter: Dated 22 December 2020

- *“Motivate why a lower transmission tower cannot be considered.*
- *Indicate the height of the transmission tower clearly on the elevation plan.*
- *A more detailed description (property, what building etc.) must be provided and also why the alternative could not be considered. Two alternatives must be provided, which could also include a co-location. Please provide an additional alternative.*
- *The dimension of the transmission apparatus yard must clearly be indicated on the site plan (larger dimensions).”*

Response:

- *Motivate why a lower transmission tower cannot be considered.*

At its current position, the closest building other than the school property is located at +/-220m south of the tower.



Figure 1 – Location of mast (proposal area indicated by star)

To the north of the proposal, no buildings are found as it is primarily vacant/ agricultural land. As the mast is placed quite significantly further away from the residential area, a lower mast will be illogical as it will not be able to provide the community of Hawston with significantly faster voice- and mobile data. This will in future, result in the need for an additional mast in the area to provide optimum coverage to the community.

It should be noted that Blue Sky Towers aim to accommodate at least three of the four Mobile Network Operators (MNOs) operating in South Africa namely Vodacom, Cell C, MTN and Telkom Mobile. A standard 25m Mast accommodates at least three operators at three different tiers at the heights between 16m and 25m above ground level. When the height of the mast is reduced, the potential coverage (especially for the operator that is accommodated at the bottom tier of antennae), significantly reduces. For the sake of argument, if the mast is reduced to 15m, the three tiers of antennae is found at the heights 6m and 15m above ground level. A mast at this height is only sensible when it is located closer to the area intended to receive enhanced voice- and data coverage. In this event, the mast will need to be relocated to the area indicated by the blue triangle in Figure 1. However, at this location, the visual impact on the adjoining properties is much higher.

Therefore, for the proposal to be sensible, delivering the optimum level of coverage, accommodating the most possible MNOs, while being placed on an unused portion of the school grounds with least visual impact, a 25m transmission tower is required to assist the current networks with additional infrastructure.

- *Indicate the height of the transmission tower clearly on the elevation plan.*

Kindly refer to the revised set of drawings that provides more detail on the elevation plan (see Annexure F)

- *A more detailed description (property, what building etc.) must be provided and also why the alternative could not be considered. Two alternatives must be provided, which could also include a co-location. Please provide an additional alternative.*

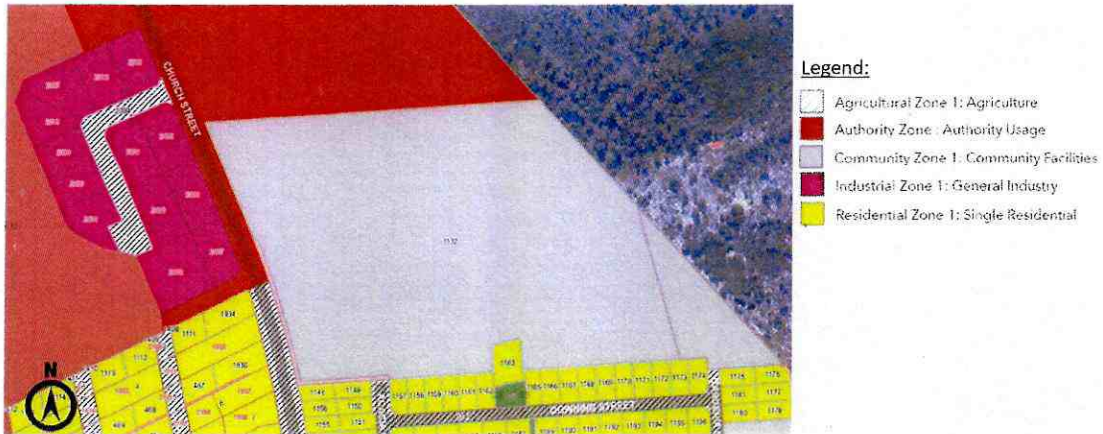


Figure 2 – Zoning Map of subject area

Erf 1 Hawston – Zoned 'Authority Zone'. Located north of Erf 1132 Hawston. Development of transmission apparatus possible by means of consent use. However, as the property is undeveloped and hold greater potential for future development, this site was not considered. Additionally, this property is too far away from the residential area intended to be served with enhanced voice- and data coverage provided by this development. No buildings are found on the property with an adequate height to allow for a rooftop installation.

Industrial zone 1 properties – Erven 2401, 2400, 2399, 2398, 2397, 2396, 2395, 2405, 2406, 2407, 2402, 2403 and 2403 allows for transmission apparatus as primary right. However, these properties are currently vacant. Proposing a mast on any of these properties will limit their future use. As no building plans for buildings exist. Additionally, no services are available at these properties yet. Therefore, an unused portion of the schoolgrounds in the northern corner of Erf 1132 Hawston was preferred.

Residential Zone 1 properties – To the south of Erf 1132 Hawston. Residential Zone 1 properties does not allow for transmission apparatus. Therefore, a rezoning will be required to accommodate the said development.

The closest transmission apparatus found in the area is located +/- 750m south-east of the subject property. Due to the distance from the subject area, this single mast fails to provide

sufficient voice- and data coverage to the entire Hawston (see Annexure G – RF Plots). Due to the COVID-19 pandemic, people are encouraged to remain indoor, work-from-home and educate children. Fast and reliable internet connectivity allows people to stay connected socially, educate children and conduct day-to-day employment duties. Therefore, this mast is not a careless act, as it strives to provide sharable infrastructure with the addition of optic fibre connectivity.

- *The dimension of the transmission apparatus yard must clearly be indicated on the site plan (larger dimensions)."*

Kindly refer to the revised set of drawings that clearly indicates the dimensions of the transmission apparatus yard on the site plan (see Annexure F)

CONCLUSION:

We would like to emphasise the positive contribution this base station will have on the immediate area of Hawston, commuters and surrounding community:

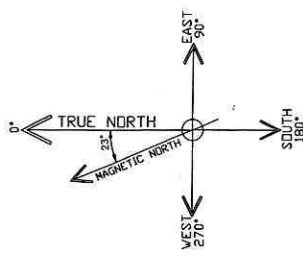
- *In recent events e.g. COVID-19 outbreak, the importance of optimum voice- and data coverage in residential areas were proven. In order to perform important employment duties, these services are considered to be essential.*
- *The position of the mast was reconfigured to an area where it is as far away from any residential dwellings as possible, while still providing voice- and data coverage.*
- *A lower height will require the mast to be relocated closer to residential units which will in turn have a greater visual impact.*
- *No additional access points will be required*
- *This application is by no means a careless act as health and environmental aspects are taken into consideration with associated proof that this development holds no threat for inhabitants and/or commuters.*
- *Most households in the surrounding area depend on the services of the cellular telecommunications providers, including internet and social networking media*

(Facebook, Twitter etc.). With such a high demand for their products, it follows that service providers are responsible for supplying a high level of network coverage.

- *Please note that the residents in the area are not the only ones being provided with these services. Visitors to the area, businesses and daily commuters will benefit by having access to improved communication facilities.*
- *Mobile communication has become an important safety and security element in modern society. In an emergency, such as housebreaking, medical alert or fire, a member of a household can quickly and easily contact the emergency services for help. However, if the coverage of mobile service providers' is poor, then contacting emergency services becomes a difficult task.*

Finally, we would like to emphasize that communications companies deliver an important service to the wider public, and in terms of their license with ICASA they have to meet certain standards in order to retain their licenses. One of these standards is to supply adequate network coverage to their demanding customers. The proposal also allows for all other service providers to share this installation and refrain from constructing another base station in this area. It is clear that the proposed application meets the applicable desirability criteria and precedents set and it is therefore recommended that the application be supported by the relevant authorities.

We trust the above response addresses your concerns. Please do not hesitate to contact me should you have any additional queries.



SIDES	METRES
AB	4290.05
BC	1119.99
CD	1132.83
DE	1135.14
EF	126.52
FG	124.94
GH	122.18
HJ	1169.89
JK	157.47
KL	150.25
LM	150.25
MA	153.88



LEGEND

- EARTH
- POWER
- RF TRANSMISSION
- MICROWAVE TRANSMISSION
- FIBRE OPTIC

APPROVED PROPOSAL
PROPERTY OWNER SIGNATURE: _____

DATE: _____

REFERENCE DRAWINGS

2953-D-001	LOCALITY PLAN MACRO
2953-D-002	LOCALITY PLAN MICRO
2953-D-003	SITE PLAN
2953-D-004	LAND USE PLAN
2953-D-005	TOP VIEW
2953-D-006	ELEVATIONS
2953-D-008	PUBLIC SAFETY LAYOUT
2953-D-009	PUBLIC SAFETY ELEVATIONS

SITE NAME: _____

**HAWSTON
SECONDARY SCHOOL**

SITE DEVELOPMENT PLAN

REV	REV
DRAWING No:	2953-D-007



SITE ADDRESS: CHURCH STREET,
HAWSTON,
WESTERN CAPE

LATITUDE: -34.378257°
LONGITUDE: 19.132338°

REV	BY	DATE	DESCRIPTION
E	NJT	19/01/21	DRAWING AMENDMENTS
D	ACS	13/10/20	REVISED NOTES
C	ACS	06/08/20	MOVED SITE
B	ACS	24/06/20	MOVED SITE, REVISED LAYOUT

DRAWN:	ACS	DATE:	13/10/20
CHECKED:	AJM	DATE:	13/10/20
APPR:	AJM	DATE:	13/10/20
MERLIN PROJECT No:	2953		
CAD FILE No:	2953-D-007-D		
SHT SIZE:	A3	SCALE:	1:1500

NOTES

1. Site compound dimensions as shown surrounded by security fence ± 2.4m tall with swing gate.
2. 25m Monopole mast to Engineer's design. Mast galvanneal mild steel unpainted.
3. Site internally surfaced with chipstone. Concrete plinths to suit user equipment.
4. Site power brought into pole mounted site DB board. Power route TBC.
5. Signs & indications to be compliant with Telecommunications Health & Safety Policy & Schedule.
6. Fire Protection:
 - 6.1 Site to comply with T4.37, 4.29 & SANS 1186.5.
 - 6.2 Installation of 3 x 9kg DCP portable fire extinguishers.
 - 6.3 Fire extinguishers to be installed.



LEGEND

.....	EARTH
—	POWER
---	RF TRANSMISSION
---	MICROWAVE TRANSMISSION
---	FIBRE OPTIC

APPROVED PROPOSAL
PROPERTY OWNER SIGNATURE: _____ DATE: _____

REFERENCE DRAWINGS

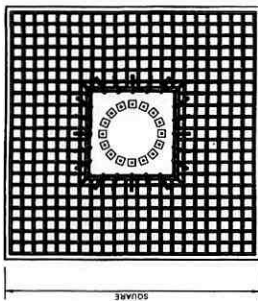
2953-D-001	LOCALITY PLAN MACRO
2953-D-002	LOCALITY PLAN MACRO
2953-D-003	SITE PLAN
2953-D-004	LAND USE PLAN
2953-D-006	ELEVATIONS
2953-D-007	SITE DEVELOPMENT PLAN
2953-D-008	PUBLIC SAFETY LAYOUT
2953-D-009	PUBLIC SAFETY ELEVATIONS

SITE NAME:
HAWSTON SECONDARY SCHOOL

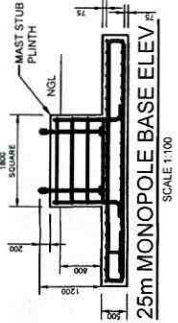
TOP VIEW

DRAWING No:
2953-D-005

REV
E

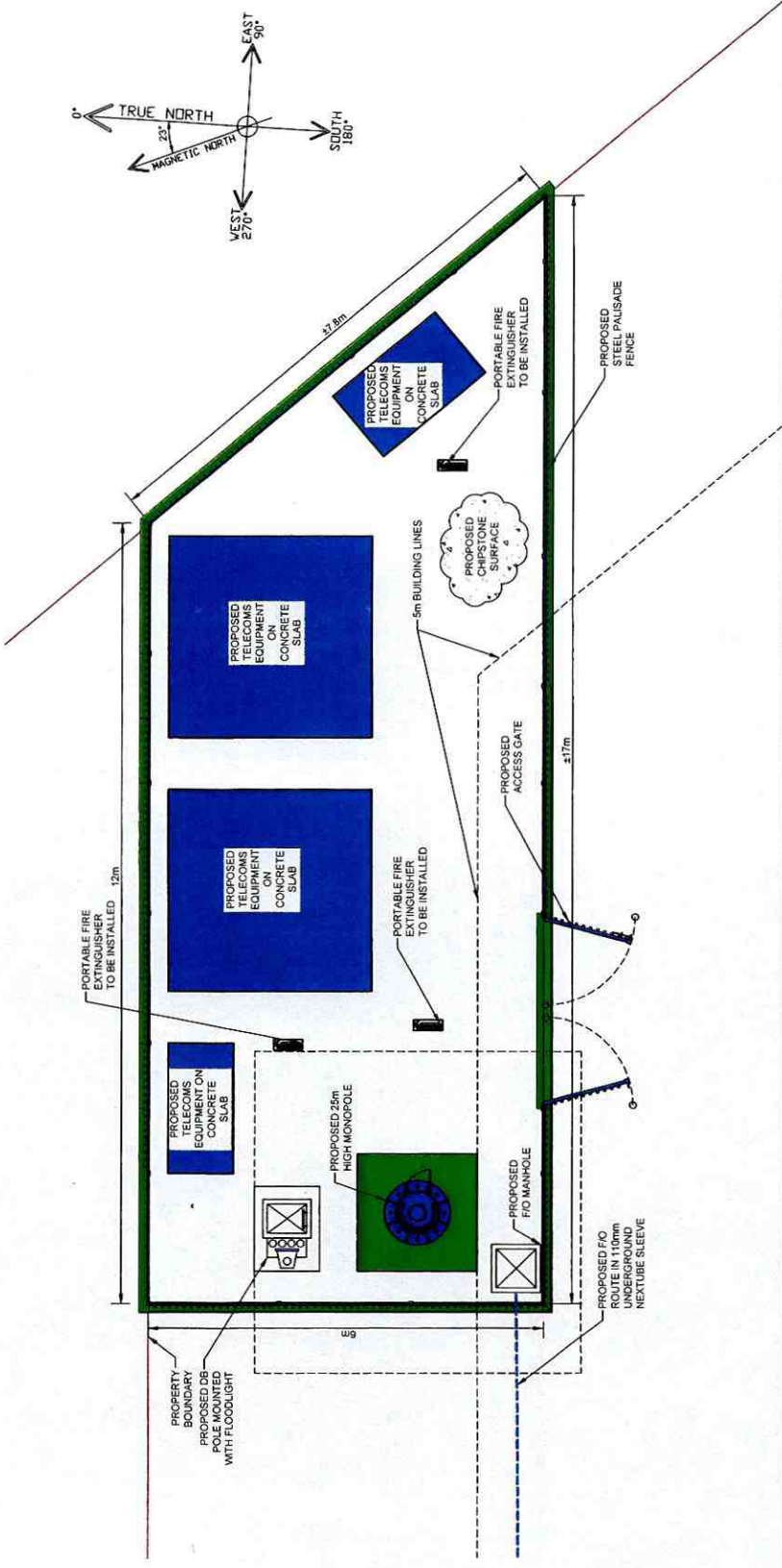


25m MONOPOLE BASE LAYOUT
SCALE 1:100



TYPICAL 25m MONOPOLE CAT2, 0m, 25m, 950mm OFFSET

BENDING MOMENT	1118.7 kNm
WEIGHT	58.7 kN
STRUCTURE MASS	6038.0 kg
APPLIED VERTICAL FORCE (ULS)	0.0 kN
REQUIRED SOIL PRESSURE	128.2 kPa
CONCRETE VOLUME	15.5 m³
REINFORCEMENT MASS	2019.0 kg
REINFORCEMENT STRENGTH	450 MPa
EXCAVATION VOLUME	31.8 m³
BACKFILL VOLUME	17.0 m³



HIGHWAVE
CONSULTANTS

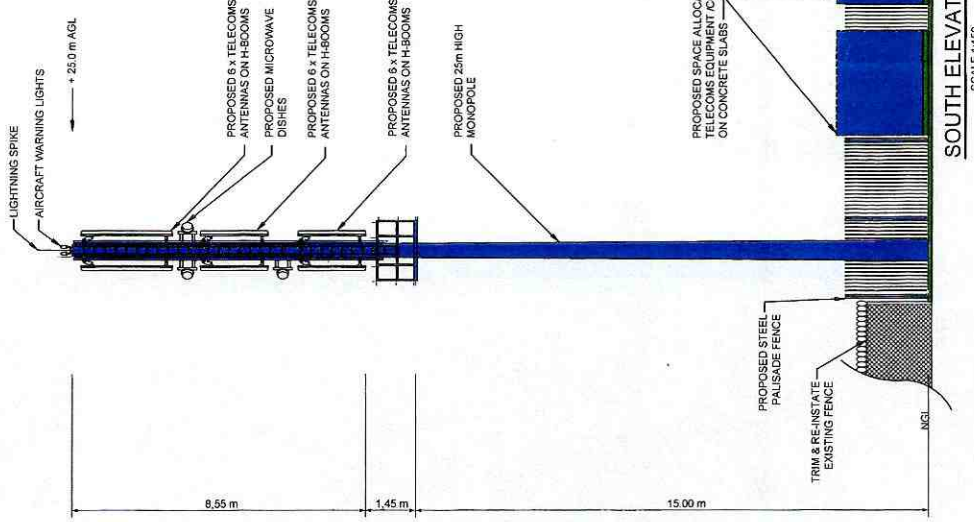
SITE ADDRESS: CHURCH STREET, HAWSTON, WESTERN CAPE

LATITUDE: -34.378257°
LONGITUDE: 18.132338°

REV	BY	DATE	DESCRIPTION	APPRD	CAD FILE No:	SHT SIZE:	SCALE:
E	NJT	19/01/21	DRAWING AMENDMENTS	ACS	13/10/20	A3	1:75
D	ACS	13/10/20	REVISED NOTES	AJM	13/10/20		
C	ACS	06/08/20	MOVED SITE	AJM	13/10/20		
B	ACS	24/06/20	MOVED SITE, REVISED LAYOUT	AJM	2953		
REVISIONS							



ARTIST IMPRESSION OF TELECOMS SITE
NTS



SOUTH ELEVATION
SCALE 1:150



LEGEND

- EARTH
- POWER
- RF TRANSMISSION
- MICROWAVE TRANSMISSION
- FIBRE OPTIC

APPROVED PROPOSAL
PROPERTY OWNER SIGNATURE: _____
DATE: _____

REFERENCE DRAWINGS

2953-D-001	LOCALITY PLAN MACRO
2953-D-003	SITE PLAN
2953-D-003	SITE PLAN
2953-D-004	LAND USE PLAN
2953-D-005	TOP VIEW
2953-D-007	SITE DEVELOPMENT PLAN
2953-D-008	PUBLIC SAFETY LAYOUT
2953-D-009	PUBLIC SAFETY ELEVATIONS

SITE NAME:
HAWSTON
SECONDARY SCHOOL

ELEVATIONS

REV	DATE	DESCRIPTION
E		

DRAWING No: 2953-D-006



SITE ADDRESS: CHURCH STREET,
HAWSTON,
WESTERN CAPE

LATITUDE: -34.378257
LONGITUDE: 19.152358

E	NJT	DATE	DRAWING AMENDMENTS	DRAWN:	ACS	DATE:	13/10/20
D	ACS	13/10/20	REVISED NOTES	CHEK:	AJM	DATE:	13/10/20
C	ACS	06/08/20	MOVED SITE	APPR:	AJM	DATE:	13/10/20
B	ACS	24/06/20	MOVED SITE, REVISED LAYOUT				
REV	BY	DATE	DESCRIPTION	APPRD		MERLIN PROJECT No:	2953
						CAD FILE No:	2953-D-006-D
			REVISIONS			SHT SIZE:	A3
						SCALE:	1:150



LEGEND

- EARTH
- POWER
- RF TRANSMISSION
- MICROWAVE TRANSMISSION
- FIBRE OPTIC

APPROVED PROPOSAL

PROPERTY OWNER SIGNATURE: _____

DATE: _____

REFERENCE DRAWINGS

2953-D-001	LOCALITY PLAN MACRO
2953-D-002	LOCALITY PLAN MICRO
2953-D-003	SITE PLAN
2953-D-004	LAND USE PLAN
2953-D-005	TOP VIEW
2953-D-006	ELEVATIONS
2953-D-007	SITE DEVELOPMENT PLAN
2953-D-009	PUBLIC SAFETY ELEVATIONS

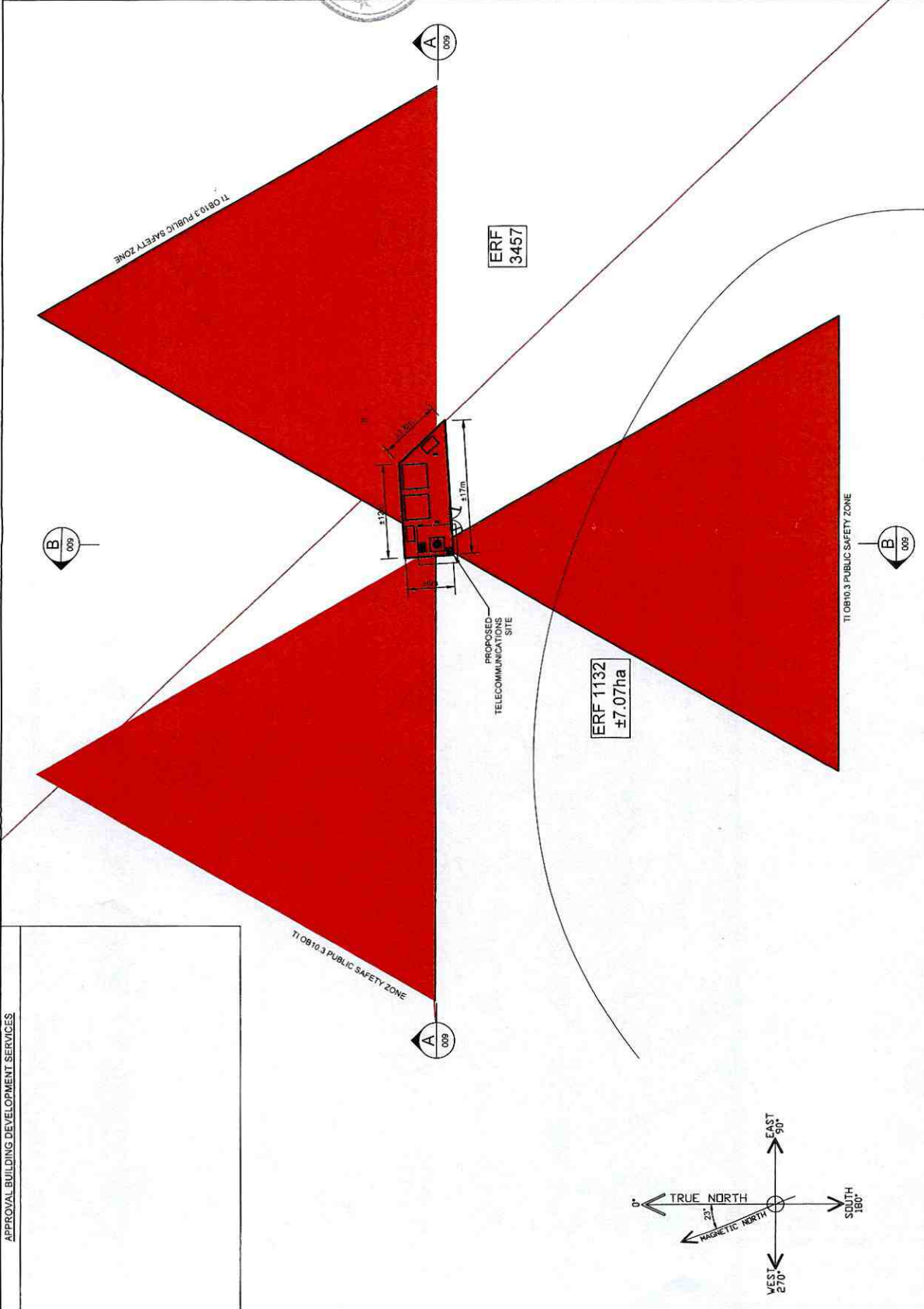
SITE NAME:

**HAWSTON
SECONDARY SCHOOL**

PUBLIC SAFETY LAYOUT

DRAWING No: 2953-D-008

REV: E



HIGH WAVE

CONSULTANTS

SITE ADDRESS: CHURCH STREET,
HAWSTON,
WESTERN CAPE

LATITUDE: -34.378257°
LONGITUDE: 19.132338°

REV	BY	DATE	DESCRIPTION	APPRO	CAD FILE No:	SHT SIZE:	SCALE:
E	NJT	19/01/21	DRAWING AMENDMENTS			A3	1:500
D	ACS	13/10/20	REVISED NOTES	AJM			
C	ACS	06/08/20	MOVED SITE	AJM			
B	ACS	24/06/20	MOVED SITE, REVISED LAYOUT	AJM	2953		
				APPRO	2953-D-008-D		

DATE	DATE	DATE
13/10/20	13/10/20	13/10/20

DATE	DATE
13/10/20	13/10/20