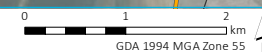


- KEY**
- Subject site
 - Existing 200 kV transmission line
 - Major road
 - Minor road
 - Named watercourse
 - Local government area
- INSET KEY**
- Major road
 - National park/reserve
 - State forest

Site location - regional context

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Mornington BESS
Planning permit application
Figure 1.1



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Source: EMM (2021); Maoneng (2020); DELWP (2019); GA (2011); ASGC (2006)



- KEY**
- Subject site
 - Existing 200 kV transmission line
 - Major road
 - Minor road
 - Watercourse/drainage line

Site location - local context

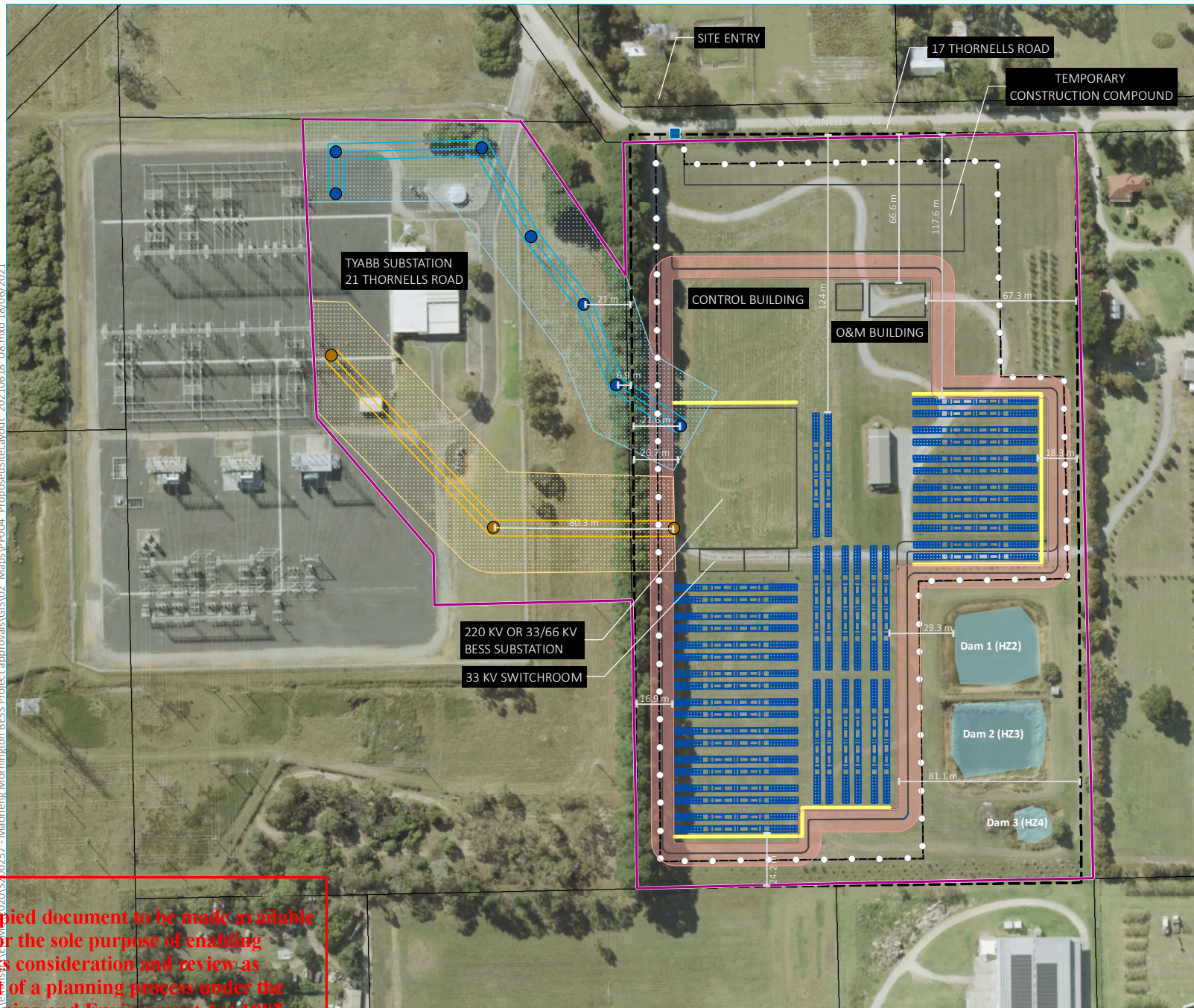
Maoneng Australia Pty Limited
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 Figure 1.2



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\\msnshs0201\S2\00257 - Maoneng Mornington BESS Project approvals\GIS\02_Maps\PP004_ProposedSiteLayout_20210618_08.mxd 18/06/2021



- KEY**
- Subject site
 - Proposed transmission pole
 - Proposed transmission tower
 - Coast Tea-tree
 - Battery
 - Site boundary
 - Acoustic barrier
 - Fence
 - Distance to site boundary
 - Firebreak (10 m)
 - Dam
 - Cadastral boundary
 - Transmission line
 - Option 1 - 66 kV transmission line
 - Option 2 - 220 kV transmission line
 - Option 1 - 66 kV transmission line easement
 - Option 2 - 220 kV transmission line easement

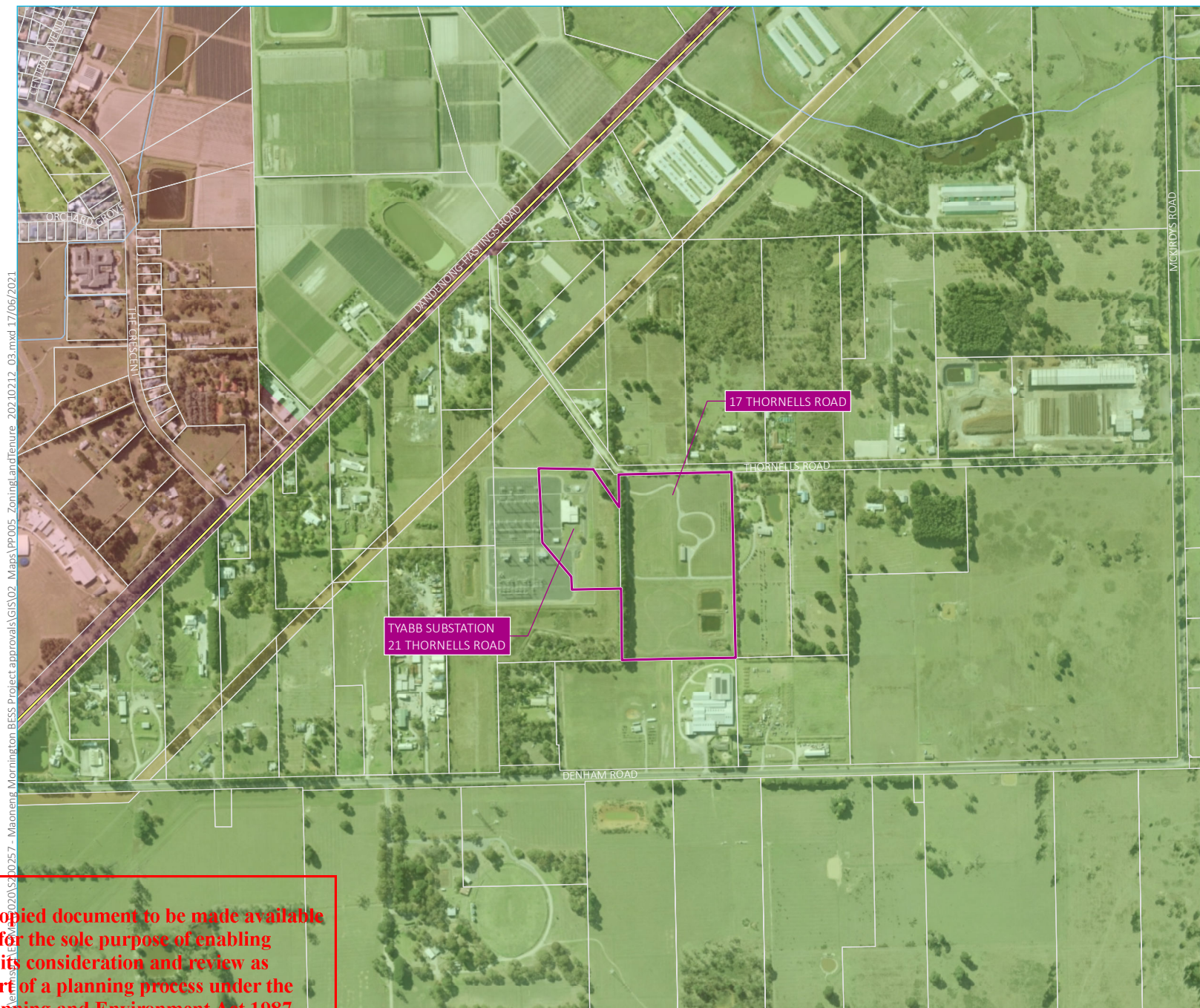
Proposed site layout

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Planning permit application
Figure 2.1

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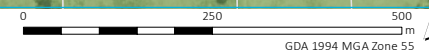
Source: EMM (2021); Metromap (2021); Meoneng (2020); LCrowfoot (2020); DELWP (2019); GA (2014)



- KEY**
- Subject site
 - Major road
 - Cadastral boundary
 - Watercourse/drainage line
- Land zone**
- GRZ - General residential
 - LDRZ - Low density residential
 - PUZ - Public use
 - RDZ1 - Road category 1
 - SUZ - Special use

Zoning and land tenure

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Mornington BESS
Planning permit application
Figure 4.1



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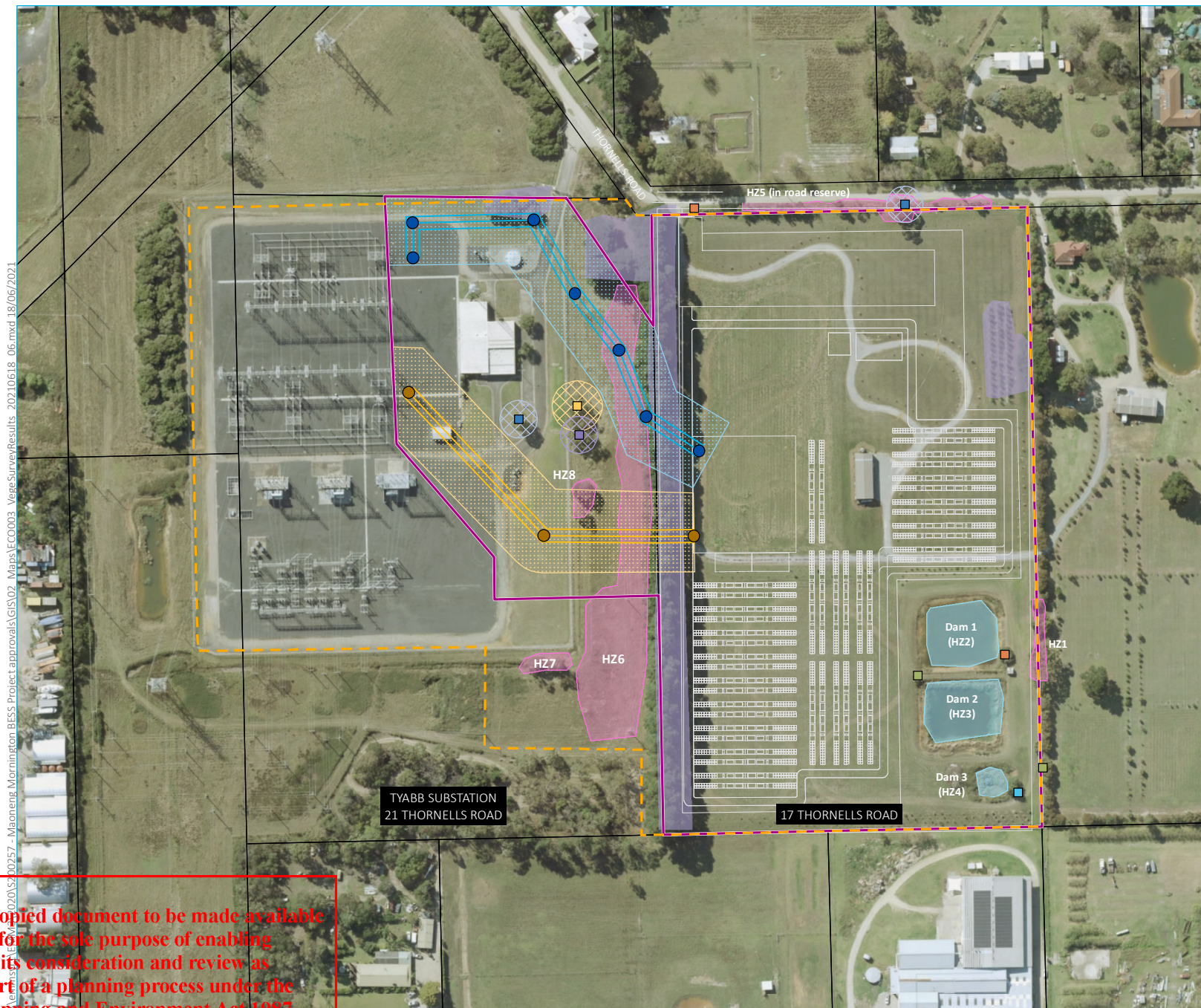


Drone image of the site

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 Planning Permit Applica on Mornington BESS
 Figure 4.2

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- KEY**
- Subject site
 - Ecology study area
 - Proposed transmission pole
 - Proposed transmission tower
 - Site layout
 - Cadastral boundary
 - Damp Sands Herb-rich Woodland
 - Dam
 - Planted vegetation
- Canopy trees with associated TPZ**
- Manna gum
 - Narrow-leaf peppermint
 - Swamp gum
- Tree Protection Zone (TPZ)**
- Manna gum
 - Narrow-leaf peppermint
 - Swamp gum
- Understorey trees**
- Blackwood
 - Coast tea-tree
 - Black wattle
- Transmission line**
- Option 1 - 66 kV transmission line
 - Option 2 - 220 kV transmission line
 - Option 1 - 66 kV transmission line easement
 - Option 2 - 220 kV transmission line easement

Vegetation survey results

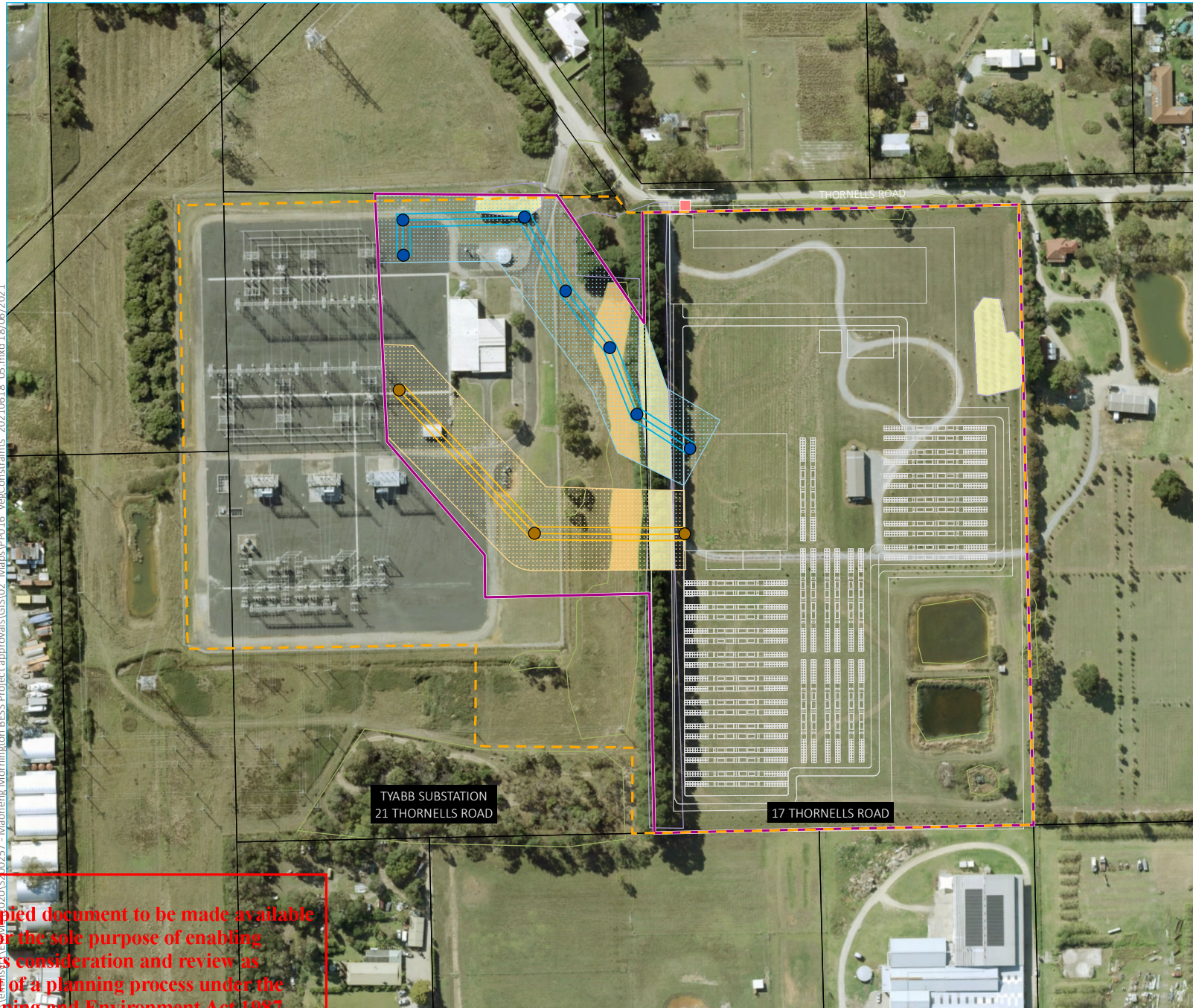
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Mornington BESS
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Figure 6.1a



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- KEY
- Subject site
 - Ecology study area
 - Proposed transmission pole
 - Proposed transmission tower
 - Site layout
 - Cadastral boundary
 - Vegetation removal
 - Coast Tea-tree
 - Planted vegetation
 - Remnant vegetation
 - Transmission line
 - Option 1 - 66 kV transmission line
 - Option 2 - 220 kV transmission line
 - Option 1 - 66 kV transmission line easement
 - Option 2 - 220 kV transmission line easement

Vegetation removal

Maoneng Australia Pty Limited
Mornington BESS
Planning permit application
Figure 6.1b

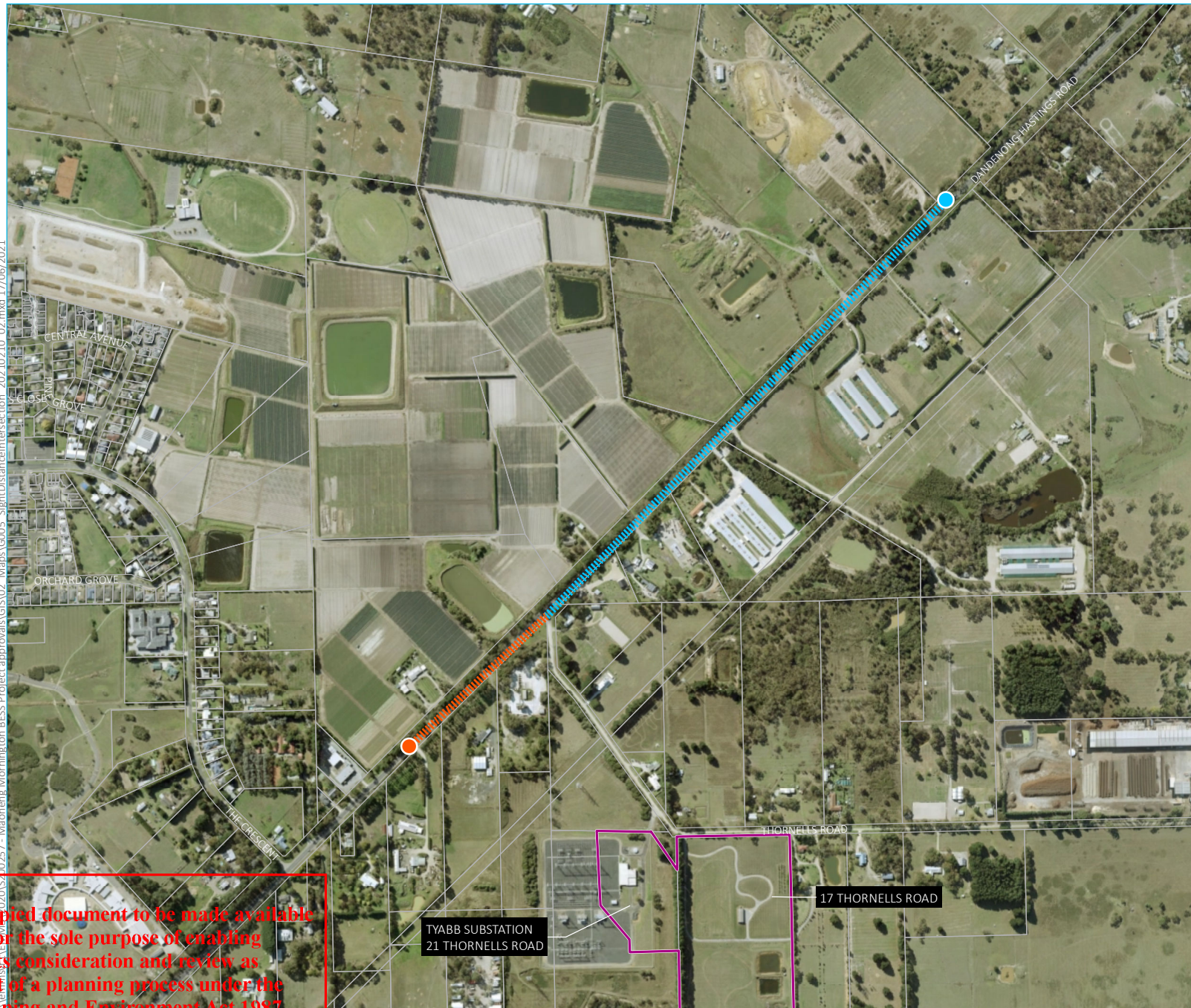


0 50 100
m
GDA 1994 MGA Zone 55

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KEY

- Subject site
- Sight distance to the left (351 m)*
- Sight distance to the right (1,040 m)*
- Cadastral boundary

* Required site distance: 285 m

Sight distance at intersection

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Planning permit application
Figure 6.8



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Source: EMM (2021); Metromap (2021); DELWP (2019); GA (2011)



- KEY
- Subject site
 - Site layout
 - Noise assessment location
 - U Noise monitoring location - unattended
 - Cadastral boundary

Noise monitoring and
assessment locations

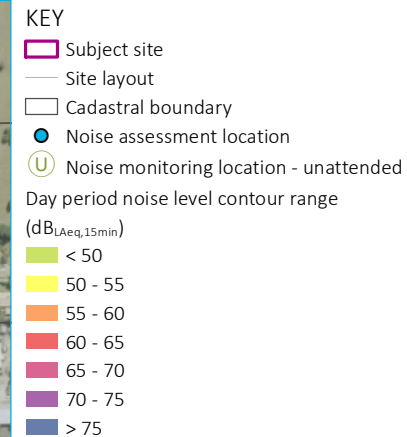
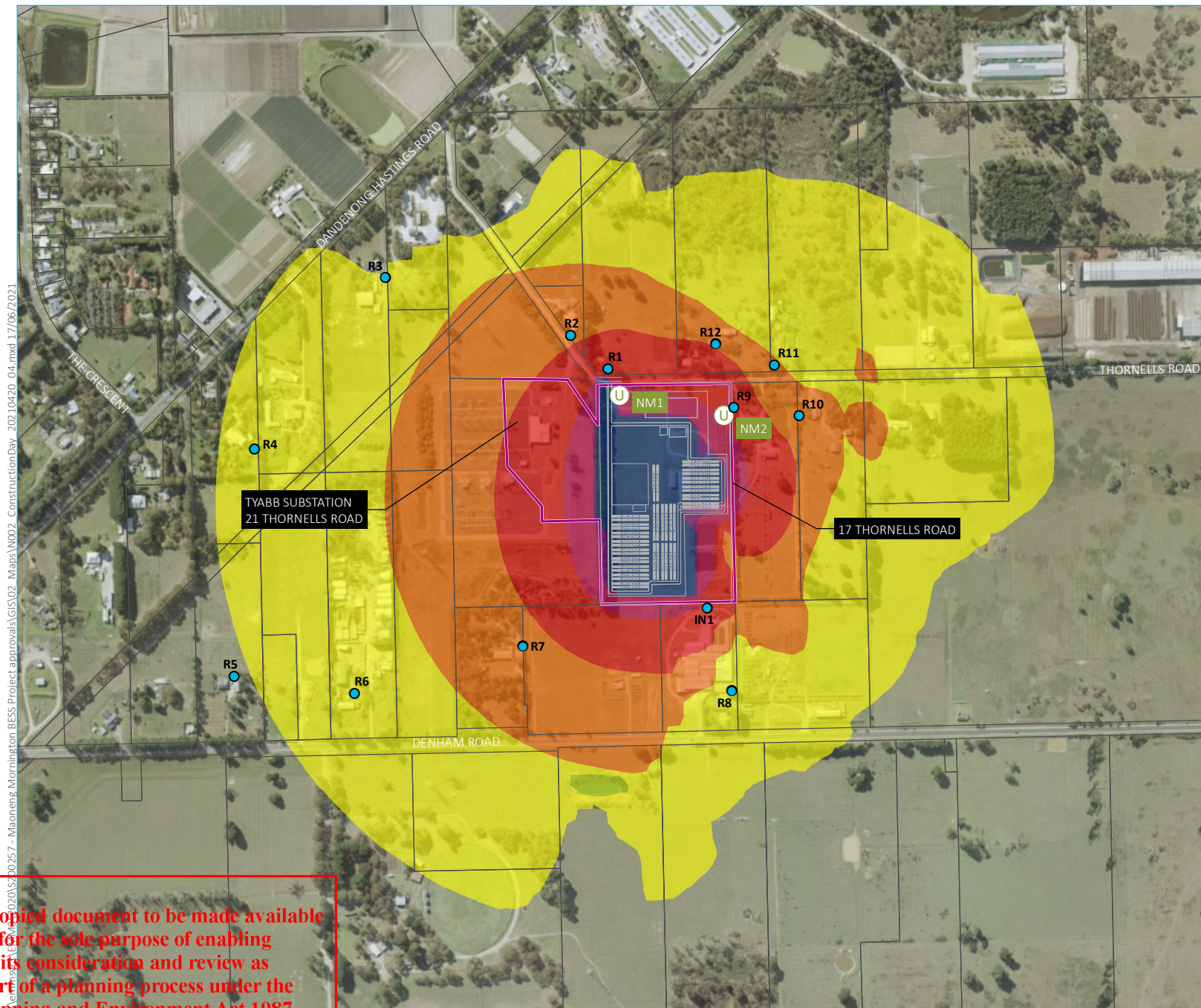
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Mornington BESS
Planning permit application
Figure 6.10



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0 150 300
m
GDA 1994 MGA Zone 55

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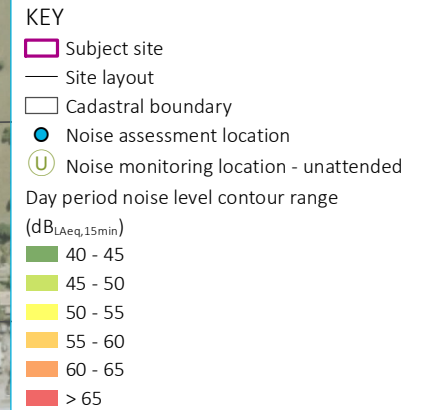
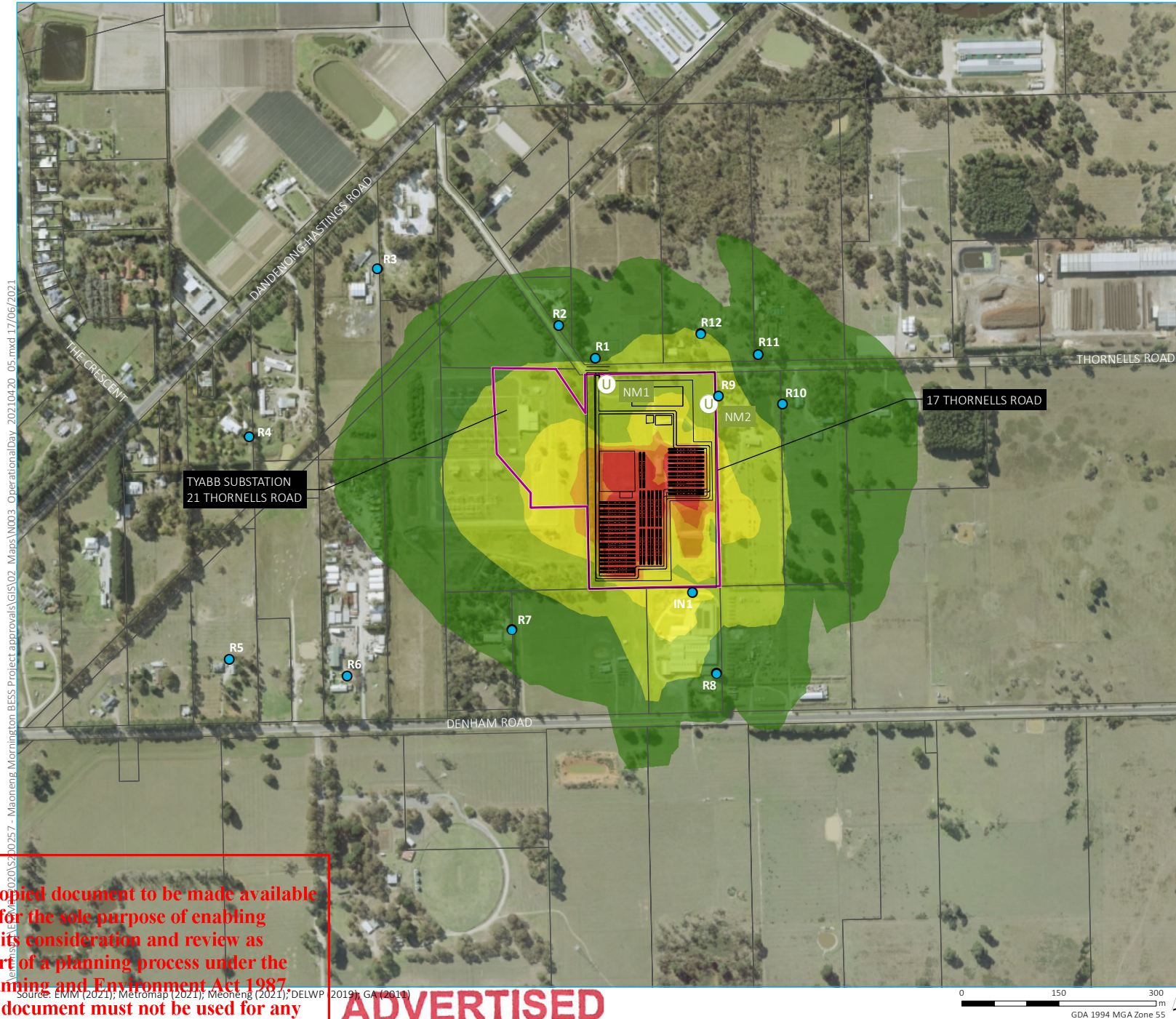
Construction noise contours,
day, ISO 9613

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Figure 6.11



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Operational noise contours,
day/evening, ISO 9613

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Figure 6.12



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KEY

- Subject site
- Site layout
- Cadastral boundary
- Noise assessment location
- Noise monitoring location - unattended

Night period noise level contour range
($dB_{LAeq,15min}$)

- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- > 65

Operational noise contours,
night, ISO 9613

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Mornington BESS
Planning permit application
Figure 6.13



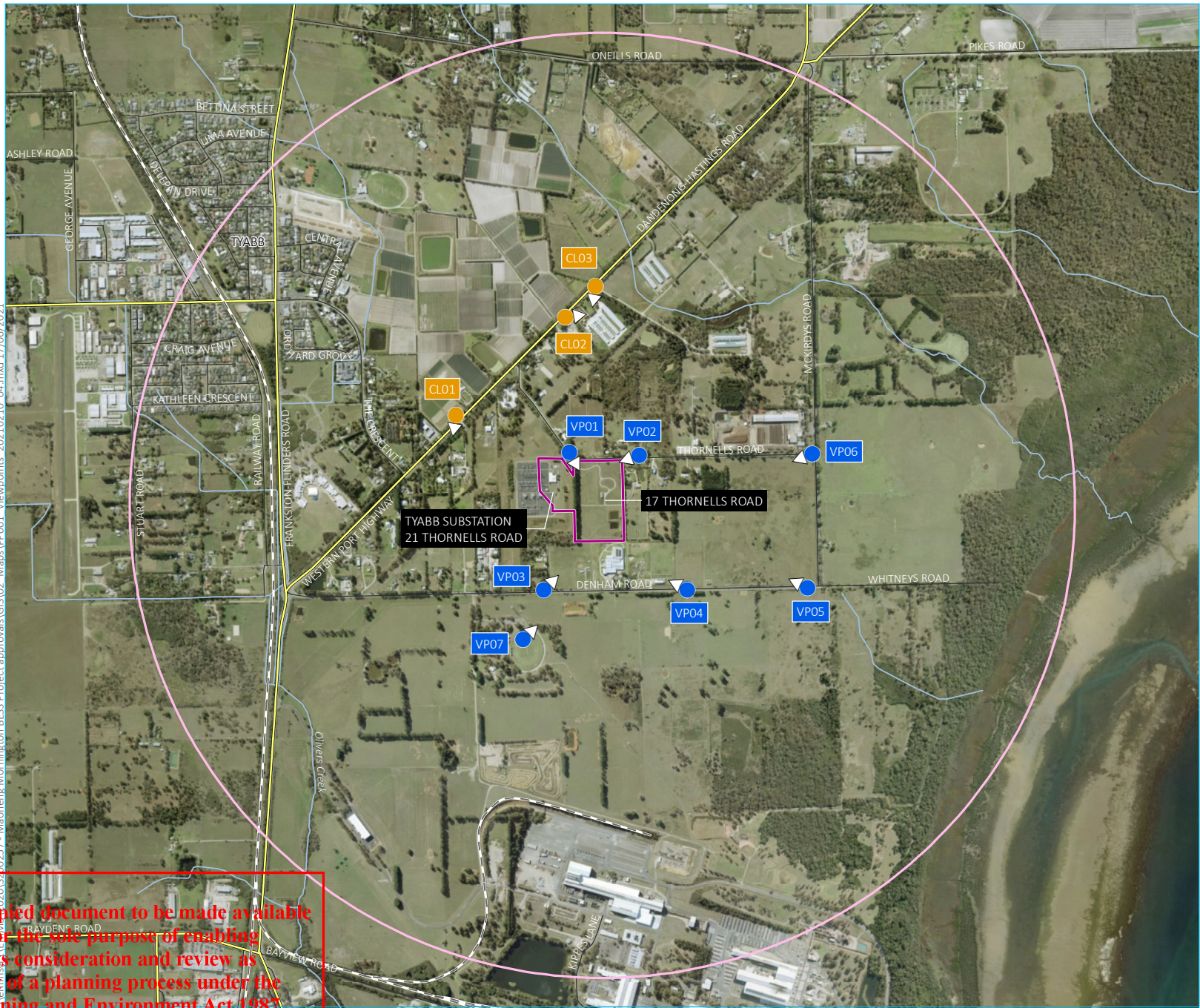
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Source: EMM (2021); Metromap (2021); Meoneng (2021); DELWP (2019); GA (2014)

0 150 300
m
GDA 1994 MGA Zone 55



- KEY**
- Subject site
 - Contextual landscape view
 - Viewpoint
 - Zone of Theoretical Visual Influence (ZTVI)
 - Rail line
 - Major road
 - Minor road
 - Watercourse/drainage line

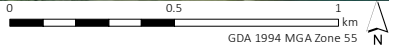
Viewpoints map

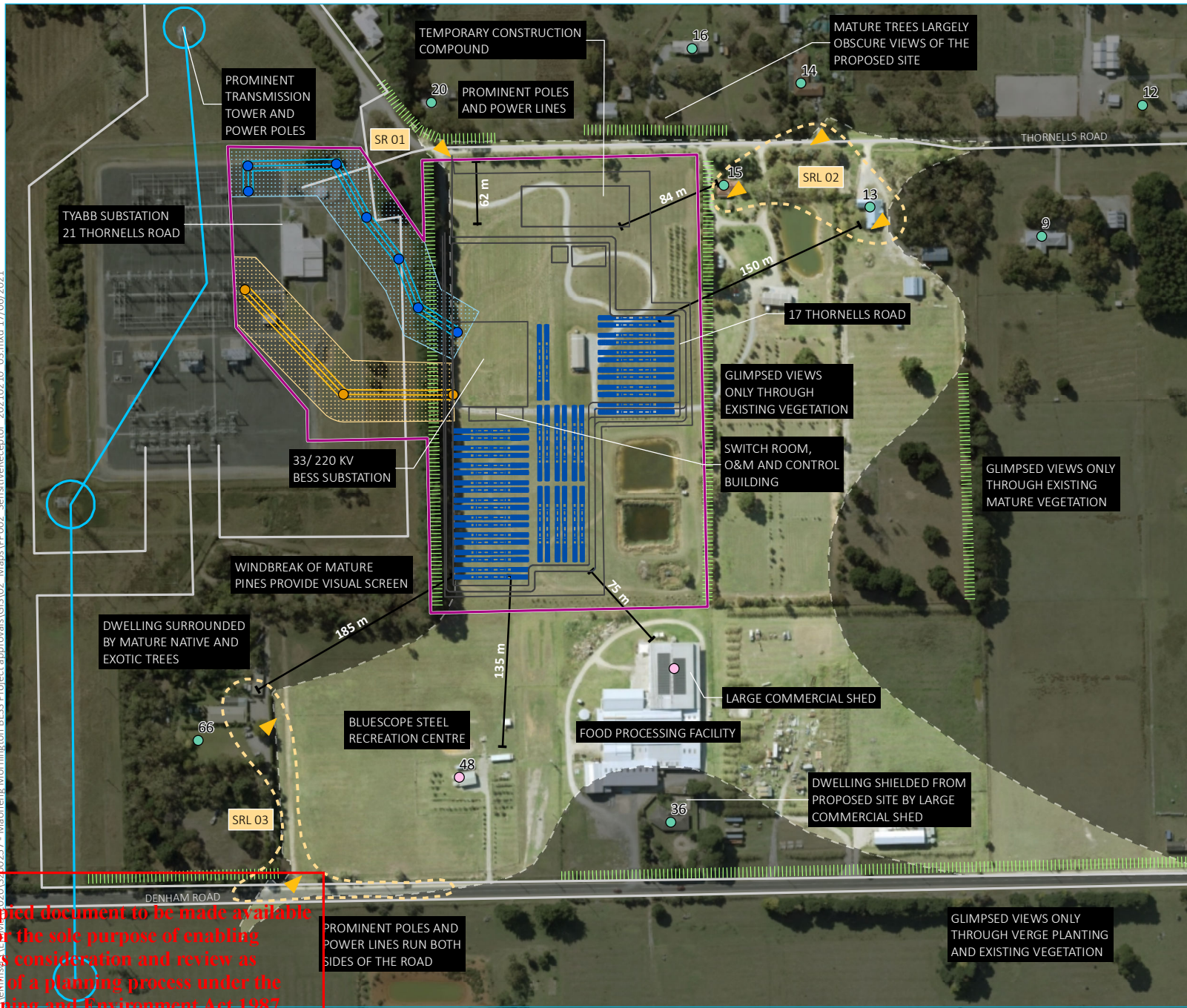
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 Figure 6.14



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ADVERTISED PLAN





- KEY**
- Subject site
 - Proposed transmission pole
 - Proposed transmission tower
 - Commercial property
 - Residential property
 - Sensitive receptor (SR)
 - Proposed battery
 - Existing 220 kV transmission tower and power line
 - Existing 66 kV transmission line and power pole
 - Distance to residence
 - Sensitive receptor locality (SRL)
 - Existing vegetation
 - Visibility shadow within 2 km ZTVI
 - Transmission line
 - Option 1 - 66 kV transmission line
 - Option 2 - 220 kV transmission line
 - Option 1 - 66 kV transmission line easement
 - Option 2 - 220 kV transmission line easement

Sensitive receptor map

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Mornington BESS
Planning permit application
Figure 6.15

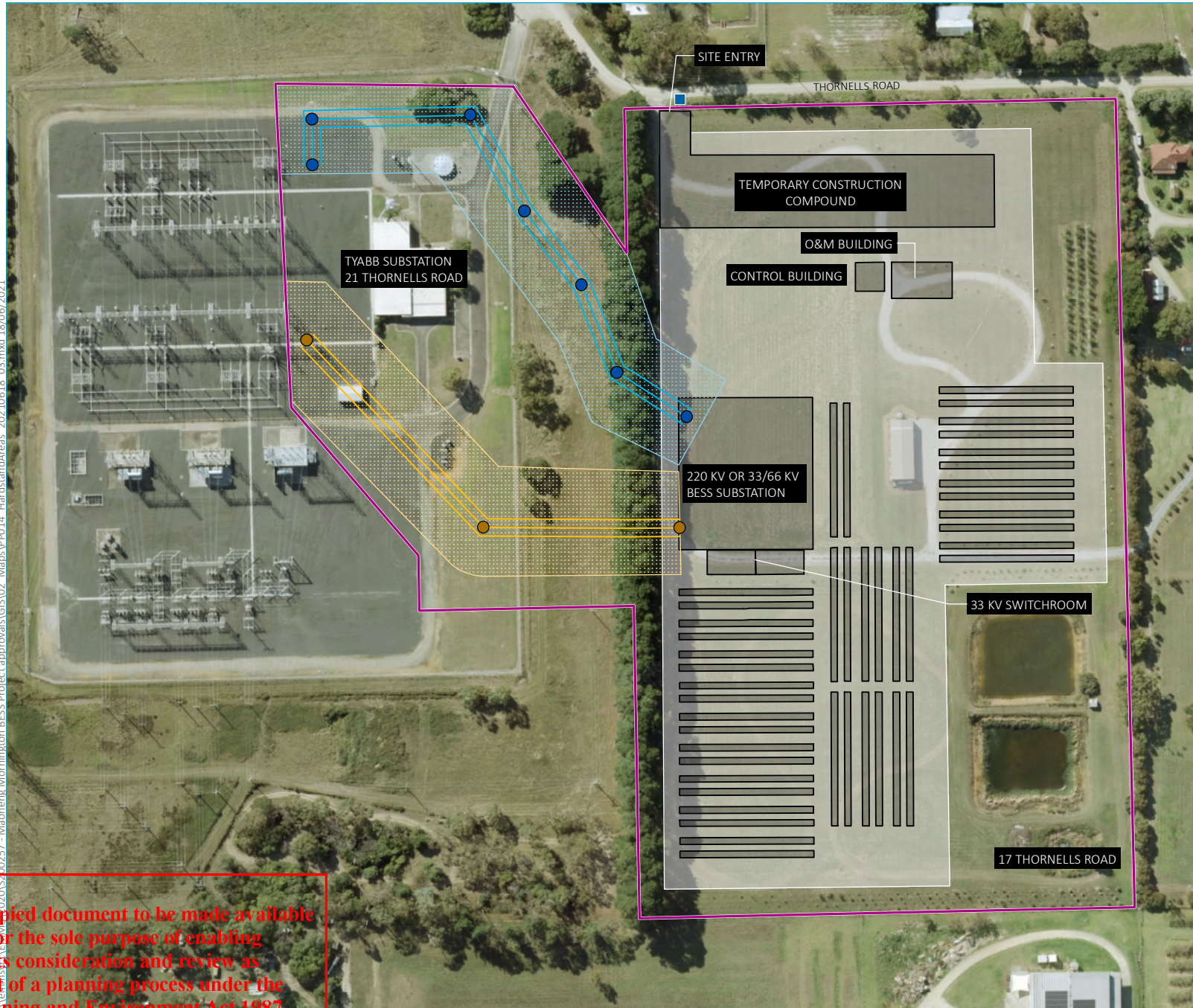


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Source: EMM (2021); Metromap (2021); Maoneng (2020); Hemisphere Design (2020); DELWP (2019); GAV (2011)

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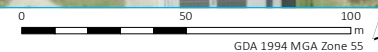
Vermsns\LE\Map\2020\2020\S2\00257 - Maoneng Mornington BESS Project approvals\GIS\02 Maps\PP014_HardstandAreas_20210618_03.mxd 18/06/2021



- KEY**
- Subject site
 - Proposed transmission pole
 - Proposed transmission tower
 - Coast Tea-tree
 - Surface property
 - Hardstand area
 - Semi-permeable area
 - Transmission line
 - Option 1 - 66 kV transmission line
 - Option 2 - 220 kV transmission line
 - Option 1 - 66 kV transmission line easement
 - Option 2 - 220 kV transmission line easement

Hardstand areas

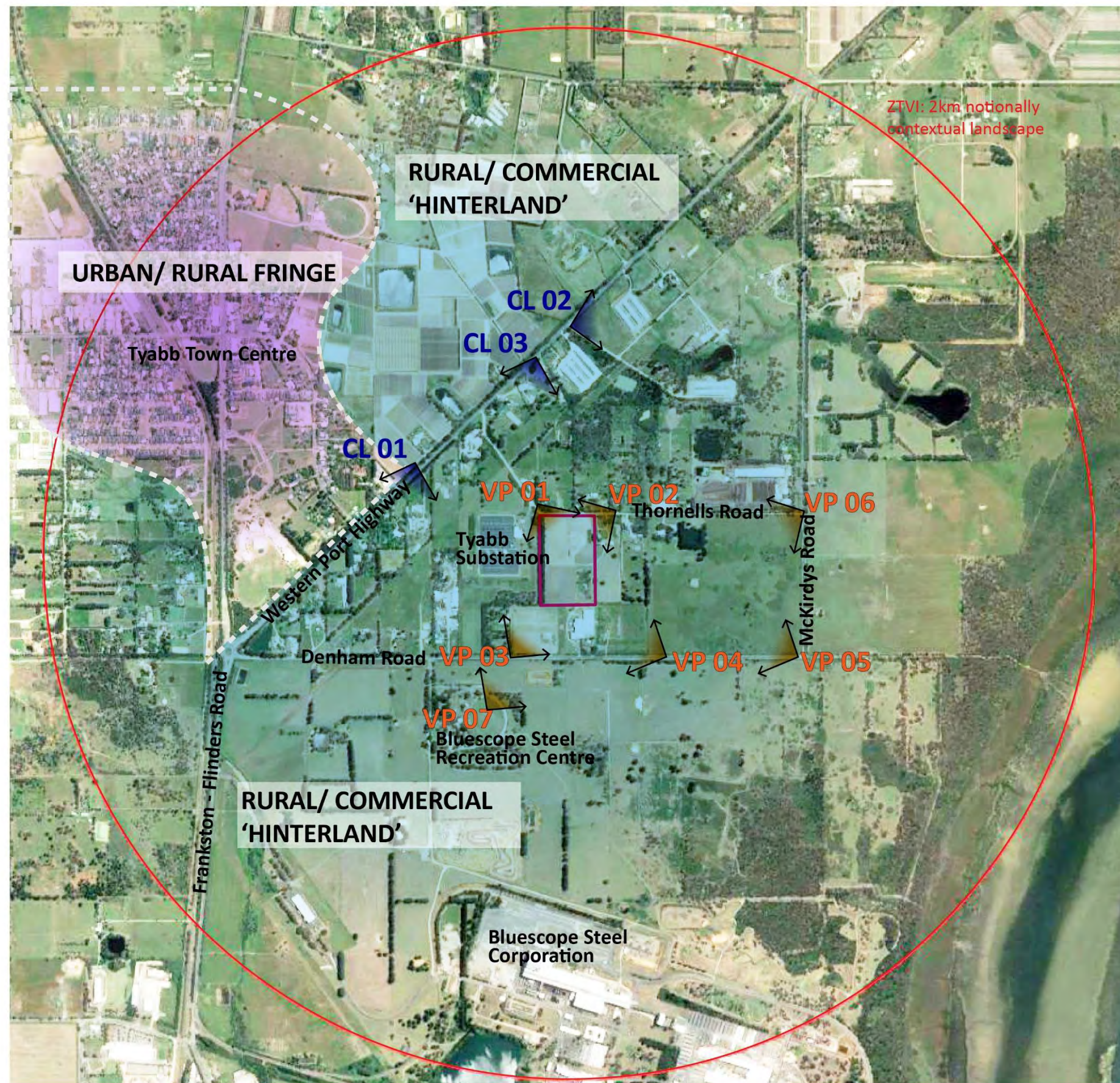
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Appendix K




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Source: EMM (2021); Metromap (2021); Meoneng (2020); LCrowfoot (2020); DELWP (2019); GA (2014)




LEGEND

**BESS Proposed Site**

**CL 01**
Contextual landscape view

**VP 01**
Viewpoint

**ZTVI**
Zone of Theoretical Visual Influence

Landscape Character description

URBAN/ RURAL FRINGE


RURAL/ COMMERCIAL 'HINTERLAND'

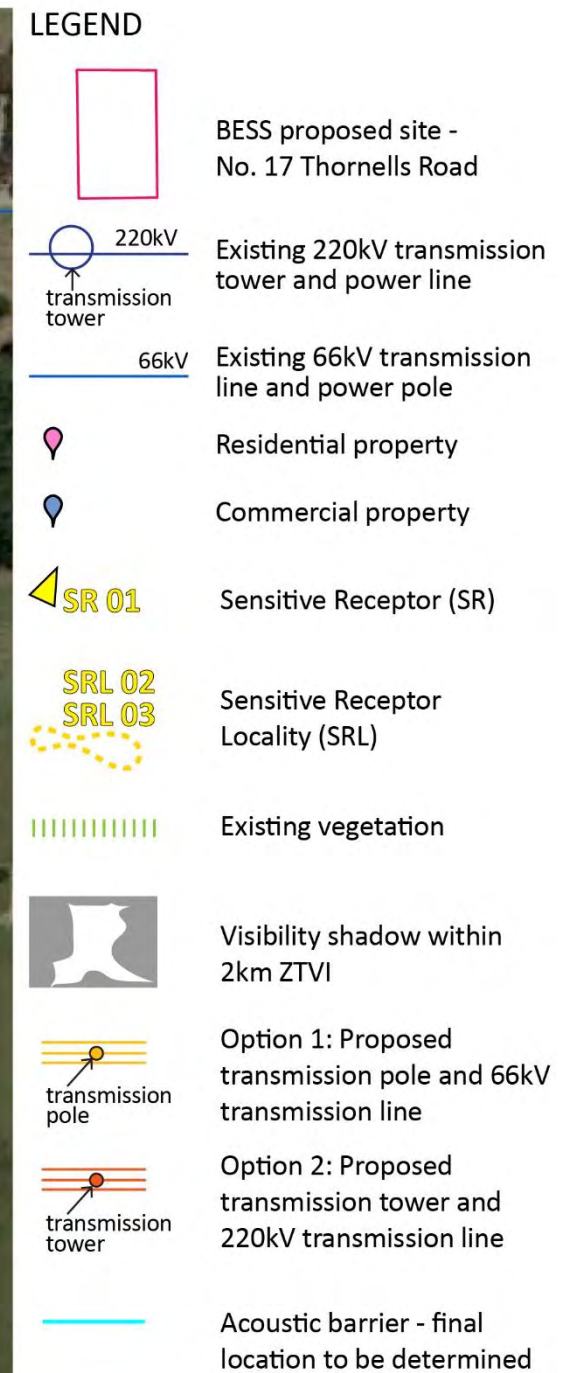
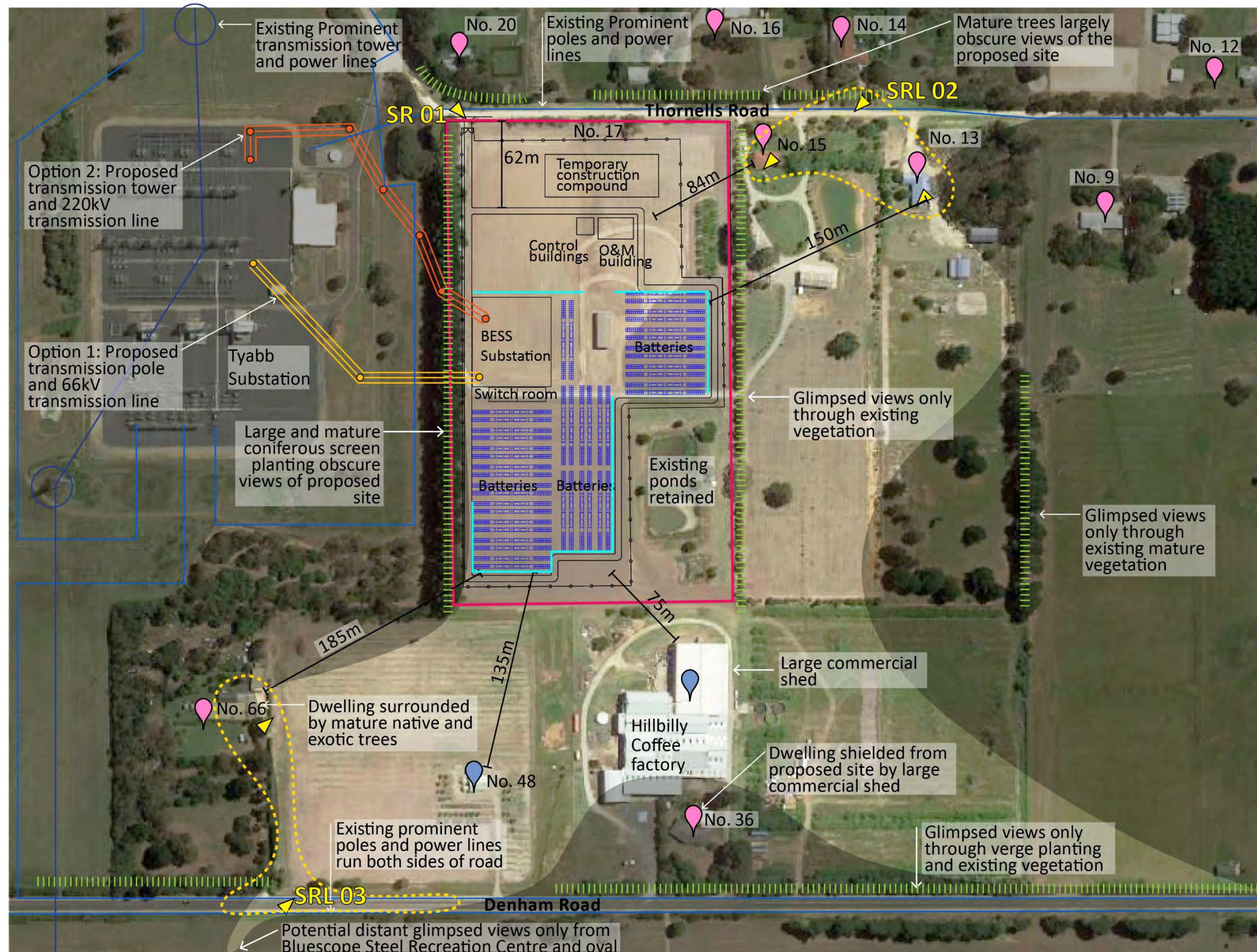
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TITLE		Contextual Landscape and Viewpoints		DWG NO	HD_X001_AD01	REVISION	A	SHEET NO	Sheet 1
PROJECT		Mornington Battery Energy Storage System (BESS) Project		DRAWN	SW	CHECKED	SRH	DATE	11/20

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P 08 8277 7640
E admin@hemispheredesign.com.au
www.hemispheredesign.com.au
ACN 114 503 936





TITLE Sensitive Receptors, Sensitive Receptor Locality and Visibility Shadow Map

DWG NO HD_X001_AD01

REVISION D

SHEET NO Sheet 2

PROJECT Mornington Battery Energy Storage System (BESS) Project

DRAWN SW

CHECKED SRH

DATE May 2021

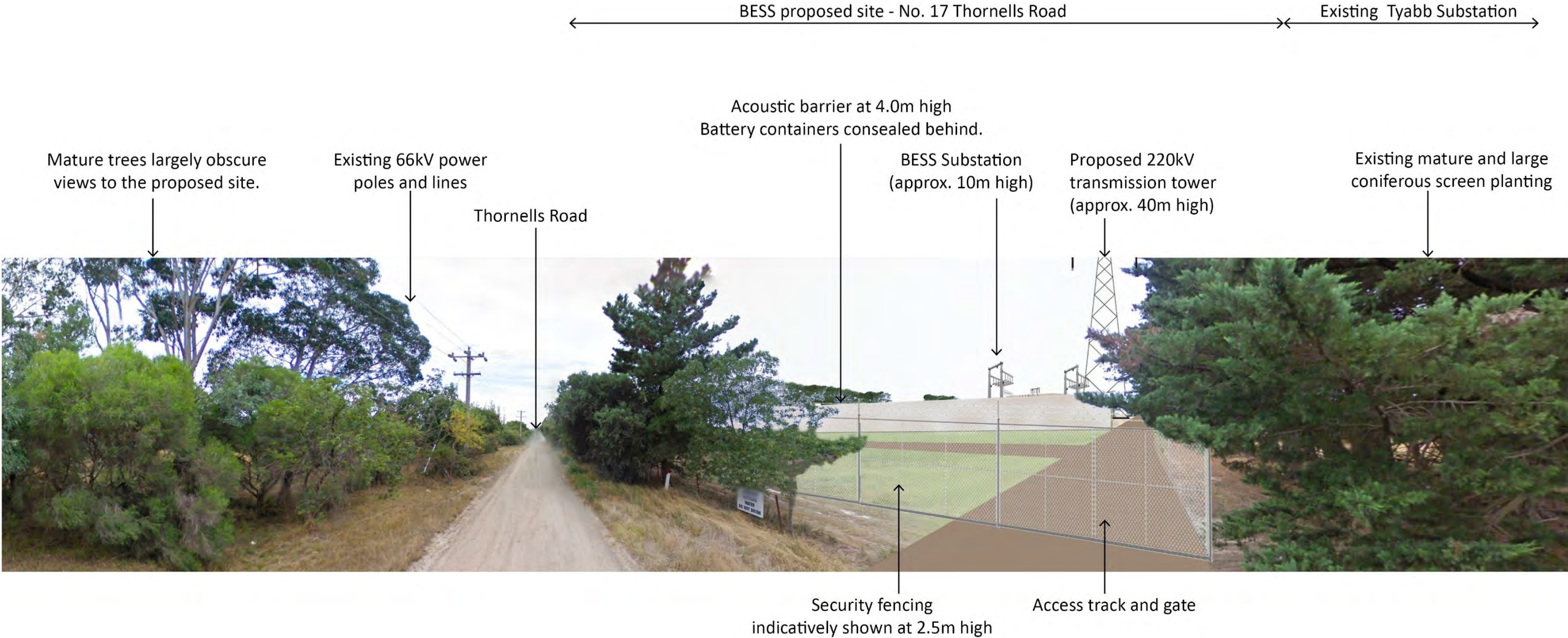
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HD Drawing 2: Sensitive Receptors, Sensitive Receptor Localities and Visibility Shadow Map

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Mornington Battery Energy Storage System (BESS) Project
Photomontage for Sensitive Receptor 01 (SR 01)

Drawing no: HD_X001 photomontage_SR 01 Revision: C Date: May 2021

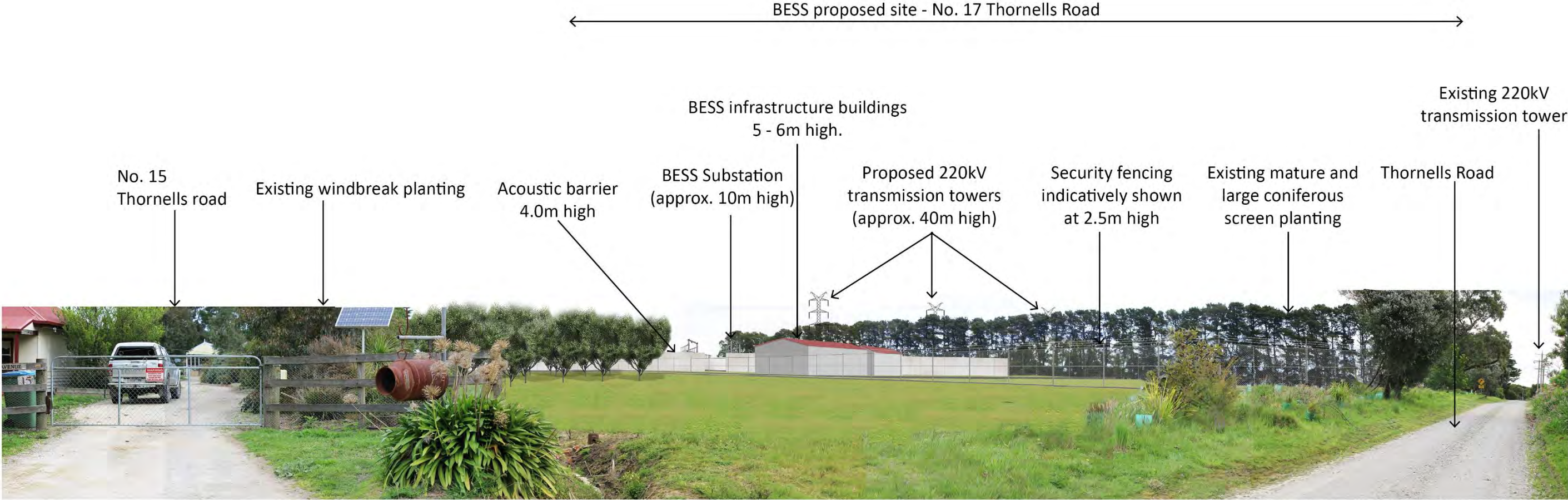


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HD Drawing 3: Photomontage for Sensitive Receptor 01

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Mornington Battery Energy Storage System (BESS) Project
Photomontage for Sensitive Receptor Locality 02 (SRL 02)

Drawing no: HD_X001 photomontage_SRL 02 Revision: C Date: May 2021



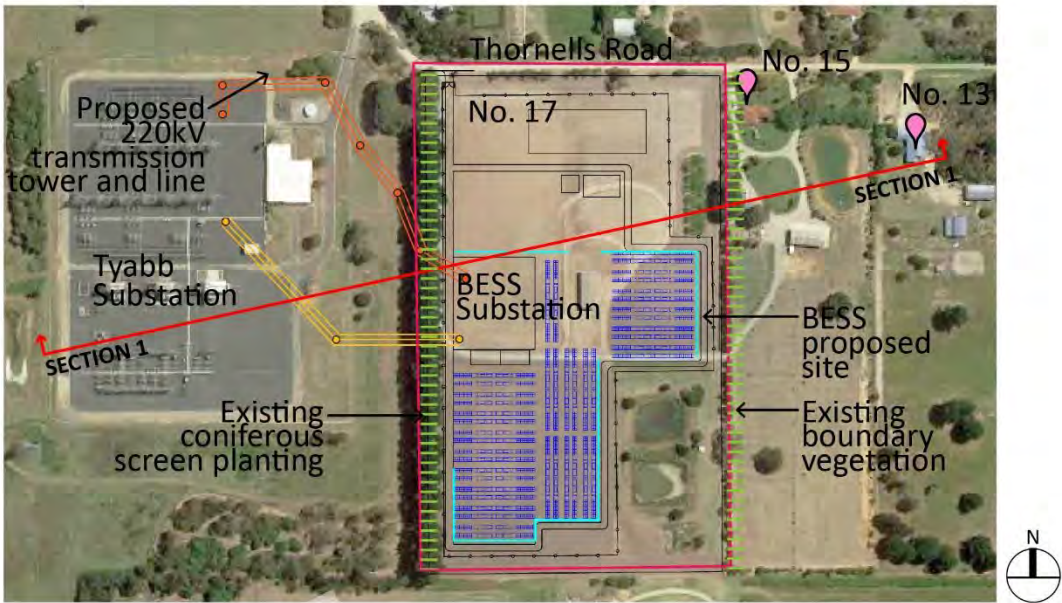
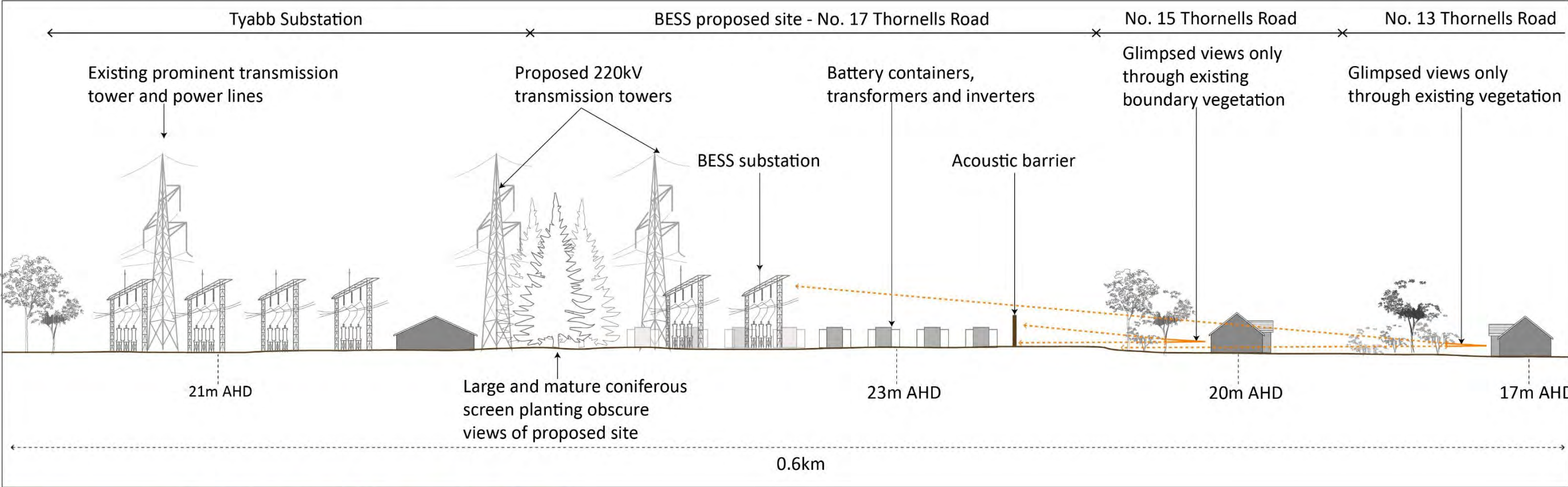
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HD Drawing 5: Photomontage for Sensitive Receptor Locality 02

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SECTION 1 - Sensitive Receptor Locality 02 (SRL 02)



MORNINGTON BATTERY ENERGY STORAGE SYSTEM (BESS) PROJECT
Built Form Visual Impact Analysis for Sensitive Receptor Locality 02 (SRL 02)

Drawing No: HD_X001_section 1 Revision: C Date: May 2021



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HD Drawing 6: Section for Sensitive Receptor Locality 02

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Table 4.3 - Sensitive Receptor Locality 03: No. 66 Denham Road	
<div><div>No. 66 Denham Road</div><div>Extensive tree and shrub planting</div><div>Less frequent boundary plantings</div><div>Power poles along Denham Road</div></div>	
Location	Along Denham Road adjacent No.66 Denham Road – typical also of viewpoints 03, 04, and 05 and viewpoint 07 (Blue Scope Steel Recreation Centre oval).
View directions	North east - east
Landscape and setting	<p>The landscape is considered to be of low to moderate scenic quality based upon the below.</p> <p>More expansive views are afforded where boundary plantings are less frequent, opening up the panorama across the distant horizon. Whilst a number locals may regard the prevailing landscape as one that offers an attractive setting it is the authors opinion that that the wider landscape is characterised through a somewhat monotonous vista bereft of meritorious visual incident, a view where the power poles along the linear road corridor, grey commercial sheds and the Hillbilly Coffee factory are prominent features. The western site boundary plantings of coniferous pines are the only features of note, the dense imposing form and colour drawing and capturing the eye of the observer as it sweeps across the planar landscape.</p> <p>From this location the dwelling within No 66 Denham Road is not visible, screened by extensive tree and shrub planting along the southern and eastern property boundary.</p>
Distance from Project Site(s)	Approximately 250m to nearest site boundary.

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