This document is marked *Limited* as some of the systems at this site cannot be identified

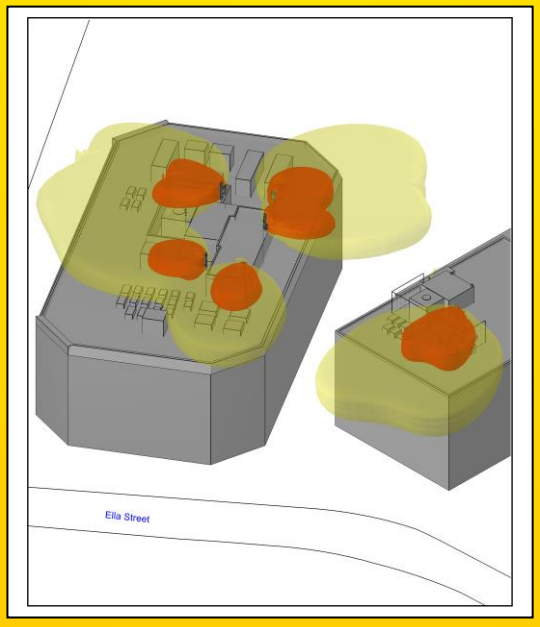
LIMITED

EME Guide for Site Safety

RFNSA Site No: 2065015
Document Issue No: 07
Document Issue Date: 13/01/2021

Address:
39 Herbert St
ARTARMON
NSW 2064

This evaluation <u>does not consider all</u> of the systems operating at this Radiocommunications facility. The mobile carriers' equipment however, has been evaluated against the applicable Australian Standard.



This EME Guide has been prepared by: Radhaz Consulting Pty. Ltd.

An Important Message to people accessing this building or structure

There are radiocommunications antennas operating on this building or structure. The antennas on this building or structure produce a form of energy known as electromagnetic energy (EME).

You should not access Exclusion Zones, which are areas close to the antennas.

This EME guide is endorsed by AMTA and the MCF as a standard for EME Site Safety Documentation.

The Radiocommunications facility cited below is unable to be declared COMPLIANT with the applicable Australian Standard due to some unidentified radio systems. **The Mobile Carriers' equipment, and other included radio services have been evaluated against, and are compliant to the applicable Australian Standard.**

Visitors to this site shall note that EME Safe Work Procedures apply.

DO NOT STAND IN FRONT OF ANTENNAS

DO NOT ACCESS RED AND YELLOW EXCLUSION ZONES

This document will show Exclusion Zones around the antennas, don't enter these areas. The latest version of this EME Guide is accessible at www.rfnsa.com.au or from the facility owner, the mobile carrier, or radio service operators occupying the site.

Exclusion zones are defined by the Australian EME Standard "ARPANSA Radiation Protection Standard - Maximum Exposure Levels to Radiofrequency Fields (RPS3)."

Make sure you view all the Exclusion Zone drawings so you get a complete understanding of the site.

Red Zone = Exclusion Zone. No access without confirmed transmitter power reduction or transmitter shutdown.

Yellow Zone = Exclusion Zone. Limited access to specially trained personnel (RF Workers).

White Zone = General access

Note - This EME Guide replaces the Radio Communications Site Management Book (RCSMB).

This Document is Uncontrolled when printed. See www.rfnsa.com.au for the current issue

1. Be aware of these Access Controls on site

If you need to access this site contact the site owner, manager or the Carriers and Radio Service Operators occupying the site.

Access Control Procedures at Site

Structure 1

- Locked Rooftop door.
- "RF Hazard Area Beyond this Point" warning signs are installed at roof access door, on the wall adjacent to the access ladder to roof level 2 and AC Units in North West visible to approaching personnel.
- "General Public RF Hazard Boundary beyond this point" warning signs are installed at AC Unit in South East and on top of the ladder to Cooling Tower visible to approaching personnel.

The General Public limit resulting from antennas mounted on the rooftop does not encroach into accessible areas as there is more than 17.7m clearance from the exclusion zone to ground level and less than 2.1m clearance to lower rooftop. Anyone accessing the rooftop need to ensure that they do not enter the EME exclusion zones without having the antennas powered down. If access into the exclusion zones is required, please contact the antenna operator listed in this guide to arrange a service outage prior to commencement of work. Safe Work Procedures must be followed including the use of personal RF monitors.

Structure 2

- The access to the rooftop is through locked access door.
- "RF Hazard Area Beyond this Point" warning sign is installed at the plant screening adjacent to Vodafone ODU visible to approaching personnel.

The General Public limit resulting from antennas mounted on the rooftop does not encroach into accessible areas as there is more than 18.1m clearance from the exclusion zone to ground level. Anyone accessing the rooftop need to ensure that they do not enter the EME exclusion zones without having the antennas powered down. If access into the exclusion zones is required, please contact the antenna operator listed in this guide to arrange a service outage prior to commencement of work. Safe Work Procedures must be followed including the use of personal RF monitors.

2. EME Safe Work Procedures to be followed at this site

1. Be appropriately trained
2. Receive a safety briefing from Site Manager
3. Do not stand in front of antennas
4. Observe safety signs
5. Ensure you view the current version of this EME Guide (www.rfnsa.com.au)
6. Check site drawings & antenna exclusion zones
7. Check for site updates - see caution sheets
8. Use a safe work method statement
9. Use a personal RF monitor
10. Questions - ask for help

3. Carriers and Radio Service Operators on site

Structure 1

Carrier/RSO	Antenna	Contact No.
Optus	8-13	NSAC: 1800 505 777 (Optus)
Vodafone	1,2,5,6,7	NMC: 1800 683 683 (Vodafone)

Structure 2

Carrier/RSO	Antenna	Contact No.
Vodafone	3,4	NMC: 1800 683 683 (Vodafone)

4. Site owner or manager contact details

Name	Role	Company	Contact Details
Michael Lonsdale	Site Manager	-	0448 943 998

Please Note: The site owner or manager contact information is current at the Issue Date but may change without notice to the Mobile Carriers or Radio Service Operators occupying the site.

Important Information about this EME Guide

Site safety information including exclusion zone diagrams in this EME Guide have an “Issue date” incorporated on each page and are correct for that date.

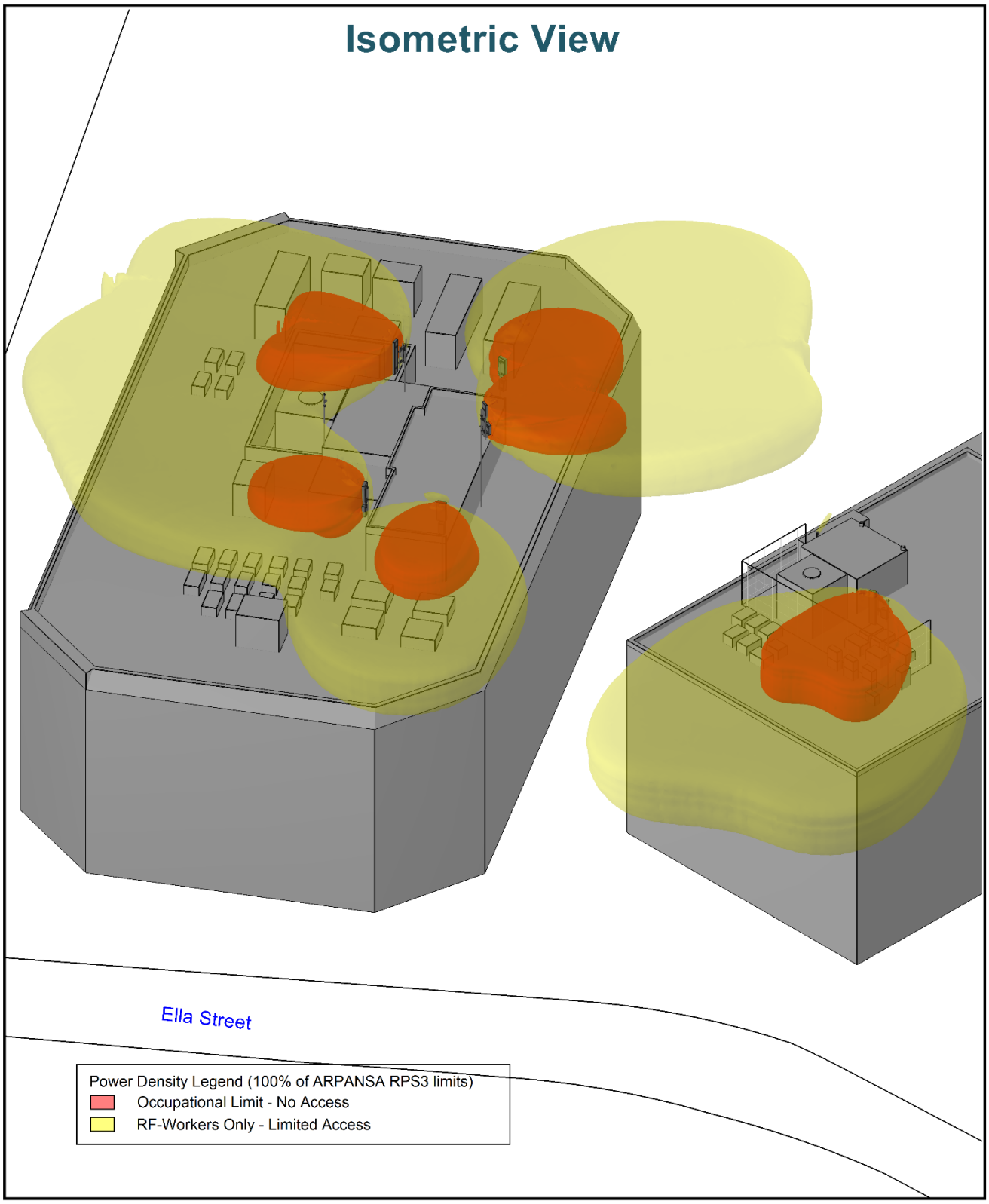
To ensure that you have the most current site safety information available, check the on-line version of this EME Guide using the RFNSA number reference found on the front cover.

On-line Site Information

MCF National Site Archive www.rfnsa.com.au

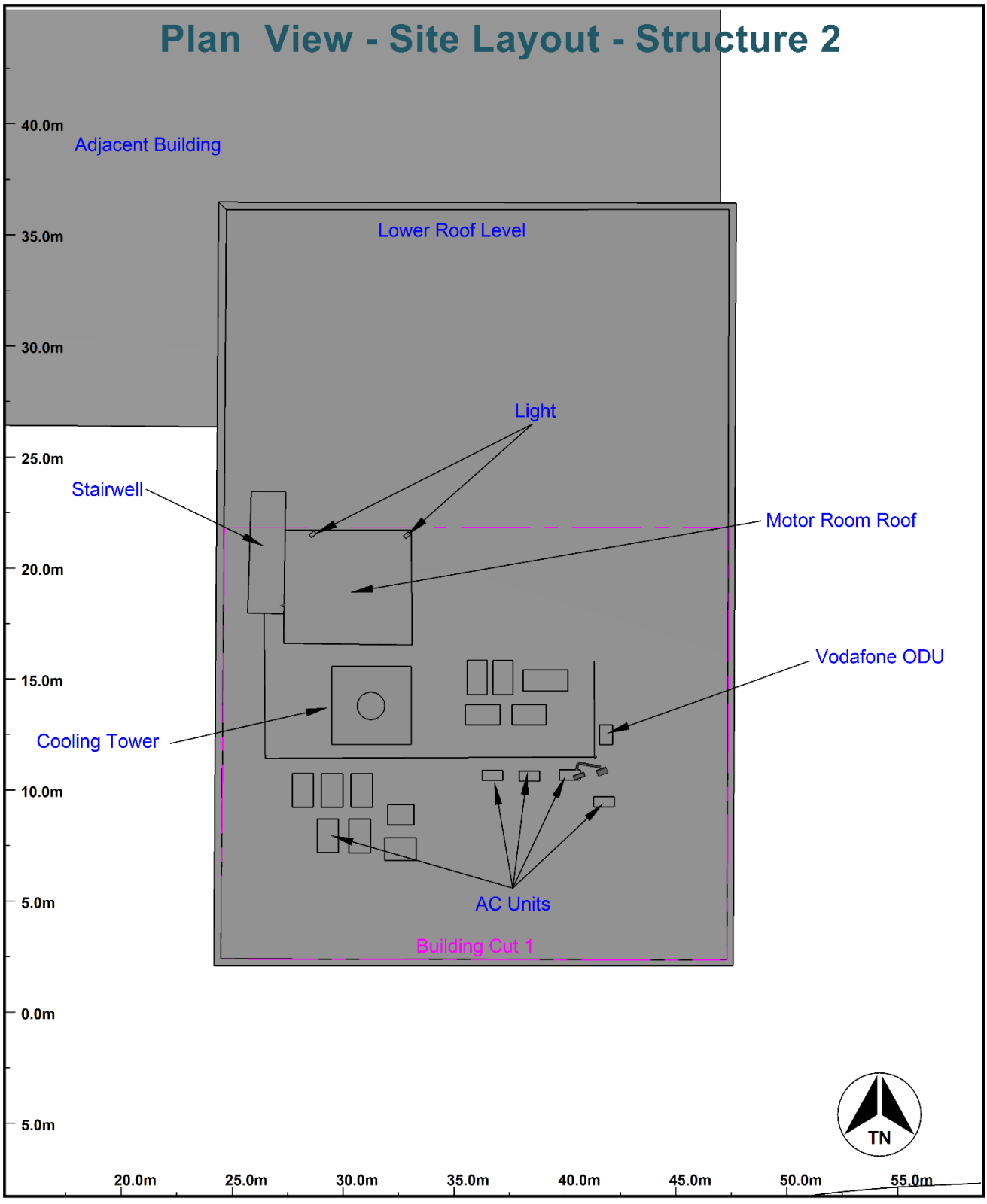
Mobile Site Safety www.mobilesitesafety.com

Section 1: Site Exclusion Zone Summary



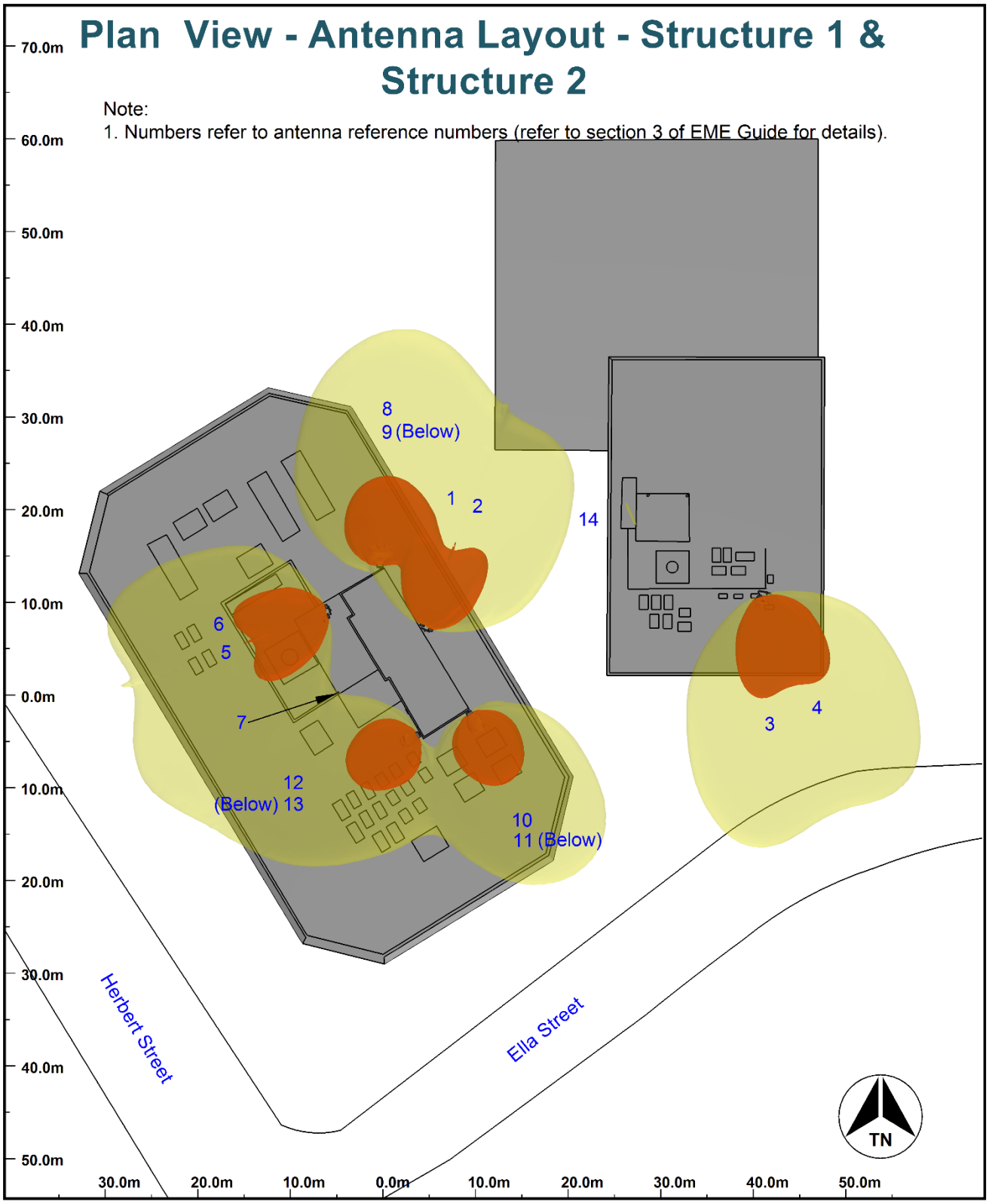
Section 2: Detailed Site Exclusion Zone Drawings


Plan View - Site Layout - Structure 1
40.0m
30.0m
20.0m
10.0m
0.0m
10.0m
20.0m
30.0m
Building Cut 1
Building Cut 2
Building Cut 3
AC Units
Optus Equipment Shelter
LMR Level
Roof Level 2
Roof Level 1
Cooling Tower
Roof Access Door
Access Ladder
AC Units
Vodafone Equipment Shelter
AC Units
Lower Roof Level
TN
30.0m
20.0m
10.0m
0.0m
10.0m
20.0m


Plan View - Site Layout - Structure 2
40.0m
Adjacent Building
35.0m
Lower Roof Level
30.0m
Light
25.0m
Stairwell
Motor Room Roof
20.0m
Vodafone ODU
15.0m
Cooling Tower
10.0m
AC Units
5.0m
Building Cut 1
0.0m
5.0m
TN
20.0m
25.0m
30.0m
35.0m
40.0m
45.0m
50.0m
55.0m

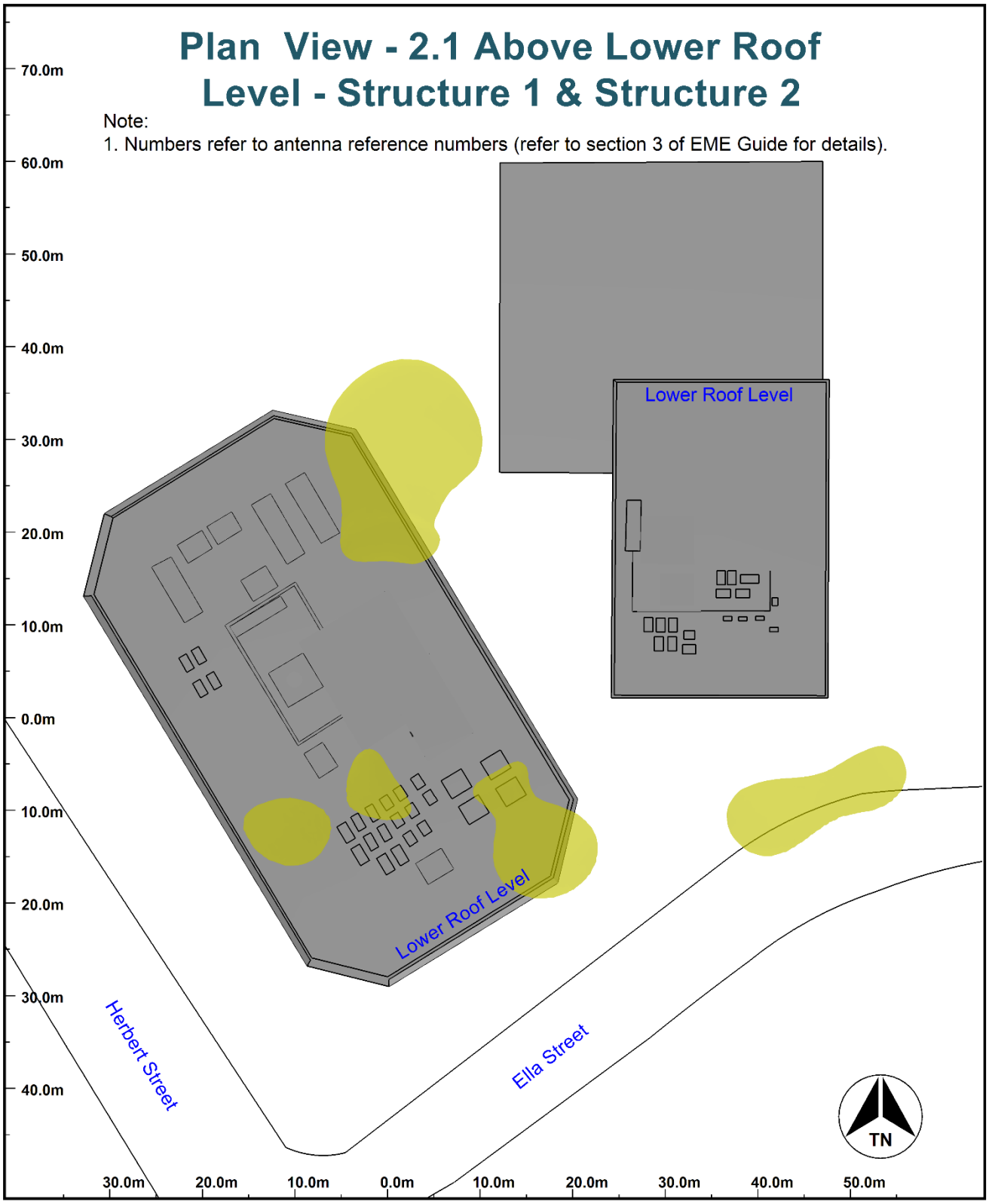
Plan View - Antenna Layout - Structure 1 & Structure 2

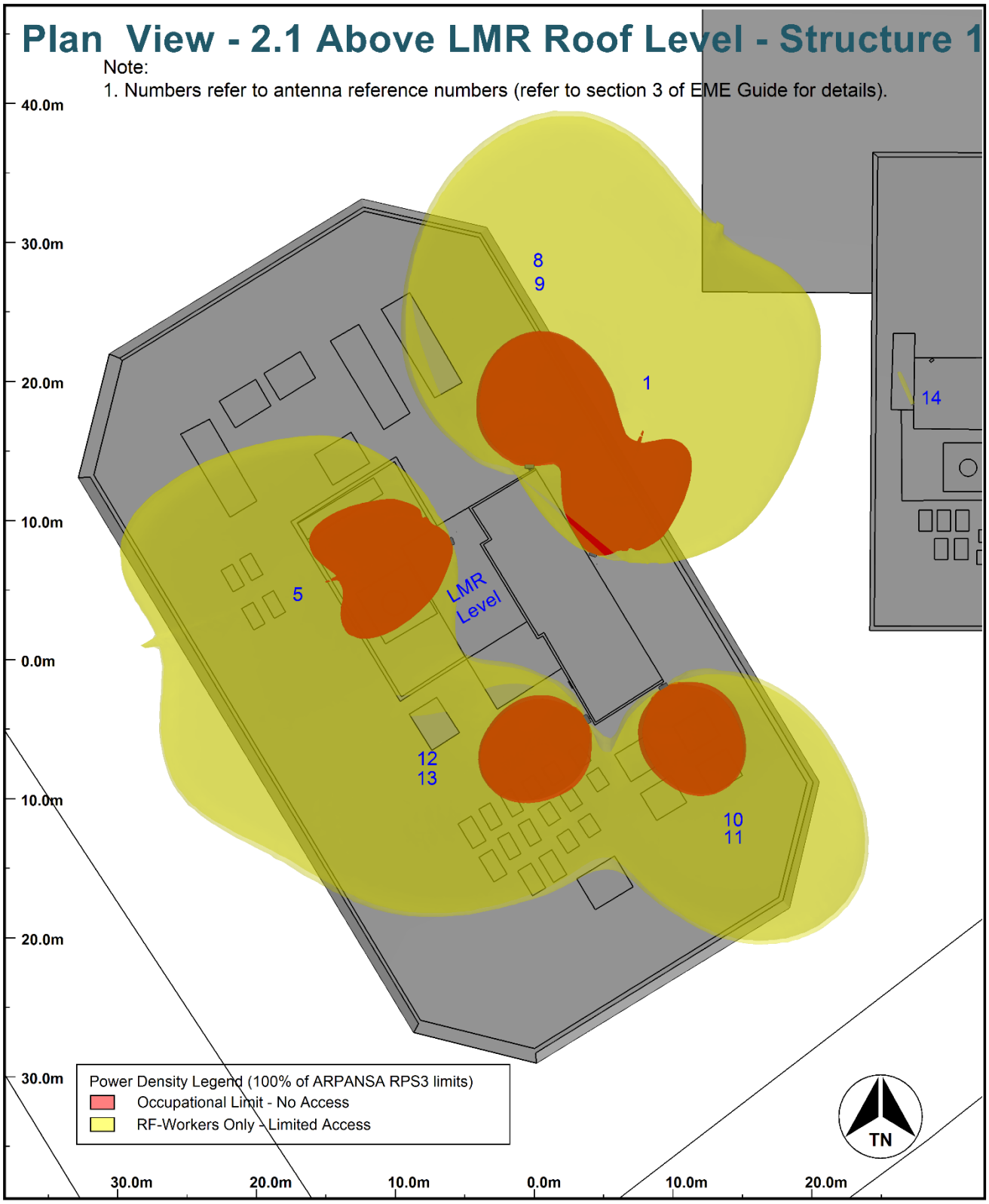
Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).



Plan View - 2.1 Above Lower Roof Level - Structure 1 & Structure 2

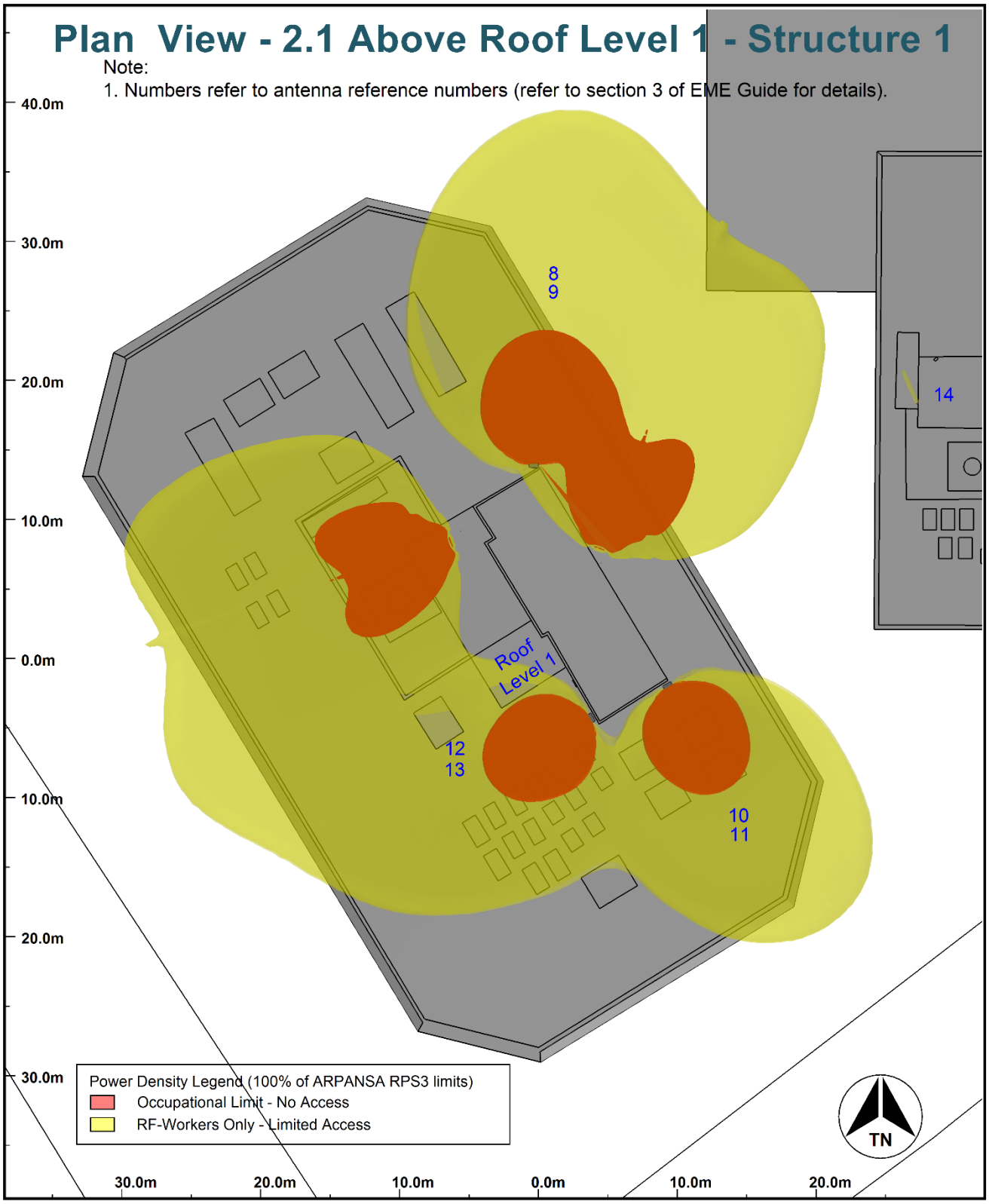
Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).




Plan View - 2.1 Above LMR Roof Level - Structure 1
Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).
40.0m
30.0m
20.0m
10.0m
0.0m
10.0m
20.0m
30.0m
8
9
1
14
5
LMR
Level
12
13
10
11
Power Density Legend (100% of ARPANSA RPS3 limits)
Occupational Limit - No Access
RF-Workers Only - Limited Access
TN
30.0m
20.0m
10.0m
0.0m
10.0m
20.0m

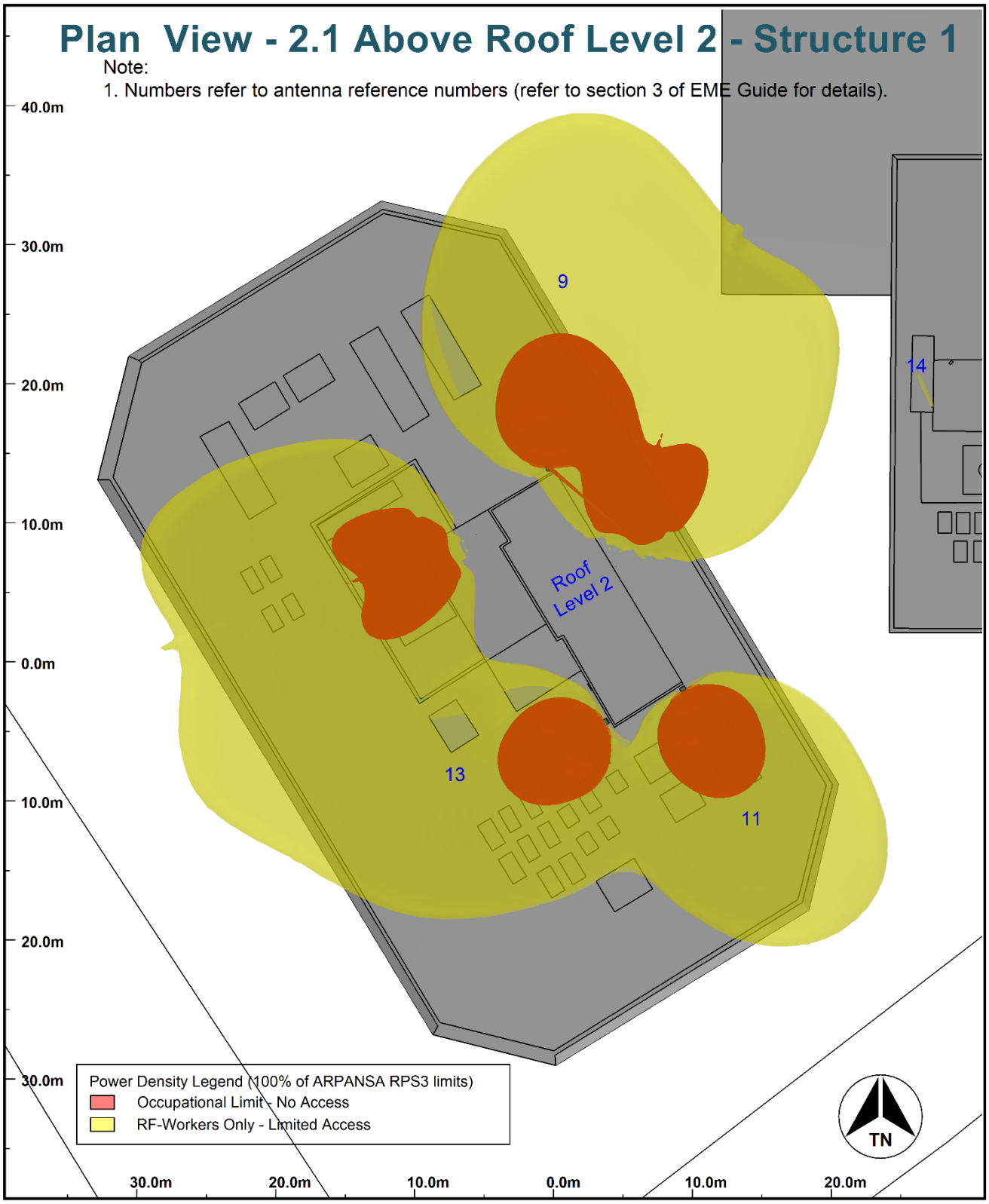
Plan View - 2.1 Above Roof Level 1 - Structure 1

Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).



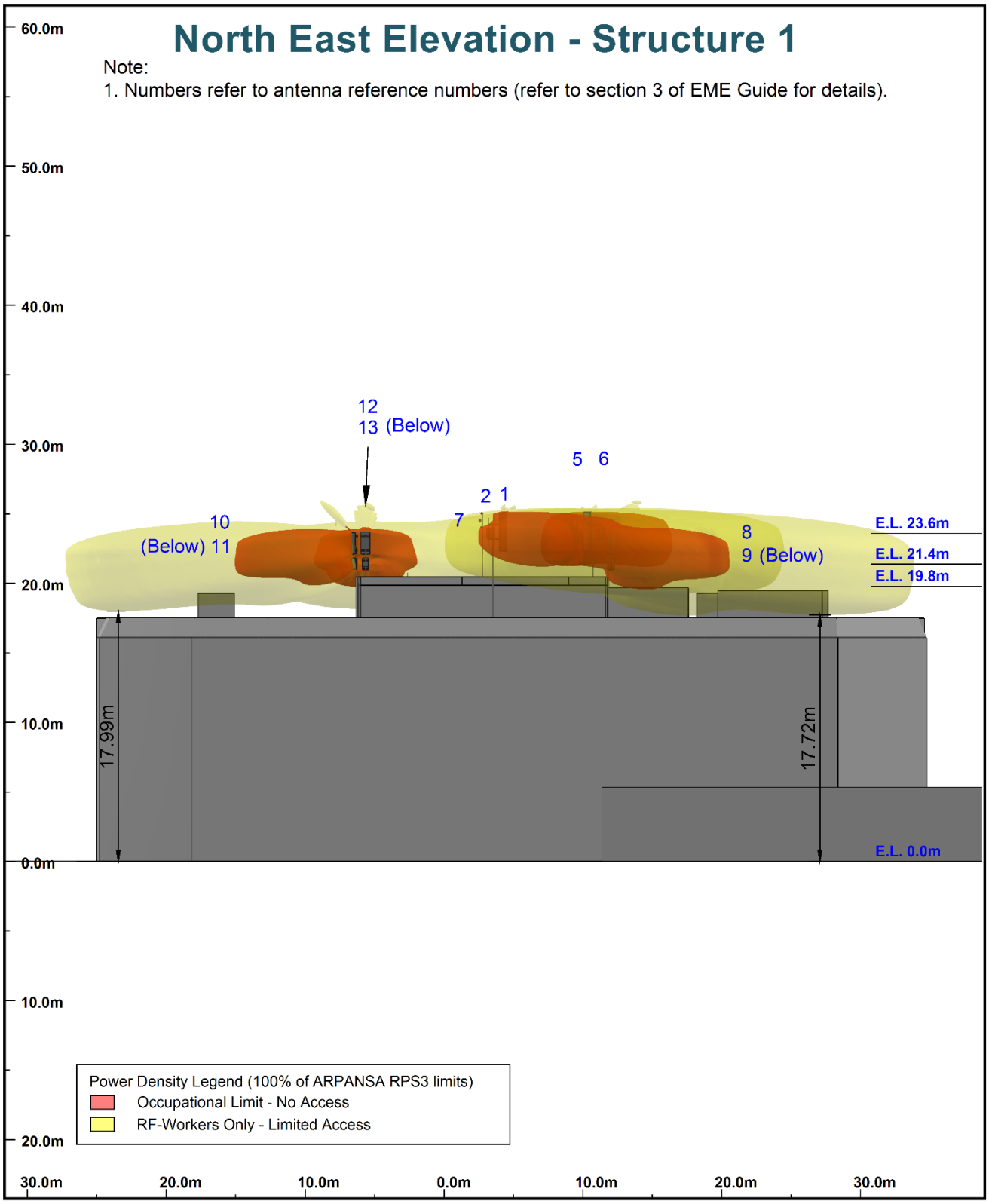
Plan View - 2.1 Above Roof Level 2 - Structure 1

Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).



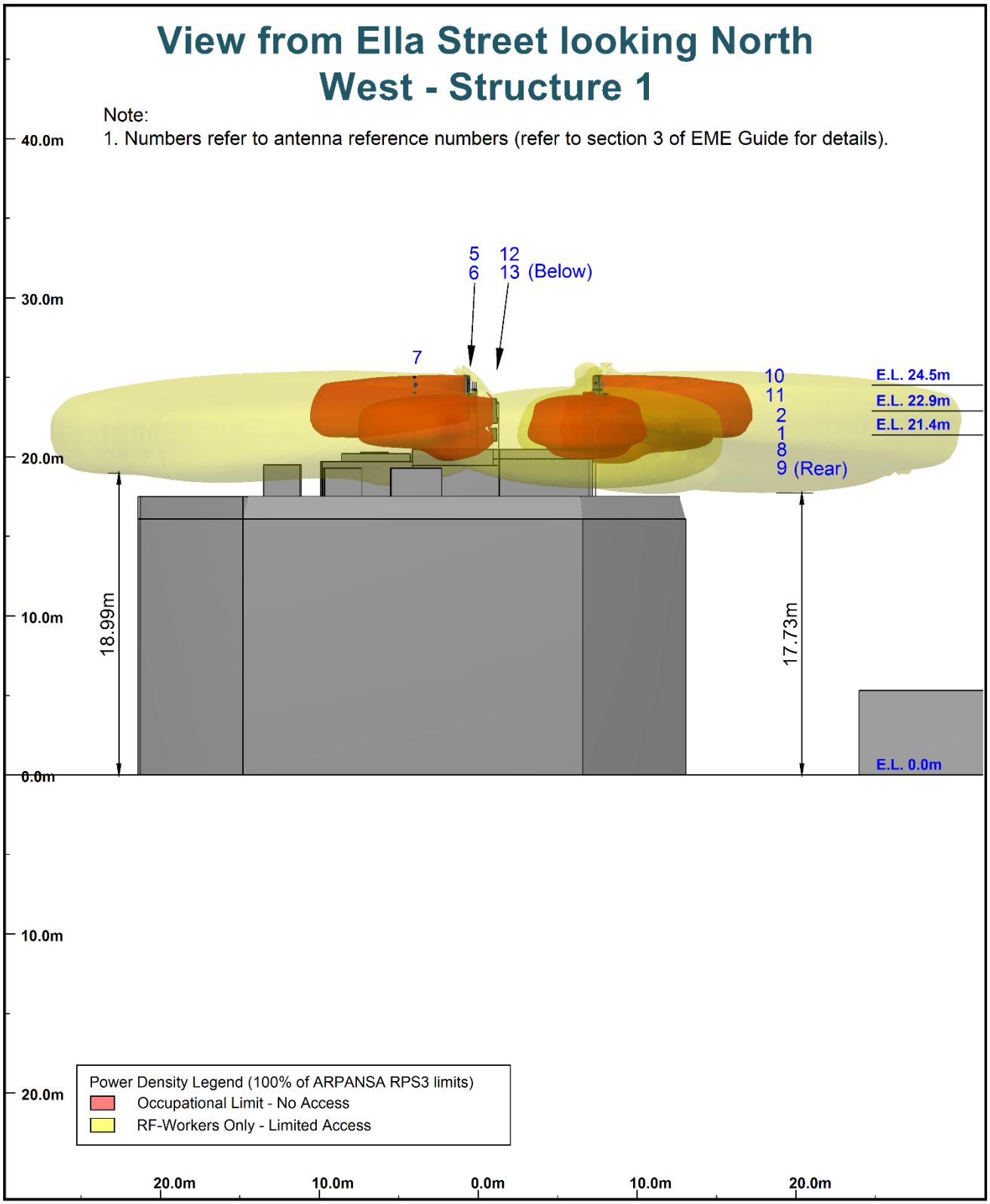
North East Elevation - Structure 1

Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).

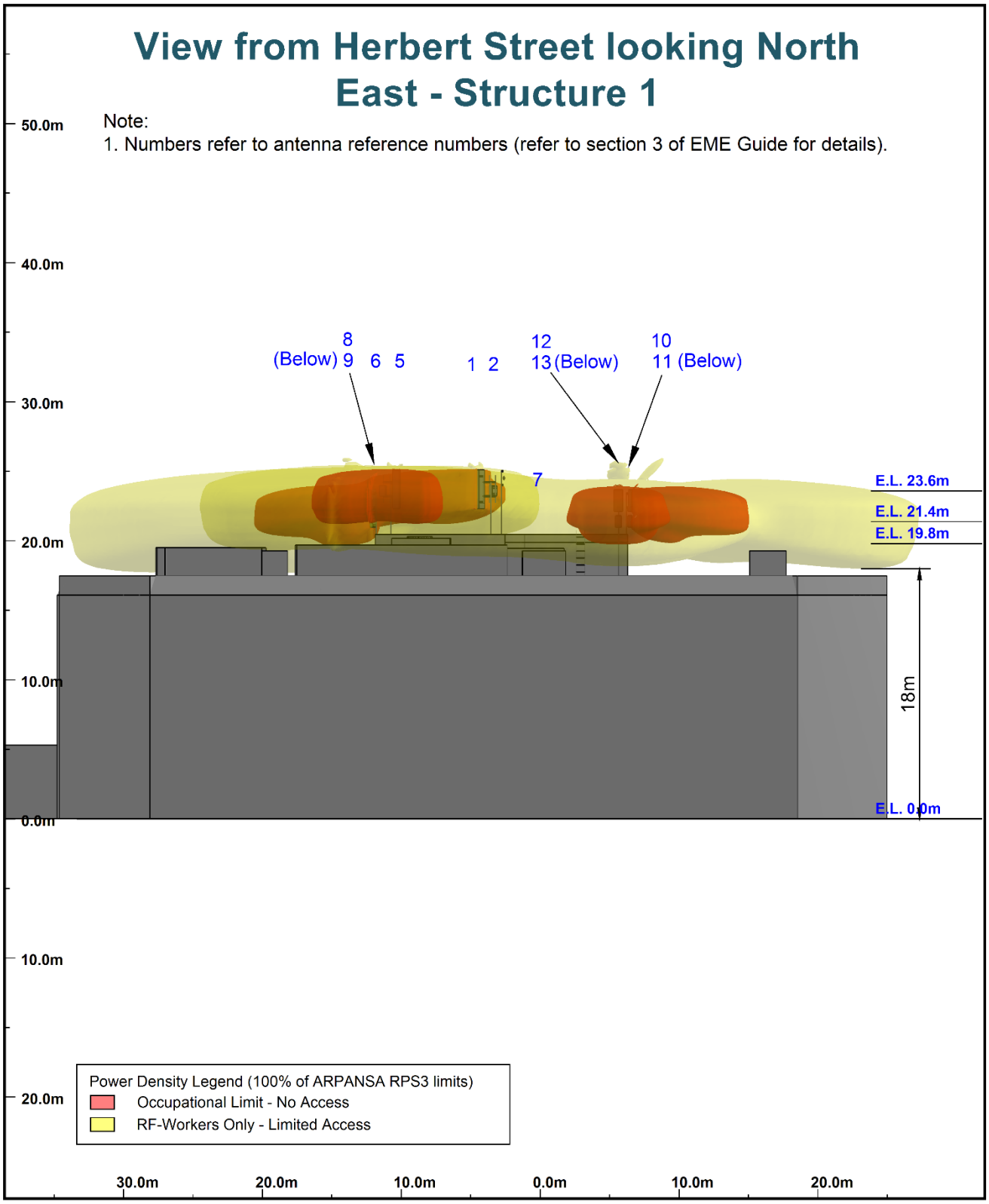


View from Ella Street looking North West - Structure 1

Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).

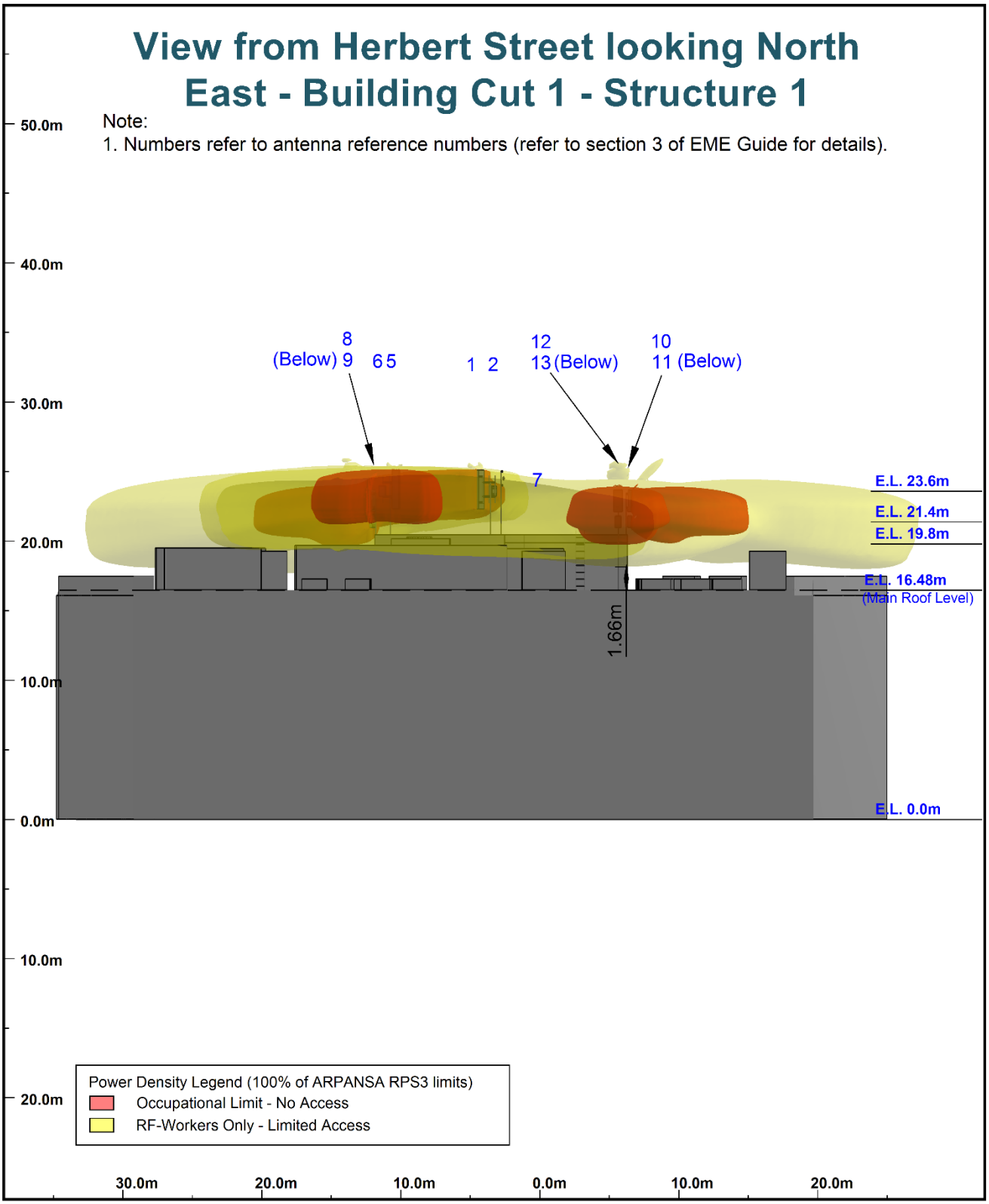


View from Herbert Street looking North East - Structure 1



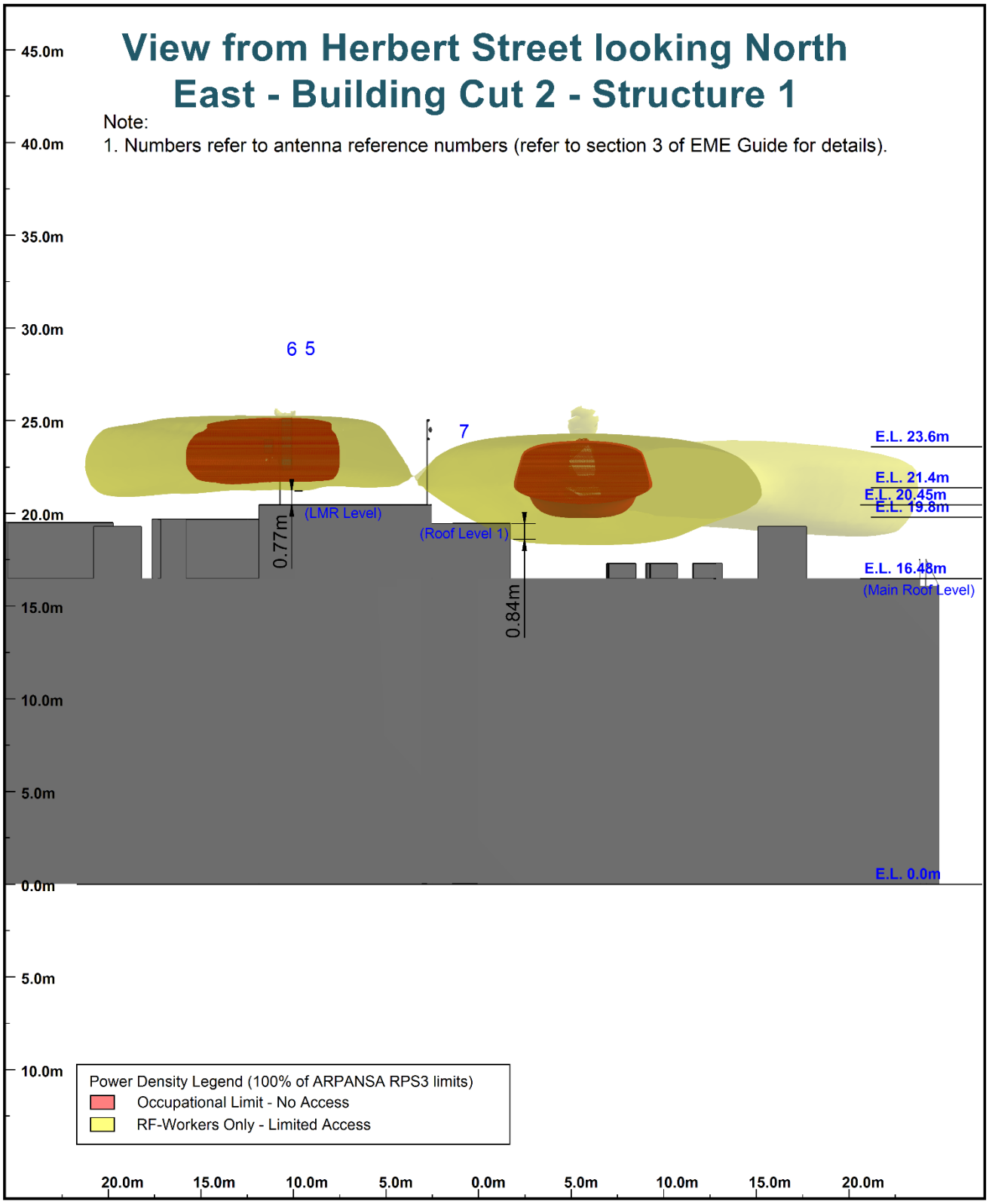
View from Herbert Street looking North East - Building Cut 1 - Structure 1

Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).



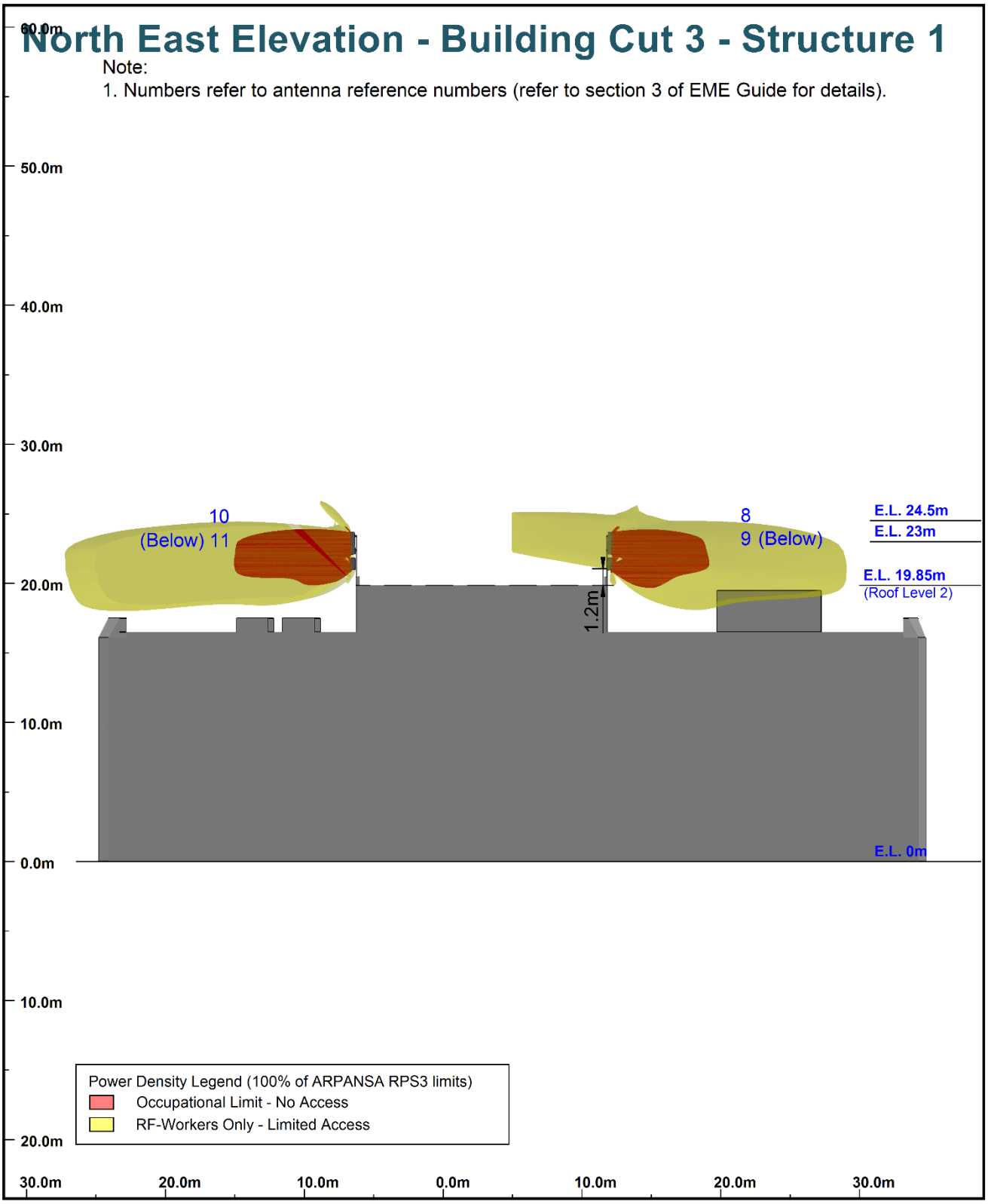
View from Herbert Street looking North East - Building Cut 2 - Structure 1

Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).



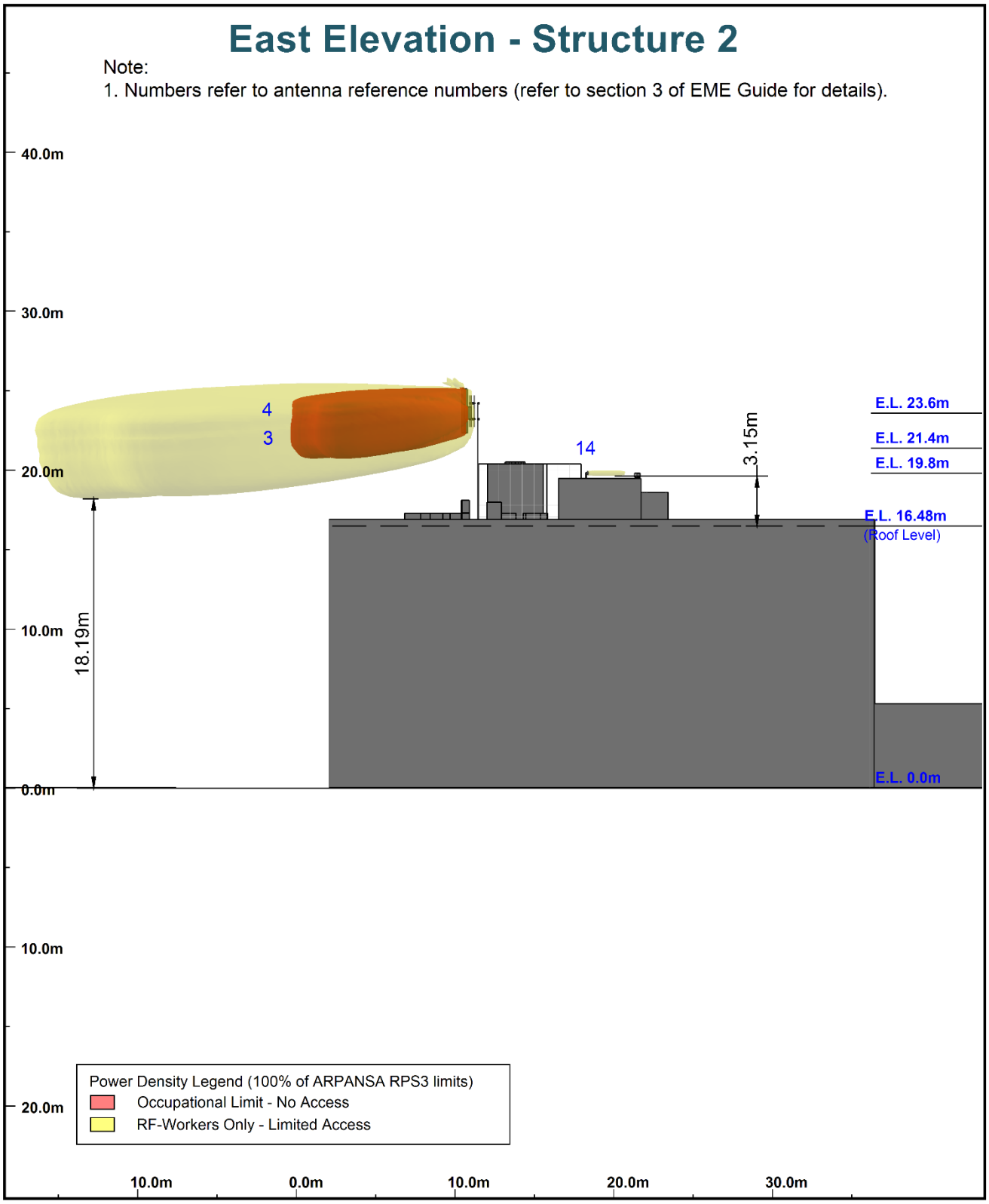
North East Elevation - Building Cut 3 - Structure 1

Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).

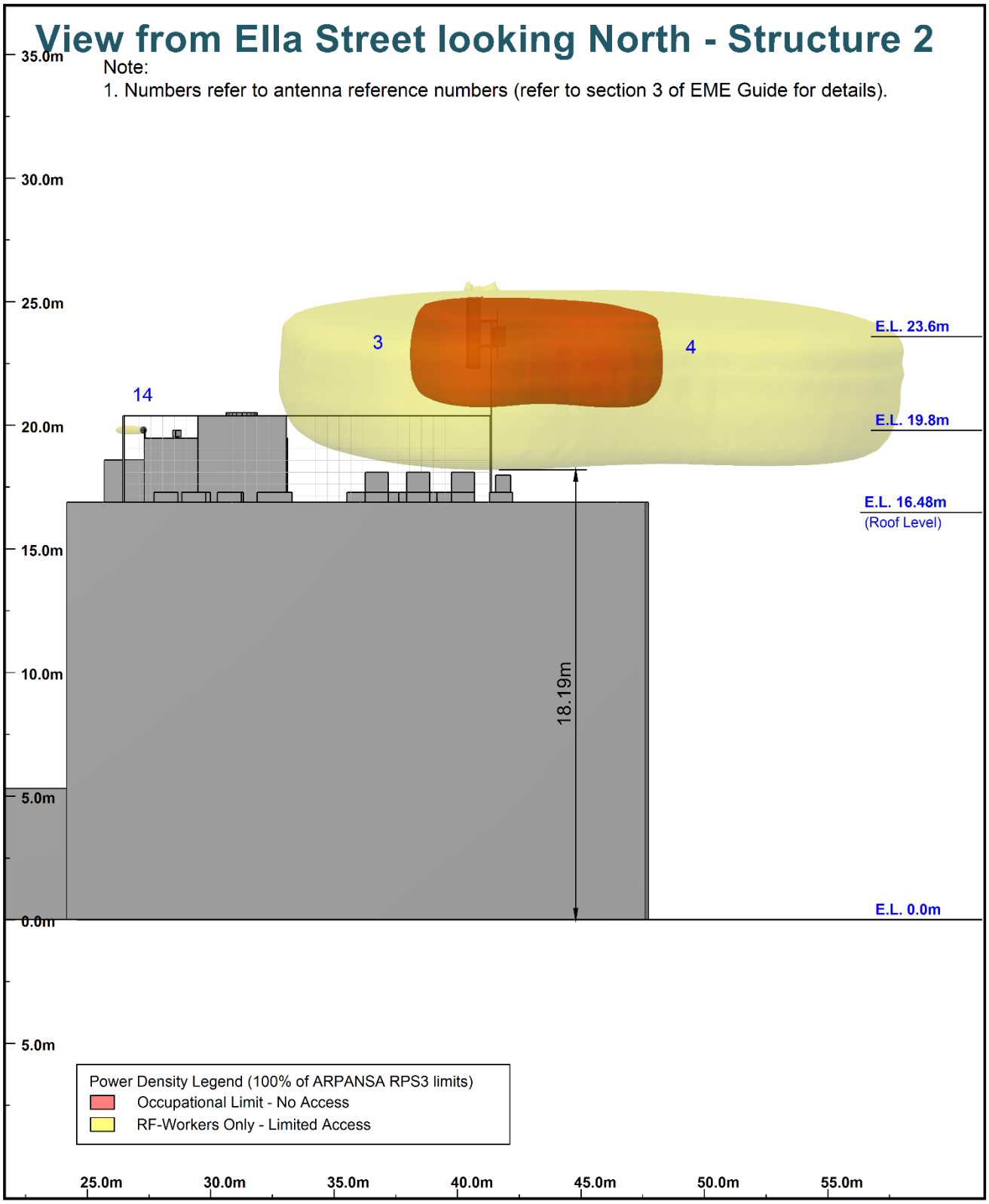


East Elevation - Structure 2

Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).

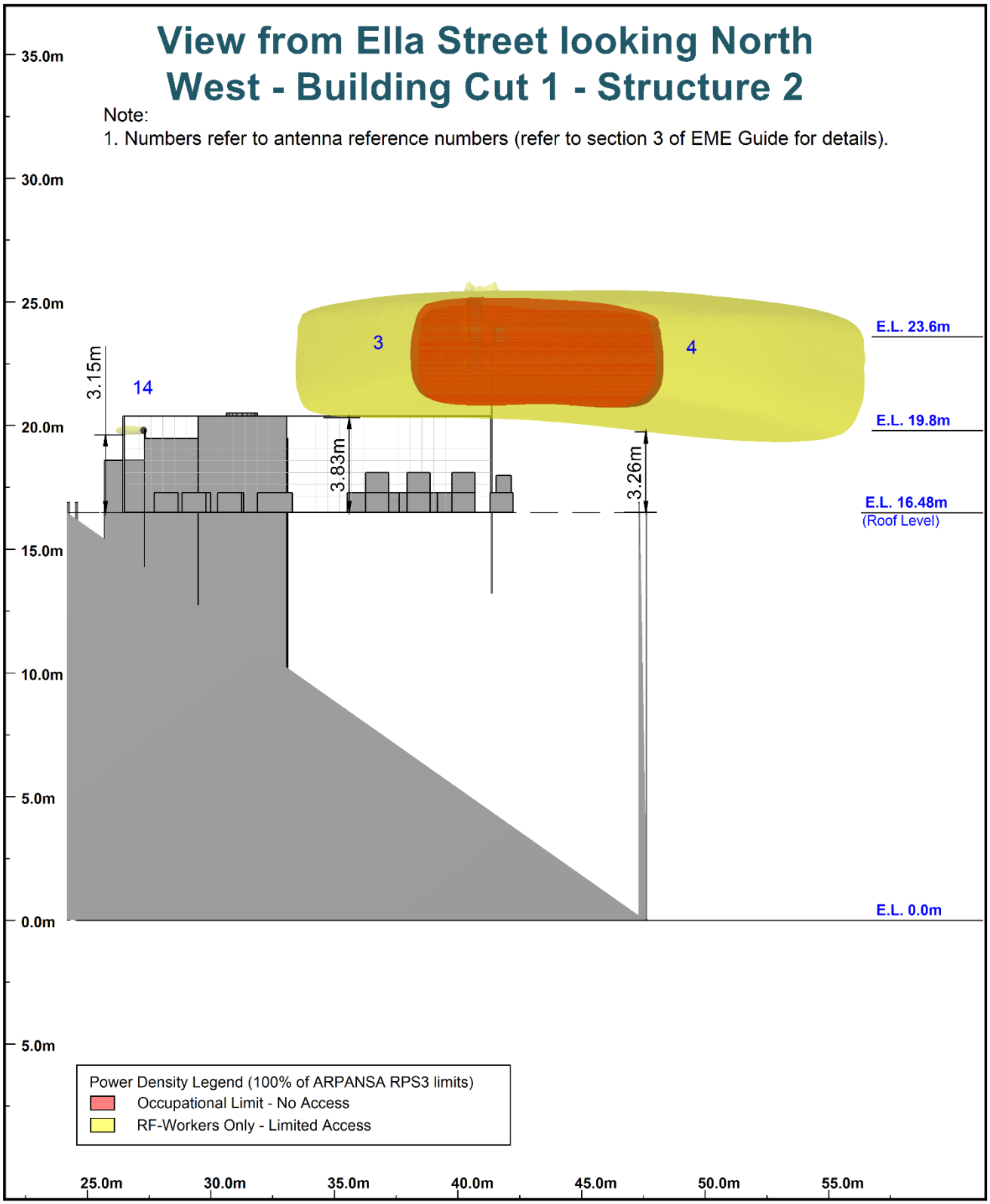


View from Ella Street looking North - Structure 2



View from Ella Street looking North West - Building Cut 1 - Structure 2

Note:
1. Numbers refer to antenna reference numbers (refer to section 3 of EME Guide for details).



Section 3: Equipment Installed at this Site

Equipment List

Structure 1

Diagram Ref	Owner Ref	Owner	Type/Make/Model	Height (m)	Bearing (°)	Mech. Tilt (°)	Elect. Tilt (°)	Pol	System/Sector	Power* (W)
1	11-V	Vodafone	Tongyu T2040L3R011 Panel	23.7	20	0	2-8	Dual Slant	LTE700 - Sector 1 LTE850 - Sector 1 NB-IOT900 - Sector 1 WCDMA900 - Sector 1	50.1+50.1 50.1+50.1 15.8+0 50.1+50.1
							2-8	Dual Slant	NB-IOT900 - Sector 1	0+15.8
							2-8	Dual Slant	LTE1800 - Sector 1 LTE2100 - Sector 1	50.1+50.1 50.1+50.1
							2-8	Dual Slant	LTE1800 - Sector 1 LTE2100 - Sector 1	50.1+50.1 50.1+50.1
							2-8	Dual Slant	LTE1800 - Sector 1 LTE2100 - Sector 1	50.1+50.1 50.1+50.1
							2-8	Dual Slant	LTE1800 - Sector 1 LTE2100 - Sector 1	50.1+50.1 50.1+50.1
2	12-V	Vodafone	Nokia AEQP Panel	23.59	20	0	6	Dual Slant	NR3500 - Sector 1	50.1+0

5	31-V	Vodafone	Tongyu T2040L3R011 Panel	23.7	250	0	2-8	Dual Slant	LTE700 - Sector 3 LTE850 - Sector 3 NB-IOT900 - Sector 3 WCDMA900 - Sector 3	50.1+50.1 50.1+50.1 15.8+0 50.1+50.1
							2-8	Dual Slant	NB-IOT900 - Sector 3	0+15.8
							2-8	Dual Slant	LTE1800 - Sector 3 LTE2100 - Sector 3	50.1+50.1 50.1+50.1
							2-8	Dual Slant	LTE1800 - Sector 3 LTE2100 - Sector 3	50.1+50.1 50.1+50.1
							2-8	Dual Slant	LTE1800 - Sector 3 LTE2100 - Sector 3	50.1+50.1 50.1+50.1
							2-8	Dual Slant	LTE1800 - Sector 3 LTE2100 - Sector 3	50.1+50.1 50.1+50.1
6	32-V	Vodafone	Nokia AEQP Panel	23.59	250	0	6	Dual Slant	NR3500 - Sector 3	50.1+0
7	-	Vodafone	ANDREW VHLP1-38 SOLID PARABOLIC	24.5	112.34	0	0	Vertical	Link	0.06
8	11-O	Optus	Argus R2V4PX306R Panel	22.88	0	2	2-10	Dual Slant	LTE700 - Sector 1	39.8+39.8
							2-10	Dual Slant	LTE700 - Sector 1 WCDMA900 - Sector 1	39.8+39.8 31.6+31.6
							2-8	Dual Slant	LTE1800 - Sector 1 WCDMA2100 - Sector 1 LTE2600 - Sector 1 LTE2300 - Sector 1	50.1+50.1 31.6+0 31.6+31.6 31.6+31.6
							2-8	Dual Slant	LTE1800 - Sector 1 LTE2600 - Sector 1 LTE2300 - Sector 1	50.1+50.1 31.6+31.6 31.6+31.6
							2-8	Dual Slant	LTE2100 - Sector 1	31.6+31.6
							2-8	Dual Slant	LTE2100 - Sector 1	31.6+31.6
9	12-O	Optus	Ericsson AIR6488 Panel	21.38	0	5	3	Dual Slant	NR3500 - Sector 3	50.1+0

10	21-O	Optus	Argus R2V4PX306R Panel	22.88	150	2	0-10	Dual Slant	LTE700 - Sector 2	39.8+39.8
							0-10	Dual Slant	LTE700 - Sector 2 WCDMA900 - Sector 2	39.8+39.8 31.6+31.6
							0-10	Dual Slant	LTE1800 - Sector 2 WCDMA2100 - Sector 2 LTE2600 - Sector 2 LTE2300 - Sector 2	50.1+50.1 31.6+0 31.6+31.6 31.6+31.6
							0-10	Dual Slant	LTE1800 - Sector 2 LTE2600 - Sector 2 LTE2300 - Sector 2	50.1+50.1 31.6+31.6 31.6+31.6
							0-10	Dual Slant	LTE2100 - Sector 2	31.6+31.6
							0-10	Dual Slant	LTE2100 - Sector 1	31.6+31.6
11	22-O	Optus	Ericsson AIR6488 Panel	21.38	150	0	3	Dual Slant	NR3500 - Sector 3	50.1+0
12	31-O	Optus	Argus R2V4PX306R Panel	22.88	240	2	2-8	Dual Slant	LTE700 - Sector 3	39.8+39.8
							2-8	Dual Slant	LTE700 - Sector 3 WCDMA900 - Sector 3	39.8+39.8 31.6+31.6
							2-8	Dual Slant	LTE1800 - Sector 3 WCDMA2100 - Sector 3 LTE2600 - Sector 3 LTE2300 - Sector 3	50.1+50.1 31.6+0 31.6+31.6 31.6+31.6
							2-8	Dual Slant	LTE1800 - Sector 3 LTE2600 - Sector 3 LTE2300 - Sector 3	50.1+50.1 31.6+31.6 31.6+31.6
							2-8	Dual Slant	LTE2100 - Sector 3	31.6+31.6
							2-8	Dual Slant	LTE2100 - Sector 3	31.6+31.6
13	32-O	Optus	Ericsson AIR6488 Panel	21.38	240	2	3	Dual Slant	NR3500 - Sector 3	50.1+0

* Maximum power into the antenna per port

Structure 2

Diagram Ref	Owner Ref	Owner	Type/Make/Model	Height (m)	Bearing (°)	Mech. Tilt (°)	Elect. Tilt (°)	Pol	System/Sector	Power* (W)
3	21-V	Vodafone	Tongyu T2040L3R011 Panel	23.7	160	0	2-10	Dual Slant	LTE700 - Sector 2 WCDMA900 - Sector 2 LTE850 - Sector 2 NB-IOT900 - Sector 2	50.1+50.1 50.1+0 50.1+50.1 15.8+0
							2-10	Dual Slant	LTE700 - Sector 2 WCDMA900 - Sector 2 LTE850 - Sector 2 NB-IOT900 - Sector 2	50.1+50.1 0+50.1 50.1+50.1 0+15.8
							2-10	Dual Slant	LTE1800 - Sector 2 LTE2100 - Sector 2	50.1+50.1 50.1+50.1
							2-10	Dual Slant	LTE1800 - Sector 2 LTE2100 - Sector 2	50.1+50.1 50.1+50.1
							2-10	Dual Slant	LTE1800 - Sector 2 LTE2100 - Sector 2	50.1+50.1 50.1+50.1
							2-10	Dual Slant	LTE1800 - Sector 2 LTE2100 - Sector 2	50.1+50.1 50.1+50.1
4	22-V	Vodafone	Nokia AEQP Panel	23.59	160	1	6	Dual Slant	NR3500 - Sector 2	50.1+0
14	-	BigAir	ANDREW VHLP1-18 Parabolic	19.8	336.39	0	0	Vertical	BigAir Link	0.224

* Maximum power into the antenna per port

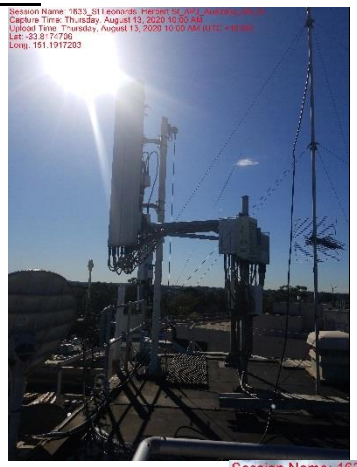
- Optus antenna height was adjusted based on site photos

Note: There are unknown antennas mounted on the structure 1 rooftop however the owner and nature of these services cannot be identified. As such they are not included in this assessment and the assessment covers listed antennas only.

Section 4: Site Specific Documents

Site Photographs taken from RFNSA website for assessment.

Structure 1

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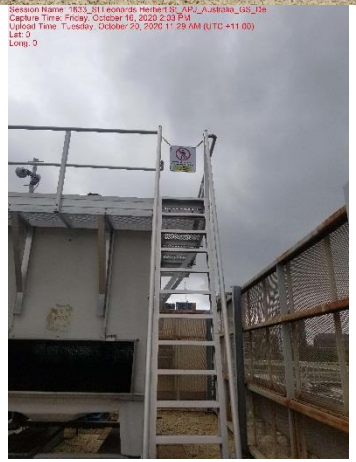
Upload Time: Tuesday, October 20, 2020 11:29 AM (UTC +11:00)
Lat: 0
Long: 0


WARNING
REMAIN WITHIN WALKWAYS
BE USED ONLY BY PERSONNEL USING THE ANTI-FALL DEVICE & WHO HAVE GAINED PERMISSION FOR ACCESS
RF Hazard Area
Beyond this Point
Contact Facility Manager




RF Hazard Area
Beyond this Point
Consult Site Management Book
www.rfnsa.com.au
Contact Facility Manager
Bio Medical Devices may be adversely affected
This is a telecommunications facility. For information about this site visit: www.rfnsa.com.au
Or contact the facility manager.
NSA Site Number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Upload Time: Tuesday, October 20, 2020 11:30 AM (UTC +11:00)
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Structure 2