



ServiceStream

# PLANNING REPORT

In support of the Development Application for a new Telstra Mobile Phone Base Station at

## 5 Sunshine Place NAMBEELUP WA 6207

December 2024



Our Reference: NAMBEELUP WEST  
Prepared by: Service Stream  
On behalf of: Amplitel



# Document Quality Control

This Planning Report is prepared by:

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Document Control				
Rev	Date	Status	Prepared by	Reviewed by
1	18/12/2024	Draft	Graeme Lane	Raj Duraiswamy
2	20/12/2024	Final	Graeme Lane	Raj Duraiswamy

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## INTRODUCTION

ServiceStream acts on behalf of Amplitel, who are the owners and managers of the infrastructure component of Telstra Corporation Limited (Telstra) with respect to the deployment of its mobile phone network. ServiceStream has prepared the following submission in support of an Application for Approval for Development of a telecommunications facility to form part of the Telstra mobile telephone network in Western Australia.

Telstra is Australia's leading telecommunications and information services company, with one of the best known brands in the country. Telstra offers a full range of services and competes in all telecommunications markets throughout Australia, and provides 17.7 million retail mobile services, 4.9 million retail fixed voice services and 3.6 million retail fixed broadband services.

This report has been prepared by ServiceStream on behalf of Amplitel for the purpose of supporting the application for Development Approval for the construction of a new mobile base station at Nambeelup.

The proposed facility will consist of a 30m high monopole with antennas mounted to a headframe, an equipment shelter, associated fencing, ancillary equipment, etc.

## NEED FOR THE FACILITY

Telstra regularly undertakes detailed assessments of the performance and coverage of its digital mobile telecommunications network to ensure the system is reliable and achieving the required objectives. Assessments have identified shortcomings in the Nambeelup area and a new base station is required.

The proposal will ensure ongoing and improved Telstra coverage is provided to businesses and residences in Nambeelup.

## SITE SELECTION

Telstra assesses the technical viability of potential sites using computer modelling tools that produce predictions of the coverage that may be expected, with technical input from the radio engineers.

There are several criteria that Telstra uses to assess and select potential site options, including:

- Radiofrequency coverage objectives;
- The potential to co-locate on an existing telecommunications facility, building or structure;
- Obtaining landowners consent for the installation on a private property;
- Visual impact and the potential to obtain relevant town planning approvals;
- Proximity to community sensitive locations and areas of environmental heritage; and
- The cost of developing the site and the provision of utilities (power, access and transmission links).

A search of potential sites was commenced in 2023. A summary of that process follows.

## Greenfield site candidates

A total of four candidates were identified within the search area as being in suitable positions to meet Telstra’s coverage objectives. Of these, four were discounted due to landowner disinterest. The locations of remaining three candidate are identified below.



Figure 2: locations of greenfield site candidates

A summary of the evaluations of each candidate site is detailed below.

Candidate	Location	Summary
A	231 Gull Road Stake Hill WA 6181	Landowner expressed no interest in accommodating a mobile facility.
B	5 Sunshine Place NAMBEELUP WA 6207	The site is in the Special Use – ‘Kennels’ zone. The zone is characterised by large semi-rural properties dedicated to greyhound training and associated uses. The site is adequately separated from neighbouring dwellings and reasonably well screened by mature trees. Prime candidate.
C	Corner alongside Gull Road, Nambeelup WA 6207	Landowner expressed no interest in accommodating a mobile facility.
D	106 Gull Road Nambeelup WA 6207	Landowner expressed no interest in accommodating a mobile facility.



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Following the site selection process, Candidate B, to the rear of 5 Sunshine Place has been selected as the preferred location for the proposed facility.



View of the site, looking east



View from site, looking west toward Guff Road.



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View of the site, looking south from the northern boundary.



## Site Details

### Legal description

Table 1 – Lot details

Lot	DP	Volume	Folio
72	17071	1848	347

Refer **Appendix A**, Certificate of Title.

### Regional context

The subject site is located within the Peel Region of Western Australia, approximately 60 kilometres due south of the Perth CBD and 3.3km west of the town of Nambeelup.

The region is characterised by coastal, farming and native forest areas, estuaries, dams and escarpments. In close proximity to Perth and with a geographic area of over 6,000 square kilometres, Peel consists of five local government areas and has a major regional centre in Mandurah.

### Local context

The local government area is the Shire of Murray. The greater locality extends south to Lakes Road and east to Nambeelup Road. To the west of the site is farming land and the Serpentine River, with the Peel Business Park to the south. Southeast of the site lies the Murrayfield airport, operated by the Royal Aero Club of Western Australia. The locality is characterised by mostly rural land uses – grazing, cropping, etc. Central to the locality is the Special Use zone, characterised by large rural type allotments dedicated to greyhound breeding.

### Subject Lot

The site will be located near the rear boundary of 5 Sunshine Place (Lot 72), a long rectangular shaped allotment of approximately 2 hectares. The lot contains a dwelling at its southern end. Centrally to the lot are large sheds and dog training races dominate the northern end of the land.

### Site

The site is a lease area (10.m x 10m), located in the northeastern corner of Lot 72, abutting the northern boundary. The area is flat and cleared of vegetation. Access to the site will be via existing gates at the northern boundary.

See **Appendix A** – Certificate of Title

Photographs on the following pages show views of the subject site and context



Photo 1 – Aerial photograph shows location of the site

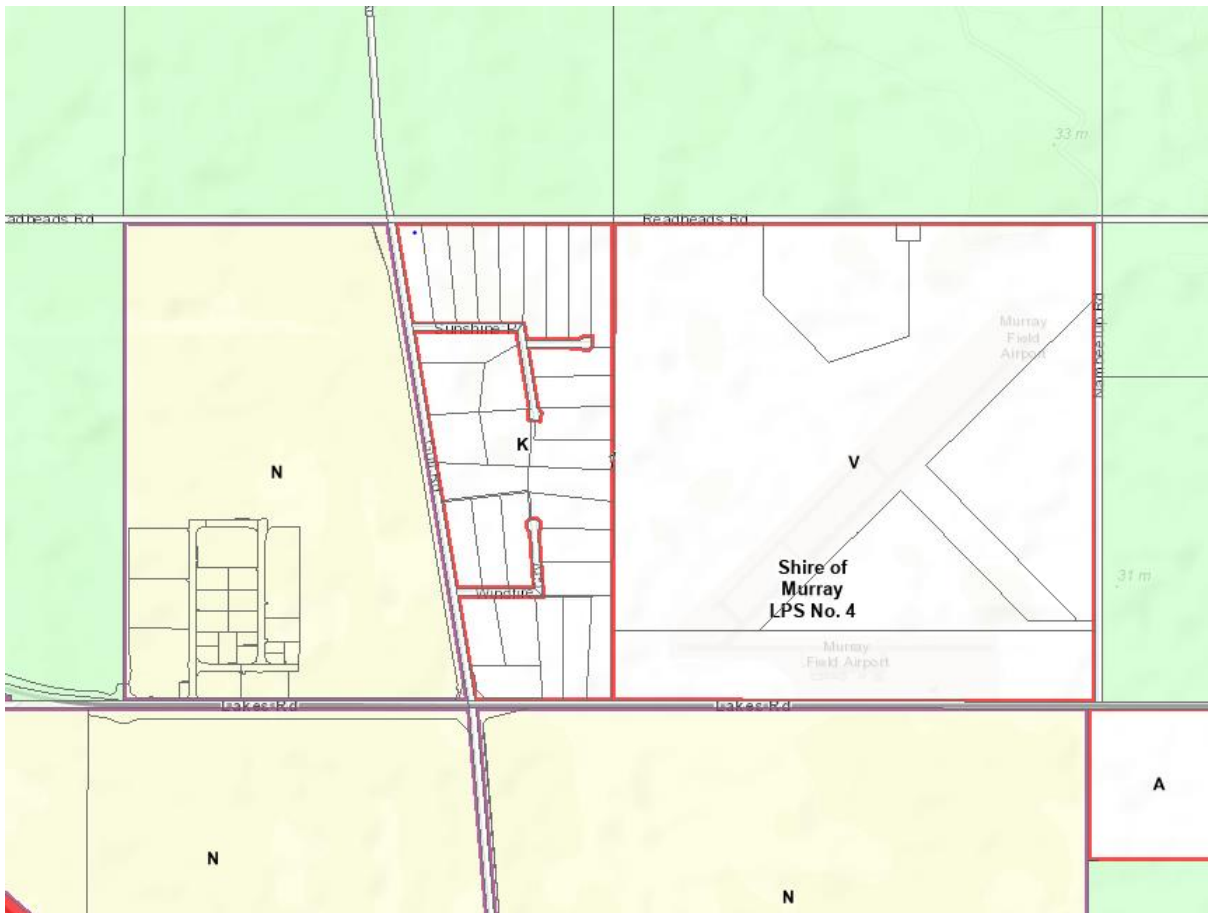


Photo 2 – Zone map



## PROPOSAL

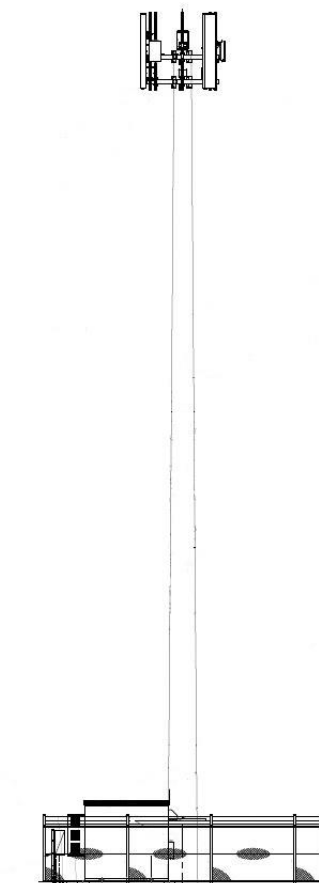
The proposed facility comprises a 30 metre high monopole with a triangular headframe attached at the top of the monopole. Nine (9) panel antennas and associated equipment will be attached to the headframe. A Telstra equipment shelter will be installed adjacent the monopole within a fenced security compound.

The components of the proposed facility are summarised as follows:

**Table 2 – Proposed facility**

Component	Quantity	Dimensions per unit	Height (AGL)
Monopole	1	N/A	30.0m
Panel antennas	6	2533 x 350 x 208mm	30.0m CL
Panel antennas	3	717 x 408 x 189mm	30.0m CL
Overall height		N/A	31.3m
Equipment shelter	1	3000L x 2380W x 2970H	Ground level

Detailed plans and elevations depicting the proposal are attached (refer **Appendix B**).





## Planning Assessment

### TELECOMMUNICATIONS LEGISLATION

The installation and operation of telecommunications infrastructure is regulated by the Telecommunications Act 1997 (Commonwealth), in addition to state planning legislation where applicable.

It is a condition of telecommunications carriers' licences that they must comply with the Telecommunications Act 1997 and the Telecommunications Code of Practice 2018. The Code of Practice further requires carriers to comply with the Communications Alliance Industry Code C564:2020 – Mobile Phone Base Station Deployment (The Code). The Code imposes site specific obligations on carriers, including the requirement to have regard to guidelines established within the Code to take a Precautionary Approach to site selection and infrastructure design. In accordance with the conditions of its licence, Telstra has, in selection of the subject site and design of the proposed infrastructure, applied the Precautionary Approach mandated by Sections 4.1 and 4.2 of the Code.

The proposed infrastructure will operate in compliance with the Australian Communication and Media Authority (ACMA) Electromagnetic Emissions (EME) regulatory arrangements. A summary report of the predicted Radiofrequency EME Levels for the proposed facility has been assessed. This assessment was undertaken in accordance with the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) prediction methodology and report format. The assessment confirms that the proposed installation operating at full power complies with the Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2003.

A copy of the EME Report is attached (refer **Appendix D**).

### SHIRE OF MURRAY LOCAL PLANNING SCHEME 4

#### Zone

The site is zoned 'Special Use'. No specific objectives of the Special Use Zones are detailed in the scheme. The zone table does not include telecommunications facility.

*6.6 Special Use Zone states:*

*No person shall, in respect of any land included in this zone:*

*(a) use any land or any buildings or structures erected thereon; and*

*(b) carry out any development thereon;*

*except in accordance with the Special Provision applicable to the specified land as set out in Schedule V of the Scheme.*



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## Schedule V

Schedule five details acceptable forms of development applicable to areas within the zone.

The subject land is subject to provisions relating to specific land described as:

*Lots 51-80 Sunshine Place, D'Rayne Glade, Windfire Grove and Gull Road, Nambeelup, (formerly Lot 91A corner of Lakes and Gull Roads).*

Special provisions relating to the subject land deal primarily with the use of land for the breeding and training of greyhounds – kennel floor areas, drinking vessels, waste disposal etc.

There are no provisions specific to Telecommunications Facilities in the scheme.

## STATE PLANNING POLICY 2.5 – TELECOMMUNICATION INFRASTRUCTURE

Adequate and reliable telecommunications are essential for all aspects of contemporary community life, from supporting the State's economy to creating and maintaining connected and cohesive social networks. Contact between emergency services and the community increasingly relies on the telecommunications networks.

SPP 2.5 aims to balance the need for effective telecommunications services and effective roll-out of networks, with the community interest in protecting the visual character of local areas.

Clause 4 Policy Objectives of SPP5.2 states:

*The objectives of this policy are to:*

- a) facilitate the provision of telecommunications infrastructure in an efficient and environmentally responsible manner to meet community needs;*
- b) manage the environmental, cultural heritage, visual and social impacts of telecommunications infrastructure;*
- c) ensure that telecommunications infrastructure is included in relevant planning processes as essential infrastructure for business, personal and emergency reasons; and,*
- d) promote a consistent approach in the preparation, assessment and determination of planning decisions for telecommunications infrastructure.*

The key policy measures are outlined in clause 5.1.1, summarised below having regard to the proposal.



SPP 5.2 Policy	Assessment
<p>5.1.1 (ii) - Telecommunications infrastructure should be sited and designed to minimise visual impact and whenever possible:</p> <ul style="list-style-type: none"><li>a) be located where it will not be prominently visible from significant viewing locations such as scenic routes, lookouts and recreation sites;</li><li>b) be located to avoid detracting from a significant view of a heritage item or place, a landmark, a streetscape, vista or a panorama, whether viewed from public or private land;</li><li>c) not be located on sites where environmental, cultural heritage, social and visual landscape values maybe compromised and</li><li>d) display design features, including scale, materials, external colours and finishes that are sympathetic to the surrounding landscape.</li></ul>	<p>ServiceStream has taken steps to select a location that will minimise perceived negative impacts on the visual amenity of the area.</p> <ul style="list-style-type: none"><li>a) The facility will be located in a rural area, and on the edge of the residential / kennels area of the zone. The site is not located along any scenic routes or near lookouts. Views of the facility will be localised.</li><li>b) There are no nearby built heritage or areas with significant local character. The proposal will not detract any of the significant streetscape, vista and/or panorama.</li><li>c) The site is not within a Cultural Heritage area.</li><li>d) The facility has been designed using materials and colours that are neutral and non-reflective. It is expected the non-reflective grey will not create glare impacts and will blend in with the sky. The equipment shelter will be finished in a pale eucalypt colour, sympathetic to adjacent vegetation.</li></ul>
<p>iv) Telecommunications infrastructure should be located where it will facilitate continuous network coverage and/or improved telecommunications services to the community;</p>	<p>The proposed infrastructure will facilitate 4G and 5G mobile phone and wireless data coverage to the local area and along traffic corridors in the wider area to service the local community.</p>
<p>v) Telecommunications infrastructure should be co-located and whenever possible:</p> <ul style="list-style-type: none"><li>a) Cables and lines should be located within an existing underground conduit or duct; and</li><li>b) Overhead lines and towers should be co-located with existing infrastructure and/or within existing infrastructure corridors and/or mounted on existing or proposed buildings</li></ul>	<p>Detailed investigations of the locality revealed no other opportunities to co-locate telecommunications infrastructure which would achieve the coverage objectives for this locality. The new facility will accommodate Telstra equipment and will have capacity for at least one other carrier.</p>



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## **Murrayfield Aerodrome**

The Murrayfield aerodrome is owned and operated by the Royal Aero Club of WA. Servicestream has discussions with the club regarding the proposal. Initial discussions with the club involved a 40m high monopole. The height of the proposed facility has been reduced to 30m.

Servicestream has also sought guidance from CASA, who have advised that typically, obstacles that extend to a height of less than 100m above ground level do not require assessment or notification.

In the interests of good neighbourly relations, ServiceStream, Amplitel and Telstra will give due consideration to any safety measures (strobe lighting, painting, etc) recommended by the Royal Aero Club.

## **EME and Health Compliance**

The proposed infrastructure will comply with the Australian Communication and Media Authority (ACMA) Electromagnetic Emissions (EME) regulatory arrangements.

All Telstra facilities must comply with the prescribed health standards developed by the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA). ARPANSA is the Federal Government agency charged with responsibility for protecting the health and safety of people, and the environment, from all sources of Radio Frequency Electro-Magnetic Emissions (RF EME).

It is Telstra's responsibility to comply with the mandated standard for RF EME set down by ARPANSA, which is the safety standard recommended by the World Health Organisation (WHO). The safety standard works by limiting the network signal to a level low enough to protect all people, and animals/livestock, in all environments, 24 hours a day. The safety limit itself is precautionary, in that it has a significant safety margin built into it.

A summary report of the predicted Radiofrequency EME Levels for the proposed base station has been provided. This assessment was undertaken in accordance with the ARPANSA prediction methodology and report format. The assessment confirms that the proposed installation operating at full power complies with the Standard for Limiting Exposure to Radiofrequency Fields – 100 kHz to 300 GHz (RPS S-1).

Whilst not a matter for planning assessment, it is worthy of note that the maximum levels of electromagnetic energy from the combined facilities at the site is estimated at 12.58% of the public exposure limit, well below the allowable 100%.

A copy of the EME Report pertinent to the subject site is attached at Appendix C.



## CONCLUSION

The proposal presented is permissible under relevant provisions and is consistent with the objectives and provisions of the applicable statutory planning instruments and the principles of orderly and proper planning as outlined in the preceding sections.

In summary, the proposal is justified for the following reasons:

- The proposal will provide essential mobile telecommunications services to the area;
- The proposed development is consistent with the Scheme objectives and provisions of the Local Planning Scheme.
- The proposal is consistent with relevant Western Australian State Planning Policies.
- The proposal is separated from sensitive sites and located in a semi-rural area.
- The development is not anticipated to detrimentally affect the amenity of the area.

Considering the proposal's demonstrated compliance with the applicable statutory planning instruments, we respectfully request approval of the subject application.

We trust that the information contained is sufficient for you to favourably determine the application.

However, should you require any additional information or wish to discuss this matter further then please do not hesitate to contact us via phone on 08 7071 9601 or via email at:

[Graeme.Lane2@servicestream.com.au](mailto:Graeme.Lane2@servicestream.com.au)

### **Attachments:**

Appendix A - Title Documents

Appendix B - Plans

Appendix C - EPCB Act Protected Matters

Appendix D - EME Report

WESTERN



AUSTRALIA

TITLE NUMBER

Volume Folio

**1848 347**

**RECORD OF CERTIFICATE OF TITLE**  
UNDER THE TRANSFER OF LAND ACT 1893

The person described in the first schedule is the registered proprietor of an estate in fee simple in the land described below subject to the reservations, conditions and depth limit contained in the original grant (if a grant issued) and to the limitations, interests, encumbrances and notifications shown in the second schedule.

*BGRoberts*  
REGISTRAR OF TITLES



**LAND DESCRIPTION:**

LOT 72 ON PLAN 17071

**REGISTERED PROPRIETOR:**  
(FIRST SCHEDULE)

COREY ADAM WHITE OF 5 SUNSHINE PLACE NAMBEELUP WA 6207

(T N894005 ) REGISTERED 10/5/2018

**LIMITATIONS, INTERESTS, ENCUMBRANCES AND NOTIFICATIONS:**  
(SECOND SCHEDULE)

1. N894006 MORTGAGE TO AUSTRALIA & NEW ZEALAND BANKING GROUP LTD REGISTERED 10/5/2018.

Warning: A current search of the sketch of the land should be obtained where detail of position, dimensions or area of the lot is required. Lot as described in the land description may be a lot or location.

-----END OF CERTIFICATE OF TITLE-----

**STATEMENTS:**

The statements set out below are not intended to be nor should they be relied on as substitutes for inspection of the land and the relevant documents or for local government, legal, surveying or other professional advice.

SKETCH OF LAND: 1848-347 (72/P17071)  
PREVIOUS TITLE: 1142-13  
PROPERTY STREET ADDRESS: 5 SUNSHINE PL, NAMBEELUP.  
LOCAL GOVERNMENT AUTHORITY: SHIRE OF MURRAY



Application E165314  
Volume 1142 Folio 13

WESTERN



AUSTRALIA

1848 347

# CERTIFICATE OF TITLE

UNDER THE "TRANSFER OF LAND ACT, 1893" AS AMENDED

I certify that the person described in the First Schedule hereto is the registered proprietor of the undermentioned estate in the undermentioned land subject to the easements and encumbrances shown in the Second Schedule hereto.

Dated 2nd November, 1989

REGISTRAR OF TITLES



### ESTATE AND LAND REFERRED TO

Estate in fee simple in portion of Cockburn Sound Location 16 and being Lot **72** on Plan 17071, delineated on the map in the Third Schedule hereto.

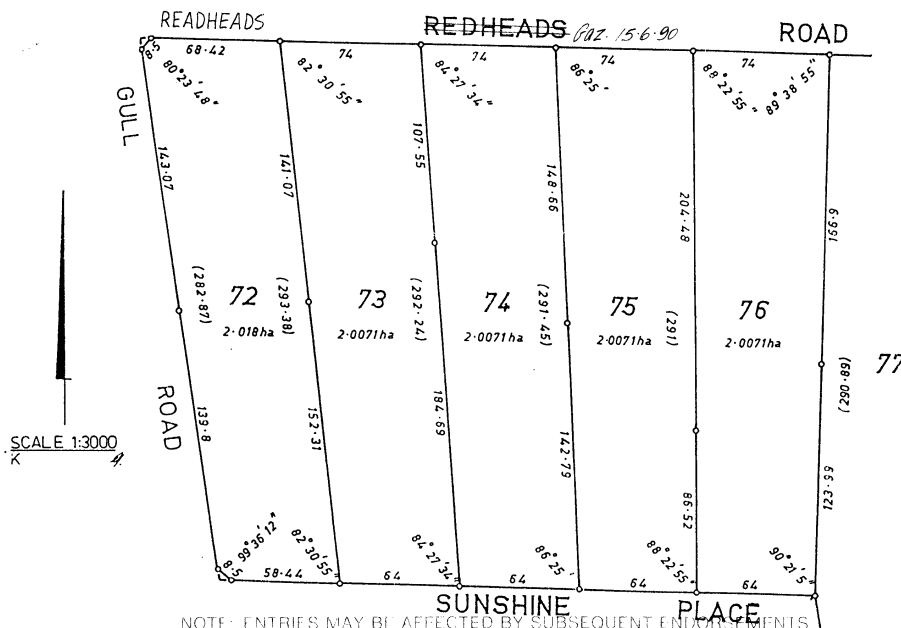
### FIRST SCHEDULE (continued overleaf)

~~Lakes Road Pastoral Company Pty. Ltd. of 14 Prowse Street, West Perth~~

### SECOND SCHEDULE (continued overleaf)

- 1. MORTGAGE D63766 to Pastoral & Realty Territory Pty. Ltd. Registered 9.7.85 at 2.00 o'clock. Discharged E240195 23.11.89
- 2. EXTENSION D379692 of Mortgage D63766. Registered 19.1.87 at 9.31 o'clock. Mortgage Discharged E240195 23.11.89
- 3. MORTGAGE D533104 to The Commissioners of The Rural & Industries Bank of Western Australia. Registered 6.8.87 at 2.06 o'clock. Discharged E240197 23.11.89
- 4. CAVEAT D965105. Lodged 14.12.88 at 11.11 hrs. Withdrawn E240187 23.11.89
- 5. CAVEAT E23164. Lodged 17.2.89 at 13.49 hrs. Withdrawn E240190 23.11.89
- 6. CAVEAT E43654. Lodged 10.3.89 at 13.17 hrs. Withdrawn E240191 23.11.89
- 7. CAVEAT E74431. Lodged 13.4.89 at 11.50 hrs. Withdrawn E240189 23.11.89
- 8. CAVEAT E111958. Lodged 26.5.89 at 12.02 hrs. Withdrawn E240193 23.11.89
- 9. CAVEAT E120484. Lodged 7.6.89 at 14.38 hrs. Withdrawn E240194 23.11.89
- 10. CAVEAT E124645. Lodged 13.6.89 at 10.44 hrs. Withdrawn E240192 23.11.89

### THIRD SCHEDULE



















E67590/3/89-20M-L/1664

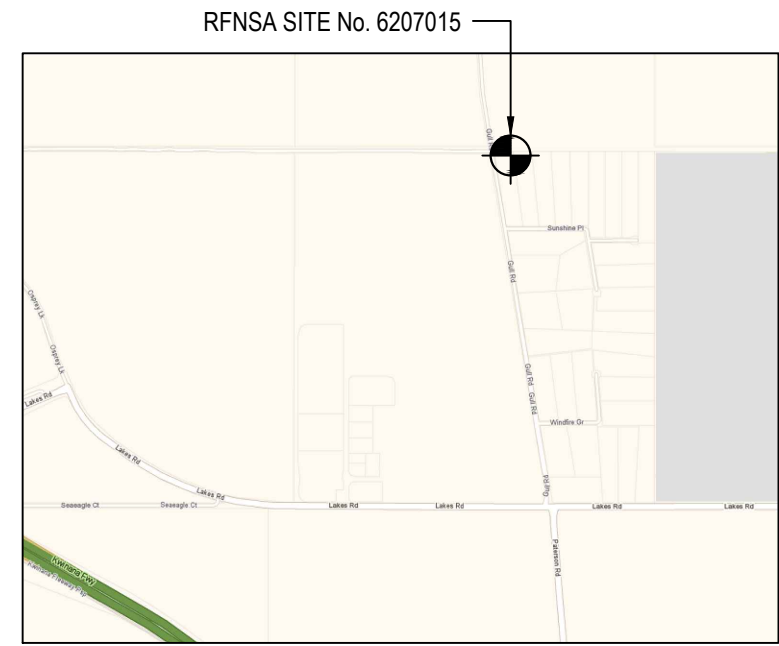
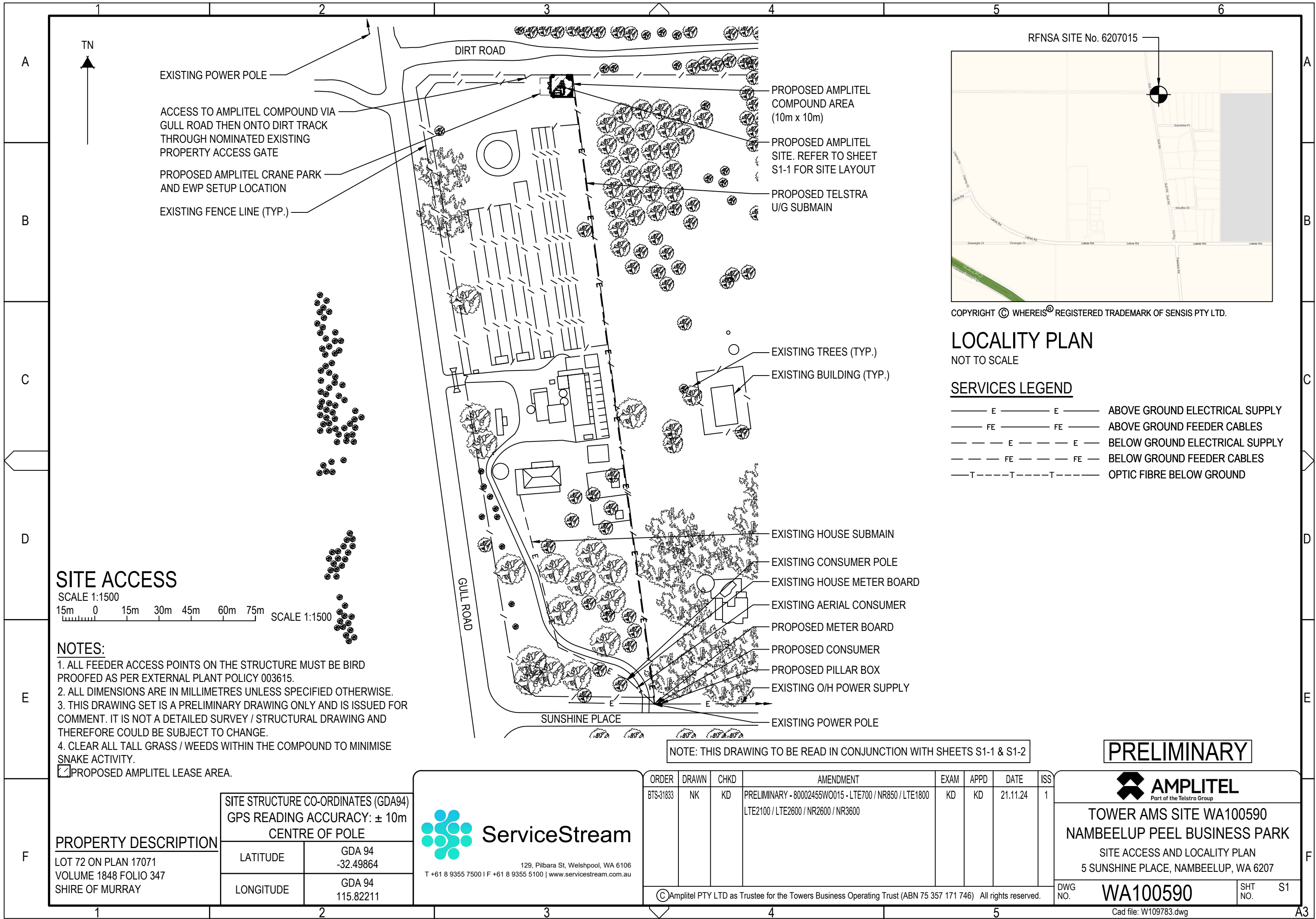
PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

Superseded - Copy for Sketch Only

Page 1 (of 2 pages) 1848 347 FOL.

FIRST SCHEDULE (continued)		NOTE: ENTRIES MAY BE AFFECTED BY SUBSEQUENT ENDORSEMENTS					
REGISTERED PROPRIETOR	REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	TIME	SEAL	CERT. OFFICER
Glen Ogilvie and Valtin Francis Reddan both of Lot 72 Sunshine Place Nambellup Park as tenants in common in equal shares	By Transfer	E696957	6.9.91	15.49			
		F292976	30.8.93	15.24			

SECOND SCHEDULE (continued)		NOTE: ENTRIES MAY BE AFFECTED BY SUBSEQUENT ENDORSEMENTS									
INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	TIME	SEAL	CERT. OFFICER	CANCELLATION	NUMBER	REGISTERED OR LODGED	SEAL	CERT. OFFICER
Mortgage	E696957	to Town & Country WA Building Society	6.9.91	15.49			Discharged	F292974	30.8.93		
Caveat	F166839	Lodged 20.4.93 at 13.09 hrs.					Withdrawn	F292975	30.8.93		
Mortgage	F292977	to Challenge Bank Ltd	30.8.93	15.24			Discharged	H432394	2.5.00		
Mortgage	H432395	to Bank of Western Australia Ltd.	2.5.00	8.04							



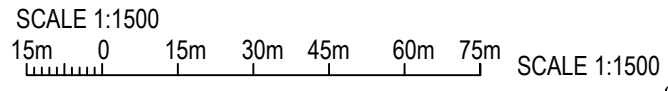
COPYRIGHT © WHEREIS® REGISTERED TRADEMARK OF SENSIS PTY LTD.

**LOCALITY PLAN**  
NOT TO SCALE

**SERVICES LEGEND**

- E — ABOVE GROUND ELECTRICAL SUPPLY
- FE — ABOVE GROUND FEEDER CABLES
- - - E - - - BELOW GROUND ELECTRICAL SUPPLY
- - - FE - - - BELOW GROUND FEEDER CABLES
- - - T - - - OPTIC FIBRE BELOW GROUND

**SITE ACCESS**



**NOTES:**

1. ALL FEEDER ACCESS POINTS ON THE STRUCTURE MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
  2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
  3. THIS DRAWING SET IS A PRELIMINARY DRAWING / STRUCTURAL DRAWING AND THEREFORE COULD BE SUBJECT TO CHANGE.
  4. CLEAR ALL TALL GRASS / WEEDS WITHIN THE COMPOUND TO MINIMISE SNAKE ACTIVITY.
- PROPOSED AMPLITEL LEASE AREA.

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH SHEETS S1-1 & S1-2

**PRELIMINARY**

PROPERTY DESCRIPTION	
LOT 72 ON PLAN 17071 VOLUME 1848 FOLIO 347 SHIRE OF MURRAY	
SITE STRUCTURE CO-ORDINATES (GDA94) GPS READING ACCURACY: ± 10m CENTRE OF POLE	
LATITUDE	GDA 94 -32.49864
LONGITUDE	GDA 94 115.82211

129, Pilbara St, Welshpool, WA 6106  
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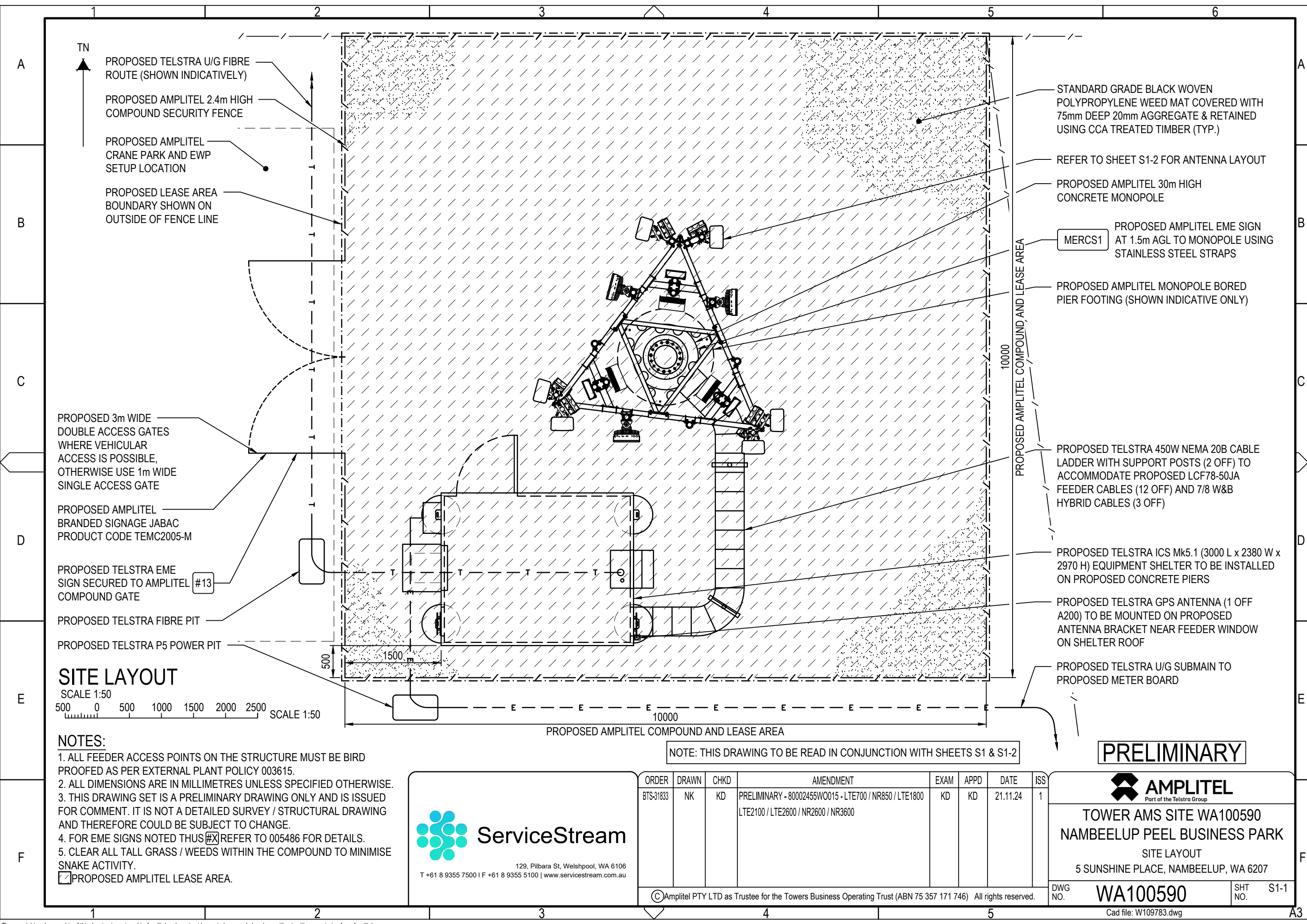
ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
BTS-31833	NK	KD	PRELIMINARY - 80002455W0015 - LTE700 / NR850 / LTE1800 LTE2100 / LTE2600 / NR2600 / NR3600	KD	KD	21.11.24	1

**TOWER AMS SITE WA100590**  
**NAMBEELUP PEEL BUSINESS PARK**  
SITE ACCESS AND LOCALITY PLAN  
5 SUNSHINE PLACE, NAMBEELUP, WA 6207

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DWG NO.	<b>WA100590</b>	SHT NO.	S1
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Cad file: W109783.dwg



**SITE LAYOUT**

SCALE 1:50  
 500 0 500 1000 1500 2000 2500 SCALE 1:50

- NOTES:**
1. ALL FEEDER ACCESS POINTS ON THE STRUCTURE MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
  2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
  3. THIS DRAWING SET IS A PRELIMINARY DRAWING ONLY AND IS ISSUED FOR COMMENT. IT IS NOT A DETAILED SURVEY / STRUCTURAL DRAWING AND THEREFORE COULD BE SUBJECT TO CHANGE.
  4. FOR EME SIGNS NOTED THUS [X] REFER TO 005486 FOR DETAILS.
  5. CLEAR ALL TALL GRASS / WEEDS WITHIN THE COMPOUND TO MINIMISE SNAKE ACTIVITY.
- PROPOSED AMPLITEL LEASE AREA.

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH SHEETS S1 & S1-2

**PRELIMINARY**

**ServiceStream**  
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ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
BTS-31833	NK	KD	PRELIMINARY - 80002455W0015 - LTE700 / NR850 / LTE1800 LTE2100 / LTE2600 / NR2600 / NR3600	KD	KD	21.11.24	1

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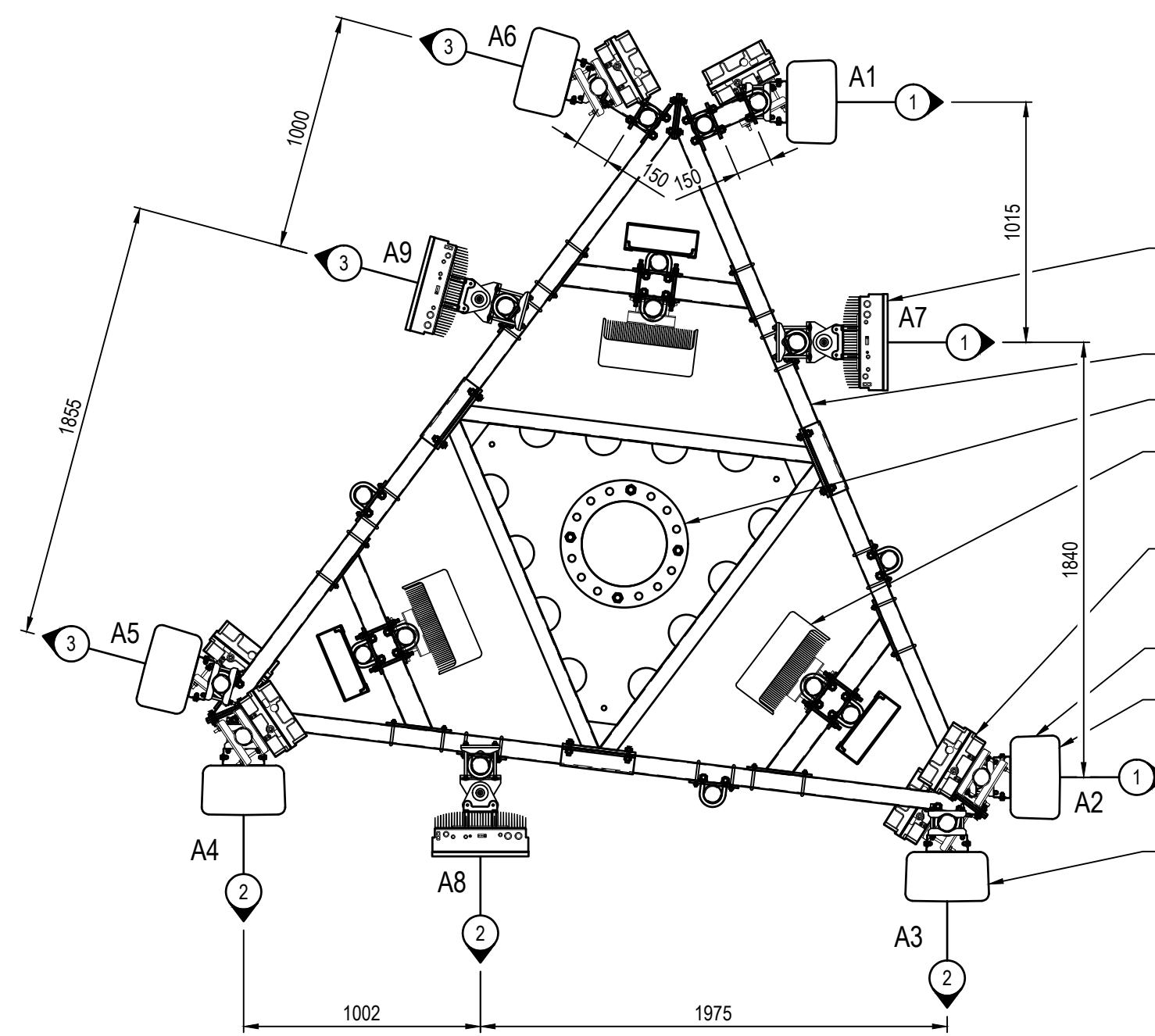
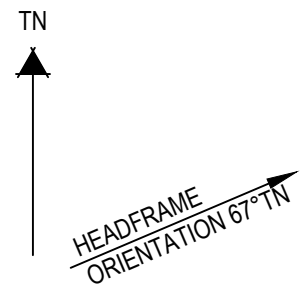
**AMPLITEL**  
 Part of the Telstra Group

**TOWER AMS SITE WA100590**  
**NAMBEELUP PEEL BUSINESS PARK**  
 SITE LAYOUT  
 5 SUNSHINE PLACE, NAMBEELUP, WA 6207

DWG NO. **WA100590** SHT NO. S1-1

**ANTENNA LEGEND**

— (X) — AX PROPOSED TELSTRA PANEL ANTENNA



- PROPOSED TELSTRA NR3600 5G PANEL ANTENNAS (3 OFF A7, A8 & A9) TO BE INSTALLED ON PROPOSED MOUNTS
- PROPOSED TELSTRA TRIANGULAR HEADFRAME
- PROPOSED AMPLITEL 30m HIGH CONCRETE MONOPOLE
- PROPOSED TELSTRA LTE1800 / LTE2100 / LTE2600 / NR2600 RADIO4466 B1 / B3 / B7 (3 OFF) WITH PROPOSED TELSTRA W&B RRU JUNCTION BOXES (3 OFF) TO BE INSTALLED ON PROPOSED MOUNTS
- PROPOSED TELSTRA LTE700 / LTE850 / NR850 TMA KA-1031 (6 OFF) TO BE ATTACHED BEHIND PANEL ANTENNAS (A1, A2, A3, A4, A5 & A6)
- # 2 BEHIND EACH PANEL ANTENNA
- PROPOSED TELSTRA LTE700 / NR850 PANEL ANTENNAS (3 OFF A2, A4 & A6) TO BE INSTALLED ON PROPOSED MOUNTS
- PROPOSED TELSTRA LTE700 / NR850 / LTE1800 / LTE2100 / LTE2600 / NR2600 PANEL ANTENNAS (3 OFF A1, A3 & A5) TO BE INSTALLED ON PROPOSED MOUNTS

**ANTENNA LAYOUT AT EL 30.0m**

SCALE 1:25  
500 0 500 1000 SCALE 1:25

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH SHEETS S1 & S1-1

**PRELIMINARY**

DO NOT SCALE

**NOTES:**

1. ALL FEEDER ACCESS POINTS ON THE STRUCTURE MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
3. THIS DRAWING SET IS A PRELIMINARY DRAWING ONLY AND IS ISSUED FOR COMMENT. IT IS NOT A DETAILED SURVEY / STRUCTURAL DRAWING AND THEREFORE COULD BE SUBJECT TO CHANGE.
4. FOR EME SIGNS NOTED AS #X REFER TO 005486 FOR DETAILS.



**ServiceStream**  
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ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
WA12526.01	NK	KD	PRELIMINARY - 80002455W0015 - LTE700 / NR850 / LTE1800 / LTE2100 / LTE2600 / NR2600 / NR3600	KD	KD	21.11.24	1

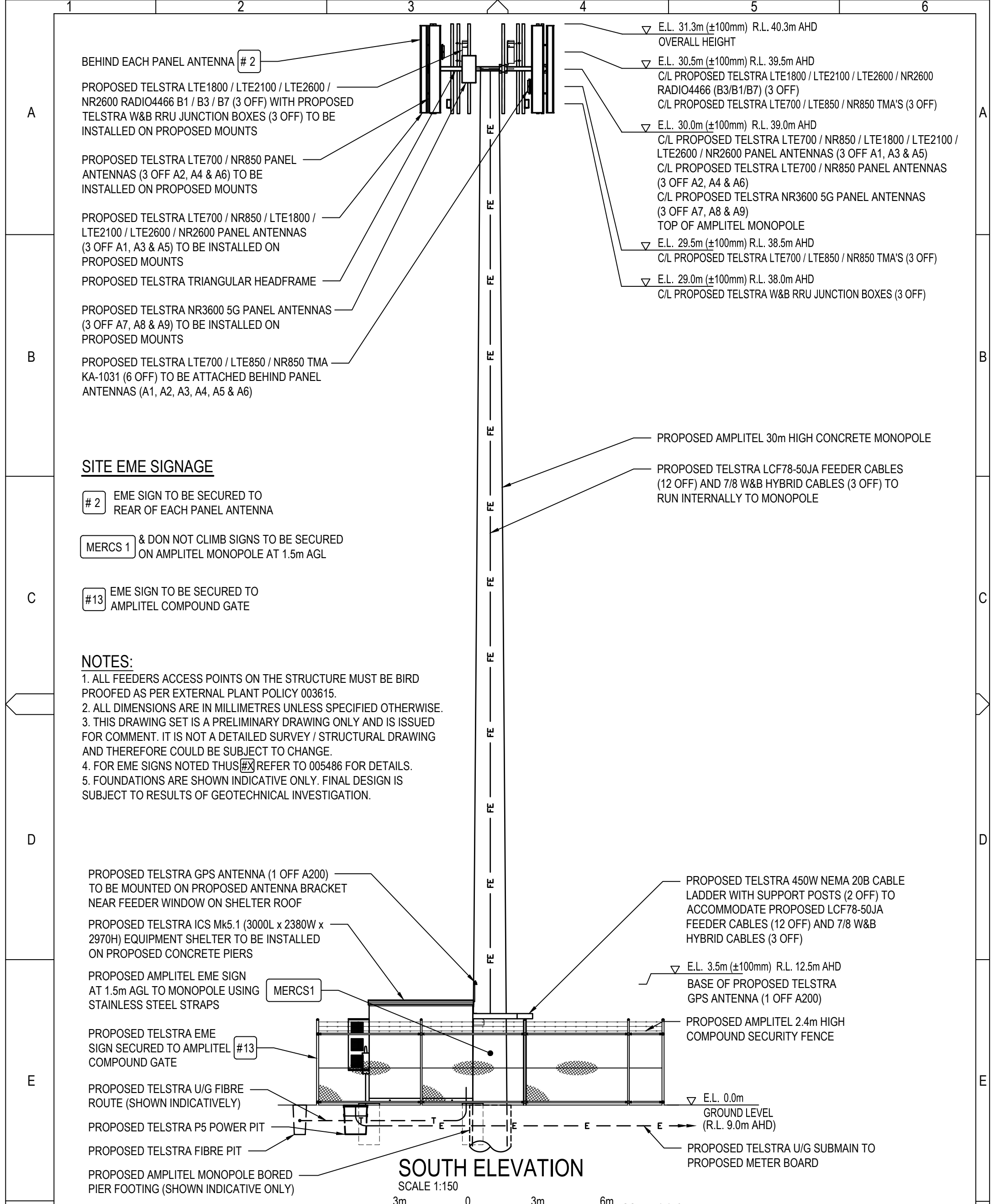
**Telstra**

**MOBILE NETWORK SITE 383380  
NAMBEELUP WEST**

ANTENNA LAYOUT  
5 SUNSHINE PLACE, NAMBEELUP, WA 6207

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DWG NO. **W109783** SHT NO. S1-2



**SOUTH ELEVATION**

SCALE 1:150  
3m 0 3m 6m SCALE 1:150

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH SHEET S3-1

**PRELIMINARY**



ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
BTS-31833	NK	KD	PRELIMINARY - 80002455W0015 - LTE700 / NR850 / LTE1800 LTE2100 / LTE2600 / NR2600 / NR3600	KD	KD	21.11.24	1

**AMPLITEL**  
Part of the Telstra Group

**TOWER AMS SITE WA100590**  
**NAMBEELUP PEEL BUSINESS PARK**  
SOUTH ELEVATION  
5 SUNSHINE PLACE, NAMBEELUP, WA 6207

DWG NO. **WA100590** SHT NO. S3

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Cad file: W109783.dwg

A3V

## TELSTRA MOBILES ANTENNA CONFIGURATION TABLE

ANTENNA No.	ANTENNA TYPE & SIZE H x W x D	ANTENNA ACTION REQUIRED	ANTENNA HEIGHT C/L A.G.L.	PHYSICAL ANTENNA BEARING (°T)	SECTOR NO. & TECHNOLOGY
A1	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	30.0m	90°	S1: LTE700 / NR850
					S1: LTE700 / NR850
					S1: LTE1800 / LTE2100 / LTE2600 / NR2600
					S1: LTE1800 / LTE2100 / LTE2600 / NR2600
A2	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	30.0m	90°	S1: LTE700 / NR850
					S1: LTE700 / NR850
					S1: SPARE
					S1: SPARE
A3	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	30.0m	180°	S2: LTE700 / NR850
					S2: LTE700 / NR850
					S2: LTE1800 / LTE2100 / LTE2600 / NR2600
					S2: LTE1800 / LTE2100 / LTE2600 / NR2600
A4	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	30.0m	180°	S2: LTE700 / NR850
					S2: LTE700 / NR850
					S2: SPARE
					S2: SPARE
A5	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	30.0m	285°	S3: LTE700 / NR850
					S3: LTE700 / NR850
					S3: LTE1800 / LTE2100 / LTE2600 / NR2600
					S3: LTE1800 / LTE2100 / LTE2600 / NR2600
A6	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	30.0m	285°	S3: LTE700 / NR850
					S3: LTE700 / NR850
					S3: SPARE
					S3: SPARE
A7	ERICSSON AIR3258 PANEL 717 x 408 x 189mm	INSTALL	30.0m	90°	S1: NR3600 S1: NR3600
A8	ERICSSON AIR3258 PANEL 717 x 408 x 189mm	INSTALL	30.0m	180°	S2: NR3600 S2: NR3600
A9	ERICSSON AIR3258 PANEL 717 x 408 x 189mm	INSTALL	30.0m	285°	S3: NR3600 S3: NR3600
A200	ERICSSON GPS KRE 101 2395/2 OMNI Ø68 x 96mm	INSTALL	BASE OF GPS 3.5m	0°	TELSTRA GPS ANTENNA

DO NOT SCALE

NOTE: THIS DRAWING TO BE READ IN CONJUNCTION WITH SHEET S3

**PRELIMINARY**



ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
WA12526.01	NK	KD	PRELIMINARY - 80002455W0015 - LTE700 / NR850 / LTE1800 LTE2100 / LTE2600 / NR2600 / NR3600	KD	KD	21.11.24	1

**Telstra**

**MOBILE NETWORK SITE 383380  
NAMBEELUP WEST**

ANTENNA CONFIGURATION TABLE  
5 SUNSHINE PLACE, NAMBEELUP, WA 6207

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DWG NO. **W109783** SHT NO. S3-1

Telstra Networks Wireless program Delivery Template - 017666P02 Issue 11.4 XX XX/2015



Australian Government

Department of Climate Change, Energy,  
the Environment and Water

# EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected. Please see the caveat for interpretation of information provided here.

Report created: 20-Dec-2024

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

[Acknowledgements](#)

# Summary

## Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

<a href="#">World Heritage Properties:</a>	None
<a href="#">National Heritage Places:</a>	None
<a href="#">Wetlands of International Importance (Ramsar)</a>	1
<a href="#">Great Barrier Reef Marine Park:</a>	None
<a href="#">Commonwealth Marine Area:</a>	None
<a href="#">Listed Threatened Ecological Communities:</a>	2
<a href="#">Listed Threatened Species:</a>	26
<a href="#">Listed Migratory Species:</a>	11

## Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <https://www.dcceew.gov.au/parks-heritage/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

<a href="#">Commonwealth Lands:</a>	None
<a href="#">Commonwealth Heritage Places:</a>	None
<a href="#">Listed Marine Species:</a>	14
<a href="#">Whales and Other Cetaceans:</a>	None
<a href="#">Critical Habitats:</a>	None
<a href="#">Commonwealth Reserves Terrestrial:</a>	None
<a href="#">Australian Marine Parks:</a>	None
<a href="#">Habitat Critical to the Survival of Marine Turtles:</a>	None

## Extra Information

This part of the report provides information that may also be relevant to the area you have

<a href="#">State and Territory Reserves:</a>	None
<a href="#">Regional Forest Agreements:</a>	None
<a href="#">Nationally Important Wetlands:</a>	None
<a href="#">EPBC Act Referrals:</a>	5
<a href="#">Key Ecological Features (Marine):</a>	None
<a href="#">Biologically Important Areas:</a>	None
<a href="#">Bioregional Assessments:</a>	None
<a href="#">Geological and Bioregional Assessments:</a>	None

# Details

## Matters of National Environmental Significance

### Wetlands of International Importance (Ramsar Wetlands)

[\[ Resource Information \]](#)

Ramsar Site Name

[Peel-yalgorup system](#)

Proximity

Within 10km of  
Ramsar site

### Listed Threatened Ecological Communities

[\[ Resource Information \]](#)

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Status of Vulnerable, Disallowed and Ineligible are not MNES under the EPBC Act.

Community Name

[Banksia Woodlands of the Swan Coastal Plain ecological community](#)

Threatened Category

Endangered

Presence Text

Community likely to occur within area

[Tuart \(Eucalyptus gomphocephala\) Woodlands and Forests of the Swan Coastal Plain ecological community](#)

Critically Endangered

Community likely to occur within area

### Listed Threatened Species

[\[ Resource Information \]](#)

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.

Number is the current name ID.

Scientific Name

BIRD

[Botaurus poiciloptilus](#)

Australasian Bittern [1001]

Threatened Category

Endangered

Presence Text

Species or species habitat may occur within area

[Calidris acuminata](#)

Sharp-tailed Sandpiper [874]

Vulnerable

Species or species habitat may occur within area

[Calidris canutus](#)

Red Knot, Knot [855]

Vulnerable

Species or species habitat may occur within area

[Calidris ferruginea](#)

Curlew Sandpiper [856]

Critically Endangered

Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#">Calyptorhynchus banksii naso</a> Forest Red-tailed Black-Cockatoo, Karrak [67034]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Leipoa ocellata</a> Malleefowl [934]	Vulnerable	Species or species habitat may occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Rostratula australis</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
<a href="#">Sternula nereis nereis</a> Australian Fairy Tern [82950]	Vulnerable	Species or species habitat may occur within area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area
<a href="#">Zanda baudinii listed as Calyptorhynchus baudinii</a> Baudin's Cockatoo, Baudin's Black- Cockatoo, Long-billed Black-cockatoo [87736]	Endangered	Species or species habitat likely to occur within area
<a href="#">Zanda latirostris listed as Calyptorhynchus latirostris</a> Carnaby's Black Cockatoo, Short-billed Black-cockatoo [87737]	Endangered	Species or species habitat known to occur within area
<b>MAMMAL</b>		
<a href="#">Dasyurus geoffroii</a> Chuditch, Western Quoll [330]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Pseudocheirus occidentalis</a> Western Ringtail Possum, Ngwayir, Womp, Woder, Ngoor, Ngoolangit [25911]	Critically Endangered	Species or species habitat likely to occur within area

**PLANT**

Scientific Name	Threatened Category	Presence Text
<a href="#">Andersonia gracilis</a> Slender Andersonia [14470]	Endangered	Species or species habitat may occur within area
<a href="#">Caladenia huegelii</a> King Spider-orchid, Grand Spider-orchid, Rusty Spider-orchid [7309]	Endangered	Species or species habitat may occur within area
<a href="#">Diuris drummondii</a> Tall Donkey Orchid [4365]	Vulnerable	Species or species habitat known to occur within area
<a href="#">Diuris micrantha</a> Dwarf Bee-orchid [55082]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Diuris purdiei</a> Purdie's Donkey-orchid [12950]	Endangered	Species or species habitat likely to occur within area
<a href="#">Drakaea elastica</a> Glossy-leaved Hammer Orchid, Glossy-leaved Hammer Orchid, Warty Hammer Orchid [16753]	Endangered	Species or species habitat known to occur within area
<a href="#">Drakaea micrantha</a> Dwarf Hammer-orchid [56755]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Morelotia australiensis listed as Tetraria australiensis</a> Southern Tetraria [92784]	Vulnerable	Species or species habitat may occur within area
<a href="#">Synaphea sp. Fairbridge Farm (D.Papenfus 696)</a> Selena's Synaphea [82881]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Synaphea sp. Serpentine (G.R.Brand 103)</a> [86879]	Critically Endangered	Species or species habitat may occur within area
<b>SHARK</b>		
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
<b>Migratory Marine Birds</b>		
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area
<b>Migratory Marine Species</b>		
<a href="#">Pristis pristis</a> Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat may occur within area
<b>Migratory Terrestrial Species</b>		
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area
<b>Migratory Wetlands Species</b>		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat may occur within area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Vulnerable	Species or species habitat may occur within area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area

## Other Matters Protected by the EPBC Act

Listed Marine Species		[ <a href="#">Resource Information</a> ]
Scientific Name	Threatened Category	Presence Text
Bird		
<a href="#">Actitis hypoleucos</a> Common Sandpiper [59309]		Species or species habitat may occur within area
<a href="#">Apus pacificus</a> Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area
<a href="#">Bubulcus ibis as Ardea ibis</a> Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area
<a href="#">Calidris acuminata</a> Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat may occur within area
<a href="#">Calidris canutus</a> Red Knot, Knot [855]	Vulnerable	Species or species habitat may occur within area overfly marine area
<a href="#">Calidris ferruginea</a> Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area overfly marine area

Scientific Name	Threatened Category	Presence Text
<a href="#">Calidris melanotos</a> Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area
<a href="#">Charadrius leschenaultii</a> Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat likely to occur within area
<a href="#">Haliaeetus leucogaster</a> White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
<a href="#">Merops ornatus</a> Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area
<a href="#">Motacilla cinerea</a> Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area
<a href="#">Numenius madagascariensis</a> Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
<a href="#">Rostratula australis as Rostratula benghalensis (sensu lato)</a> Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area
<a href="#">Tringa nebularia</a> Common Greenshank, Greenshank [832]	Endangered	Species or species habitat likely to occur within area overfly marine area

## Extra Information

EPBC Act Referrals			[ Resource Information ]
Title of referral	Reference	Referral Outcome	Assessment Status
Controlled action			
<a href="#">Construction of New Perth Bunbury Highway project</a>	2005/2193	Controlled Action	Post-Approval

Title of referral	Reference	Referral Outcome	Assessment Status
<b>Not controlled action</b>			
<a href="#">Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia</a>	2015/7522	Not Controlled Action	Completed
<a href="#">INDIGO Central Submarine Telecommunications Cable</a>	2017/8127	Not Controlled Action	Completed
<b>Not controlled action (particular manner)</b>			
<a href="#">INDIGO Marine Cable Route Survey (INDIGO)</a>	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval
<a href="#">South West Metropolitan Railway Project</a>	2003/1175	Not Controlled Action (Particular Manner)	Post-Approval

# Caveat

## 1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

## 2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data is available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance on the contents of this report.

## 3 DATA SOURCES

### Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

### Threatened, migratory and marine species

Threatened, migratory and marine species distributions have been discerned through a variety of methods. Where distributions are well known and if time permits, distributions are inferred from either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc.) together with point locations and described habitat; or modelled (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where little information is available for a species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc.).

In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More detailed distribution mapping methods are used to update these distributions when time permits.

## 4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

The following groups have been mapped, but may not cover the complete distribution of the species:

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded breeding sites; and
- seals which have only been mapped for breeding sites near the Australian continent

The breeding sites may be important for the protection of the Commonwealth Marine environment.

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

# Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Department of Land and Resource Management, Northern Territory](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- [-Australian Tropical Herbarium, Cairns](#)
- [-eBird Australia](#)
- [-Australian Government – Australian Antarctic Data Centre](#)
- [-Museum and Art Gallery of the Northern Territory](#)
- [-Australian Government National Environmental Science Program](#)
- [-Australian Institute of Marine Science](#)
- [-Reef Life Survey Australia](#)
- [-American Museum of Natural History](#)
- [-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania](#)
- [-Tasmanian Museum and Art Gallery, Hobart, Tasmania](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact us](#) page.

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Department of Climate Change, Energy, the Environment and Water

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# Environmental EME Report

<b>Location</b>	Rear of 5 Sunshine Place, (accessed via Readheads Rd), NAMBEELUP WA 6207		
<b>Date</b>	02/12/2024	<b>RFNSA No.</b>	6207015

## How does this report work?

This report provides a summary of levels of radiofrequency (RF) electromagnetic energy (EME) around the wireless base station at Rear of 5 Sunshine Place, (accessed via Readheads Rd), NAMBEELUP WA 6207. These levels have been calculated by Radhaz Consulting using methodology developed by the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA).

A document describing how to interpret this report is available at ARPANSA's website:

[A Guide to the Environmental Report.](#)


## A snapshot of calculated EME levels at this site

There are currently no existing radio systems for this site.

The maximum EME level calculated for the **proposed** changes at this site is

# 3.94%

out of 100% of the public exposure limit, 105 m from the location.



EME levels with the proposed changes	
Distance from the site	Percentage of the public exposure limit
0-50 m	2.81%
50-100 m	3.83%
100-200 m	3.94%
200-300 m	1.81%
300-400 m	0.80%
400-500 m	0.42%

For additional information please refer to the EME ARPANSA Report annexure for this site which can be found at <http://www.rfnsa.com.au/6207015>.

## Radio systems at the site

This base station currently has equipment for transmitting the services listed under the existing configuration. The proposal would modify the base station to include all the services listed under the proposed configuration.

Carrier	Existing		Proposed	
	Systems	Configuration	Systems	Configuration
Telstra			4G, 5G	LTE700 (proposed), NR850 (proposed), LTE1800 (proposed), LTE2100 (proposed), NR/LTE2600 (proposed), NR3500 (proposed)

## An in-depth look at calculated EME levels at this site

This table provides calculations of RF EME at different distances from the base station for emissions from existing equipment alone and for emissions from existing equipment and proposed equipment combined. All EME levels are relative to 1.5 m above ground and all distances from the site are in 360° circular bands.

Distance from the site	Existing configuration			Proposed configuration		
	Electric field (V/m)	Power density (mW/m <sup>2</sup> )	Percentage of the public exposure limit	Electric field (V/m)	Power density (mW/m <sup>2</sup> )	Percentage of the public exposure limit
0-50m				10.24	278.23	2.81%
50-100m				11.97	380.11	3.83%
100-200m				12.11	389.01	3.94%
200-300m				7.79	160.89	1.81%
300-400m				5.11	69.17	0.80%
400-500m				3.65	35.35	0.42%

## Calculated EME levels at other areas of interest

This table contains calculations of the maximum EME levels at selected areas of interest, identified through consultation requirements of the [Communications Alliance Ltd Deployment Code C564:2020](#) or other means. Calculations are performed over the indicated height range and include all existing and any proposed radio systems for this site.

### Maximum cumulative EME level for the proposed configuration

Location	Height range	Electric field (V/m)	Power density (mW/m <sup>2</sup> )	Percentage of the public exposure limit
No locations identified				