

A person using Connell Wagner drawings and other data accepts the risk of:

1. using the drawings and other data in electronic form without requesting and checking them for accuracy against the original hard copy versions,
2. using the drawings or other data for any purpose not agreed to in writing by Connell Wagner.

Client:

1

	Projekt
--	---------

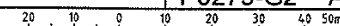
Drawing Title:

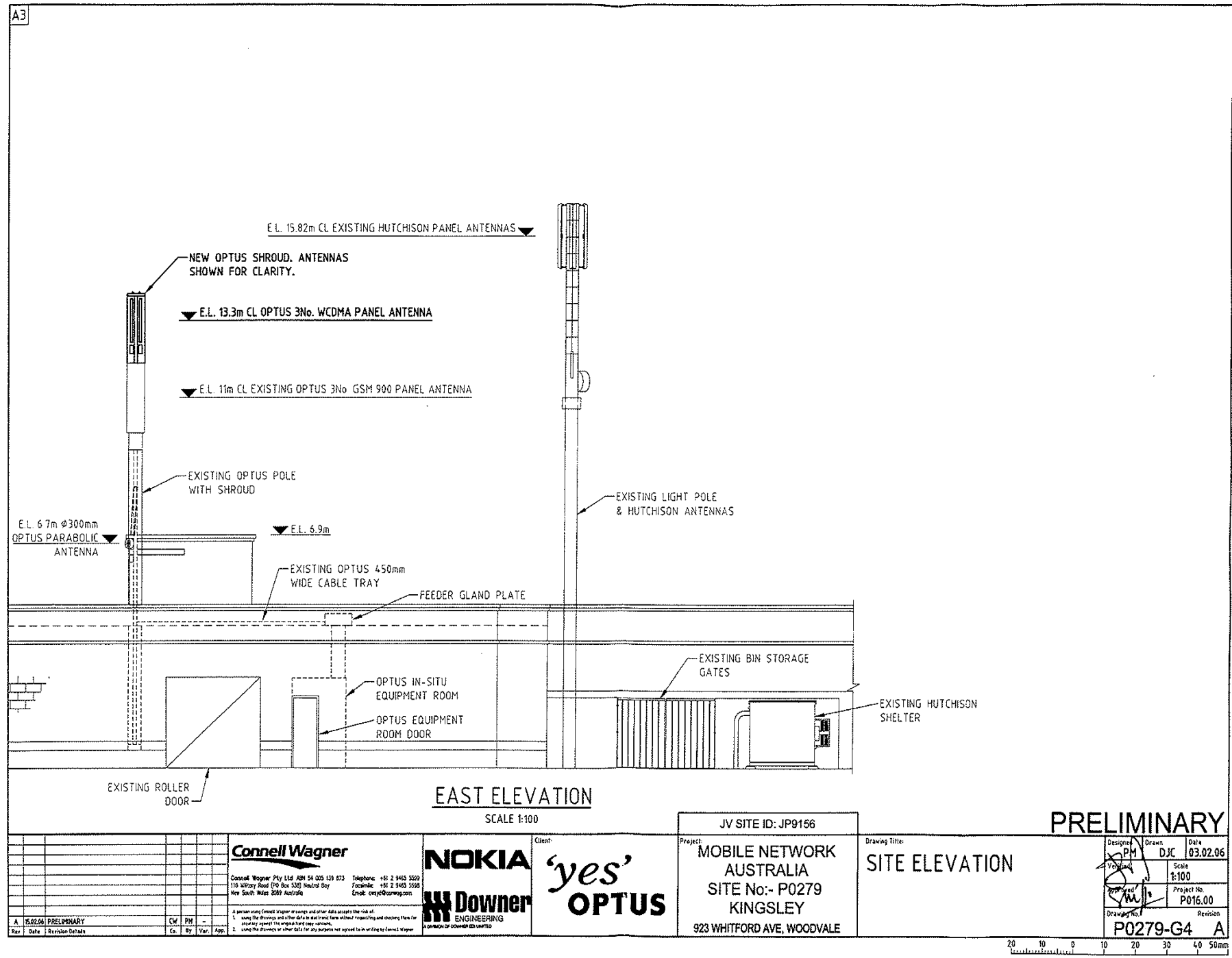
Drawing Title:

NOTES:

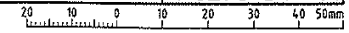
1. MHPA TO BE FITTED BELOW PROPOSED WCDMA 2100 PANEL ANTENNA.
2. NEW FEEDER CABLES TO PENETRATE EXISTING GLAND PLATE IN EQUIPMENT ROOM ROOF AND RUN IN EXISTING CABLE TRAY TO BASE OF POLE MOUNT. FEEDER CABLES STRAPPED TO EXISTING MOUNTING POLES.
3. ALL WCDMA ANTENNAS TO BE INSTALLED WITH MECHANICAL TILT KITS (MTK), MASTER HEAD AMPLIFIERS (MHA) & REMOTE CONTROL UNITS (RCU). FINAL POSITION TO BE CONFIRMED ON SITE BY RIGGING/INSTALLATION CONTRACTOR.
4. ALL WCDMA ANTENNA TAILS BETWEEN ANTENNA & MHA MUST NOT EXCEED 1.5m IN LENGTH. PRIOR WRITTEN NOTIFICATION IS REQUIRED TO & APPROVAL FROM NOKIA MANAGEMENT IS REQUIRED IN ALL CASES WHERE IT IS PROPOSED TO EXCEED 1.5m.

Designed PM	Drawn DJC	Date 03.02.01
Verified <i>[Signature]</i>	Scale 1:100	
Approved <i>[Signature]</i>	Project No. P016.00	
Drawing No. P0279-G2		Revision A





Connell Wagner <small>Connell Wagner Pty Ltd ABN 54 005 139 873 Telephone: +61 2 9455 5599 110 Military Road (PO Box 535) Neutral Bay New South Wales 2089 Australia Facsimile: +61 2 9455 2558 Email: cwy@connellwagner.com</small>		NOKIA Downer <small>ENGINEERING</small>		Client: 'yes' OPTUS		Project: MOBILE NETWORK AUSTRALIA SITE No:- P0279 KINGSLEY 923 WHITFORD AVE, WOODVALE		Drawing Title: SITE ELEVATION		PRELIMINARY Designed: PM Drawn: DJC Date: 03.02.06 Scale: 1:100 Project No: P016.00 Drawing No: P0279-G4 Revision: A	
A 15.02.06 PRELIMINARY Rev Date Revision Details		CW PM Co By Var App		1. person using Connell Wagner drawings and other data accepts the risk of: 2. using the drawings and other data in their work without requesting and checking them for 3. using the drawings or other data for any purposes not agreed to in writing by Connell Wagner		1. person using Downer drawings and other data accepts the risk of: 2. using the drawings and other data in their work without requesting and checking them for 3. using the drawings or other data for any purposes not agreed to in writing by Downer		1. person using Nokia drawings and other data accepts the risk of: 2. using the drawings and other data in their work without requesting and checking them for 3. using the drawings or other data for any purposes not agreed to in writing by Nokia		1. person using Optus drawings and other data accepts the risk of: 2. using the drawings and other data in their work without requesting and checking them for 3. using the drawings or other data for any purposes not agreed to in writing by Optus	





POLICY 7-11 – TELECOMMUNICATIONS FACILITIES

STATUS: *City Policy - A policy that is developed for administrative and operational imperatives and has an internal focus.*

City policies are referred to Council for review and endorsement.

RESPONSIBLE DIRECTORATE: Planning and Community Development

OBJECTIVE:

STATEMENT:

- 1 The City recognises that it is bound by the Federal legislation relating to telecommunication facilities and that it has no jurisdiction over the location or installation of "low impact" facilities as defined under the *Telecommunications (Low-Impact Facilities) Determination Act 1997*.
- 2 The City, as a general rule, does not support the installation or location of telecommunication facilities, particularly in the vicinity of schools, childcare establishments, hospitals and general residential areas.
- 3 The City recognises the right of land owners/applicants to make applications for planning approval for telecommunication facilities deemed to be other than low impact under the *Telecommunications Act*, and acknowledges its obligation to make a recommendation to the WAPC or determine the application in its own right.
- 4 Having received a Development Application for a telecommunication facility, the City will advertise the proposal for a 30-day period and consult with the local community surrounding the proposed site. Owners and occupiers of property within a radius of 500m will be advised in writing, at the cost of the applicant, and afforded an opportunity to make comment to the Council prior to the matter being considered at a Council meeting.
- 5 In making a recommendation to the WAPC or determining the application the Council will have regard to;
 - (a) the comments and concerns of the local community,
 - (b) the merits of the particular proposal
 - (c) compliance with the industry code of practice,
 - (d) compliance with matters required to be considered under the District Planning Scheme, and
 - (e) the general concerns of the Council regarding the potential effects of telecommunication facilities referred to in point 2 above.



Amendments: C172-12/02. CJ206-10/05

Related Documentation:

Issued: October 2005

ATTACHMENT C

**Proposed Telecommunications Facility: Woodvale Park Commercial Centre,
Lot 20, 923 Whitfords Avenue, Woodvale WA 6026**

Environmental EME Report (ARPANSA Format)



Summary of Estimated RF EME Levels around the Mobile Phone Base Station at JP9156 Kingsley -O, 923 Whitford Ave, Woodvale WA

Introduction:

Date 19-Oct-05

This report summarises the estimation of maximum cumulative radiofrequency (RF) electromagnetic energy (EME) levels at ground level emitted from the existing antennas at the Mobile Phone Base Station at JP9156 Kingsley -O, 923 Whitford Ave, Woodvale WA. Maximum EME levels estimated are at distances of 5.0, 50.0, 100.0, 200.0, 300.0, 400.0, 500.0 m from the base station. The procedures for making the estimates have been developed by the Australian Radiation Protection And Nuclear Safety Agency (ARPANSA)¹. These are documented in the ARPANSA Technical Report; "Radiated EME Exposure Levels - Prediction Methodologies" which is available at www.arpansa.gov.au

EME Health Standard

ARPANSA, an agency of the Commonwealth Department of Health has established a Radiation Protection Standard² specifying limits for continuous exposure of the general public to RF transmissions at frequencies used by mobile phone base stations. Further information can be gained from the ARPANSA web site.

The Australian Communications Authority (ACA)³ mandates exposure limits for continuous exposure of the general public to RF EME from mobile phone base stations. Further information can be found at the ACA website www.aca.gov.au/standards/emr/index.htm

Existing Site Radio Systems

Optus GSM 900	Hutchison CDMA 2100		
---------------	---------------------	--	--

Table of Predicted EME Levels – Existing

Distance from the antennas at JP9156 Kingsley -O, 923 Whitford Ave, Woodvale WA bearing 26.16° (m)	Maximum Cumulative EME Level - All Carriers (% of ACA mandated exposure limits ⁴)
5	0.053
50	0.86
100	0.61
200	0.15
300	0.069
400	0.039
500	0.025
Maximum EME level 74.98 m, 26.16° from the antennas at JP9156 Kingsley -O, 923 Whitford Ave, Woodvale WA	0.95

Note: This estimation is for the maximum level of RF EME at 1.5m above the ground from the existing antennas. The estimated levels have been calculated on the maximum mobile phone call capacity anticipated for this site. This estimation does not include possible radio signal attenuation due to buildings and the general environment. The actual EME levels will generally be significantly less than predicted due to path losses and the base station automatically minimising transmitter power to only serve established phone calls⁵.

Summary – Existing Radio Systems

RF EME levels have been estimated from the existing antennas installed at JP9156 Kingsley -O, 923 Whitford Ave, Woodvale WA. The maximum cumulative EME level at 1.5 m above ground level is estimated to be 0.95 % of the ACA mandated exposure limits.



Proposed Site Radio Systems

Optus Vodafone Joint Venture CDMA 2100	Optus GSM 900	Hutchison CDMA 2100	
--	---------------	---------------------	--

Table of Predicted EME Levels – Existing & Proposed

Distance from antennas at JP9156 Kingsley -O, 923 Whitford Ave, Woodvale WA bearing 128.089° (m)	Maximum Cumulative EME Level - All Carriers (% of ACA mandated exposure limits ⁴)
5	0.11
50	1.49
100	0.88
200	0.22
300	0.099
400	0.056
500	0.036
Maximum EME level 55.5 m, 128.089° from the antennas at JP9156 Kingsley -O, 923 Whitford Ave, Woodvale WA	1.63

Note: This estimation is for the maximum level of RF EME at 1.5m above the ground from the existing antennas. The estimated levels have been calculated on the maximum mobile phone call capacity anticipated for this site. This estimation does not include possible radio signal attenuation due to buildings and the general environment. The actual EME levels will generally be significantly less than predicted due to path losses and the base station automatically minimising transmitter power to only serve established phone calls⁵.

Summary – Existing & Proposed Radio Systems

RF EME levels have been estimated from the existing and proposed antennas installed at JP9156 Kingsley -O, 923 Whitford Ave, Woodvale WA. The maximum cumulative EME level at 1.5 m above ground level is estimated to be 1.63 % of the ACA mandated exposure limits.

Reference Notes:

1. The Australian Radiation Protection and Nuclear Safety Agency (ARPANSA) is a Federal Government agency incorporated under the Health portfolio. ARPANSA is charged with responsibility for protecting the health and safety of people, and the environment, from the harmful effects of radiation (ionizing and non-ionizing).
2. Australian Radiation Protection and Nuclear Safety Agency (ARPANSA), 2002, 'Radiation Protection Standard: Maximum Exposure Levels to Radiofrequency Fields — 3 kHz to 300 GHz', Radiation Protection Series Publication No. 3, ARPANSA, Yallambie Australia. [Printed version: ISBN 0-642-79400-6 ISSN 1445-9760] [Web version: ISBN 0-642-79402-2 ISSN 1445-9760]
3. The Australian Communications Authority regulates telecommunications and radiocommunications, including licensing, compliance with codes and standards, spectrum management and consumer safeguards. It also represents Australia's communications interests internationally.
4. ACA mandated exposure limits as in force at the issue date of this report. Further information refer to the ACA web site http://www.aca.gov.au/standards/emr/info_licensees.htm
5. The EME predictions in this report assume a worst-case scenario being:
 - base station transmitters operating at maximum power (no automatic power reduction)
 - simultaneous telephone calls on all channels
 - an unobstructed line of sight view to the antennas.
 In practice a worst-case scenario is rarely the case. There are often trees and buildings in the immediate vicinity, and cellular networks automatically adjust transmit power to suit the actual telephone traffic. For these reasons, care should be taken when comparing prediction reports & actual measurements, as the predicted levels will often be considerably higher.