HUME CITY COUNCIL

Office Use Only

Application No.: Date Lodged: / /

Application for
Planning Permit

Planning Enquiries
Phone: 03 9205 2200
Web: http://www.hume.vic.gov.au

If you need help to complete this form, read How to complete the Application for Planning Permit form.

⚠ Any material submitted with this application, including plans and personal information, will be made available for public viewing, including electronically, and copies may be made for interested parties for the purpose of enabling consideration and review as part of a planning process under the *Planning and Environment Act 1987*. If you have any concerns, please contact Council's planning department.

⚠ **Questions marked with an asterisk (*) are mandatory and must be completed.**

⚠ **If the space provided on the form is insufficient, attach a separate sheet.**

Clear Form

The Land

(1) Address of the land. Complete the Street Address and one of the Formal Land Descriptions.

Street Address *

Unit No.: | St. No.: 1199 | St. Name: Pascoe Vale Road

Suburb/Locality: Broadmeadows | Postcode:3047

Formal Land Description *
Complete either A or B.

⚠ This information can be found on the certificate of title.

A Lot No.: 1 ◯Lodged Plan ◯Title Plan ◉Plan of Subdivision No.: 615214C

OR

B Crown Allotment No.: | Section No.:

Parish/Township Name:

If this application relates to more than one address, please click this button and enter relevant details. Add Address

The Proposal

⚠ You must give full details of your proposal and attach the information required to assess the application. Insufficient or unclear information will delay your application.

(2) **For what use, development or other matter do you require a permit?** *

If you need help about the proposal, read: How to Complete the Application for Planning Permit Form

the proposal involves the installation of a 40.0m telecommunications monopole and associated antennas and ancillary equipment at the existing Telstra exchange facility located at 1199 Pascoe Vale Road.

Provide additional information on the proposal, including: plans and elevations; any information required by the planning scheme, requested by Council or outlined in a Council planning permit checklist; and if required, a description of the likely effect of the proposal.

(3) **Estimated cost of development for which the permit is required** *

Cost $160,000

⚠ You may be required to verify this estimate. Insert '0' if no development is proposed.

If the application is for land within **metropolitan Melbourne** (as defined in section 3 of the *Planning and Environment Act 1987*) and the estimated cost of the development exceeds $1 million (adjusted annually by CPI) the Metropolitan Planning Levy **must** be paid to the State Revenue Office and a current levy certificate **must** be submitted with the application. Visit www.sro.vic.gov.au for information.

Existing Conditions

(4) **Describe how the land is used and developed now** *

eg. vacant, three dwellings, medical centre with two practitioners, licensed restaurant with 80 seats, grazing.

the site is currently used as a Telstra exchange facility and contains a single story brick warehouse type building.

Provide a plan of the existing conditions. Photos are also helpful.

Internal

Need help with the Application?

If you need help to complete this form, read How to complete the Application for Planning Permit form
General information about the planning process is available at www.delwp.vic.gov.au/planning

Contact Council's planning department to discuss the specific requirements for this application and obtain a planning permit checklist. Insufficient or unclear information may delay your application.

(8) **Has there been a pre-application meeting with a Council planning officer?**

◉ No ○ Yes

Checklist

(9) **Have you:**

☑ Filled in the form completely?

☐ Paid or included the application fee?

⚠ Most applications require a fee to be paid. Contact Council to determine the appropriate fee.

☑ Provided all necessary supporting information and documents?

- ☑ A full, current copy of title information for each individual parcel of land forming the subject site
- ☑ A plan of existing conditions.
- ☑ Plans showing the layout and details of the proposal
- ☑ Any information required by the planning scheme, requested by council or outlined in a council planning permit checklist.
- ☑ If required, a description of the likely effect of the proposal (eg traffic, noise, environmental impacts).
- ☑ If applicable, a current Metropolitan Planning Levy certificate (a levy certificate expires 90 days after the day on which it is issued by the State Revenue Office and then cannot be used). Failure to comply means the application is void.

☑ Completed the relevant Council planning permit checklist?

☑ Signed the declaration (section 7)?

Lodgement

Lodge the completed and signed form, the fee payment and all documents with:

Hume City Council
PO Box 119 Dallas VIC 3047
Pascoe Vale Road Broadmeadows VIC 3047

Contact information:

Telephone: 61 03 9205 2200
Email: email@hume.vic.gov.au
DX: 94718
Translation: 03 9205 2200 for connection to Hume Link's multilingual telephone information service

Deliver application in person, by fax, or by post:

Print Form

Make sure you deliver any required supporting information and necessary payment when you deliver this form to the above mentioned address. This is usually your local council but can sometimes be the Minister for Planning or another body.

Save Form:

Save Form To Your Computer

You can save this application form to your computer to complete or review later or email it to others to complete relevant sections.

Internal

Title Information

(5) **Encumbrances on title** *

If you need help about the title, read: How to complete the Application for Planning Permit form

Does the proposal breach, in any way, an encumbrance on title such as a restrictrive covenant, section 173 agreement or other obligation such as an easement or building envelope?

- ○ Yes. (If 'yes' contact Council for advice on how to proceed before continuing with this application.)
- ◉ No
- ○ Not applicable (no such encumbrance applies).

Provide a full, current copy of the title for each individual parcel of land forming the subject site. (The title includes: the covering 'register search statement', the title diagram and the associated title documents, known as 'instruments', eg. restrictive covenants.)

Applicant and Owner Details

(6) Provide details of the applicant and the owner of the land.

Applicant *

The person who wants the permit.

Name:

Title: Mr | First Name: Blake | Surname: Hender

Organisation (if applicable): Ventia

Postal Address: | If it is a P.O. Box, enter the details here:

Unit No.: | St. No.: 20 | St. Name: Corporate Dive

Suburb/Locality: Heatherton | State: VIC | Postcode: 3202

Where the preferred contact person for the application is different from the applicant, provide the details of that person.

Contact person's details * Same as applicant (if so, go to 'contact information') ☑

Name:

Title: Mr | First Name: Blake | Surname: Hender

Organisation (if applicable): Ventia

Postal Address: | If it is a P.O. Box, enter the details here:

Unit No.: | St. No.: 20 | St. Name: Corporate Dive

Suburb/Locality: Heatherton | State: VIC | Postcode: 3202

Please provide at least one contact phone number *

Contact information

Business Phone: | Email:

Mobile Phone: 0427575658 | Fax:

Owner *

The person or organisation who owns the land

Where the owner is different from the applicant, provide the details of that person or organisation.

Name: Same as applicant ☐

Title: | First Name: | Surname:

Organisation (if applicable): Telstra Corporation LTD

Postal Address: | If it is a P.O. Box, enter the details here:

Unit No.: 27 | St. No.: 242 | St. Name: Exhibition Street

Suburb/Locality: Melbourne | State: VIC | Postcode: 3000

Owner's Signature (Optional):

Date: 15 Jul 2022 (day / month / year)

Declaration

(7) **This form must be signed by the applicant** *

⚠ Remember it is against the law to provide false or misleading information, which could result in a heavy fine and cancellation of the permit.

I declare that I am the applicant; and that all the information in this application is true and correct; and the owner (if not myself) has been notified of the permit application.

Signature: Blake Hender

Date: 15 Jul 2022 (day / month / year)

Internal

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The Victorian Government acknowledges the Traditional Owners of Victoria and pays respects to their ongoing connection to their Country, History and Culture. The Victorian Government extends this respect to their Elders, past, present and emerging.

REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

VOLUME 11201 FOLIO 880

Security no : 124093262441K
Produced 22/10/2021 01:26 PM

LAND DESCRIPTION

Lot 1 on Plan of Subdivision 615214C.
PARENT TITLE Volume 09138 Folio 348
Created by instrument PS615214C 13/05/2010

REGISTERED PROPRIETOR

Estate Fee Simple
Sole Proprietor
TELSTRA CORPORATION LTD of LEVEL 27 242 EXHIBITION STREET MELBOURNE VIC 3000
PS615214C 13/05/2010

ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section 24 Subdivision Act 1988 and any other encumbrances shown or entered on the plan set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE PS615214C FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

----------END OF REGISTER SEARCH STATEMENT----------

Additional information: (not part of the Register Search Statement)

Street Address: 1199 PASCOE VALE ROAD BROADMEADOWS VIC 3047

DOCUMENT END

Planning Report

Application for a Planning Permit

Proposed Telecommunications Facility at

1199 Pascoe Vale Road, Broadmeadows VIC 3047

Prepared on behalf of Amplitel by Visionstream Pty Ltd

July 2022

visionstream

TABLE OF CONTENTS

EXECUTIVE SUMMARY

Site and Proposal Details	
Address of Site	1199 PASCOE VALE ROAD BROADMEADOWS 3047
Legal Property Description	Lot 1 PS615214
Local Authority	Hume City Council
Permit Trigger	Clause 34.01-1
Zone and Overlay	COMMERCIAL 1 ZONE (C1Z)
Use	Telecommunications Facility
Owners	Telstra Corporation Limited ABN 051 775 556
Applicant Details	
Applicant	Amplitel Pty Ltd ABN 75 357 171 746 C/- Visionstream Pty Ltd Locked Bag 4001 Moorabbin VIC 3189
Contact Person	Blake Hender Ph. Blake.hender@ventia.com
Our Reference	VT23003.01

1. INTRODUCTION

This report has been prepared by Visionstream on behalf of Amplitel as supporting information to a Planning Permit Application for the installation of a 40.0m high monopole on the southern side of the existing Telstra exchange facility at 1199 Pascoe Vale Road Broadmeadows.

Refer to Appendix 1 for Title details

This report addresses the merits of the development with regards to the provisions of the Hume Planning Scheme.

2. THE PROPOSED DEVELOPMENT

The proposed telecommunications facility at 1199 Pascoe Vale Road, Broadmeadows 3047 is comprised of the following:

- The installation of a new 40.0m high telecommunications monopole;
- The installation of six (6) Argus RVVPX310.11B-T2H panel antennas;
- The Installation of three (3) Ericsson AIR6488 panel antennas;
- The installation of one (1) GPS antenna on the existing brick equipment room;
- The installation of ancillary equipment within the existing brick equipment room

Refer to Plans attached at Appendix 2.

3. PURPOSE OF THE PROPOSAL

The three primary drivers for proposing the development of a new telecommunications facility at 1199 Pascoe Vale Road, Broadmeadows are as follows:

- Installation of the new 4G and 5G Network
  To provide for the installation of the new 4G and 5G network that is currently being rolled out across Australia.
- Capacity relief to existing Telstra sites
  To provide much needed capacity relief for the existing Telstra facilities surrounding Broadmeadows and carry new local cellular traffic in its vicinity. Surrounding sites have been expanded to their 3G maximum capability and the proposed site is required to meet the traffic demand and growth in the area; and
- Reliable NextG Telstra services
  Providing the depth of coverage required to enable reliable NextG Telstra cellular services for local residents, businesses and other mobile users.

5G stands for fifth generation and is the next leap forward in mobile network technology. 5G builds on the foundation of 4G with innovative new technologies, base station upgrades and greater access to spectrum bandwidth. With an increase in the number of mobile phones and internet devices has placed a growing demand on the current network. 5G relieves the congestion on this network by adding lanes in the form of spectrum bandwidth. This increased capacity leads to faster data speeds and better performance-especially in crowded areas.

In 5G areas, people with compatible devices can look forward to:

- Extra coverage- which will boost in-building coverage for 5G services bringing speedy mobile web access to more offices, bedrooms and lifts. And in regional areas, 5G can go further than Telstra's existing frequencies creating better coverage.
- More to share- 5G will double Telstra's bandwidth allowing people to enjoy their favourite content with few slowdowns even in peak hour or in crowded places like shops or on the bus.

3.1 MOBILE TELECOMMUNICATIONS NETWORKS

A mobile telecommunications network is made up of multiple base stations covering a geographic area. They work by sending and receiving low power radio signals from their antennas to mobile phones and other mobile devices such as tablets, wireless dongles etc. Base stations are designed to provide service to the area immediately surrounding the base station which can be up to several kilometres. Depending on the technical objectives of a base station, the physical characteristics of each telecommunications facility; such as its height, number and size of antennas, equipment, cabling etc. will vary.

As a general rule, the higher the antennas at a base station, the greater it's range of coverage and its ability to relieve capacity issues. If this height is compromised, additional facilities, and thus more infrastructure will be required for any given locality. The further a facility is located away from its technically optimum position, the greater the compromise of service. This may result in coverage gaps and require additional or taller base stations to provide adequate service.

Each base station transmits and receives signals to and from mobile devices in the area. As the mobile device user moves around, their device will communicate with the nearest base station/ facility to them at all times. If they cannot pick up a signal, or the nearest base station is congested (already handling the maximum number of phone calls or maximum level of data usage) the user may not be able to place a call, could experience a call "drop out" or a slowing data rate while attempting to download content.

There are three main factors that can cause the above:

- You may be too far away from a facility to receive a signal, or there may be objects blocking the signal from the nearest facility; such as, hills, large trees or even buildings. To ensure optimum service the radio signals transmitted between the facility antennas and mobile devices need to be unimpeded, maintaining a "line-of-sight" between them.
- The facility may be handling as much data download and calls as it can handle – call drop-outs and slower data rates can occur when too many users are connected to a facility at once.
- The depth of coverage (which affects the ability to make calls inside buildings), may be insufficient in some local areas.

The current proposal will form part of Telstra's NextG network solution in the Broadmeadows area and will deliver essential mobile services (voice calling, SMS), as well as live video calling, video-based content including; news, finance and sports highlights, and high-speed wireless internet – wireless broadband. With a coverage footprint of more than 2.1 million square kilometres and covering more than 99% of the Australian population. Telstra's NextG is Australia's largest and fastest national mobile broadband network and as such requires more

network facilities, located closer together to ensure a high-quality signal strength to achieve reliable service and the fastest possible data transfer rates.

4. JUSTIFICATIONS FOR SITE SELECTION

Amplitel carefully examined a range of possible deployment options in the area before concluding that a new telecommunications facility at 1199 Pascoe Vale Road, Broadmeadow would be the most appropriate solution to provide necessary mobile phone coverage to the future growth of the Broadmeadow and surrounding areas.

Accordingly, this section of the report will demonstrate the following:

- Colocation opportunities and existing telecommunications infrastructure within proximity to the proposed installation; and
- An analysis of the locations considered when determining an appropriate location for a new telecommunications installation within the required coverage area.

Colocation Opportunities

The Communications Alliance Ltd. (formerly Australian Communications Industry Forum Ltd. - ACIF) *Industry Code C564:2018 – Mobile Phone Base Station Deployment* promotes the use of existing sites in order to mitigate the effects of facilities on the landscape. It should also be noted that as a first preference, Amplitel attempts to utilise, where possible, any existing infrastructure or co-location opportunities. In this instance, there are no viable co-location options. Therefore, a new tower will need to be constructed.

Below is a map of the existing and proposed telecommunications facilities surrounding the proposed Broadmeadows area. There are three markers identifying existing and proposed telecommunications facilities in the greater area. As shown in the map below there are two alternative telecommunications sites located in the greater search area. These locations are as follows:

1. RFNSA: 3047008 – roof top installation Broadmeadow Town Centre shopping complex
2. RFNSA: 3047001 – 35.0m Steel mono pole
3. RFNSA:3049006 – 35.0m high voltage electricity tower

Of the three existing sites described above in the greater surround, investigation was conducted into the viability for the potential of co-locating Telstra's equipment for the locations. At all locations, it was found that locating Telstra equipment on these facilities would either not reach and maintain its technical coverage objectives for the target service area or would not be structurally supported by either the existing infrastructure or with installations similar to what is being proposed at the subject site.

Figure 1: Location of nearby existing telecommunications facilities *(Source: RFNSA www.rfnsa.com.au)*

Alternative Candidates Considered

Investigations into the installation of a new telecommunications facility in the Broadmeadows area have been ongoing to maintain and improve mobile coverage to this area.

Throughout this investigation, several candidates have been identified as potential site options. However, only one of these has been deemed to be the most appropriate location to not only achieve the required mobile coverage objectives, but also to fulfil the planning, property, design and construction requirements.

Figure 2: Location of Candidates considered *(Source: Google Earth)*

Candidate	Location	Proposal	Comments
Candidate A	1199 Pascoe Vale Road, Broadmeadows Vic 3047	Proposed Greenfield structure	Selected site
Candidate B	1185-1197 Pascoe Vale Road Broadmeadows VIC 3047	Proposed Greenfield structure	The site within the car park was deemed to be inappropriate due to proximity to residential properties and oH&S concerns within the car park.
Candidate C	83 Riggall Street Broadmeadows Vic 3047	Proposed Greenfield structure	Landowner not interested in proposal
Candidate D	85-87 Riggall Street Broadmeadows Vic 3047	Proposed Greenfield structure	Landowner not interested in proposal
Candidate E	91-93 Riggall Street- Broadmeadows Vic 3047	Proposed Greenfield structure	Landowner not interested in proposal

Conclusion

Amplitel has submitted this application for a new telecommunications facility in Broadmeadows after a thorough investigation to improve coverage and capacity in the area and in order to improve mobile communications performance in the area.

Amplitel does not propose the installation of a new telecommunications facility without exhaustively investigating possible alternatives, including co-location on existing infrastructure. In this case, Amplitel concluded that there is no viable existing infrastructure within the targeted search area in Broadmeadows to achieve co-location. Therefore, a new facility at 1199 Pascoe Vale Road Broadmeadows 3047 would be the most appropriate solution

to pursue when all factors including, radio design, site construction, tenure and planning/environmental issues were considered.

It is submitted that the site is easily accessible, technically viable and will result in the least impact on residential amenity and future community sensitive areas, when compared to the alternative candidates investigated. This facility will also provide possible co-location opportunities for other carriers in the future.

As stated above, the site selection process carefully considered environmental and visual constraints, existing and future land use characteristics, the orderly planning of the area and the design of the facility. On balance, it is considered that the location and height of the extended facility ensures optimal service provision to the area.

6. NOMINATED SITE AND SURROUNDING AREA

The proposed telecommunications facility is located within an existing Telstra exchange facility on land zoned Commercial Zone 1.

The site is located on Lot 1 in PS615214 which is an existing Telstra exchange facility located on the southwest corner of the intersection of Riggall Street and Pascoe Vale Road. The immediate area surrounding the site is commercial in nature. The site is adjacent to a KFC fast food retail shop directly south and a Bunnings Warehouse hardware retail shop and large car park to the southeast.

The Riggall Street overpass is directly north of the site and Pascoe Vale Road and a rail line are located immediately to the east.

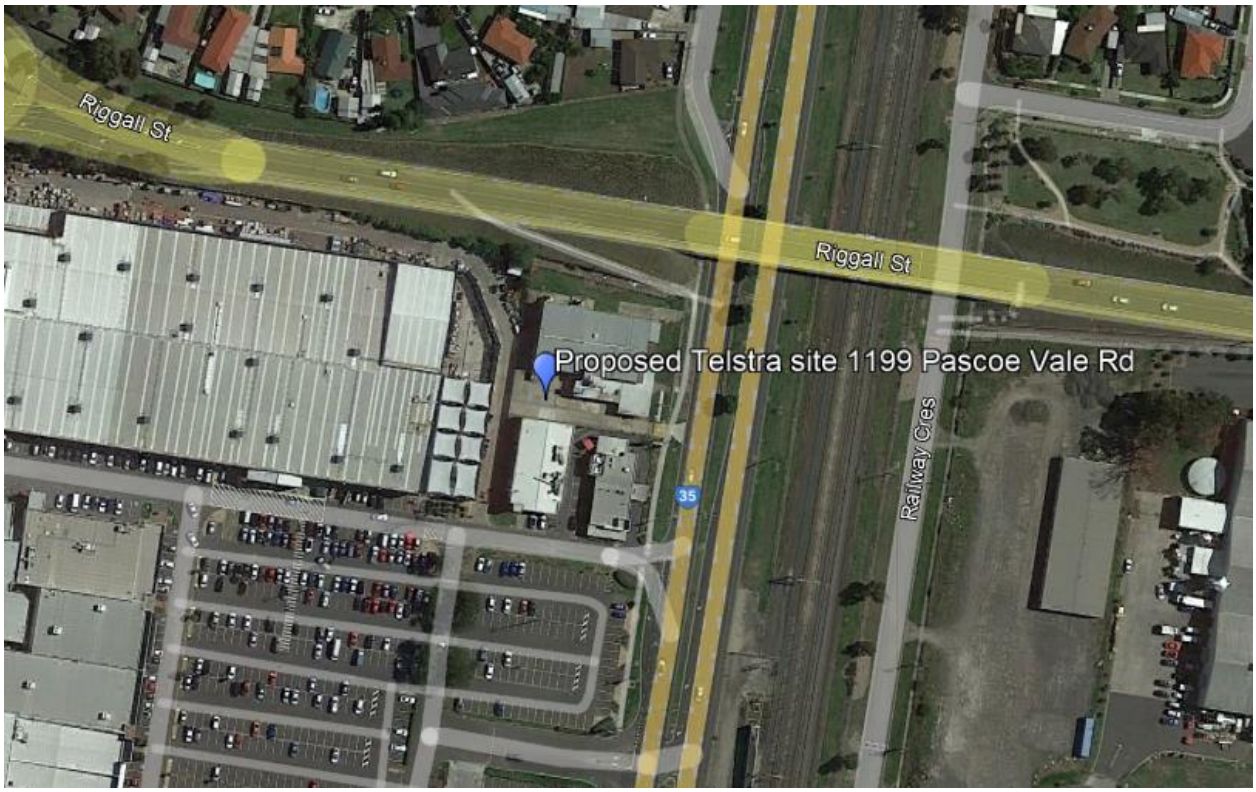

Figure 3:Aerial View of Application Site and Surrounds – *Source: Google Earth*

Figure 4: View of the subject site within the existing Telstra exchange yard looking east towards Bunnings Warehouse – *Source: Visionstream Australia Pty Ltd*

Figure 5: View of the subject site looking west towards Pascoe Vale Road – *Source: Visionstream Australia Pty Ltd*

7. KEY REGULATORY FRAMEWORK

The following information provides a summary of the Federal legislation relevant to telecommunications development proposals.

7.1 Commonwealth Telecommunications Act, 1997

The *Telecommunications Act 1997* (the Act) came into operation on 1st July 1997. The Act provides a system for regulating telecommunications and the activities of carriers and service providers.

Under the Act, telecommunications carriers are no longer exempt from State and Territory planning laws except in three limited instances:

1. There are exemptions for inspection of land, maintenance of facilities, installation of "low impact facilities", subscriber connections and temporary defence facilities. These exemptions are detailed in the *Telecommunications (Low-impact Facilities) Determination 2018*;
2. A limited case-by-case appeals process exists to cover installation of facilities in situations of national significance; and
3. There are some specific powers and immunities from the previous Telecommunications Act 1991.

7.1.1 Telecommunications (Low-impact Facilities) Determination 2018

The Telecommunications (Low-impact Facilities) Determination came into effect on 1st July 1997 and the Amendment to the Determination (No.1 of 2012) came into effect on 23rd November 2013. The latest version is dated 2018.

The Determination contains a list of Telecommunications Facilities that the Commonwealth will continue to regulate. These are facilities that are essential to maintaining telecommunications networks and are unlikely to cause significant community disruption during their installation or operation. These facilities are therefore considered to be 'Low-impact' and do not require planning approval under State or territory laws.

As the proposed development at Queenscliff does not fall under the Determination, it will require approval under State planning legislation.

7.2 Commonwealth Environment Protection and Biodiversity Conservation Act 1999

The *Environment Protection and Biodiversity Conservation Act* commenced on 16th July 2000. It introduces a new role for the Commonwealth Government in the assessment and approval of development proposals where those proposals involve actions that have a significant impact on matters of National Environmental Significance, the environment of Commonwealth owned land and actions carried out by the Commonwealth Government.

The proposal is not of National Environmental Significance, as it will not impact on:

- World Heritage Areas;
- Wetlands protected by International Treaty (The RAMSAR Convention);
- Nationally listed threatened species and communities;
- Nationally listed migratory species;
- All nuclear actions; or
- The environment of Commonwealth Marine area.

Refer to EPBC Act Protected Matters Report at Appendix 3.

7.3 Communications Alliance Ltd. Code C564: 2018 Industry Code – Mobile Phone Base Station Deployment

The new Communications Alliance Ltd. C564:2018 *Industry Code – Mobile Phone Base Station Deployment* (referred to as the Deployment Code) replaced the Australian Communications Industry Forum (ACIF) '*Industry Code - Deployment of Mobile Phone Network Infrastructure'* (more commonly referred to as the ACIF Code) in July 2012. The purpose of the revisions incorporated in the new Deployment Code are to provide certainty and clarity for all parties in the implementation of the Code, for example, with regard to the consultation process with Councils and communities and with regard to providing and updating RF EMR Health and Safety information, reports and signage in keeping with relevant standards.

Similar to the ACIF Code, the new Deployment Code cannot change the existing regulatory regime for telecommunications at local, State or Federal level. However, it supplements the existing obligations on carriers, particularly in relation to community consultation and the consideration of exposure to radio signals, sometimes known as electromagnetic energy (EME or EMR).

The Code imposes mandatory levels of notification and community consultation for sites complying with the Telecommunications (Low-impact Facilities) Determination 2018. It identifies varying levels of notification and/or consultation depending on the type and location of the infrastructure proposed.

The subject proposal, not being designated a 'Low-impact' facility, is not subject to the notification or consultation requirements associated with the Deployment Code. These processes are handled within the relevant State and Local consent procedures.

Nevertheless, the intent of the Code, to ensure Carriers follow a 'precautionary approach' to the siting of infrastructure away from sensitive land uses, has been followed in the selection of this site as demonstrated in the Deployment Code section 4.1 Precautionary Approach Checklist which is attached at Appendix 4.

Included in the section 4.1 Checklist is a statement of how the public's exposure to EME from the site has been minimised. All emissions from the site will be well within the requirements of the relevant Australian Standard. Details of this standard are contained in the following section.

Also attached at Appendix 4 is the Deployment Code section 4.2 Precautionary Approach Checklist which demonstrates how the proposal has been designed in accordance with the Code's 'precautionary approach'.

This site has been selected and designed to comply with the requirements of the Deployment Code in so much as the precautionary approach has been adhered to and, as a result the best design solution has been achieved.

Refer to Precautionary Approach Checklists in Appendix 4.

7.4 EME and Health

Amplitel and Telstra acknowledge some people are genuinely concerned about the possible health effects of electromagnetic energy (EME) from mobile phone base stations and is committed to addressing these concerns responsibly.

Amplitel and Telstra, along with the other mobile phone carriers, must strictly adhere to Commonwealth Legislation and regulations regarding mobile phone facilities and equipment administered by the Australian Communications and Media Authority (ACMA).

In 2003 the ACMA adopted a technical standard for continuous exposure of the general public to RF EME from mobile base stations. The standard, known as the *Radiocommunications (Electromagnetic Radiation – Human Exposure) Standard 2003*, was prepared by the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) and is the same as that recommended by ICNIRP (International Commission for Non-Ionising Radiation Protection), an agency associated with the World Health Organization (WHO). Mobile carriers must comply with the Australian Standard on exposure to EME set by the ACMA.

The Standard operates by placing a limit on the strength of the signal (or RF EME) that Telstra can transmit to and from any network base station. The general public health standard is not based on distance limitations, or the creation of "buffer zones". The environmental standard restricts the signal strength to a level low enough to protect everyone at all times. It has a significant safety margin, or precautionary approach, built into it.

On numerous occasions over the past 10 years the Victorian Civil and Administrative Tribunal has ruled that in regard to EME, that it was obliged to apply the relevant regulatory standards as it finds them - not to pioneer standards of its own. It states that the creation of new standards is a matter for other authorities with special expertise such as the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA).

In order to demonstrate compliance with the standard, ARPANSA created a prediction report using a standard methodology to analyse the maximum potential impact of any new telecommunications facility. Carriers are obliged to undertake this analysis for each new facility and make it publicly available.

Importantly, the ARPANSA-created compliance report demonstrates the maximum signal strength of a proposed facility, assuming that it's handling the maximum number of user's 24-hours a day.

In this way, ARPANSA requires network carriers to demonstrate the greatest possible impact that a new telecommunications facility could have on the environment, to give the community greater peace of mind. In reality, base stations are designed to operate at the lowest possible power level to accommodate only the number of customers using the facility at any one time. This design function is called "adaptive power control" and ensures that the base station operates at minimum, not maximum, power levels at all times.

Using the ARPANSA standard methodology, Telstra is required to complete and make available an EME report which predicts the maximum environmental EME level the facility will emit. Telstra has undertaken a compliance report that predicts the maximum levels of radiofrequency EME from the proposed installation at 1199 Pascoe Vale Road Broadmeadows to be 1.6-%. The maximum environmental EME level predicted from this proposed facility is substantially within the allowable limit under the ARPANSA standard.

Refer to the EME Report attached at Appendix 5.

Amplitel relies on the expert advice of national and international health authorities such as the Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) and the World Health Organisation (WHO) for overall assessments of health and safety impacts.

The WHO advises that all expert reviews on the health effects of exposure to radiofrequency fields have concluded that no adverse health effects have been established from exposure to radiofrequency fields at levels below the international safety guidelines that have been adopted in Australia.

Telstra has strict procedures in place to ensure its mobile phones and base stations comply with these guidelines. Compliance with all applicable EME standards is part of Amplitels's responsible approach to EME and mobile phone technology.

8 PLANNING ASSESSMENT

8.1 Basis of Planning Assessment for Telecommunications Facilities

Of particular importance when assessing planning permit applications for telecommunications facilities are the following Planning Scheme clauses:

- General Provisions: Clause 62 - Uses, buildings, works, subdivisions and demolition not requiring a permit, and
- Particular Provisions: Clause 52.19 - Telecommunications Facility

Clause 62.01-1: 'Uses not requiring a permit' states that:

"Any requirement in this scheme relating to the use of land does not apply to:

- The use of land for a Telecommunications facility if the associated buildings and works meet the requirements of Clause 52.19."

Similarly, Clause 62.02-1: 'Buildings and works not requiring a permit' states as follows:

"Any requirement in this scheme relating to the construction of a building or the construction or carrying out of works does not apply to:

- Buildings and works associated with a telecommunications facility if the requirements of Clause 52.19 are met."

Therefore, once the requirements of Clause 52.19 are met, there is no permit trigger for use or buildings and works under either the zone or overlay which applies to the site. The only permit trigger is under Clause 52.19-2, which states as follows:

"A permit is required to construct a building or construct or carry out works for a Telecommunications facility."

With regard to meeting the requirements of Clause 52.19 (which has caused a degree of confusion) some VCAT cases which have been heard in the aftermath of VC77 coming into effect have dealt with this matter and provide useful guidance. For example, the Tribunal Member had the following to say in Willo Farm Pty Ltd v South Gippsland SC [2011] VCAT 2092 (4th November 2011), a case relating to proposed telecommunications facility in Mickleham:

"Nonetheless I have some doubt that a permit is required for use. A telecommunications facility is a use of land listed in Clause 62.01 of the scheme. In the B1Z, a use listed in Clause 62.01 is a section 1 use provided the use '…meet[s] the requirements of clause 62.01'. Clause 62.01 provides that '[a]ny requirement…relating to the use of land does not apply to…the use of land for a telecommunications facility if the associated buildings and works meet the requirements of clause 52.19'. The drafting of these provisions is inelegant and has a degree of circularity. What are the requirements of clause 52.19? The relevant requirement is that a

permit is required for specified facilities, such as those in this proceeding. Therefore, if a permit is granted, the requirements are met and the use is section 1 in the B1Z. It is unclear if this outcome was intended but, in my opinion, that is the effect of clause 62.01. Clause 62.01 does ***not*** *provide that '[a]ny requirement…relating to the use of land does not apply to the use of land for a facility if the associated buildings and works do not require a permit under clause 52.19-2'. If it did, the effect of the clause would be quite different, and a permit would be required for use."*

Nevertheless, as will be discussed in Section 9.5, the land on which the proposed site is located is in the Commercial Zone 1 and the Schedule to the Commercial Zone 1 (C1Z) applies. A full assessment of the current proposal against the pertinent parts of the Planning Scheme is set out in the following sections.

8.2 State Planning Policy Framework (SPPF)

State Planning Policy Framework (SPPF) sets out the specific policies relating the environmental, social and economic factors. The section of the SPPF most relevant to this proposal is Clause 19.03-4 - Telecommunications. The objective of this is:

- "To facilitate the orderly development, extension and maintenance of telecommunications infrastructure."
- Planning decisions should recognise that telecommunications are an essential utility service and should:
- Facilitate the upgrading and maintenance of telecommunication facilities.
- Ensure that modern telecommunications facilities are widely accessible to business, industry and the community.
- Ensure the communications technology needs of business, domestic, entertainment and community services are met.
- Do not prohibit the use of land for a telecommunications facility in any zone.
- Encourage the continued deployment of broadband telecommunications services that are easily accessible by:
- Increasing and improving access for all sectors of the community to the broadband telecommunications trunk network.
- Supporting access to transport and other public corridors for the deployment of broadband networks in order to encourage infrastructure investment and reduce investor risk.

Planning decisions should reflect a reasonable balance between the provision of important telecommunication services and the need to protect the environment from adverse impacts arising from such development. Development must also reflect consistency in infrastructure design and placement, taking into account, as relevant, the principles contained in *A Code of Practice for Telecommunications facilities in Victoria* for the design and siting of telecommunication facilities.

Apart from Clause 19.03 - 4, there is little specific reference to telecommunications infrastructure provision throughout the SPPF, however, it is clear through Clauses 12, 13, 15 and 19 in particular that the emphasis is placed on the balance between providing modern infrastructure to foster community connectivity, the efficient operation of existing business and attraction of new business, for example, against minimising any environmental impacts on such things as the landscape, water resources and cultural and built heritage.

In general, when considering proposals for telecommunications facilities against the SPPF, the responsible authority must seek a balance between the provision of important

telecommunications services and the need to protect the environment from possible adverse impacts (e.g. visual intrusion) arising from telecommunications infrastructure. There is strong State policy support for improved telecommunications facilities if, when balancing improved telecommunications services with environmental impacts; including for example, visual impact and flood or fire hazard, a particular proposal provides a net community benefit.

8.3 Victorian Aboriginal Heritage Act 2006

The *Aboriginal Heritage Act 2006* commenced operation on 28 May 2007. The commencement of the Act proceeded as soon as practicable after the completion of the Regulations. The regulations are intended to provide for the effective protection and management of Aboriginal cultural heritage in Victoria by - amongst other things- specifying the circumstances in which a cultural heritage management plan (CHMP) is required and prescribing standards for the preparation of CHMPS. Under the regulations, Telecommunications Facilities are not considered "High Impact" activities (Division 5, regulation 43) and therefore are exempt from the requirement to undertake a mandatory CHMP. In certain situations, the power line associated with the facility may not be exempt from the requirement to undertake a CHMP. As of 28th May 2009, the revised Act requires that underground lines (such as power routes) require a CHMP if over 100m in length and located within an area of cultural sensitivity.

Telstra takes its obligations under the act seriously and assesses each site against the Cultural Heritage Sensitivity Maps provided by Aboriginal Affairs Victoria (AAV). If a site is in an area of aboriginal cultural sensitivity, then Telstra will undertake a register check with AAV and consider further investigations to limit any impacts on any known or unknown heritage.

In the case of this proposal at Broadmeadows, the site is not located within an Area of Aboriginal Cultural Sensitivity as defined by the Act.

9 LOCAL PLANNING POLICY FRAMEWORK (LPPF)

9.1 Particular Provision: Clause 52.19 Telecommunications Facility

Pursuant to Clause 52.19-1 of the Broadmeadows Planning Scheme, the proposed facility requires a planning permit (i.e. the permit trigger) based on the below statement and due to the fact that the proposed facility does not meet any of the exceptions specified in Clause 52.19-1.

> *"A permit is required to construct a building or construct or carry out works for a Telecommunications facility."*

The exceptions of most relevant, regular consideration by planning authorities relate to telecommunications facilities which are considered low-impact under the Telecommunication (Low-impact) Facilities Determination 2018 or those facilities described in Section 5 of A Code of Practice for Telecommunications Facilities in Victoria.

The purpose of Clause 52.19 is:

To ensure that telecommunications infrastructure and services are provided in an efficient and cost effective manner to meet community needs.

To facilitate an effective state-wide telecommunications network in a manner consistent with orderly and proper planning.

To encourage the provision of telecommunications facilities with minimal impact on the amenity of the area.
Before deciding on an application, in addition to the decision guidelines of Clause 65, Council must consider as appropriate:

The principles for the design, siting, construction and operation of a Telecommunications facility set out in A Code of Practice for Telecommunications Facilities in Victoria.

In Section 10 below, the proposed telecommunications facility is assessed against the principles for design, siting, construction and operation of a telecommunications facility as set out in Section 4 of *'A Code of Practice for Telecommunications Facilities in Victoria'*.

The effect of the proposal on adjacent land.

As part of the assessment against the principles set out in Section 4 of 'A Code of Practice for Telecommunications Facilities in Victoria' and the decision guidelines of Clause 65 of the Scheme, the effect of the proposed installation on adjacent land is examined in detail. In addition to the assessment against those principles, it is submitted that the current proposed telecommunications facility will not affect the capacity of existing uses on adjacent land to continue with those uses. Nor will the proposed facility impact the possible future development of the surrounding land for a variety of urban growth and non-urban uses. While the surrounding land use is predominantly commercial and residential, the effect on adjacent land of the proposed facility is considered reasonable when considering the proposed location within a commercial zone and screening provided by surrounding commercial buildings and road and rail infrastructure.

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If the Telecommunications facility is located in an Environmental Significance Overlay, a Vegetation Protection Overlay, a Significant Landscape Overlay, a Heritage Overlay, A Design and Development Overlay, or an Erosion Management Overlay, the decision guidelines in those overlays and the schedules to those overlays.

The proposed site of the telecommunications facility is coverd .

The current proposal will meet the purpose of Clause 52.19 in that:

- The proposed telecommunications facility will allow for the efficient provision of telecommunications services to the region in a cost-effective manner to meet growing community needs;
- It meets the design and siting requirements as specified in Section 4 of the Victorian Code of Practice (see Section 9.4 below), ensuring that there is a consistent approach to the development of telecommunications facilities within the region and ensuring there is no unreasonable effect on adjacent land; and
- It provides an improved telecommunications network in an area that is designed to reduce potential impact on surrounding uses. The facility will provide essential mobile services, whilst providing co-location opportunities to other carriers, reducing the overall impact of telecommunications facilities on the amenity of the area.

9.2 A Code of Practice for Telecommunications Facilities in Victoria (the Code)

The Code is an incorporated document in all planning schemes in Victoria and the purpose of the Code is to:

- Set out the circumstances and requirements under which land may be developed for a telecommunications facility without the need for a planning permit.
- Set out the principles for the design, siting, construction and operation of a telecommunications facility which a responsible authority must consider when deciding on an application for a planning permit.

Furthermore, the Code aims to:

- *Ensure that telecommunications infrastructure and services are provided in an efficient and cost-effective manner to meet community needs.*
- *Ensure the application of consistent provisions for telecommunications facilities.*
- *Encourage an effective state-wide telecommunications network in a manner consistent with the economic, environmental and social objectives of planning in Victoria as set out in section 4 of the Planning and Environment Act 1987.*
- *Encourage the provision of telecommunications facilities with minimal impact on the amenity of the area.*

Where the requirements of Section 5 of the Code are met, telecommunications facilities do not require a planning permit under the applicable planning scheme. The requirements of Section's 4 and 5 of the Code do not apply to a telecommunications facility already exempt under the Telecommunications Act or the Low Impact Determination 2018 (both Federal legislation).

Section 4 of the Code sets out principles for the design, siting, construction and operation of telecommunications facilities. The following four principles must be applied where relevant to the design, siting, construction and operation of any telecommunications facility that is not exempt under Commonwealth legislation.

Principle 1: A telecommunications facility should be sited to minimise visual impact.

Principle 2: Telecommunications facilities should be co-located wherever practical.

Principle 3: Health standards for exposure to radio emissions will be met.

Principle 4: Disturbance and risk relating to siting and construction be minimised.

How the proposed telecommunication facility will meet the four principles identified in the Code is addressed below:

A Telecommunications facility should be sited to minimise visual impact.

- The proposal is for the installation of a 40.0m high mono pole within the existing Telstra exchange facility. The site is located within a Commercial 1 Zone and will not impact on the operation of the adjoining businesses within the zone. The site is approximately 100.0m south of residential properties situated on Tatura Crescent. The proposal will be largely screened from these properties by the Riggal Street rail over pass and the existing Bunnings structure and the Telstra Exchange structure on the proposed site.
- This proposed monopole has been strategically sited and designed to ensure that the visual impact of the facility is minimised as far as practical. The proposed monopole has been designed to be the smallest structure possible to meet Telstra's technical coverage objectives for the area. The proposed monopole and equipment will be similar in colour scheme to the surrounding structures, to further integrate the monopole into the area.

Telecommunications facilities should be co-located wherever practical

- Amplitel has investigated other facilities in the area for the potential co-location of Telstra equipment. As Discussed in Section 5, there were other co-location options investigated

in the area. However, those facilities were insufficient both structurally and location-wise to accommodate Telstra's coverage requirements.

Health Standards for exposure to radio emissions will be met

- The proposed telecommunications facility has been designed and will be installed to ensure that the maximum human exposure levels to radio frequency emissions comply with Radiation Protection Standard- Maximum Exposure Levels to Radiofrequency Fields- 3kHz to 300GHz, ARPANSA, May 2002.

Disturbance and risk relating to siting and construction should be minimised

- Construction activity and site location should comply with State environment protection policies and best practice environmental management guidelines.
- The construction activity and site location will comply with state environmental protection policies and best practice environmental management guidelines at the construction stage.
- The site already comprises a modified environment. Any further disturbance to the existing property will be minimal and limited to the compound area and access route following completion of the construction activities.
- Construction activities on site will be limited to installation and intermittent maintenance. There will be limited excavation and formwork required to install the pole and equipment cabinet. Once the facility is operational and integrated with the Telstra network, the facility requires minimal maintenance, with maintenance inspections typically carried out every six months.

9.3 Zoning

The subject land is located within the Commercial 1 Zone (C1Z) under the Broadmeadows Planning Scheme. The purpose of the Commercial 1 Zone is:

- *To implement the Municipal Planning Strategy and the Planning Policy Framework.*
- *To create vibrant mixed use commercial centres for retail, office, business, entertainment and community uses.*
- *To provide for residential uses at densities complementary to the role and scale of the commercial centre.*

The use of land for a Telecommunications facility typically falls under the uses listed in Clause 62.01:

"***Clause 62.01 Uses not requiring a permit*** *- The use of land for a Telecommunications facility if the associated buildings and works meet the requirements of Clause 52.19*"

Any requirement in this scheme relating to the use of land does not apply to: *The use of land for a Telecommunications facility if the associated buildings and works meet the requirements of Clause 52.19*". However, the proposed building and works do not technically meet the requirements of Clause 52.19, as the development of a 40m telecommunications monopole does not fall within any of the permit exemption categories listed in Clause 52.19-2 - Permit requirement.

Accordingly, a planning permit is required for the use of land for a 40m telecommunications monopole and associated equipment.

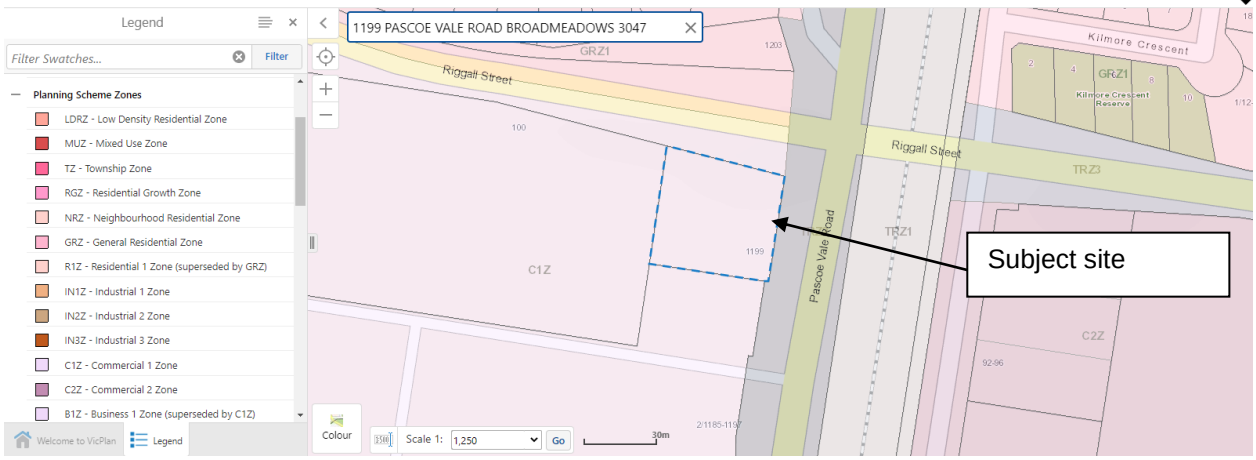

Figure 6: Subject site zone *Source:* https://mapshare.vic.gov.au/vicplan/

The proposed installation is situated within the yard of an existing telecommunications facility and will benefit business and users of the commercial zone through improved access to high quality Telstra mobile and data coverage.

The surrounding landscape and existing structures will screen much of the proposed infrastructure from the closest residential properties to the north of the site facing on to Tatura Crescent minimising the visual impact of the proposal on the surrounding area.

For these reasons, the proposed works are considered to be consistent with the objectives of the Commercial 1 Zone.

9.4 Overlays

There are no overlays identified at the subject site which would be applicable to the proposal.

10 GENERAL PROVISIONS: CLAUSE 65 DECISION GUIDELINES

It is submitted that the proposed telecommunications facility will produce acceptable outcomes in terms of the decision guidelines of this clause. The table below provides an assessment against the decision guidelines of Clause 65.01 which must be considered, as appropriate, by the responsible authority.

Decision Guidelines	Assessment of Current Proposal
The matters set out in Section 60 of the Act.	It is submitted that the current proposal accords with the Hume Planning Scheme and any relevant codes, policy documents and guidelines and will have a positive social and economic effect on the Broadmeadows area and therefore, accords with Section 60 of the Act.
Any significant effects the environment, including the contamination of land, may have on the use or development.	The site is an existing Telstra facility and is considered suitable for the proposed development and the proposed works are not anticipated to have any effect on the surrounding environment or to be effected by the Environment.
The Municipal Planning Strategy and the Planning Policy Framework.	It is submitted that the current proposals accord with the SPPF and LPPF as detailed in Section 8 above. It is considered that there is strong State and local policy support for improved telecommunications facilities when balancing improved telecommunications services with environmental, including visual impact, this proposal provides a net community benefit.
The purpose of the zone, overlay or other Provision.	The current proposal accords with the purposes of Clause 52.19: Telecommunications Facilities, contained within the Particular Provisions of the Scheme.
Any matter required to be considered in the zone, overlay or other provision.	The current proposal accords with the purposes of Commercial 1 Zone, relevant overlays and other provisions of the Scheme.
The orderly planning of the area.	The proposed telecommunications facility will have minimal off-site impacts and will not negatively affect the orderly planning of the area for other land uses. The proposal entails the installation of a new facility, which will be located in an existing Telstra facility within a commercial zone. It is understood the proposal will not negatively impact the orderly planning of the area. Furthermore, the proposal will facilitate the orderly development, extension and maintenance of telecommunications infrastructure for the area.

The effect on the environment, human health and amenity of the area.	The effect on the amenity of the area has been assessed against the principles in Section 4 of the Code (see Section 9.3). Notwithstanding the above, it is submitted that the current proposal's overall effect on the amenity of the area is well mitigated by the design of the facility and the location of the site in a commercial zone suitably separated from residential properties and community points of interest.
The proximity of the land to any public land.	The subject site is not located on public land, the closest public recreation area is the John Ilhan Memorial Reserve approximately 600.0m northwest of the subject site.
Factors likely to cause or contribute to land degradation, salinity or reduce water quality.	There are no factors relating to the current application which will cause or contribute to land degradation, salinity or reduce water quality.
Whether the proposed development is designed to maintain or improve the quality of stormwater within and exiting the site.	The proposed development will not affect the quality of stormwater in and out of the site. However, should Council deem the area to be prone to flooding or affect stormwater, the relevant referrals will be undertaken, and appropriate conditions included should a permit be issued.
The extent of character of native vegetation and the likelihood of its destruction.	The proposal does not require the removal of any native vegetation.
Whether native vegetation is to be or can be protected, planted or allowed to regenerate.	The proposal does not require the removal of native vegetation.
The degree of flood, erosion or fire hazard associated with the location of the land and the use, development or management of the land so as to minimise any such hazard.	Due to the very minor nature of the works to be undertaken it is not expected that any degree of erosion will arise with this proposal. However, should Council deem the area to be prone to flooding, erosion or the use or development deemed a potential fire hazard, the relevant referrals will be undertaken and appropriate conditions included should a permit be issued.
The adequacy of loading and unloading facilities and any associated amenity, traffic flow and road safety impacts.	The existing site Telstra facility has sufficient space and facilities to allow for any loading and unloading of vehicles during the construction and the operation of the proposal. The existing access will allow vehicles to ingress and egress the site with out impacting the flow of traffic and road safety on surrounding roads
The impact the use or development will have on the current and future development and operation of the transport system.	The proposed development is located entirely within an existing Telstra facility once operational the proposal will not increase the number of employees working at the site and will only require additional personal to be at the site once or twice per year for maintenance purposes. It can be concluded the site will not have any impact on the current and future development and operation of transport systems.

11 CONCLUSION

This application seeks to facilitate the development of a telecommunications infrastructure within the Broadmeadows area. It achieves this with a proposed Telstra 40m monopole, as well as the installation of antennas and ancillary equipment.

There is strong State policy support for telecommunications facilities if, when balancing improved telecommunications services with environmental impacts; including for example, visual impact and flood or fire hazard, this particular proposal provides a net community benefit.

The proposed works provide the community with reliable 4G and 5G access which in turn supports the residential growth areas of Broadmeadows area, commercial and tourist industries in the region and forms part of a wider plan to ensure reliable and accessible coverage during emergency situations.

The proposed telecommunications facility at 1199 Pascoe Vale Road, Broadmeadows will form an integral component in Telstra's national 4GX and 5G network. This 4G and 5G service brings higher speeds and extra coverage to a range of communities across the nation. These services will deliver higher typical mobile speeds on compatible devices, allowing more Australians to experience more reliable connections and ultra-fast mobile internet.

The proposal will ensure that customers in Broadmeadows and its surrounds will have access to the best possible mobile phone and mobile broadband service.

Telstra, together with Visionstream have undertaken an assessment of the relevant matters as required by the *Telecommunications Act 1997* and the *Hume Planning Scheme*. The proposal is considered appropriate in light of the relevant legislative, environmental, technical, radio coverage and public safety requirements.

The proposed facility is considered appropriate for the subject site for the following reasons:

- The proposal achieves the installation of Telstra's infrastructure, serving the Broadmeadows community via the extension of an existing monopole;
- The proposal is consistent with the relevant provisions of the Hume Planning Scheme;
- The facility will ensure the continued provision of high-quality mobile phone coverage in the commercial area and surrounding residential areas,
- Additionally, the existing Telstra sites in the surrounding localities will also be better able to manage their share of local cellular traffic in the wider region. Surrounding sites have been expanded to their maximum capability and this additional site is required to meet the traffic demand and mobile data usage growth in the Broadmeadows area;
- The proposal will maintain and improve Telstra's communications services to the area, including voice calls, video calling and Wireless Broadband – a high speed wireless internet service via the 4G and 5G phone network;
- The proposed installation could be utilised by other carriers in the future; and
- Emissions from the proposed facility will be significantly below the Australian Radiation Protection and Nuclear Safety Agency standards adopted by the Australian Communications and Media Authority.

The assessment of the proposal demonstrates that the proposal represents sound and proper town planning, and it is respectively requested that permission is granted for this Permit application.

Appendix 1 - Title

Appendix 2 - Site Plans

Appendix 3 - EPBC Act Protected Matters Report

Appendix 4 - Section 4.1 and 4.2 Precautionary Approach Checklists

Appendix 5 - EME Report

Australian Government
Department of Agriculture, Water and the Environment

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: 26-May-2022

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.

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	4
Listed Threatened Species:	34
Listed Migratory Species:	13

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

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 http://www.environment.gov.au/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.

Commonwealth Lands:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	19
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	None
Regional Forest Agreements:	None
Nationally Important Wetlands:	None
EPBC Act Referrals:	11
Key Ecological Features (Marine):	None
Biologically Important Areas:	None
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

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	Threatened Category	Presence Text
Grassy Eucalypt Woodland of the Victorian Volcanic Plain	Critically Endangered	Community likely to occur within area
Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia	Endangered	Community may occur within area
Natural Temperate Grassland of the Victorian Volcanic Plain	Critically Endangered	Community likely to occur within area
White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland	Critically Endangered	Community may 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	Threatened Category	Presence Text
BIRD		
Anthochaera phrygia		
Regent Honeyeater [82338]	Critically Endangered	Foraging, feeding or related behaviour likely to occur within area
Botaurus poiciloptilus		
Australasian Bittern [1001]	Endangered	Species or species habitat known to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Callocephalon fimbriatum		
Gang-gang Cockatoo [768]	Endangered	Species or species habitat known to occur within area
Falco hypoleucos		
Grey Falcon [929]	Vulnerable	Species or species habitat likely to occur within area
Grantiella picta		
Painted Honeyeater [470]	Vulnerable	Species or species habitat likely to occur within area
Hirundapus caudacutus		
White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pedionomus torquatus		
Plains-wanderer [906]	Critically Endangered	Species or species habitat likely to occur within area
Rostratula australis		
Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
FISH		
Galaxiella pusilla		
Eastern Dwarf Galaxias, Dwarf Galaxias [56790]	Vulnerable	Species or species habitat may occur within area
Nannoperca obscura		
Yarra Pygmy Perch [26177]	Vulnerable	Species or species habitat may occur within area
Prototroctes maraena		
Australian Grayling [26179]	Vulnerable	Species or species habitat may occur within area
FROG		
Litoria raniformis		
Growling Grass Frog, Southern Bell Frog, Green and Golden Frog, Warty Swamp Frog, Golden Bell Frog [1828]	Vulnerable	Species or species habitat known to occur within area
INSECT		

Scientific Name	Threatened Category	Presence Text
[Synemon plana](#)		
Golden Sun Moth [25234]	Vulnerable	Species or species habitat known to occur within area
MAMMAL		
[Dasyurus maculatus maculatus (SE mainland population)](#)		
Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (southeastern mainland population) [75184]	Endangered	Species or species habitat may occur within area
[Petaurus australis australis](#)		
Yellow-bellied Glider (south-eastern) [87600]	Vulnerable	Species or species habitat may occur within area
[Pteropus poliocephalus](#)		
Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or related behaviour likely to occur within area
PLANT		
[Amphibromus fluitans](#)		
River Swamp Wallaby-grass, Floating Swamp Wallaby-grass [19215]	Vulnerable	Species or species habitat likely to occur within area
[Dianella amoena](#)		
Matted Flax-lily [64886]	Endangered	Species or species habitat known to occur within area
[Diuris fragrantissima](#)		
Sunshine Diuris, Fragrant Doubletail, White Diuris [21243]	Endangered	Species or species habitat may occur within area
[Dodonaea procumbens](#)		
Trailing Hop-bush [12149]	Vulnerable	Species or species habitat may occur within area
[Glycine latrobeana](#)		
Clover Glycine, Purple Clover [13910]	Vulnerable	Species or species habitat likely to occur within area
[Lachnagrostis adamsonii](#)		
Adamson's Blown-grass, Adamson's Blowngrass [76211]	Endangered	Species or species habitat may occur within area
[Lepidium aschersonii](#)		
Spiny Pepper-cress [10976]	Vulnerable	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Lepidium hyssopifolium		
Basalt Pepper-cress, Peppercress, Rubble Pepper-cress, Pepperweed [16542]	Endangered	Species or species habitat may occur within area
Leucochrysum albicans subsp. tricolor		
Hoary Sunray, Grassland Paper-daisy [89104]	Endangered	Species or species habitat may occur within area
Pimelea spinescens subsp. spinescens		
Plains Rice-flower, Spiny Rice-flower, Prickly Pimelea [21980]	Critically Endangered	Species or species habitat likely to occur within area
Pterostylis chlorogramma		
Green-striped Greenhood [56510]	Vulnerable	Species or species habitat may occur within area
Pterostylis cucullata		
Leafy Greenhood [15459]	Vulnerable	Species or species habitat may occur within area
Rutidosis leptorhynchoides		
Button Wrinklewort [67251]	Endangered	Species or species habitat may occur within area
Senecio macrocarpus		
Large-fruit Fireweed, Large-fruit Groundsel [16333]	Vulnerable	Species or species habitat likely to occur within area
Xerochrysum palustre		
Swamp Everlasting, Swamp Paper Daisy [76215]	Vulnerable	Species or species habitat likely to occur within area
REPTILE		
Delma impar		
Striped Legless Lizard, Striped Snake-lizard [1649]	Vulnerable	Species or species habitat likely to occur within area

Listed Migratory Species		[Resource Information]
Scientific Name	Threatened Category	Presence Text
Migratory Marine Birds		
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		

Scientific Name	Threatened Category	Presence Text
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat likely to occur within area
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat likely to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
Scientific Name	Threatened Category	Presence Text
Bird		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area overfly marine area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area

Scientific Name	Threatened Category	Presence Text
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]		Species or species habitat likely to occur within area overfly marine area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat likely to occur within area overfly marine area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat known to occur within area overfly marine area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area
Monarcha melanopsis Black-faced Monarch [609]		Species or species habitat may occur within area overfly marine area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area overfly marine area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat known to occur within area overfly marine area
Neophema chrysostoma Blue-winged Parrot [726]		Species or species habitat likely to occur within area overfly marine area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area

Scientific Name	Threatened Category	Presence Text
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat likely to occur within area overfly marine area
Rostratula australis as Rostratula benghalensis (sensu lato) Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area overfly marine area
Tringa nebularia Common Greenshank, Greenshank [832]		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			
Industrial Estate Cooper Road	2005/2178	Controlled Action	Post-Approval
Melbourne Airport Rail Link - Broadmeadows Route	2001/196	Controlled Action	Post-Approval
Not controlled action			
Construction of sewerage pipeline from Craigieburn Sewage Treatment Plant to Mel	2004/1503	Not Controlled Action	Completed
Craigieburn Rail Project	2004/1508	Not Controlled Action	Completed
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed
INDIGO Central Submarine Telecommunications Cable	2017/8127	Not Controlled Action	Completed
Parkview Village 156 Lot Residential Developmment & Translocation of Dianella am	2005/2157	Not Controlled Action	Completed
Stage 15B Barry Road industrial subdivision	2005/2482	Not Controlled Action	Completed
Not controlled action (particular manner)			

Title of referral	Reference	Referral Outcome	Assessment Status
Not controlled action (particular manner)			
INDIGO Marine Cable Route Survey (INDIGO)	2017/7996	Not Controlled Action (Particular Manner)	Post-Approval
Somerton Natural Gas Pipeline	2001/275	Not Controlled Action (Particular Manner)	Post-Approval
Upgrade of Cooper Street, Epping	2001/292	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 are 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

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

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

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
- 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 Agriculture Water and the Environment
GPO Box 858
Canberra City ACT 2601 Australia
+61 2 6274 1111

Precautionary Approach Checklist – Site Selection (Code Ref Section 4.1)

Issue Date	**15/07/2022**	**Carrier**	**Telstra**	**Location**	**1199 Pascoe Vale Road, Broadmeadows VIC 3047 Site Name: Broadmeadows Exchange**
Description of Infrastructure	**•The installation of a new 40.0m telecommunications monopole (41.4m to the top of the antennas) within the existing Telstra exchange facility; •The attachment to the monopole of nine (9) panel antennas on a triangular headframe; •The installation of one (1) GPS antenna; •The installation of nine (9) Radio Units; •The installation of ancillary equipment such as cabling, cable tray with support posts, and antenna mounts, on the new monopole and within the existing Telstra exchange building.**				

4.1 Application of Precautionary Approach to Site Selection		
Section No.	**Industry Code C564:2020 Requirement For each site the Carrier must have regard to:**	**Comments on how the Carrier has had regard to each item.**
4.1.2	For new sites, once the preferred option has been selected, the Carrier must make available to the public on request the summary of the sites considered and the reasons for the selection of the preferred option.	Telstra radio frequency engineers, town planners, engineers and property consultants have undertaken investigations within the area for suitable locations. Following these investigations, Telstra have determined that the proposed site is the most appropriate location for a facility. Alternate candidate locations are available on request.
4.1.4 (a)	The reasonable service objectives of the carrier including (i) the area the planned service must cover (ii) power levels needed to provide quality of service (iii) the amount of usage the planned service must handle	This facility is intended to provide enhanced capacity to the mobile phone services to the Broadmeadows area. The transmit power settings at this facility will be set to accomplish the desired coverage, capacity and call quality within the areas listed above. The Over the Air specifications provide for the ability for the facility to

Precautionary Approach Checklist – Site Selection (Code Ref Section 4.1)

		reduce the transmitting power to each user based on the radio environment.
4.1.4 (b)	Minimisation of EME exposure to public	This facility is designed and will be installed in accordance with Telstra Document 005486 to restrict public access to any areas that exceed the general public EME exposure limits. The environmental EME level is minimised through the radio network design and reducing the transmit power to each user based on the radio environment.
4.1.4 (c)	The likelihood of an area being a community sensitive location.	The proposal is located in a commercial area, the closest residential properties are approximately 100m north of the subject site. There are two schools located approximately 350 to 400.0m north of the site. This facility is considered to be sited in an appropriate location given the siting of the facility against Riggall Street overpass, maintaining separation from the sensitive use and dwellings to north of the property.
4.1.4 (d)	The objective of avoiding community sensitive locations	During the initial site selection process, perceived community sensitive locations in the surrounding area are noted. Telstra attempts to strike a balance between siting their facilities away from perceived community sensitive locations where possible, and providing the required coverage to the desired area (along with taking into account cost, engineering and planning factors). The proposed works have taken into consideration surrounding perceived community sensitive locations.
4.1.4 (e)	Relevant state and local government telecommunications planning policies	The facility will be installed through a planning assessment by the local planning authority. Consideration has been given to the state and local planning policies of the Brimbank Council.

Precautionary Approach Checklist – Site Selection (Code Ref Section 4.1)

4.1.4 (f)	The outcomes of consultation processes with Councils and Interested and Affected parties as set out in Section 6.7	The consultation process will be undertaken by Council.
4.1.4 (g)	The heritage significance (built, cultural and natural)	Review of the heritage significance of the area has been undertaken and the proposed works on the subject site are not considered to impact on Aboriginal cultural, built or archaeological heritage significance.
4.1.4 (h)	The physical characteristics of the locality including elevation and terrain	The physical characteristics of this site have been considered during the evaluation of this facility. Factors considered included the terrain, site elevation and the height of the surrounding obstacles. Radio propagation analysis indicates that selecting appropriate antennas tilts and mounting heights will meet the service requirements for this facility
4.1.4 (i)	The availability of land and public utilities	A consideration of land and public utilities was undertaken through the placement of the proposal at an existing Telstra facility.
4.1.4 (j)	the availability of transmission to connect the Mobile Phone Radiocommunications Infrastructure with the rest of the network	The site will use an underground fibre cable to connect to the rest of the network.
4.1.4 (k)	The radiofrequency interference the planned service may cause to other services	The prescribed antennae spacing (in conjunction with appropriate tilt) and allocated frequencies have been used to meet the requirements for coverage from the facility, while minimising interference to existing networks. We understand that if any interference issues have been identified, these have been resolved to that carrier's satisfaction in accordance with Telstra's processes.
4.1.4 (l)	The radiofrequency interference the planned service could experience at that location from other services or sources of radio emissions	Radio propagation analysis has been used to ensure the new facility can be integrated with the existing network while minimising the interference to the new facility.

Precautionary Approach Checklist – Site Selection (Code Ref Section 4.1)

4.1.4 (m)	Any obligations, and opportunities, to co-locate facilities	Amplitel has taken the opportunity to construct a new facility for this project. Co-location with existing networks was not available in this location.
4.1.4 (n)	Cost factors	Amplitel has undertaken preliminary costing of this facility and are of the opinion these costs are reasonable.

Precautionary Approach Checklist – Infrastructure Design (Code Ref 4.2)

Issue Date	**15/07/2022**	**Carrier**	**Telstra**	**Location**	**1199 Pascoe Vale Road, Broadmeadows VIC 3047 Site Name: Broadmeadows Exchange**
Description of Infrastructure	**•The installation of a new 40.0m telecommunications monopole (41.4m to the top of the antennas) within the existing Telstra exchange facility;** **•The attachment to the monopole of nine (9) panel antennas on a triangular headframe;** **•The installation of one (1) GPS antenna;** **•The installation of nine (9) Radio Units;** **•The installation of ancillary equipment such as cabling, cable tray with support posts, and antenna mounts, on the new monopole and within the existing Telstra exchange building.**				

4.2 Application of Precautionary Approach to Infrastructure Design		
Section No.	**Industry Code C564:2018 Requirement** **For each site the Carrier must have regard to:**	**Comments on how the Carrier has had regard to each item**
4.2.3 (a)	the reason for the installation of the infrastructure considering – coverage, capacity and quality	This facility is intended to provide mobile phone services to the Broadmeadows area.
4.2.3 (b)	the positioning of antennas to minimise obstruction of radio signals	The antennas have been located at the most appropriate location, so as to not interfere with existing radio signals. This location meets the objectives outlined in 4.2.3 (a).
4.2.3 (c)	the objective of restricting access to areas where RF exposure may exceed limits of the EME standard	This facility is designed and will be installed in accordance with Telstra Document 005486 to restrict public access to any areas that exceed the general public EME exposure limits.
4.2.3 (d)	the type and features of the infrastructure that are required to meet service needs including: (i) the need for macro, or small scale infrastructure;	This facility is described in the section on "description of infrastructure" outlined in the Precautionary Approach

	and (ii) the need for directional or non-directional antennas	Checklist.
4.2.3 (e)	the objective of minimising power whilst meeting service objectives	The transmit power settings at this facility will be set to accomplish the desired coverage, capacity and call quality. The Over the Air specifications provide for the ability for the facility to reduce the transmitting power to each user based on the radio environment.
4.2.3 (f)	whether the costs of achieving this objective are reasonable	Telstra has undertaken preliminary costing of this facility and are of the opinion these costs are reasonable.
4.2.4	Site EME assessments for Mobile Phone Radiocommunication Infrastructure must be made in accordance with the ARPANSA prediction methodology and report format (see Appendix B)	EME assessment has been made in accordance with ARPANSA has been completed and is available the RF National Site Archive.

Environmental EME Report

Location	1199 Pascoe Vale Road, BROADMEADOWS VIC 3047		
Date	14/07/2022	**RFNSA No.**	3047016

How does this report work?

This report provides a summary of levels of radiofrequency (RF) electromagnetic energy (EME) around the wireless base station at 1199 Pascoe Vale Road, BROADMEADOWS VIC 3047. These levels have been calculated by Ventia - IRFA 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

1.60%

out of 100% of the public exposure limit, 70 m from the location.

EME levels with the proposed changes

Distance from the site	Percentage of the public exposure limit
0-50 m	1.02%
50-100 m	1.60%
100-200 m	1.31%
200-300 m	0.88%
300-400 m	0.58%
400-500 m	0.33%

For additional information please refer to the EME ARPANSA Report annexure for this site which can be found at *http://www.rfnsa.com.au/3047016*.

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.

	Existing		Proposed	
Carrier	**Systems**	**Configuration**	**Systems**	**Configuration**
Telstra			4G, 5G	NR3500 (proposed), LTE2600 (proposed), LTE1800 (proposed), LTE2100 (proposed), LTE700 (proposed), NR850 (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 360º circular bands.

	Existing configuration			Proposed configuration		
Distance from the site	Electric field (V/m)	Power density (mW/m²)	Percentage of the public exposure limit	Electric field (V/m)	Power density (mW/m²)	Percentage of the public exposure limit
0-50m				6.19	101.59	1.02%
50-100m				7.73	158.29	1.60%
100-200m				6.98	129.14	1.31%
200-300m				5.03	66.99	0.88%
300-400m				4.17	46.05	0.58%
400-500m				3.19	27.03	0.33%

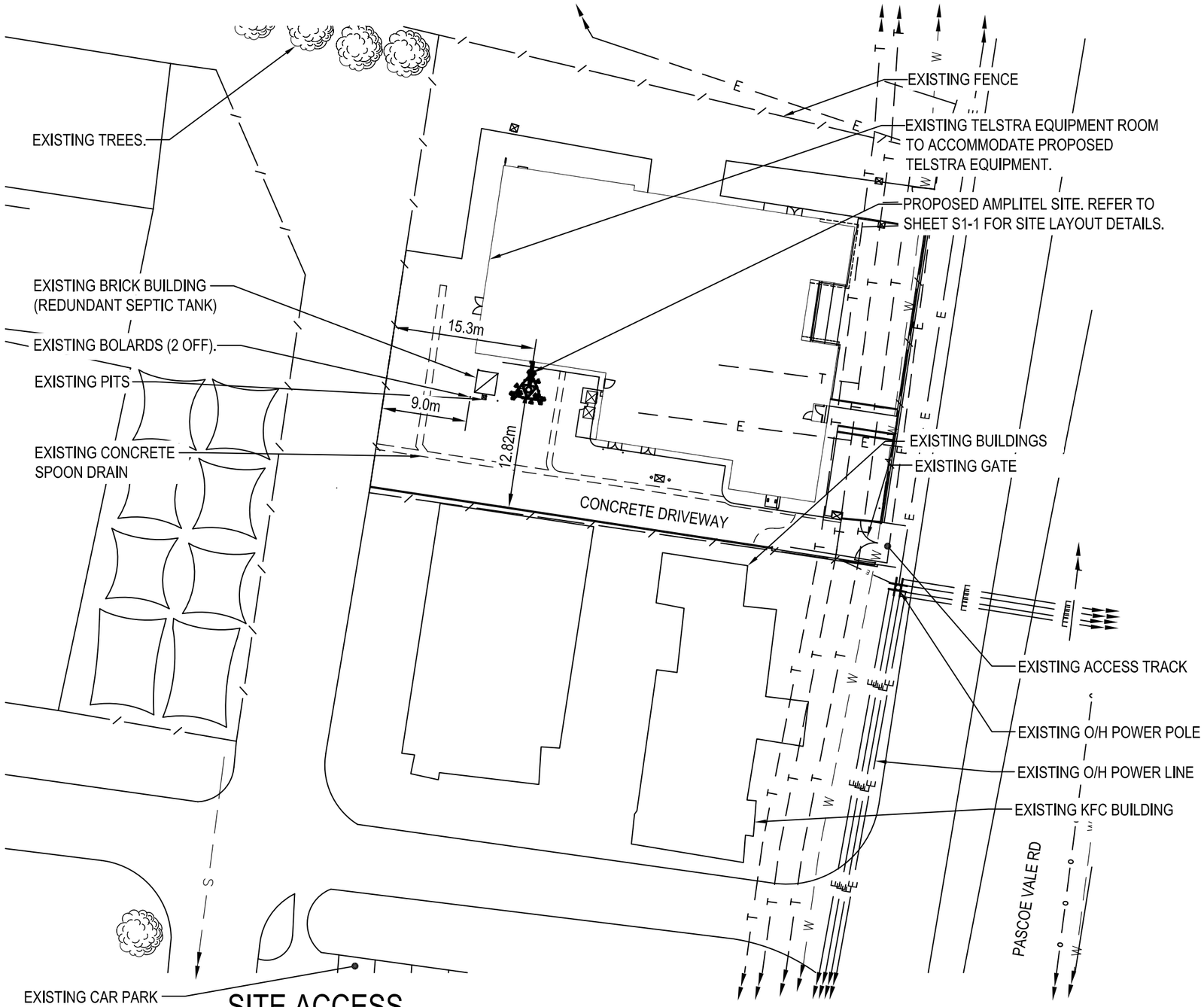
Calculated EME levels at other areas of interest

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/m²)	Percentage of the public exposure limit
Sirius College Meadow Fair Campus	0-4 m	1.38	5.03	0.05%
Hume Valley School	0-4 m	1.29	4.41	0.04%

Plot date: 13 July 2022 - 6:29 PM

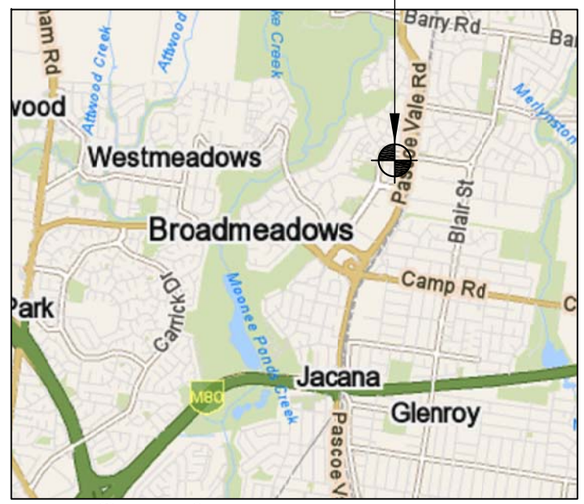


SITE ACCESS

SCALE 1:500

5m 0 5m 10m 15m 20m 25m SCALE 1:500

RFNSA SITE No. TBA



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LOCALITY PLAN

NOT TO SCALE

SERVICES LEGEND

—T—T—T—	OPTICAL FIBRE BELOW GROUND
— — E — — E —	BELOW GROUND ELECTRICAL SUPPLY
— E — E —	ABOVE GROUND ELECTRICAL SUPPLY
— FE — FE —	ABOVE GROUND FEEDER CABLES
— — FE — — FE —	BELOW GROUND FEEDER CABLES
— — G — — G —	GAS SUPPLY BELOW GROUND
— — W — — W —	WATER SUPPLY BELOW GROUND

UNAPPROVED DRAWING

PRELIMINARY

PROPERTY DESCRIPTION

LOT: LOT 1 ON PLAN OF SUBDIVISION 615214C
PARISH: WILL-WILL-ROOK
COUNTY: BOURKE

SITE STRUCTURE CO-ORDINATES (GDA94) GPS READING ACCURACY: ±10m CENTER OF MONOPOLE	
LATITUDE	-37.67556° (GDA94)
LONGITUDE	144.92216° (GDA94)

COMPLIANCE BOX
COMPLETED AS PER DESIGN ☐
ALTERATIONS IN RED ☐
NAME (PRINT)
SIGNATURE DATE

ventia

TO BE READ IN CONJUNCTION WITH SHEETS S1-1, S1-2, S1-3, S3 & S3-1.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
VT23003.01	SI	AH	PRELIM - 30095328WO032VENTIA - LTE700/1800/2100/2600/5G3.6/5G.85	AS	JH	10.05.22	1

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AMPLITEL
Part of the Telstra Group

TOWER AMS SITE VIC003968
BROADMEADOWS EXCHANGE
SITE ACCESS AND LOCALITY PLAN
1199 PASCOE VALE RD, BROADMEADOWS, VIC 3047

DWG NO. V114759 SHT NO. S1

Cad file: V114759_PD.dwg A3

Telstra Networks Wireless Program Delivery Template - 017866P02 Issue 12.11.04/ 2016

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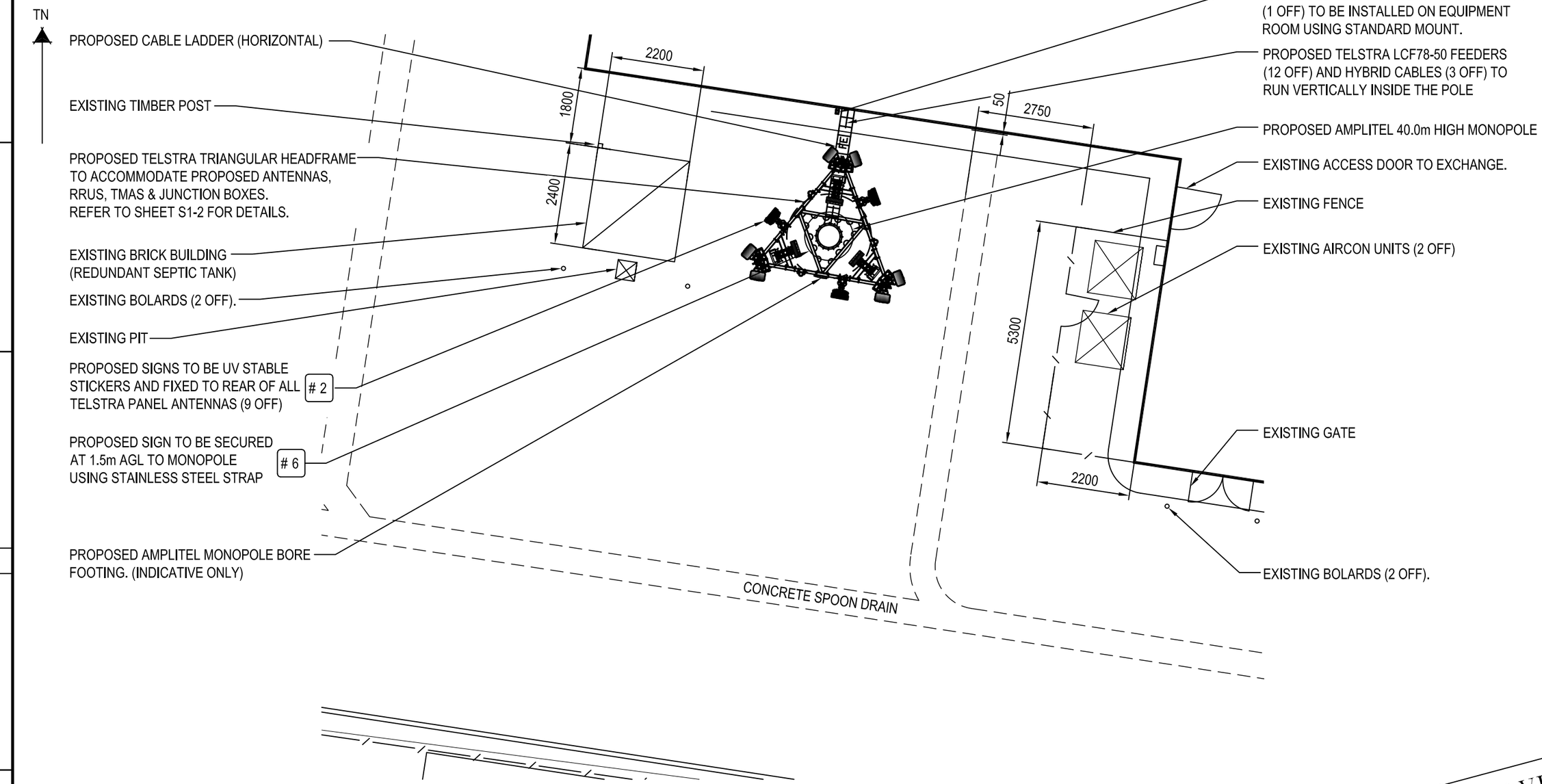

SITE LAYOUT

SCALE 1:100

1m 0 1m 2m 3m 4m 5m SCALE 1:100

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-2, S1-3, S3 & S3-1.

UNAPPROVED DRAWING

PRELIMINARY

COMPLIANCE BOX
COMPLETED AS PER DESIGN ☐
ALTERATIONS IN RED ☐
NAME (PRINT)
SIGNATURE DATE

NOTES :

1. ALL FEEDER ACCESS POINTS ON THE STRUCTURE MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
2. FOR EME SIGNS NOTED AS #X REFER TO 005486 DOCUMENTS FOR DETAILS.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

ventia

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
VT23003.01	SI	AH	PRELIM - 30095328WO032VENTIA - LTE700/1800/2100/2600/5G3.6/5G.85	AS	JH	10.05.22	1

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TOWER AMS SITE VIC003968
BROADMEADOWS EXCHANGE
SITE LAYOUT
1199 PASCOE VALE RD, BROADMEADOWS, VIC 3047

DWG NO. V114759 SHT NO. S1-1

Cad file: V114759_PD.dwg A3

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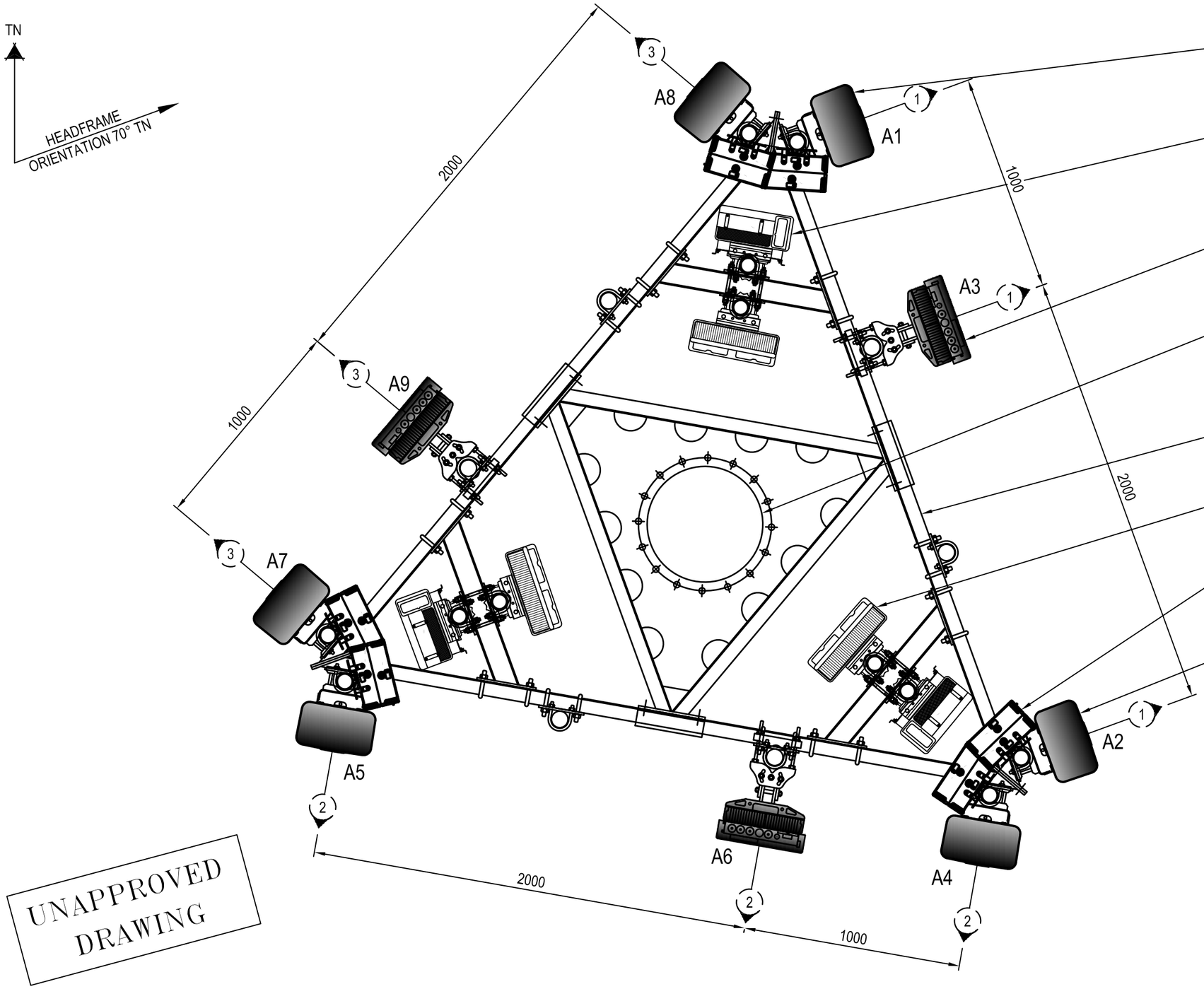

PROPOSED TELSTRA LTE700 / NR850 / LTE1800 / LTE2100 PANEL ANTENNAS (3 OFF A1, A4 & A7) TO BE INSTALLED ON PROPOSED MOUNTS ON PROPOSED HEADFRAME.

PROPOSED TELSTRA LTE2600 RADIO 4415 (B7) (3 OFF) AND RRU INTERFACE JUNCTION BOXES (3 OFF) TO BE INSTALLED ON PROPOSED MOUNTS ON PROPOSED HEADFRAME.

PROPOSED TELSTRA NR3600 AIR6488 PANEL ANTENNAS (3 OFF A3, A6 & A9) TO BE INSTALLED ON PROPOSED MOUNTS ON PROPOSED HEADFRAME.

PROPOSED AMPLITEL 40.0m HIGH MONOPOLE.

PROPOSED TELSTRA TRIANGULAR HEADFRAME TO ACCOMMODATE PROPOSED ANTENNAS, RRUS, TMAS & JUNCTION BOXES.

PROPOSED TELSTRA LTE1800 / LTE2100 RADIO 4480 (B3/B1) (3 OFF) TO BE INSTALLED ON PROPOSED MOUNTS ON PROPOSED HEADFRAME.

PROPOSED TELSTRA LTE700 / NR850 TMA'S (6 OFF) TO BE NSTALLED ON PROPOSED MOUNTS BEHIND PANEL ANTENNAS (A1, A2, A4, A5, A7 & A8).

PROPOSED TELSTRA LTE700 / NR850 / LTE2600 PANEL ANTENNAS (3 OFF A2, A5 & A8) TO BE INSTALLED ON PROPOSED MOUNTS ON PROPOSED HEADFRAME.

UNAPPROVED DRAWING

COMPLIANCE BOX
COMPLETED AS PER DESIGN ☐
ALTERATIONS IN RED ☐
NAME (PRINT)
SIGNATURE DATE

PRELIMINARY

ANTENNA LAYOUT AT EL 40.0m & 40.8m AND RRU LAYOUT AT EL 40.5m

SCALE 1:20

200 0 1000 SCALE 1:20

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-1, S1-3, S3 & S3-1.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
VT23003.01	SI	AH	PRELIM - 30095328WO032VENTIA - LTE700/1800/2100/2600/5G3.6/5G.85	AS	JH	10.05.22	1

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Telstra

MOBILE NETWORK SITE 25478
BROADMEADOWS EXCHANGE
ANTENNA LAYOUT
1199 PASCOE VALE RD, BROADMEADOWS, VIC 3047

DWG NO. V114759 SHT NO. S1-2

Cad file: V114759_PD.dwg A3

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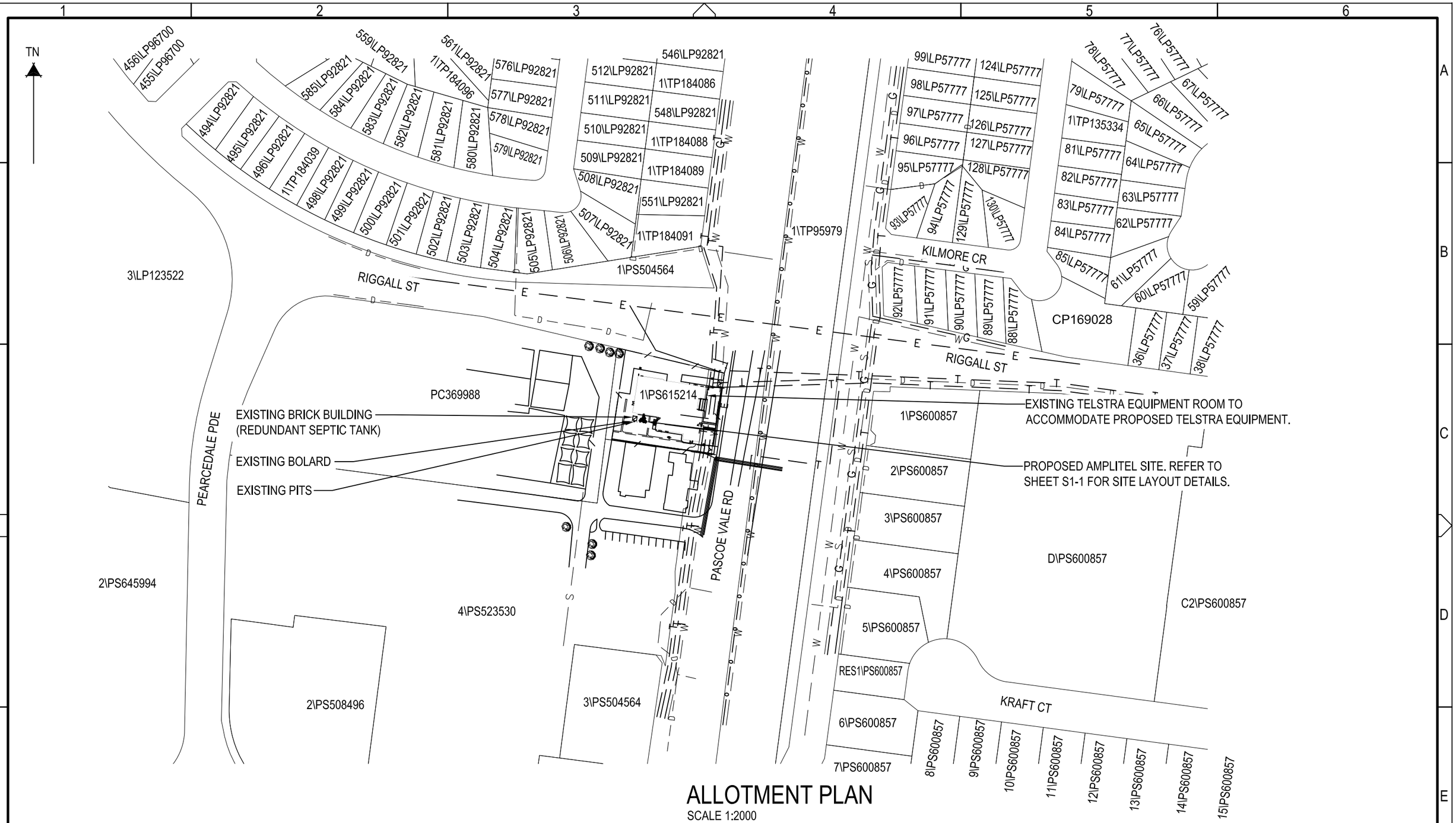

ALLOTMENT PLAN

SCALE 1:2000

20m 0 20m 40m 60m 80m 100m SCALE 1:2000

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-1, S1-2, S3 & S3-1.

PRELIMINARY

UNAPPROVED DRAWING

COMPLIANCE BOX
COMPLETED AS PER DESIGN ☐
ALTERATIONS IN RED ☐
NAME (PRINT)
SIGNATURE DATE

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
VT23003.01	SI	AH	PRELIM - 30095328WO032VENTIA - LTE700/1800/2100/2600/5G3.6/5G.85	AS	JH	10.05.22	1

AMPLITEL
Part of the Telstra Group

TOWER AMS SITE VIC003968
BROADMEADOWS EXCHANGE
ALLOTMENT PLAN
1199 PASCOE VALE RD, BROADMEADOWS, VIC 3047

DWG NO. V114759 SHT NO. S1-3

Cad file: V114759_PD.dwg A3

Telstra Networks Wireless Program Delivery Template - 017866P02 issue 12.11 /04/ 2016

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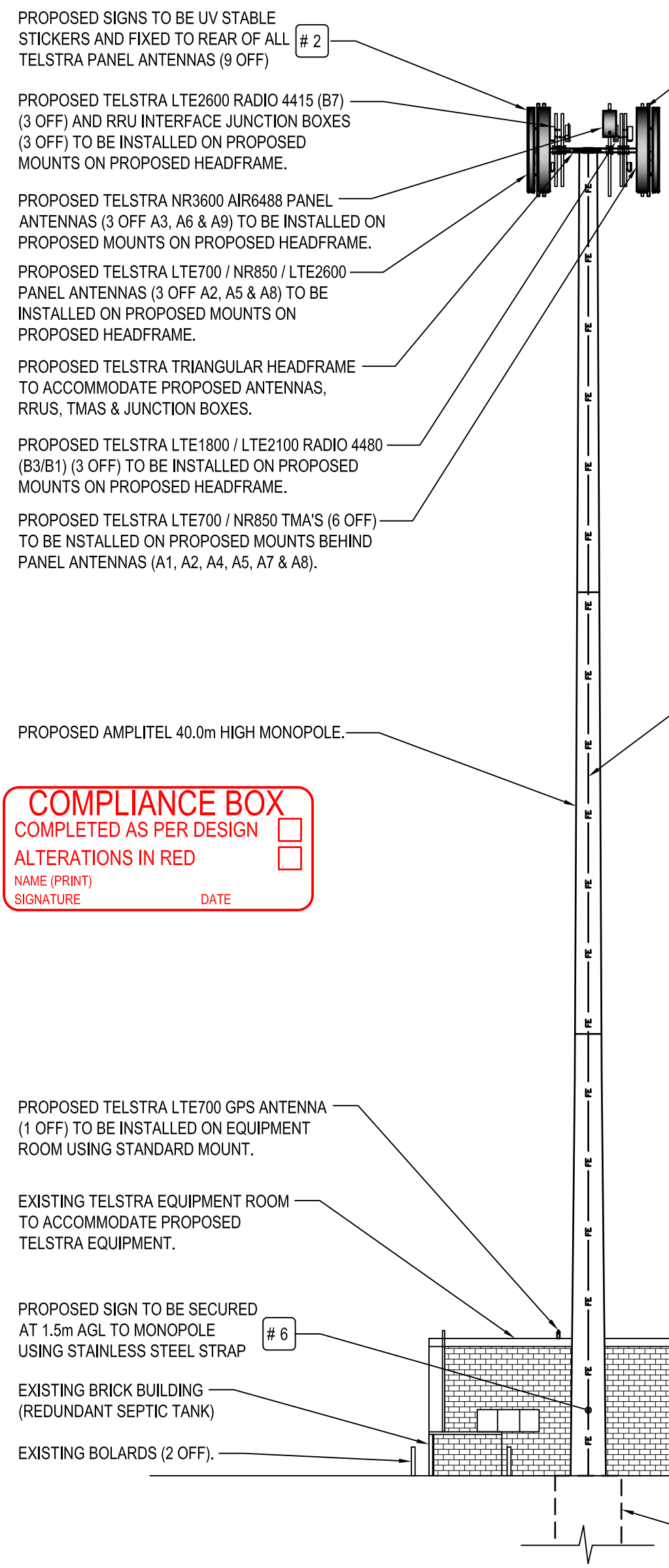

PROPOSED SIGNS TO BE UV STABLE STICKERS AND FIXED TO REAR OF ALL TELSTRA PANEL ANTENNAS (9 OFF) # 2

PROPOSED TELSTRA LTE2600 RADIO 4415 (B7) (3 OFF) AND RRU INTERFACE JUNCTION BOXES (3 OFF) TO BE INSTALLED ON PROPOSED MOUNTS ON PROPOSED HEADFRAME.

PROPOSED TELSTRA NR3600 AIR6488 PANEL ANTENNAS (3 OFF A3, A6 & A9) TO BE INSTALLED ON PROPOSED MOUNTS ON PROPOSED HEADFRAME.

PROPOSED TELSTRA LTE700 / NR850 / LTE2600 PANEL ANTENNAS (3 OFF A2, A5 & A8) TO BE INSTALLED ON PROPOSED MOUNTS ON PROPOSED HEADFRAME.

PROPOSED TELSTRA TRIANGULAR HEADFRAME TO ACCOMMODATE PROPOSED ANTENNAS, RRUS, TMAS & JUNCTION BOXES.

PROPOSED TELSTRA LTE1800 / LTE2100 RADIO 4480 (B3/B1) (3 OFF) TO BE INSTALLED ON PROPOSED MOUNTS ON PROPOSED HEADFRAME.

PROPOSED TELSTRA LTE700 / NR850 TMA'S (6 OFF) TO BE NSTALLED ON PROPOSED MOUNTS BEHIND PANEL ANTENNAS (A1, A2, A4, A5, A7 & A8).

PROPOSED TELSTRA LTE700 / NR850 / LTE1800 / LTE2100 PANEL ANTENNAS (3 OFF A1, A4 & A7) TO BE INSTALLED ON PROPOSED MOUNTS ON PROPOSED HEADFRAME.

▽ E.L. 41.4m (±100mm) RL 166.4m A.H.D.
OVERALL HEIGHT

▽ E.L. 40.8m (±100mm) RL 165.8m A.H.D.
C/L PROPOSED TELSTRA NR3600 AIR6488 PANEL ANTENNAS (3 OFF A3, A6 & A9)

▽ E.L. 40.5m (±100mm) RL 165.5m A.H.D.
C/L PROPOSED TELSTRA LTE2600 RADIO 4415 (B7) (3 OFF)
C/L PROPOSED TELSTRA LTE1800/LTE2100 RADIO 4480 B1/B3 (3 OFF)

▽ E.L. 40.0m (±100mm) RL 165.0m A.H.D.
C/L PROPOSED TELSTRA LTE700/NR850/LTE1800/LTE2100 PANEL ANTENNAS (3 OFF, A1 & A4 & A7)
C/L PROPOSED TELSTRA LTE700/NR850/LTE2600 PANEL ANTENNAS (3 OFF, A2 & A5 & A8)

PROPOSED AMPLITEL 40.0m HIGH MONOPOLE.

PROPOSED TELSTRA LCF78-50 FEEDERS (12 OFF) AND HYBRID CABLES (3 OFF) TO RUN VERTICALLY INSIDE THE POLE

COMPLIANCE BOX
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NOTES:
1. ALL FEEDER ACCESS POINTS ON THE STRUCTURE MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
2. FOR EME SIGNS NOTED AS #X REFER TO 005486 DOCUMENTS FOR DETAILS.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.

PROPOSED TELSTRA LTE700 GPS ANTENNA (1 OFF) TO BE INSTALLED ON EQUIPMENT ROOM USING STANDARD MOUNT.

EXISTING TELSTRA EQUIPMENT ROOM TO ACCOMMODATE PROPOSED TELSTRA EQUIPMENT.

PROPOSED SIGN TO BE SECURED AT 1.5m AGL TO MONOPOLE USING STAINLESS STEEL STRAP # 6

EXISTING BRICK BUILDING (REDUNDANT SEPTIC TANK)

EXISTING BOLARDS (2 OFF).

EXISTING FENCE

EXISTING ACCESS DOOR TO EXCHANGE.

EXISTING AIRCON UNITS (2 OFF)

▽ E.L. 0.00m (±100mm) RL 125.0m A.H.D.
GROUND LEVEL

PROPOSED AMPLITEL MONOPOLE BORE FOOTING. (INDICATIVE ONLY)

SOUTH ELEVATION

SCALE 1:150

3m 0 3m 6m SCALE 1:150

UNAPPROVED DRAWING

PRELIMINARY

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-1, S1-2, S1-3 & S3-1.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
VT23003.01	SI	AH	PRELIM - 30095328WO032VENTIA - LTE700/1800/2100/2600/5G3.6/5G.85	AS	JH	10.05.22	1

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TOWER AMS SITE VIC003968
BROADMEADOWS EXCHANGE
SOUTH ELEVATION
1199 PASCOE VALE RD, BROADMEADOWS, VIC 3047

DWG NO. V114759 SHT NO. S3

Cad file: V114759_PD.dwg A3V

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TELSTRA ANTENNA CONFIGURATION TABLE

ANTENNA No	ANTENNA TYPE & SIZE H x W x D	ANTENNA ACTION REQUIRED	ANTENNA HEIGHT C/L A.G.L.	ANTENNA BEARING (x°T)	SECTOR NO. & TECHNOLOGY
A1	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	40.0m	70°	S1: LTE700 / S1: NR850 S1: LTE700 / S1: NR850
					S1: LTE1800 / S1: LTE2100 S1: LTE1800 / S1: LTE2100
					S1: LTE1800 / S1: LTE2100 S1: LTE1800 / S1: LTE2100
A2	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	40.0m	70°	S3: LTE700 / S3: NR850 S3: LTE700 / S3: NR850
					S2: LTE2600 S2: LTE2600
					S2: LTE2600 S2: LTE2600
A3	ERICSSON AIR6488 PANEL 810 x 400 x 200mm	INSTALL	40.8m	70°	S1: NR3600 S1: NR3600
A4	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	40.0m	190°	S2: LTE700 / S2: NR850 S2: LTE700 / S2: NR850
					S2:LTE1800 / S2: LTE2100 S2:LTE1800 / S2: LTE2100
					S2:LTE1800 / S2: LTE2100 S2:LTE1800 / S2: LTE2100
A5	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	40.0m	190°	S3: LTE700 / S3: NR850 S3: LTE700 / S3: NR850
					S2: LTE2600 S2: LTE2600
					S2: LTE2600 S2: LTE2600
A6	ERICSSON AIR6488 PANEL 810 x 400 x 200mm	INSTALL	40.8m	190°	S2: NR3600 S2: NR3600
A7	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	40.0m	310°	S3: LTE700 / S3: NR850 S3: LTE700 / S3: NR850
					S3:LTE1800 / S3: LTE2100 S3:LTE1800 / S3: LTE2100
					S3:LTE1800 / S3: LTE2100 S3:LTE1800 / S3: LTE2100
A8	ARGUS RVVPX310.11B-T2H PANEL 2533 x 350 x 208mm	INSTALL	40.0m	310°	S3: LTE700 / S3: NR850 S3: LTE700 / S3: NR850
					S3: LTE2600 S3: LTE2600
					S3: LTE2600 S3: LTE2600
A9	ERICSSON AIR6488 PANEL 810 x 400 x 200mm	INSTALL	40.8m	310°	S3: NR3600 S3: NR3600
A200	ROSENBERGER GPS-36-N-SA	INSTALL	BASE OF GPS 3.0m	0°	-

COMPLIANCE BOX
COMPLETED AS PER DESIGN ☐
ALTERATIONS IN RED ☐
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UNAPPROVED DRAWING

PRELIMINARY

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-1, S1-2, S1-3 & S3.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
VT23003.01	SI	AH	PRELIM - 30095328WO032VENTIA - LTE700/1800/2100/2600/5G3.6/5G.85	AS	JH	10.05.22	1

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MOBILE NETWORK SITE 25478
BROADMEADOWS EXCHANGE
ANTENNA CONFIGURATION TABLE
1199 PASCOE VALE RD, BROADMEADOWS, VIC 3047

DWG NO. V114759 | SHT NO. S3-1

Cad file: V114759_PD.dwg A3V

Telstra Networks Wireless Program Delivery Template - 017866P02 issue 12 11/04/2016

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15 July 2022

Hume City Council
Via online portal

Dear Sir/Madam.

Submission of a development application for a proposed telecommunications facility at 1199 Pascoe Vale Road, Broadmeadows VIC 3047

Please find enclosed an application and supporting information lodged by Visionstream Australia Pty Ltd on behalf of Amplitel Pty Ltd for planning approval for the proposed installation of a telecommunications facility in Broadmeadows.

Please find enclosed:

- Planning Report;
- Title Search and Title Plan;
- Site Plans;
- EME Report

For application fee payment, please contact Blake Hender of Visionstream Pty Ltd at 0427 575 658 or blake.hender@ventia.com

This application has been submitted by Visionstream Australia Pty Ltd on behalf of Amplitel Pty Ltd and involves the installation of a 40.0m telecommunications monopole and associated ancillary equipment at 1199 Pascoe Vale Road, Broadmeadows VIC. Telstra and Amplitel have applied the Precautionary Approach in the Selection and Design of the proposed site in accordance with Sections 4.1 and 4.2 of this Code.

An application for the approval to commence and carry out development is submitted to Hume Council for its determination.

Should you require any additional information then please do not hesitate to contact Russell Carman using the details below.

Yours sincerely,

Blake Hender

Blake Hender
Town Planner
Visionstream Australia Pty Ltd
T: 0427 575 658
E-mail: blake.hender@ventia.com

W www.visionstream.com.au