APPLICATION NO:
F/2002/5899

96

LOCATION:
Wyvols Court Farm Basingstoke Road, Swallowfield Reading.

APPLICANT:
Hutchinson 3G UK Ltd C/O Barton Willmore Planning P/Ship

PROPOSAL:
Proposed erection of 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet.

EARLIEST DATE FOR DECISION: **15/03/2002**

APPLICATION WILL HAVE EXPIRED ON:
10/04/2002

CASE OFFICER: **Helen Pollock**

101

WOKINGHAM DISTRICT COUNCIL

TOWN AND COUNTRY PLANNING ACTS

Notification of Approval of Permission

Hutchinson 3G UK Ltd
C/O Barton Willmore Planning Partnership
Beansheaf Farmhouse
Bourne Close
Calcot
Reading
Berks
RG31 7BW

Application Number: F/2002/5899

Parish:	**SWALLOWFIELD**
Location:	**Wyvols Court Farm, Basingstoke Road, Swallowfield, Reading.**
Proposal:	**Proposed erection of 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet.**

The Wokingham District Council in pursuance of their powers under the above Acts and Regulations hereby **Approve Permission** for carrying out the above development in accordance with the application and the accompanying plans submitted to the Council subject to compliance with the following conditions, the reasons for which are specified hereunder.

Condition
1. The development hereby permitted shall be begun before the expiration of five years from the date of this permission.

Condition
2. The proposed mast shall be grey in colour, and the proposed equipment cabin shall be dark green in colour, and permanently maintained as such.

Condition
3. No development shall take place until there has been submitted to and approved in writing by the Local Planning Authority a scheme of landscaping to the north, east and west sides of the site; the scheme should include native tree and shrub block planting, extending further beyond the compound than just a hedgerow planted adjacent to the fence, to provide maximum visual benefit. The approved landscaping scheme shall be implemented prior to the commencement of operation of the mast hereby approved, and retained.

Reason
1. In pursuance of Section 91(1) of the Town and Country Planning Act 1990.

Reason
2. In the interests of visual amenity.

Reason
3. In the interests of visual amenity.

Informative
1. You are advised, in compliance with The Town and Country Planning (General Development Procedure) (England) (Amendment) Order 2000, that the following policies and/or proposals in the development plan are relevant to this decision:

Berkshire Structure Plan Policy TC1.
Deposit Draft Wokingham District Local Plan Policy WIC14.

Anna Cronin
Head of Planning & Transportation
Date: 04/04/2002

Notice checked by: _____

If this notice grants permission to proceed with the proposal the applicant is reminded that it relates to planning permission only and does not constitute approval under any other legislation including Building Regulations.

1 Brief Description of UMTS / WCDMA

IMT-2000 [International Mobile Telephony], UMTS [Universal Mobile Telecommunications System] and WCDMA [Wideband Code Division Multiply Access] are three of the more widely known acronyms used when discussing the new Third Generation (3G) mobile telephony. The IMT-2000 was the governing body established to develop the standards. UMTS was an umbrella organization seeking to harmonize the different standards and WCDMA was indeed one those standards.

The technology, on which this WCDMA standard is based, has been in use for decades. Through extensive coding and sophisticated modulation techniques CDMA allows a relatively low transmission power and the successful deciphering of data received at signal levels below the noise floor.

In effect, each user transmits on the same frequency and at the same time as all other users. In a conventional sense, they all interfere with each other. However, different users are distinguished by speading their signal/data across a wide frequency band and according to a unique code, known only to the transmitter and the intended receiver, thus the term "wideband code division".

1.1 The "Cocktail Party Analogy"

1.1.1 How it works:

If you were in a room full of people and each couple was engaged in a conversation using a different language, the conversation you maintain with your partner can be considered a communication link. The fact that only the two of you share the same language within the room can be thought of as a special code.

Whilst communicating with your partner all other conversations within the room are "filtered" out. Other conversations are perceived as noise. In the same way one can "focus" one's attention upon a single conversation, CDMA can decipher out a single user from a noisy background via special coding techniques. The main difference is that the sophisticated coding used in the UMTS Standards affords the noise to be "louder" than the intended voice or technically speaking, the noise level to be greater than the received signal strength.

For a GSM system, the receive level signal strength usually needs to be 18 dB stronger than the interference. In comparison, WCDMA can decipher out the intended user even if the noise or interference is more than 3 dB stronger. That is a difference of 21dB or WCDMA requires 128 times less energy relative to the interference than GSM.

1.1.2 The output power:

The power transmitted at a single UMTS site is relative to what is needed. Continuing with the aforementioned analogy, in a crowded room one does not need to speak louder than the cumulative background noise to hold one's conversation with another if one is "reasonably" close to the recipient. In fact, when very close to the other person, say within inches of the other's ear, one could whisper and still be heard intelligently. However conversely, the greater

the distance between people wishing to communicate the louder one needs to "shout" to overcome the noise.

Generally, the same relation holds true within a WCDMA system. The closer one is, in metres, to the base station the lower the radiated output power at the mobile. Or in technical terms, the base station sites with small radii and low heights will generally have a higher probability of low output power at the mobile and base station when compared to a similar location with the same traffic density and a larger cell radii.

A comparison of maximum output power can be made with a typical second generation system (2G) such as GSM1800. GSM1800 (i.e. Orange and One2One) are very close along the radio spectrum to UMTS, less than 50MHz separate their downlink (or base station frequencies) from the UMTS uplink (or mobile frequencies). Thus, the propagation characteristics and signal losses within the different environments are similar. The maximum power of a typical GSM1800 mobile unit is 30 dBm or approximately 1 Watt whereas, a typical UMTS mobile is limited to a maximum of 125 milliwatts of power for voice communication or $1/8^{th}$ the output power of a GSM1800 mobile. This difference of maximum output power reflects the strength of the coding and error correction contained within the UMTS Standard, thus resulting in much lower radiation of output power at the mobile.

1.1.3 Power control:

Very sophisticated algorithms at the mobile and base station manage the power control within a WCDMA system. Returning to the "Cocktail Party Analogy"; as more people enter the room the noise rises and correspondingly one needs to speak louder (or transmit at a higher power) in order to maintain an intelligible conversation. WCDMA base stations and mobiles use only enough power so to be "received" and deciphered intelligibly. In fact, because power is always a limited resource, WCDMA "seeks" to limit and reduce the output power as much as possible

Unlike at a cocktail party there will never be the occasional "loudmouth"; i.e. someone who enters the room and speaks at a volume much greater than that which is needed, thus requiring everyone else to raise their voices. If you like, the power control algorithms function as a sort of monitor that goes throughout the room and carefully manages the volume of each and every conversation so that every single person within the room is communicating at the minimum required level.

Again, a comparison can be made with GSM as a frame of reference. The GSM specifications do allow dynamic control[1] of the output power mobile and base station. However, their algorithms allow the adjustment of power at a frequency of only 2Hz or twice a second (this was considered very quick at the time the specifications were written). Whereas, WCDMA will have a power control algorithm that manages the power at an expected rate of 1500 Hz or 1500 times a second. Obviously, the management of transmitted power with WCDMA is very fast in comparison. The algorithms seek to always minimize the output power whenever and

[1] Dynamic power control is the ajustment or change of transmitted power by the network. The network exerts the control by minimizing the power of the mobile to the smallest viable level.

wherever possible, thus as a result making the system inherently safer to the public relative to cumulative transmitted power emitted by the mobile.

1.2 The cell site radius:

In the aforementioned analogy, the noise is repeatedly mentioned and constantly alluded to as a significant issue in WCDMA system. In fact, it ***is*** the defining issue relative to the quality of service and the system capacity. Continuing with the analogy, there are two defining characteristics relative to the cumulative noise level at a cocktail party (assuming the monitor controls and minimizes the voice level of everyone): the size of the room and the number of people within it. Assuming a rather large room with much space, as more and more people enter the noise level becomes greater and greater. At a determinable point the ability to communicate for most people will decrease.

Again the two determining factors were the size of the room and the number of people within it. It is reasonable to assume that it is possible to reduce the cumulative noise by limiting both determining factors: A) to limit the number of people admitted to the room (i.e. reduce the number of mobiles connected to the base station) and more preferably: B) by limiting the size of the room (i.e. reducing the base station coverage area).

Let's continue with the analogy and assume that there is a very large room with only two people within it. If they are at separate ends of the room they will need to shout in order to communicate. Within a WCDMA system most base stations will share a common frequency. The noise contributed by an adjacent base station on another is similar to having a Chinese wall separating your cocktail party from that of your neighbour's. Even if there are only two of you within the room, by being in separate ends of a large room and shouting, you will be causing significant noise to your neighbour and thus affecting the quality of the conversations there. Remember, the maximum transmit power at the base station will be relative to the maximum link loss and/or distance to the mobile.

Another limiting factor that reduces the maximum coverage area of a WCDMA base station is the power available at the mobile. In comparison to GSM1800 the maximum output power at a WCDMA mobile is much less. The GSM1800 mobile has a maximum output power of 1 Watt. The WCDMA mobile has a maximum output power for voice communications of 125 milliwatts, this is $1/8^{th}$ than that of a GSM1800 mobile.

As we can see from these examples, the coverage areas for WCDMA base stations will need to be smaller than the traditional telecommunication sites (GSM). The smaller coverage area will reduce the probability of noise within the system and minimize the output power of both the base stations and mobiles. It is for this reason that Hutchison 3G wishes to keep the base station coverage areas small and as close to the traffic centres as feasibly possible.

2 Frequencies

The IMT-2000 framework group had identified the following frequencies for WCDMA: 1920 - 1980 MHz uplink (mobile phones); 2110- 2170 MHz downlink (base stations) as well as 1900 - 1920 MHz and 2020 - 2025 MHz band that will be used by both the uplink and downlink.

3 Modulation / Transmission Characteristics

The UMTS/WCDMA modulation scheme is QPSK modulation [Quadrature Phase Shift Keying]. In the uplink direction [from the mobile] the two dedicated physical channels are not time multiplexed but I/Q code multiplexed, please see figure 1. The result is an I/Q code multiplexed channel with continuous channel where no pulsed transmission occurs. The power output, however, will vary as the data is switched on and off. But, it is suffice to say that such switching happens quite seldom and that the variation is small in comparison to the two dedicated control channels.

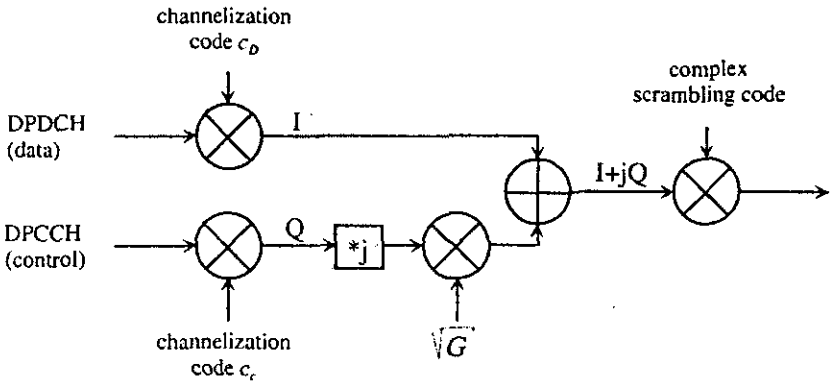


figure 1.

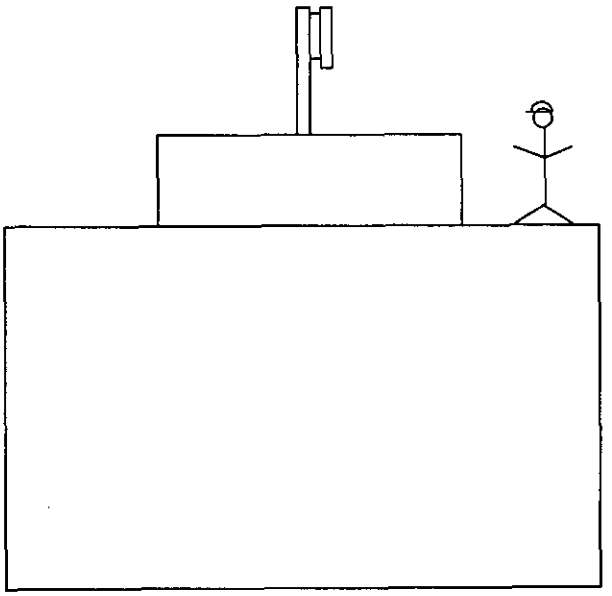
4 Safety Guidelines

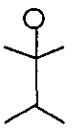
4.1 ICNIRP / NRPB Guidelines

- Near Field / Occupational Limitations
- Far-Field / General Public Exposure Limitations

4.2 Procedures for Compliance

- Typical Radio Emissions from WCDMA sites (i.e. typical RF channel & a wide RF spectrum graph both with and without typical loading)
- Typical site sketches showing exclusion zones for occupational and general public access





4.3 Testing Procedures

- Scope of Testing
- Equipment
- Documentation

5 Deliverables for Planning Applications

It is proposed that all relative information is to be made available for all relative planning applications. A list of available information is as follows:

The following plot shows the coverage potential from a given site location. The plot includes an assumption of traffic and a particular service type. Radiation Centre Height of Transmission Antennas Coverage Potential Plot Frequencies output power Modulation / Transmission Characteristics

Planning Application

Site ID _____
Option Nam _____

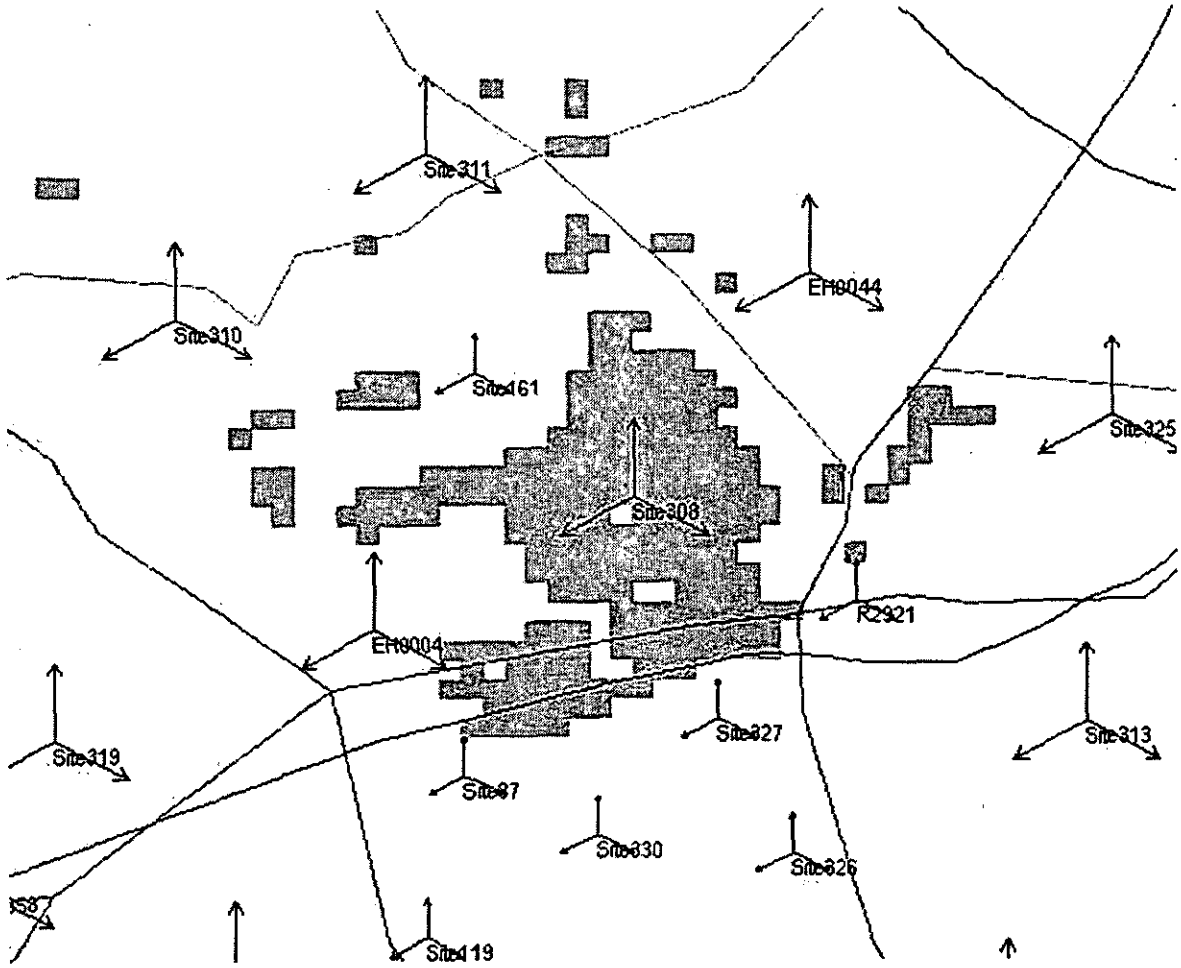
Site Coordinates
Latitude: _____
Longitude: _____

Height of A: 10.00
Frequency: 2.1 Ghz
Transmit Power: _____

Site Address

Post Code _____

Modulation Technique



6 Epidemiological Studies

- Hutchison 3G Supported Research
- Bibliography of Known Non-Ionisation Research

6.1.1 *Books Published Jointly with ICNIRP*

Non-thermal effects of RF electromagnetic fields. R Matthes, JBernhardt and MH Repacholi (eds) Proceedings of Munich meeting, Nov. 1996. ICNIRP Pub. 3/97.

Biological effects of static and ELF fields. R Matthes, JBernhardt and MH Repacholi (eds) Proceedings of Bologna meeting, June 1997. ICNIRP Pub. 4/97.

Risk perception, risk communication and its application to EMF exposure. R Matthes, J Bernhardt and MH Repacholi (eds) Proceedings of Vienna meeting, Oct. 1997. ICNIRP Pub. 5/98.

Health Effects of Electromagnetic Fields in the Frequency Range 300 Hz to 10 MHz. R Matthes, E van Rongen and MH Repacholi (eds) Proceedings of International Meeting, Maastricht, The Netherlands 7-8 June 1999. ICNIRP Pub 8/99.

Effects of Electromagnetic Fields on the Living Environment. R Matthes, JH Bernhardt and MH Repacholi (eds). Proceedings of International Seminar, Ismaning, Germany 4-5 October 1999. ICNIRP Pub 10/2000.

Proceedings of RF meeting in Erice, Sicily being prepared for publication by ICNIRP

Available from:

ICNIRP Scientific Secretary
Bundesamt für Strahlenschutz
Institut für Strahlenhygiene
Ingolstädter Landstraße 1
D-85764 Oberschleißheim, Germany

Tel: +49 89 31603288
Fax: +49 89 316 03289
E-mail: rmatthes@bfs.de

6.1.2 *International Commission on Non-Ionising Radiation Protection (ICNIRP) Publications*

Non-ionizing Radiation: Executive summary of 4th International Non-Ionizing Radiation Workshop. Kyoto, Japan 22-25 May 2000. ICNIRP Publication 9/2000.

Guidelines on limiting exposure to non-ionizing radiation: Reference book of all ICNIRP guidelines and statements. R Matthes, JH Bernhardt and AF McKinlay (eds). ICNIRP publication 7/99

ICNIRP Guidelines: Guidelines for limiting exposure to time-varying electric, magnetic and electromagnetic fields (up to 300 GHz). Health Physics 74 (4): 494-522 (1998).

Non-ionising radiation: Proceedings of the 3rd International Non-Ionising Radiation Workshop, Baden, Austria, April 22-26, 1996. ICNIRP Publication 1/96

ICNIRP Statement: Health issues related to the use of hand-held radiotelephones and base transmitters. ICNIRP, Health Physics **70(4):** 587-593, 1996

ICNIRP Guidelines: Guidelines on limits of exposure to static magnetic fields. Health Physics **66(1):** 100-106, 1994

IRPA Guidelines on protection against non-ionising radiation, Eds. AS Duchêne, JRA Lakey and MH Repacholi, Pergamon Press (now available from McGraw Hill), 1991.

Protection of the patient undergoing a magnetic resonance examination. Health Physics **61(6):** 923-928, 1991

Guidelines on limits of exposure to 50/60 Hz electric and magnetic fields. Health Physics **58(1):** 113-122, 1990

Guidelines on limits of exposure to radio frequency fields. Health Physics **54(1):** 115-123, 1988

Alleged radiation risks from video display terminals. Health Physics **54(2):** 231-232, 1988

SWALLOWFIELD PARISH COUNCIL

PENTON COTTAGE
SWALLOWFIELD STREET, SWALLOWFIELD
READING, BERKS, RG7 1QX
Tel: 0118 988 5929 Fax: 0118 988 6443
email: clerk@swallowfieldpc.gov.uk

PLANNING SERVICES	HPT
PC	TLS
DC AP	ENF
APP	
CS	

15 MAR 2002

COPIES TO	ACK:
	FILE:

13th March 2001

FAXED AND POSTED

Planning Dept.,
P.O. Box 157,
Wokingham District Council,
Shute End,
Wokingham,
Berks. RG40 1WR

Dear Sirs,

Application Number: F/2002/5899
Location: Wyvols Court Farm, Basingstoke Road, Swallowfield
Proposal: Proposed erection 0f 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet.
Case Officer: Helen Pollock

The Parish Council wishes Wokingham District Council to note that the location is not on the Basingstoke Road, but at Barge Lane with the junction of A33 Swallowfield By-Pass.

The Parish Council accepts that there is a need for additional masts as a consequence of third generation communications. However the Parish Council also considers that insufficient effort is made by telecommunications companies to share the same site, thereby minimising the overall visual impact of the masts. There are several existing sites in the vicinity with permissions, and the Parish Council fails to understand why this mast could not be added to one of these sites.

The Parish Council notes that the applicant has given reasons for not choosing two sites – but are these reasons acceptable, or are they given purely to persuade the planning authority that they need a new site, whilst in fact their reasons cannot be substantiated? In addition are these the only two sites available, given that there are other telecommunication sites within about a mile?

The Parish Council therefore trusts that the District Council will satisfy itself that there is no possibility of this mast being incorporated into an existing site before granting permission.

Yours faithfully,

C Adams

Mrs. C. Adams, Clerk

14.Mar. 2002 17:34 SWALLOWFIELD PARISH COUNCIL No.1455 P. 7/7
SWALLOWFIELD P C

13.FEB.2002 5059

Hutchison 3G Engineering Documentation
Radio Design Group

Hutchison 3G UMTS Radio Characteristics

Hutchison 3g

Author	Kassir Hussain
Approved by	
Date	
Title	Hutchison 3G UMTS Radio Characteristics
Summary	
Document no.	

Table of contents

1 Introduction 4

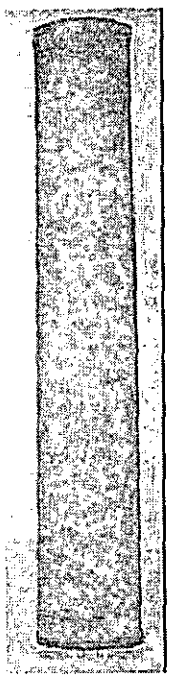
2 Operational Aspects 4
2.1 Spectrum Allocation 4
2.2 The technology standards 5
2.3 Licence and operating conditions 5
2.4 Vendor equipment 7
2.5 Antenna Specifications 7

3 Annex 1: Antenna specifications 8
3.1

CSAWireless
A TriPoint Global Company

"Freedom" UMTS 65°/17.5 dBi X-Pol Antenna

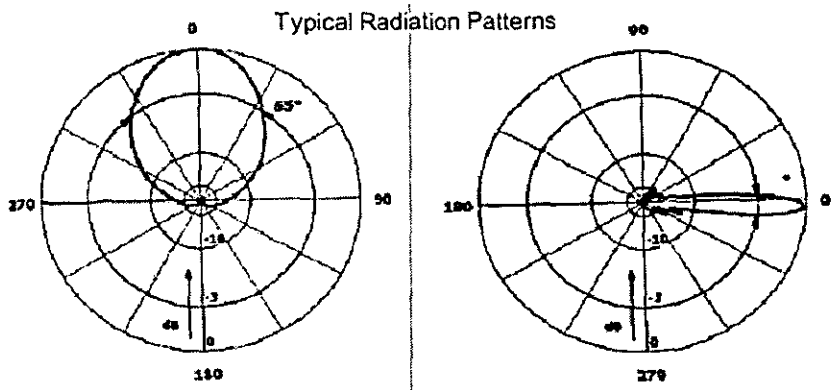
Model No UMTX65-12-*



Frequency	1900 to 2170 MHz
Gain	17.5 dBi
Input Impedance	50 ohms
VSWR	< 1.4:1
Polarisation	±45°
Electrical downtilt	0°, 2°, 4°
Inter-port isolation	> 30dB
Azimuth beamwidth	65°
Elevation beamwidth	7.5°
1st upper sidelobe	< -14 dB
1st Null	> -25 dB
Front to back ratio	> 30 dB
Intermodulation	< -153 dBc for 2 x 20 W carriers
Input power	2 x 125 W
Input connector	7/16 -DIN female, 2 connectors at the bottom
Temperature	-40°C to +60°C
Mounting interface	Wall or pole 2 – 4.5 in diameter (48 – 115 mm), c/w pan & tilt
Survival wind speed	200 km/h
Wind loads	Front: 180 N (at 150 km/h) Back: 270 N (at 150 km/h) Side: 115 N (at 150km/h)
Weight	Antenna 3.5 kg Bracket 3 kg
Dimensions	1270 x 184 x 82mm

Mounting bracket required: TBA

Typical Radiation Patterns



Azimuth Pattern Elevation Pattern

Radiation patterns available from the CSA Website in all the software planning tools
Visit http://www.csa-wireless.com

CSA Limited, Knight Road, Rochester, Kent, England ME2 2AX.
Tel +44 (0)1634 715544 Fax +44 (0)11634 715742 e-mail sales@csauk.com
Americas office: Conover NC Tel (001) 828 466 0421 Fax (001) 828 4660413 e-mail

2000 CSA reserves the right to modify or change the specifications shown above

CSA 8

3.2 Thales 10

1 Introduction

This document contains the operational characteristics of the Hutchison 3G UMTS network in the United Kingdom.

Hutchison 3G UK was one of the successful bidders in the UK 3rd generation spectrum auctions and acquired a licence to operate a UMTS network in the UK spectrum auctions held last year. Hutchison 3G was the winner of licence block A. The licence awarded to Hutchison 3G allows Hutchison 3G to become a Public Land Mobile Operator.

The full definition of the UK licence and other characteristics related to the radio network are presented in the following subsections of this document.

2 Operational Aspects

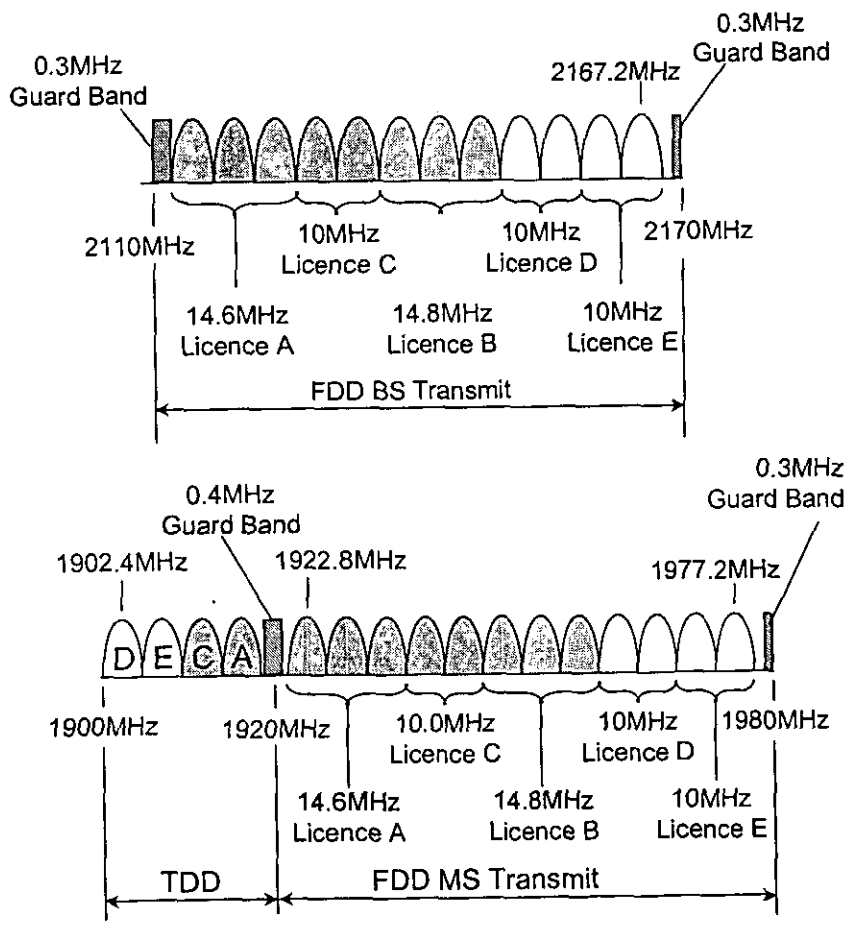
2.1 Spectrum Allocation

Hutchison 3G has acquired the A licence block. The licence provides Hutchison 3G with the following spectrum:

1920.0 – 1934.9 MHz – Base receive

2110.3 – 2124.9 MHz – Base transmit

1914.9 – 1920.0 MHz – Base transmit/receive in Time Division Duplex



2.2 The technology standards

The 3rd generation mobile system to be operated by Hutchison 3G in the United Kingdom is based on the Global 3GPP (3rd Generation Partnership Project) standard and is commonly referred to as the Universal Mobile Telecommunications System, or UMTS. 3GPP have created the radio standards for two modes of operation for UMTS. These are:

- Time Division Duplex (TDD) mode
- Frequency Division Duplex (FDD) mode

Hutchison 3G will only operate FDD mode of UMTS for the first few years. At some later date, TDD mode of operation will be introduced.

The FDD technology is based on a Direct Sequence Code Division Multiple Access (DS-CDMA) and typically operates over a 5MHz bandwidth. Due to the wide bandwidth of the system the system is often referred to as Wideband CDMA or WCDMA.

The modulation scheme employed in WCDMA is QPSK, Quadrature Phase Shift Keying.

Parameter	Value
Technology	Direct Sequence Code Division Multiple Access (DS-CDMA)
Modulation scheme	*Quadrature Phase Shift Keying (QPSK)*
System bandwidth	4.4 – 5 MHz, 200kHz carrier raster
Chipping rate	3.84 Mchips

2.3 Licence and operating conditions

The Third Generation Mobile licence, was awarded by the Radiocommunications Agency, and is covered by the Wireless Telegraphy Acts of 1949 and 1998. The WTA Licence places certain operational characteristics on the constraints on the licence holder. The table below outlines key aspects of this licence.

<table>
<tr><th>Licence clause</th><th>Definition of clause</th></tr>
<tr><td>(3). Approved standards for the radio equipment</td><td>The radio equipment shall comply with the requirements of Directive 99/5/EC (the "Radio Equipment and Telecommunications Terminal Equipment Directive").</td></tr>
<tr><td>(6) Frequency bands of operation</td><td>1920.0 – 1934.9 MHz – Base receive

2110.3 – 2124.9 MHz – Base transmit

1914.9 – 1920.0 MHz – Base transmit/receive in Time Division Duplex</td></tr>
<tr><td>(7a) Maximum permissible EiRP, Frequency division duplex (FDD)</td><td>The radio equipment in Frequency Division Duplex mode, is required to conform to the following EIRP limits:

<table><tr><td>Maximum EIRP per carrier[1]</td><td>Maximum EIRP per MHz[2]</td></tr><tr><td>62 dBm</td><td>58 dBm/Hz</td></tr></table></td></tr>
<tr><td>(7b) Maximum permissible EiRP, Time division duplex (TDD)</td><td>The radio equipment in Time Division Duplex mode, is required to conform to the following EIRP limits:

<table><tr><td>Maximum EIRP per carrier[1]</td><td>Maximum EIRP per MHz[2]</td></tr><tr><td>62 dBm</td><td>58 dBm/Hz</td></tr></table></td></tr>
<tr><td>(8a) Permissible out of block emissions, Frequency division duplex (FDD). [3]</td><td><table><tr><td>Offset from edge of block</td><td>Maximum permitted level</td><td>Measurement bandwidth</td></tr><tr><td>0 to 0.2 MHz</td><td>-14 dBm</td><td>30 kHz</td></tr><tr><td>0.2 to 1.0 MHz</td><td>-14 – 15(Δf – 0.2) dBm</td><td>30 kHz</td></tr><tr><td>1.0 to 10 MHz</td><td>-13 dBm</td><td>1.0 MHz</td></tr><tr><td>Beyond 10 MHz</td><td>-30 dBm</td><td>1.0 MHz</td></tr></table>
Note Δf is the offset from the edge of the frequency block in MHz</td></tr>
<tr><td>Relevant radio standards for operation</td><td>ETSI TS 125.104: UTRA (BS) FDD; Radio transmission and reception

ETSI TS 125.105: UTRA (BS) TDD; Radio transmission and reception</td></tr>
<tr><td></td><td></td></tr>
</table>

[1] The maximum EIRP (Effective isotropic radiated power) per carrier is the product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna. The maximum EIRP in any direction from the basestation will be below this limit for any transmitted carrier. Power for this limit is defined as the mean modulated carrier power time averaged over any suitable time period in which the transmitter is continuously transmitting at its maximum operational power level.

[2] The maximum EIRP per MHz is defined as the sum of the EIRP radiated by the transmitted carriers in any given direction within any contiguous 5MHz block within an operator's spectrum allocation divided by five.

[3] The out of block emissions are defined as the radio frequency emissions generated by the system operated by the licensee but radiated into the spectrum adjacent to the licencee's frequency block.

Note, that the EIRP per carrier and the EIRP per MHz limits are considered separately for any deployment and the more stringent requirement is complied with.

The spectrum allocation provided to Hutchison 3G allows Hutchison 3G to deploy a maximum of three FDD carriers and a single TDD carrier.

2.4 Vendor equipment

Hutchison 3G will use radio equipment from two manufacturers, NEC and Nokia. NEC equipment is utilised mainly in the South East of the UK and Nokia in the North.

2.5 Antenna Specifications

The antennas intended for use by Hutchison 3G are from Thales and CSA. Hutchison 3G has measured the performance of the antenna from both suppliers rather than relying on data from the suppliers themselves. The antennas used are shown in Table 1.

Supplier	Antenna description
Thales	1.32 and 1.56 metre antennas
CSA	1.27 and 1.72 metre antennas.

Table 1. Hutchison 3G antenna

The Thales antenna is predominantly used in the Hutchison 3G network, however at some point, CSA antennas may also be used. Specifications from both antenna vendors are provided for completeness. The antenna specifications for the Thales and CSA antenna are provided in .

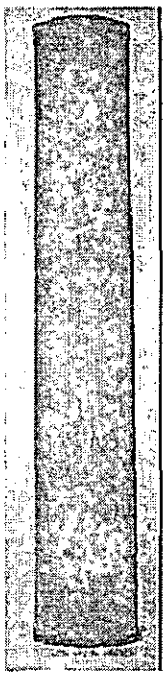
3 Annex 1: Antenna specifications

3.1 CSA

CSAWireless™
A TriPoint Global Company

"Freedom" UMTS 65°/17.5 dBi X-Pol Antenna

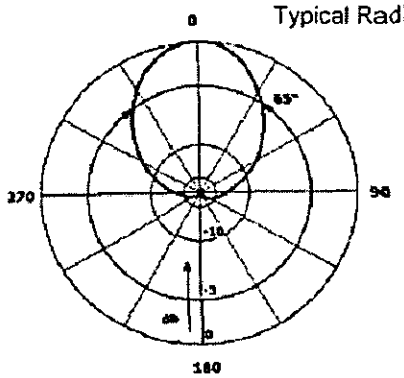
Model No UMTX65-12-*



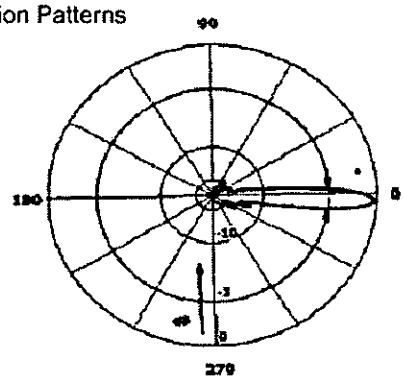
Frequency	1900 to 2170 MHz
Gain	17.5 dBi
Input Impedance	50 ohms
VSWR	< 1.4:1
Polarisation	±45°
Electrical downtilt	0°, 2°,4°
Inter-port isolation	> 30dB
Azimuth beamwidth	65°
Elevation beamwidth	7.5°
1st upper sidelobe	< -14 dB
1st Null	> -25 dB
Front to back ratio	> 30 dB
Intermodulation	< -153 dBc for 2 x 20 W carriers
Input power	2 x 125 W
Input connector	7/16 -DIN female, 2 connectors at the bottom
Temperature	-40°C to +60°C
Mounting interface	Wall or pole 2 – 4.5 in diameter (48 – 115 mm), c/w pan & tilt
Survival wind speed	200 km/h
Wind loads	Front: 180 N (at 150 km/h) Back: 270 N (at 150 km/h) Side: 115 N (at 150km/h)
Weight	Antenna 3.5 kg Bracket 3 kg
Dimensions	1270 x 184 x 82mm

Mounting bracket required: TBA

Typical Radiation Patterns



Azimuth Pattern



Elevation Pattern

Radiation patterns available from the CSA Website in all the software planning tools
Visit http://www.csa-wireless.com

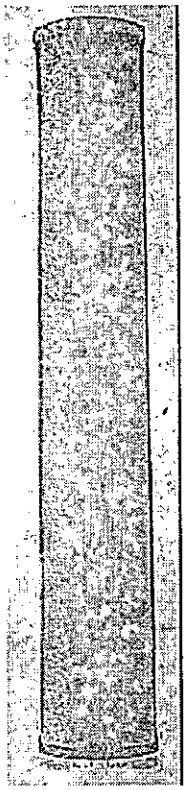
CSA Limited, Knight Road, Rochester, Kent, England ME2 2AX.
Tel +44 (0)1634 715544 Fax +44 (0)11634 715742 e-mail sales@csauk.com
Americas office: Conover NC Tel (001) 828 466 0421 Fax (001) 828 4660413 e-mail

2000 CSA reserves the right to modify or change the specifications shown above

CSAWireless

"Freedom" UMTS 65°/18.5dBi X-Pol Antenna

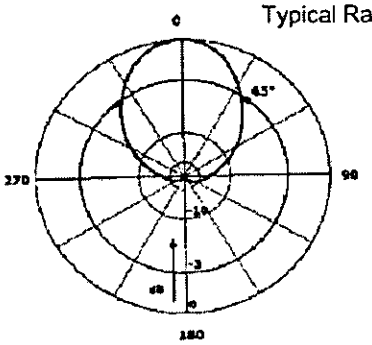
Model No UMTX65-17-*



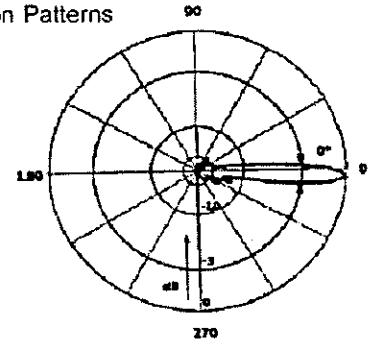
Frequency	1900 - 2170 MHz
Gain	18.5 dBi
Input Impedance	50 ohms
VSWR	< 1.4:1
Polarisation	±45°
Electrical downtilt	Various options available on request
Inter-port isolation	> 30dB in Tx, > 27dB in Rx
Azimuth beamwidth	65°
Elevation beamwidth	5°
1st upper sidelobe	< -16 dB
1st Null	> -25 dB
Front to back ratio	> 30 dB
Intermodulation	< -153 dBc for 2 x 20 W carriers
Input power	2 x 125 W
Input connector	7/16 - DIN female, 2 connectors at the bottom
Temperature	-40°C to +60°C
Mounting interface	Wall or pole 2 – 4.5 in diameter (48 – 115 mm), c/w pan & tilt
Survival wind speed	200 km/h
Wind loads	Front: 400N at 150 km/h Back: 430N at 150 km/h Side: 165N at 150 km/h
Weight	Antenna 5 kg Bracket 3 kg
Dimensions	1720 x 184 x 82

Mounting bracket required: XSL54256

Typical Radiation Patterns



Azimuth Pattern



Elevation Pattern

Radiation patterns available from the CSA Website in all the software planning tools
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CSA Limited, Knight Road, Rochester, Kent, England ME2 2AX.
Tel +44 (0)1634 715544 Fax +44 (0)11634 715742 e-mail sales@csauk.com
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2000 CSA reserves the right to modify or change the specifications shown above

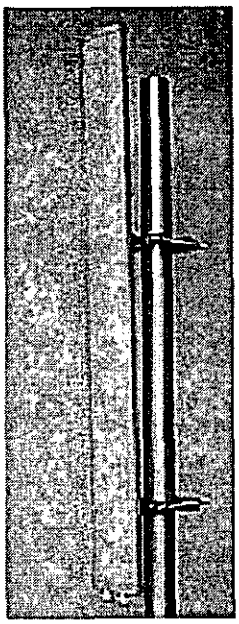
3.2 Thales



UMTS
65°/18 dBi
DUAL-POLARISED
ANTENNA

3G

Dual Polarised Antenna
Type: 2209



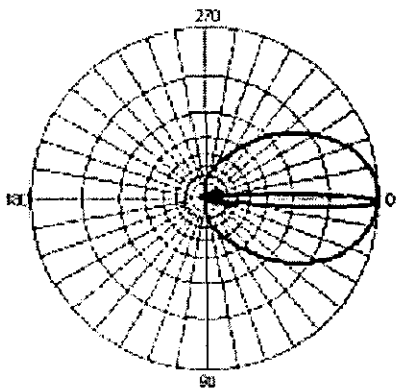
- SINGLE-BAND 3G APPLICATIONS
- ULTRA LOW-PROFILE RADOME
- SIDELOBE SUPPRESSION

The '3G Series' of panel antennas from Racal have been designed to easily facilitate the installation of Third Generation Cellular infrastructure into new or existing networks. A number of models provide variations in both gain and fixed electrical downtilt to exactly suit the required cell coverage. Slimline radomes reduce visual impact & provide an easily installed, robust enclosure. An extremely low component count and one-piece PCB result in consistently high product quality and reliability, having an excellent intermodulation performance. The mounting brackets enable Tilt or Pan + Tilt options. Two connectors are provided on the base of the unit.

TECHNICAL SPECIFICATION

MODEL 2209

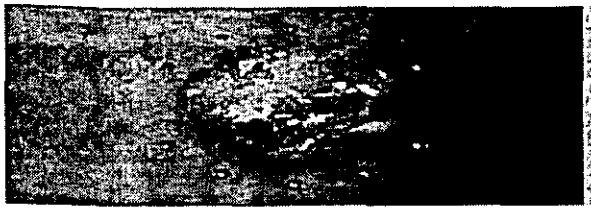
Frequency	:	1900 - 2170 MHz
Horizontal Beamwidth	:	65°
Vertical Beamwidth	:	7°
Gain	:	18 dBi
VSWR	:	1.2:1 typical
Fixed electrical downtilt options	:	2, 4, 6, 8 or 10°
Upper sidelobe suppression	:	< 18 dB
Below horizon null-fill	:	1st null <18 dB below beam peak
Isolation	:	30dB typical
Front-to-back ratio	:	>30 dB @ ± 180° azimuth
Power handling	:	200 Watts
Connectors	:	2 x 7/16" DIN (socket at bottom)
Dimensions	:	1315 mm x 142 mm x 43 mm
Operational wind speed	:	45 m/s (160 Km/h)
Survival wind speed	:	56 m/s (200 Km/h)
Max wind loading (Front)	:	268 N @ 45m/s
Weight	:	4.2 Kg
Temperature Range	:	- 40°C to + 70°C
Bracket Options	:	Tilt only ± 8° Pan (± 30°) & Tilt (8° down 2° up)



RACAL ANTENNAS

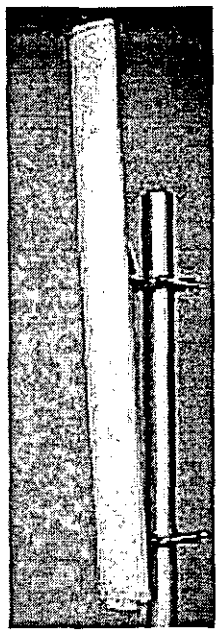
Telephone: +44 (0) 23 8070 5705 Fax: +44 (0) 23 8070 1122 e-mail: sales@racal-antennas.co.uk http://www.racal-antennas.com/

Racal reserve the right to vary in detail from the description and specification in this publication 11/00 Issue 1



UMTS 65°/18.5 dBi DUAL-POLARISED ANTENNA

Dual Polarised Antenna Type: 2212



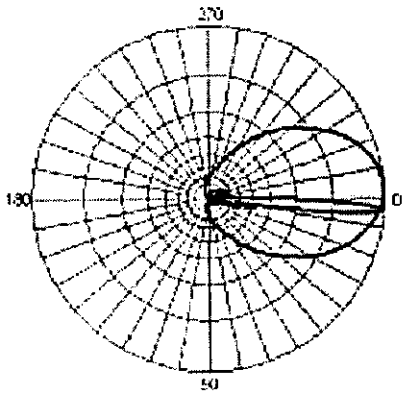
- SINGLE-BAND 3G APPLICATIONS
- ULTRA LOW-PROFILE RADOME
- SIDELOBE SUPPRESSION

The '3G Series' of panel antennas from Racal have been designed to easily facilitate the installation of Third Generation Cellular infrastructure into new or existing networks. A number of models provide variations in both gain and fixed electrical downtilt to exactly suit the required cell coverage. Slimline radomes reduce visual impact & provide an easily installed, robust enclosure. An extremely low component count and one-piece PCB result in consistently high product quality and reliability, having an excellent intermodulation performance. The mounting brackets enable Tilt or Pan + Tilt options. Two connectors are provided on the base of the unit.

TECHNICAL SPECIFICATION

MODEL 2211

Frequency	:	1900 - 2170 MHz
Horizontal Beamwidth	:	65°
Vertical Beamwidth	:	5.3°
Gain	:	18.6 dBi
VSWR	:	1.4:1 max
Fixed electrical downtilt options	:	2, 4, 6, 8 or 10°
Upper sidelobe suppression	:	< 18 dB
Below horizon null-fill	:	1st null <18 dB below beam peak
Isolation	:	30dB typical
Front-to-back ratio	:	>30 dB @ ± 180° azimuth
Power handling	:	200 Watts
Connectors	:	2 x 7/16" DIN (socket at bottom)
Dimensions	:	1682 mm x 142 mm x 43 mm
Operational wind speed	:	45 m/s (160 Km/h)
Survival wind speed	:	56 m/s (200 Km/h)
Max wind loading (Front)	:	359 N @ 45m/s
Weight	:	5.5 Kg
Temperature Range	:	- 40°C to + 70°C
Bracket Options	:	Tilt only ± 8° Pan (± 30°) & Tilt (8° down 2° up)



RACAL ANTENNAS
Telephone: +44 (0) 23 8070 5705 Fax: +44 (0) 23 8070 1122 e-mail: sales@racal-antennas.co.uk http://www.racal-antennas.com/

Racal reserve the right to vary in detail from the description and specification in this publication - 12/00 Issue 1

13.FEB.2002* 5899

SUPPORTING STATEMENT

This document has been produced in order to assist Local Planning Authorities in determining planning applications and notifications under the General Permitted Development Order (GPDO) for telecommunications development made on behalf of Hutchison 3G UK.

Whilst submitted as general background information to assist the determining of planning applications and GPDO notifications, the document does not constitute a formal part of any application and is not meant as a substitute for ongoing discussion on any specific proposal. Instead, the document is submitted as a complimentary aid to that process.

1.0 WHO ARE HUTCHISON 3G UK?

Hutchison 3G UK (H3G) were awarded one of the third generation mobile licences by the Department of Trade and Industry to run a public telecommunications service in the UK. Hutchison Whampoa, NTT DoCoMo and KPN own H3G. It is now investing in deploying a network for a potential launch in 2002. Hutchison 3G UK is required by the terms of our license to meet a coverage level of 80% of the UK population by 2007.

The licence permits allows us to operate at a frequency of 2.1 GHz

1920.0 – 1934.9 MHz – Base receive
2110.3 – 2124.9 MHz – Base transmit
1914.9 – 1920.0 MHz – Base transmit/receive in Time Division Duplex

2.0 WHY THE NEED FOR A NEW TELECOMMUNICATIONS SERVICE?

Firstly, mobile phone usage has grown exponentially and far in excess of that estimated.

Secondly and importantly for a 3rd Generation operator the introduction of technological developments will allow faster data transfer, direct access to the Internet from the handset and allow the use of videophones. It is anticipated that there will be an increase in data related traffic for video, pictures, text and other digital information and that the demand for this type of communication will increase the demand for mobile technology and the associated communications infrastructure.

Hutchison 3G UK aims to be in the vanguard in the roll out of 3rd Generation technology across Europe.

3.0 THE SITE SELECTION PROCESS

H3G's site selection strategy until launch is to keep our overall environmental impact to a minimum. The key to this will be for H3G to site share wherever we possibly can. To this end we will target:

- Existing telecommunications structures
- Buildings or rooftops
- Other useable utility based structures such as electricity pylons

New Greenfield or Brownfield sites will only be developed where there are no viable or accessible alternatives or it is the planning authority's preferred approach.

H3G have developed a number of agreements with providers of telecommunications infrastructure or companies with infrastructure that might be suitable for development to a telecommunications use. When the search area has been identified the Network Planning Engineer together with the Planning and Acquisition Consultants will use these agreements to identify possible sites. Within the search area, priority is being given to using pylon sites where possible to minimise any visual impact.

The Acquisition Consultant will then contact the building / land owners for the identified site and arrange a site visit. The Acquisition Consultant will provide the Network Planning Engineer with a Search Report, which will show the possible locations and access for the equipment. The search report includes a set of panoramic photographs from the possible antenna heights (illustrating for instance any obstructions that will affect the coverage from the site).

The Engineer will use the coverage prediction tool to make sure the identified site will provide the required coverage levels. Should the results be satisfactory the Engineer will then produce an initial design, which is used by the professional designer to produce detailed drawings of the installation. These drawings are agreed with the site provider and are used a part of the planning application.

As part of the process, the Transmission Engineer will make sure that the new sites can be networked into the existing network using microwave or leased line transmission links.

4.0 COVERAGE LEVELS AND TYPICAL CELL SIZE

The combination of the significantly faster data rates, the need to reduce interference within and between cells and the lower power output from 3G equipment means that the typical cell size for 3G is smaller than that generally associated with 2G.

5.0 SITE SEARCH

In accordance with our Licence obligations and PPG8, H3G's Network Planner, Acquisition and Planning Consultants will have undertaken an inspection of the area of search and investigated the following in order of preference:

- Using an existing telecommunications structure belonging to another communications operator
- Existing high building or other structure, including National Grid pylons
- A new site on brownfield land
- A new Greenfield site

6.0 PRE-ROLLOUT DISCUSSIONS

Under the Licence granted to H3G by the Government it is a condition that pre-rollout discussions are held with the local authority. Hutchison 3G UK is committed to carrying out a comprehensive pre – rollout programme.

7.0 THE LEGISLATIVE FRAMEWORK

7.1 Introduction

As a company operating in the UK, H3G is bound by all relevant territorial and European legislation. Particularly relevant to network development are the requirements and obligations flowing from three separate areas of legislation.

- Telecommunications
- Planning
- Health and Safety

7.2 Telecommunications

H3G is a licensed telecommunications code systems operator under the Telecommunications Act 1984. The current Licence was granted on 22nd December 2000 by the Secretary of State for Trade and Industry

The minimum network coverage requirement is specified in the Licence as being an area of where 80% of the UK population live by 2007.

7.3 Planning

7.3.1 General Permitted Development Order

As a licensed telecommunications code systems operator, H3G enjoys certain permitted development rights as set out in Part 24 Schedule 2 of the Town and Country Planning (General Permitted Development) Order 1995, as amended (GPDO). The rights are accompanied by a Code of Best Practice published by the Department of the Environment in March 1996 and DETR Circular 04/99, Planning For Telecommunications (now replaced by revised Planning Policy Guidance Note 8: Telecommunications, August 2001).

7.3.2 Planning Applications

Where development exceeds the limits set out in the GPDO or relates to areas where permitted development rights do not apply, then H3G is subject to the usual requirement for planning permission, requiring the submission of a planning application in the first instance. Any such application is subject to the normal statutory procedures and an important material consideration in its determination will be the guidance set out in PPG8, as well as the relevant policies in the development plan.

If planning permission is granted, the Company will fully comply with all relevant Health and Safety legislation.

7.3.3 Planning Policy Guidance Note 8 – Telecommunications

Revised PPG8: Telecommunications (August 2001) recognises that modern telecommunications are an essential and beneficial element in the life of the local community and in the national economy (Appendix, paragraph 1) and that they can benefit the environment through reducing the need to travel, and hence reducing vehicle emissions of carbon dioxide and other pollutants (Appendix, paragraph 2).

The Government's policy is to facilitate the growth of new and existing telecommunications systems whilst keeping the environmental impact to a minimum (paragraph 1).

Paragraph 6 of PPG 8 states that local authorities should not seek to prevent competition between different operators and should not question the need for the telecommunications system which the proposed development is to support.

7.4 Health and Safety Concerns

Health and Safety legislation covers a range of matters including safety during construction, structural stability and requirements to ensure proper and safe maintenance, as well as issues relating to radio frequency.

7.4.1 The Stewart Report

The Independent Expert Group on Mobile Phones (IEGMP), chaired by Sir William Stewart, was established in April 1999 on instruction of the Minister for Public Health and their report (The Stewart report) was published on 11th May 2000. The report was based on the issues and concerns relating to the 2nd generation rollout of a mobile phone network, however many of the conclusions and recommendations are relevant to and offer valuable lessons to the 3rd generation rollout.

Having heard and considered a large amount and wide range of evidence the main conclusions were as follows:

- The balance of evidence to date does not suggest that emissions from mobile phones and base stations put the health of the UK population at risk. However, given the gaps in our knowledge a precautionary approach to the use of mobile phone technologies is recommended.

- The balance of evidence indicates that there is no general risk to the health of people living near to base stations on the basis that exposures are expected to be small fractions of guidelines. The report does, however, identify a number of indirect adverse effects primarily relating to impacts on local amenity.

- A recommendation that planning controls be extended to masts below 15m in height.

- A call for the random auditing of the emissions base stations particularly near schools and sensitive sites.

- That a substantial research programme should be instituted under the aegis of an independent panel.

7.4.2 The Government's Response

Revised PPG8 (August 2001) advises that the Government accepts the precautionary approach to the use of mobile phone technologies as set out in the Stewart Report, however the acceptance is limited to the specific recommendations made in the report and the Government's response to them (paragraph 31).

The Government's response includes acceptance of the more stringent International Commission on Non-Ionising Radiation Protection (ICNIRP) standard for public exposure.

Under Revised PPG8, all applications for planning permission or prior approval are required to be accompanied with a certificate that confirms that the proposed base station, when operational, will meet the ICNIRP guidelines.

7.4.3 World Heath Organisation (WHO) Report – JULY 2000

The WHO has updated its fact sheet No 193, Electromagnetic Fields and Public Health. It urges regulatory authorities " *not to undermine the science base of (health based) guidelines"* by incorporating *'arbitrary additional safety factors'.* The fact sheet also states that the ICNIRP guidelines " *offer protection against all identified hazards of RF energy with large safety margins."*

The fact sheet concludes *'RH fields levels around base stations are not considered a health risk'.*

7.4.4 Appeal Decisions

Tanridge District Council and One to One Personal Communications Limited verses Mohamed Al Fayed (1999)

The High Court decision made clear that refusal on harm to health grounds would not be sustainable.

Orange Personal Communications Ltd against Restormel Borough Council 2000

Although the appeal closed after the publication of the Stewart report (11th May 2000) further representations were invited and the decision takes these into account. It is in effect the first appeal decision after the Stewart report was published.

One of the conclusions stated was:

" *The IEGMP conclusion still remains one that echoes previous expert views from national and international advisory organisations, i.e. that on the balance of evidence the health of the general public will not be harmed by emissions from base stations. No other matter raised outweighs my conclusion that the evidence presented by possible health impacts does not amount to the substantial risk of harm that I consider would be necessary to outweigh the local and national policy background and the social and economic benefits of providing for modern communications."*

7.4.5 Revised Planning Policy Guidance for England and Wales– Revised PPG8 (August 2001)

The Appendix to Revised PPG8 sets out the Government's position on health considerations in detail. Paragraphs 88 – 92 refer to the Government's response to the Stewart Report and include reference

to the requirement for all base stations to meet the ICNIRP guidelines for public exposure.

Paragraph 93 of the Appendix sets out the responsibilities of operators under health and safety legislation. Ensuring compliance with the relevant guidelines is the responsibility of Government through the Health and Safety Executive and the National Radiological Board. Paragraph 94 of the Appendix states:

" It is not for the local planning authority to seek to replicate through the planning system controls under the health and safety regime. Enforcement of health and safety legislation in this area is a matter for the Health and Safety Executive (HSE) and not the Local Planning Authority."

In terms of considering health aspects of base stations when determining applications, Revised PPG8 states:

" Health considerations and public concern can in principle be material considerations in determining applications for planning permission and prior approval. Whether such matters are material in a particular case is ultimately a matter for the courts. It is for the decision-maker (usually the local planning authority) to determine what weight to attach to such considerations in any particular case."(paragraph 29)

" However, it is the Government's firm view that the planning system is not the place for determining health safeguards... In the Government's view, if a proposed mobile phone base station meets the ICNIRP guidelines for public exposure it should not be necessary for a local planning authority, in processing an application for planning permission or prior approval, to consider further the health aspects and concerns about them."(paragraph 30)

Accordingly, the Appendix to PPG8 advises, at paragraph 99, that all applications should be accompanied by the following:

- Certificate of compliance with ICNIRP guidelines
- Details of site location, antenna height, frequency and modulation characteristics and power output
- Where a mobile phone base station is added to an existing mast or site, confirmation that the cumulative exposure will not exceed the ICNIRP guidelines

Paragraph 31 of PPG8 states:

" In the Government's view, local planning authorities should not implement their own precautionary policies, e.g. by way of imposing a ban or moratorium on new telecommunications development or insisting on minimum distances between new telecommunications development and existing development."

8.0 COMPLIANCE WITH ICNIRP

Hutchison 3G UK have welcomed the recommendation that base station sites should comply with the INCIRP guidelines for public exposure and we believe this will increase public confidence in the safety of transmitter sites.

As stated above the Department of Transport, Local Government and the Regions have issued guidance to the local authorities stating that if a new telecommunication site meets the ICNIRP guidelines then it is not necessary for the Planning Authority in processing an application to consider the health effects further.

H3G can confirm that all the proposed sites will comply with Health and Safety legislation and in particular the ICNIRP guidelines.

All applications will be supported by information relating to ICNIRP compliance including an ICNIRP compliance certificate.

9.0 BENEFITS

Government policy as indicated in PPG8 is to encourage modern telecommunications as being an essential and beneficial element in the life of the local community and in the national economy and a means of benefiting the environment through reducing the need to travel. Although not mutually exclusive or exhaustive, an illustration of common benefits is set out below under three categories:

- Local benefits
- Contribution to sustainability
- Contribution to the national economy

9.1 Local Benefits

The majority of the UK population now have access to a mobile phone. This has clear economic and social benefits in terms of access to emergency services, improved personal safety, accessibility to services and customers, avoidance of delay, and generally enhanced communications.

9.2 Contribution to Sustainability

Mobile communications includes messaging, faxes and data transference (via the use of modems and computers) and accessibility to them is changing the way in which we live and work. The next generation of services will link these with video and television services. At it's simplest, the creation of local job opportunities and full or part time home working, facilitated through access to modern communications help can significantly reduce the need to travel. Likewise, being in constant communication can avoid wasted journeys or make the best use of public transport - for instance accessing real time information on the arrival of the next bus or train.

At its most complex, mobile communications facilitates modern forms of working such as hot desking or even hot officing, so reducing and in some cases eliminating the need for office accommodation. As these modern working practices gain greater hold so the demand for office accommodation and the need to travel to and from these locations will change In addition, by reducing the number of commuters, the pressure on all forms of transport and the consequential road congestion often experienced during peak hours should be reduced, leading to clear environmental benefits.

9.3 Contribution to the National Economy

All businesses, from large to small, benefit from modern communications, which helps them, maintain and attract new business and service contracts in a responsive and competitive manner.

In addition, telecommunications is an increasingly important sector of the economy in its own right. It currently represents 3% of GDP and the network operators employ over 213,000 people. There are more than 32 million telephone exchange lines and in addition, some 40 million mobile phone subscribers. Information supplied by the Department of Trade and Industry indicates that the mobile phone industry is a major contributor to economic activity in the UK and that many of our telecommunications based companies are world leaders. The Network operators had an estimated combined turnover of some £5.8 billion in the financial year 1998/1999.

There are numerous companies which specialise in the manufacture of telecommunications equipment from handset to radio masts and sophisticated electronic equipment. Examples of companies with substantial operations in the UK include Nokia and Motorola.

There are also now many people involved in the sale of mobile communications equipment, often operating from dedicated high street shops.

Accessibility to modern communications, reductions in the price of calls and customer comfort in using the telephone has also seen the spawning of a range of products and services being sold by way of direct marketing, such as telephone banking and insurance. In turn, this has seen the development of a large number of call centres, some employing several hundred people, to the benefit of the particular local economies where they are situated.

The Government has as one of its core objectives, making the UK the best place in the world to do business electronically by 2002. Initiatives such as the Information Age are proof of the Government's commitment in this area recognising the role the communication sector plays as a fundamental bedrock for successful business.

Hutchison 3G

Declaration of Conformity with ICNIRP Public Exposure Guidelines ("ICNIRP Declaration")

Hutchison 3G UK
Star House, 20 Grenfell Island
Maidenhead, SL6 1EH

13.FEB.2002* 5899

Certifies that the proposed equipment and installation as detailed in the attached planning / GPDO application at:

Wyvols Court
Barge Lane, Swallowfield
-

Nominal ID: **RG1434**
Candidate ID: **00192737**
Drawing No: **00192737-111**
Issue No: **B1**

is designed to be in full compliance with the requirements of the radio frequency (RF) public exposure guidelines of the International Commission on Non-Ionising Radiation Protection (ICNIRP), as expressed in EU Council recommendation of 12 July 1999 * "on the limitation of exposure of the general public to electromagnetic fields (0Hz to 300 GHz)".

* Reference: 1999/519/EC

Date: **1-Feb-2002**

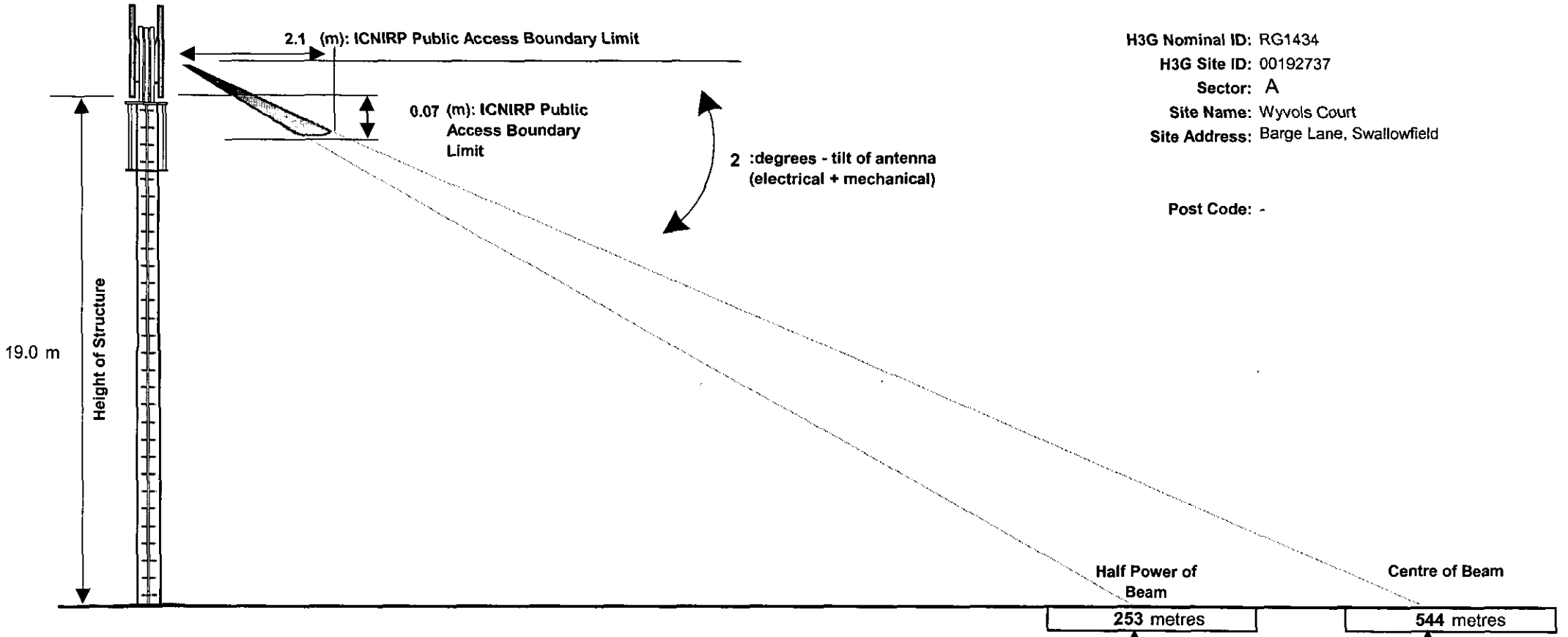
Signed By:

Name: Simon Nowacki

Position: Radio Planner

Emissions Profile

Hutchison 3G



H3G Nominal ID: RG1434
H3G Site ID: 00192737
Sector: A
Site Name: Wyvols Court
Site Address: Barge Lane, Swallowfield

Post Code: -

0.001975 W/m^2
5,062 x less than ICNIRP Standard
0.86 V/m

0.000852 W/m^2
11,735 x less than ICNIRP Standard
0.57 V/m

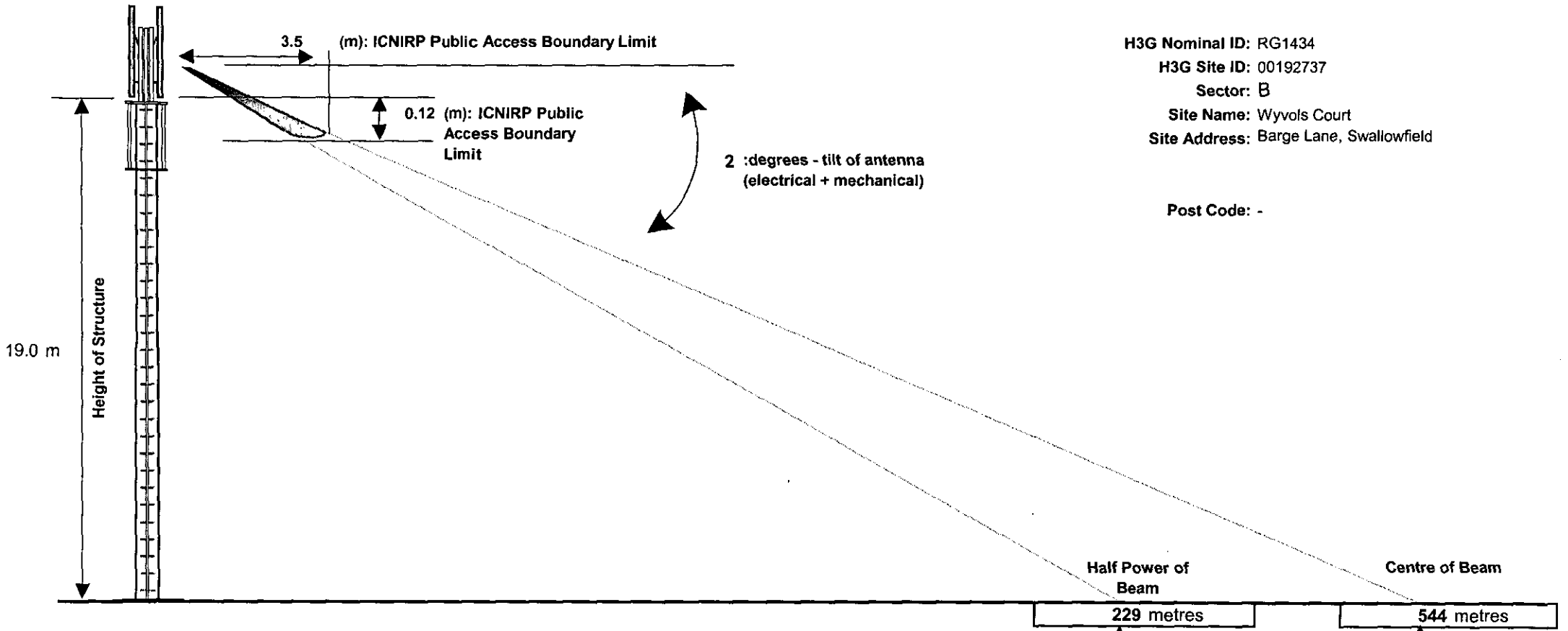
The above structure is solely used for demonstration purposes and is not intended to reflect the actual appearance of the site. The drawing is not to scale.

This theoretical model estimates the worst case emissions based on the proposed configuration. The model assumes optimum propagation and no attenuation due to trees, buildings or other obstructions. Hutchison 3G reserves the right to change this configuration for operational reasons.

The calculations have been completed in accordance with the Stewart Report guidelines [ref. 4.30-4.36].

Emissions Profile

Hutchison 3G



H3G Nominal ID: RG1434
H3G Site ID: 00192737
Sector: B
Site Name: Wyvols Court
Site Address: Barge Lane, Swallowfield

Post Code: -

0.002412 W/m²
4,145 x less than ICNIRP Standard
0.95 V/m

0.000852 W/m²
11,735 x less than ICNIRP Standard
0.57 V/m

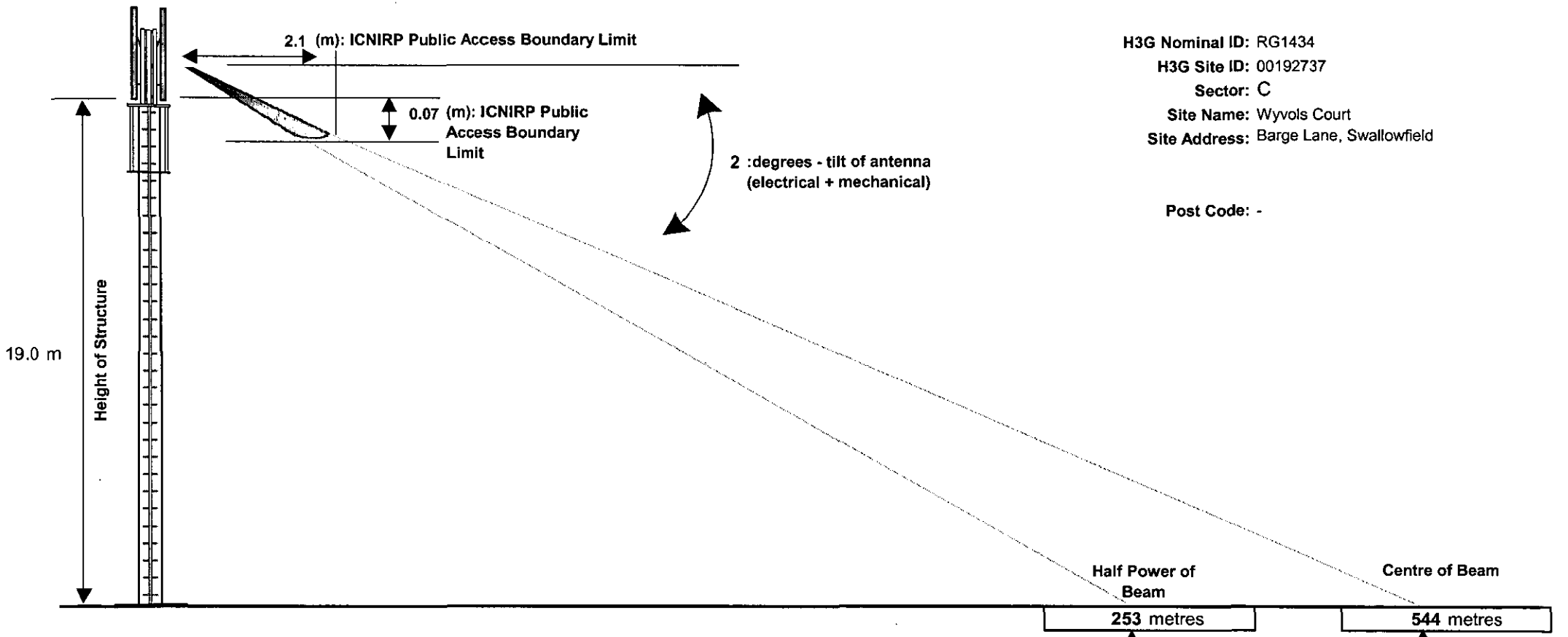
The above structure is solely used for demonstration purposes and is not intended to reflect the actual appearance of the site. The drawing is not to scale.

This theoretical model estimates the worst case emissions based on the proposed configuration. The model assumes optimum propagation and no attenuation due to trees, buildings or other obstructions. Hutchison 3G reserves the right to change this configuration for operational reasons.

The calculations have been completed in accordance with the Stewart Report guidelines [ref. 4.30-4.36].

Emissions Profile

Hutchison 3G



H3G Nominal ID: RG1434
H3G Site ID: 00192737
Sector: C
Site Name: Wyvols Court
Site Address: Barge Lane, Swallowfield

Post Code: -

0.001975 W/m²
5,062 x less than ICNIRP Standard
0.86 V/m

0.000852 W/m²
11,735 x less than ICNIRP Standard
0.57 V/m

The above structure is solely used for demonstration purposes and is not intended to reflect the actual appearance of the site. The drawing is not to scale.

This theoretical model estimates the worst case emissions based on the proposed configuration. The model assumes optimum propagation and no attenuation due to trees, buildings or other obstructions. Hutchison 3G reserves the right to change this configuration for operational reasons.

The calculations have been completed in accordance with the Stewart Report guidelines [ref. 4.30-4.36].

WOKINGHAM DISTRICT COUNCIL
ENVIRONMENTAL PROTECTION AND HOUSING

MEMORANDUM

To:	Helen Pollock Development Control	Your Ref:	F/2002/5899
From:	Tom Payne Environmental Health	My Ref:	000388
		Date.	6 March 2002

PROPOSED ERECTION OF 21m HIGH MONOPOLE WITH ANTENNAS AND 3 MICROWAVE DISHES WITH ONE CABINET.

WYVOLS COURT FARM, BASINGSTOKE ROAD, SWALLOWFIELD, READING.

These proposals have been evaluated and I have no environmental health objections to planning consent but have the following comments to make in relation to this proposal:

There have been questions raised as to the possibility of adverse health effects from electromagnetic radiation from telecommunication base stations and their positioning in relation to residential development and, in particular schools.

The Chartered Institute of Environmental Healths current policy states that;

(a) despite a growing body of research, there is currently no convincing evidence that environmental exposure to electromagnetic fields (emf) generated by the transmission of electricity or mobile telephony is harmful to human health, including that of children;
(b) that there is no justification on health grounds for restricting the public use of land other than immediately around power and mobile telecommunications installations. Conversely, there is no justification for restricting the siting of such installations in proximity to other land uses:
(c) that public concerns about the effects of electromagnetic fields while in our current state of knowledge apparently without foundation, should nonetheless be recognised as genuine.
(d) The full effects of emfs on humans may not yet be realised and though it can never be conclusive, there remains a need for continuing, properly funded, independent research into the nature, extent and relevance of those effects and the consequent adequacy of prevailing exposure guidelines.

Should you have any queries please do not hesitate to contact me.

T. Payne.

TOM PAYNE
SENIOR ENVIRONMENTAL HEALTH OFFICER
ENVIRONMENTAL PROTECTION & HOUSING

SWALLOWFIELD PARISH COUNCIL

PENTON COTTAGE
SWALLOWFIELD STREET, SWALLOWFIELD
READING, BERKS, RG7 1QX
Tel: 0118 988 5929 Fax: 0118 988 6443
email: clerk@swallowfieldpc.gov.uk

PLANNING SERVICES
18 MAR 2002

13th March 2001

FAXED AND POSTED

Planning Dept.,
P.O. Box 157,
Wokingham District Council,
Shute End,
Wokingham,
Berks. RG40 1WR

Dear Sirs,

Application Number: F/2002/5899
Location: Wyvols Court Farm, Basingstoke Road, Swallowfield
Proposal: Proposed erection 0f 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet.
Case Officer: Helen Pollock

The Parish Council wishes Wokingham District Council to note that the location is not on the Basingstoke Road, but at Barge Lane with the junction of A33 Swallowfield By-Pass.

The Parish Council accepts that there is a need for additional masts as a consequence of third generation communications. However the Parish Council also considers that insufficient effort is made by telecommunications companies to share the same site, thereby minimising the overall visual impact of the masts. There are several existing sites in the vicinity with permissions, and the Parish Council fails to understand why this mast could not be added to one of these sites.

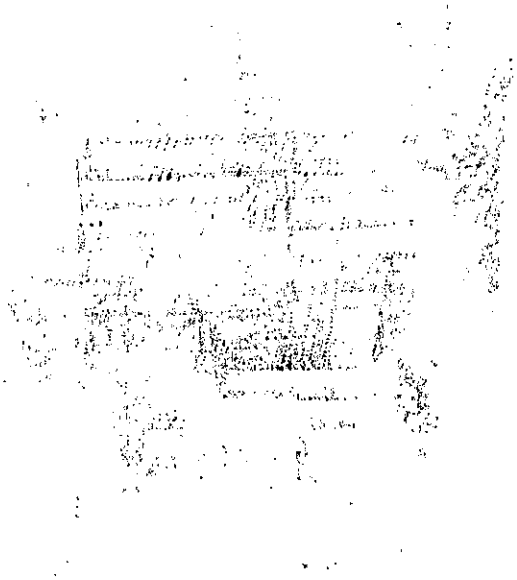
The Parish Council notes that the applicant has given reasons for not choosing two sites – but are these reasons acceptable, or are they given purely to persuade the planning authority that they need a new site, whilst in fact their reasons cannot be substantiated? In addition are these the only two sites available, given that there are other telecommunication sites within about a mile?

The Parish Council therefore trusts that the District Council will satisfy itself that there is no possibility of this mast being incorporated into an existing site before granting permission.

Yours faithfully,

C Adams

Mrs. C. Adams, Clerk



13.FEB.2002* 5899

Hutchison 3G

PLANNING APPLICATION CHECKLIST

Site details

Site Name	**Wyvols Court Farm**	**Site Address**	**Wyvols Court Farm, Barge Lane, Swallowfield, Berkshire.**
NGR	**471353 164355**		
Site Ref Number	**RG1434**	**Date**	**11/2/02**
Site Type[1]	**MACRO**		

Check list

1. Date of last pre-rollout information exchange with local planners	28th November 2001
2. Name of LPA contact	Mr A. Cronin
3. Comments – Barton Willmore on behalf of Hutchison 3G have sought to arrange a pre roll out meeting, and were advised that this arrangement would not be appropriate at this stage.	

4. Date of written offer of pre-application consultation with local planners?	28/11/01	
5. Was there a pre-application meeting with local planners	NO	
6. Date of meeting or consultation with local planners	N/A	
7. Name of LPA contact	N/A	
8. Results of consultation N/A		

9. Was the LPA register of sites checked for suitable sites?		**No**
(if no explain why) No such register exists.		
10. Was the Industry (OPD)database checked for suitable sites? (if no explain why)	**Yes**	
11. Reasons why site required (e.g. Coverage, capacity) Is a copy of the search area plan available for inclusion? For coverage purposes. Coverage Simulations enclosed.		

[1] Macro or micro

Site selection process – alternative sites considered and not chosen if there are no alternatives explain why.

Site[2]	Site Name and address	NGR	Reason for not choosing[3]
	Orange Tower	470450 165450	Unable to use due to proximity to other sites and would not provide coverage to the required area.
	Pylon	471300 164400	Does not have sufficient height to be used as telecommunication mast.

[2] ETS - Existing Telecomm site, ES - Existing Structure, RT - Roof Top, GF - Greenfield
[3] SP - Site Provider, RD - Redevelopment Not Possible, T - Technical Difficulties, P – Planning
O – Other

Technical information

1. Declaration of conformity with ICNIRP public exposure guidelines attached	**yes**	
2. Coverage plots attached	**yes**	
3. Planning drawings/ photo montages (where appropriate) attached	**yes**	

4. Frequency	**2100 MHz**
5. Modulation characteristics	**Standard information attached**
6. Power output	**62 dBm**
7. Height of antenna (m) AGL	**18.2 m**

Reason for choice of design – including technical/environmental design criteria
Green Monopole, to for visual amenity reasons.

Additional proposed community consultation (if applicable)
N/A

Additional relevant information
N/A

Signed B Stephenson **Date** **11/02/02**
Position **Planner** **Company** **Barton Willmore Planning Partnership.**

On behalf of Hutchison 3G UK

WORK SHEET FOR : Helen Pollock

Application Number : F/2002/5899

Applicant : Hutchinson 3G UK Ltd C/O Barton Willmore Planning P/Ship.

Location : Wyvols Court Farm, Basingstoke Road, Swallowfield, Reading.

Proposal : Proposed erection of 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet.

Site Notice Displayed ? :

YES	NO	DATE
✓		18/03/02

Date of Neighbour Notifications : .....

Date of Site Visit : .....

Date Registered : 13/02/2002

Earliest Date for Decision : 15/03/2002

Latest Consultation Date/Site Notice Expiry Date : 15/03/2002

This application will have expired on: 10/04/2002. You need to make a decision 1 day prior to this date for this application to count as determined in less than 8 weeks.

Consultation Responses :

Landscape - Concern over colour — Grey would be better additional planting would be required.

E.H - No objections.

minerals

~~highways~~ : No objection

Parish Council : Concern as to companys exploration of sharing possibil

Planning Issues :

Rural Area / Countryside

ASLI

Green Route

Application Number: F/2002/5899

Appraisal :

The proposal is for the erection of a 21m high monopole with 3 antennas + 3 microwave dishes + an equipment cabin.

The pole would be 800mm wide, with the microwave dishes sticking out another 500mm. the proposed equipment cabin would be 1.8m long by 0.8m wide + 1.9m tall. The mast + cabin would be enclosed in a compound 8m long by 5m wide.

The mast would be positioned along side the A33 in a slightly elevated position. The site is partially screened by vegetation.

Several other masts are located at various points along the A33 and are clearly visible. It is not considered that this proposed mast would have any additional adverse impact upon the character of the area.

The mast is proposed to be coloured green, this is considered to be out of keeping with the area, by the landscape architect who feels that a grey colour would be more appropriate, as the majority of the mast would be seen against the sky. Providing this is conditional, along with a condition for additional native planting to screen the compound the landscape Architect has no objection to the proposal.

Recomendation : Approval: ☑ **Refusal:** ☐
(tick appropriate box)

Application Number F/2002/5899
Conditions/Reasons for Refusal

No	Std Con	Std Reas	Non Std Conditions / Reasons for Refusal
1	Con	Reas	
2	→		The proposed mast shall be grey in Colour, and the proposed equipment Cabin shall be dark green in Colour, And permanently maintained as such.
3	→		No development shall take place until there has been submitted to + approved in writing by the LPA a scheme of landscaping to the North, East + West sides of the site; The scheme should include native tree + shrub block planting, extending further beyond the Compound than just a hedgerow planted adjacent to the fence to prove maximum visual benefit. The approved landscaping scheme shall be implemented prior to the Commencement of operation of the mast hereby approved + retained.
		2 + 3	In the Interests of Visual amenity

Informative for approvals

N16

LODDON AREA LOCAL PLAN POLICIES:

SOUTH-EAST AREA LOCAL PLAN POLICIES:

WOKINGHAM DISTRICT LOCAL PLAN POLICIES: W1C14

GREEN BELT LOCAL PLAN POLICIES:

BERKSHIRE STRUCTURE PLAN POLICIES: TC1

MINERALS LOCAL PLAN POLICIES:

RECOMMENDATION AND CONDITIONS/REASONS AGREED: T E Watson
(Development Control Manager)

Date: 4/4/02

RECORD OF SITE VISIT

SITE ADDRESS: Wyvols Court Farm
Basingstoke Road Swallowfield
Reading.

APPLICATION NUMBER: F/2002/5899

OFFICER: Helen Pollock

DATE OF SITE VISIT: 18/03/02

1 SITE/STATUTORY NOTICE DISPLAYED ? Yes

2. DESCRIPTION OF SURROUNDINGS
Rural along main Rd (A33)

3. DESCRIPTION OF SITE/BUILDING
Part screened from A33 by veg.
3 dead trees to S.
Slightly raised up from Rd.

4. RELATIONSHIP TO ADJOINING PROPERTIES

5. SITE CONSTRAINTS

TREES None to be affected

ACCESS/PARKING

LEVELS Slightly raised up from Rd.

BOUNDARY TREATMENT

OTHERS

There are several other masts clearly visable along the A33 ∴ this one would have no additional impact.

Tel: 0118 974 6480

Date: 22/03/02

My ref: F/2002/5899

WOKINGHAM UNITARY
Aiming for Excellence

CONFIDENTIAL

Councillor D Beatty
The Lieutenants Cottage
Three Mile Cross
Reading
RG7 1AP

Environmental Services Department
Planning Services
P.O. Box 157
Shute End, Wokingham
Berkshire RG40 1WR
Tel: (0118) 974 6000
Fax: (0118) 974 6484
Minicom No: (0118) 974 6991
DX: 33506 – Wokingham

Dear Councillor

Application Number: F/2002/5899
Wyvols Court Farm, Basingstoke Road, Swallowfield, Reading.
Proposed erection of 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet.

I write to let you know that the above mentioned application has been recommended for APPROVAL: ☑ REFUSAL: ☐ under delegated powers.

If you have any questions please do not hesitate to contact **Helen Pollock** on **0118 974 6480**. If you then feel the application needs to be transferred to the next available Development Control Committee for decision please fill in the form below.
This form must be received no later than 02/04/02

Yours faithfully

Principal Development Control Officer

IP

LISTING FORM
Case officer: **Helen Pollock** Application Number: **F/2002/5899**
Wyvols Court Farm, Basingstoke Road, Swallowfield, Reading.
Proposed erection of 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet.

Transfer: Yes ☐ No ☐
Reason for Transfer:

_____

_____

Signed: _____ Date: _____

Councillor D Beatty

NB. It would be helpful for speedy decision making if you could respond, even if you do not wish this application to be transferred.

TO: **DEVELOPMENT CONTROL**
Helen Pollock

FROM: Environmental Design

DATE: 6 February 2002

Location:	Wyvoles Court Farm, Basingstoke Road, Swallowfield
Proposal:	Proposed erection of 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet.
Application Number:	F/2002/5899

In response to your consultation dated 19 February 2002 for the above application, the landscape comments are as follows:

The site is located within the countryside designated as an ASLI. It is also adjacent to the A33, which is designated as a Green Route.

The site is partially screened from the A33 by existing vegetation on the southern boundary of the field with intermittent vegetation growing along the western boundary. The three large trees on the southern boundary are correctly shown as dead on the site plan and therefore will do little to soften the visual impact of the pole from the A33. The land on which the monopole will be erected is higher than the surrounding land to the south and west, which will increase its height above the young vegetation to the south.

With the proposed pole being green, it will be a visually intrusive feature within the landscape, as most of the monopole will be seen against the sky, which is not green. Often the shade of green is not harmonious with the greens found in nature and therefore I consider the proposal to paint it green to be unacceptable.

The applicant will need to reinforce the vegetative boundary on the western side of the site and provide additional planting around the northern and eastern sides of the compound as at present there is no form of screening to help soften views of the cabinet and fencing of the compound. This is important as the monopole is located within an ASLI and on a green route in a strategic position where it will be highly visible from a major road. The type of planting that should be considered is native tree and shrub block planting that will need to extend further from the compound than just a hedgerow planted adjacent to the fence to provide maximum visual benefit.

Catherine Brimble

Catherine Brimble
Landscape Architect

To:
Minerals
Tanya Davies

From: Helen Pollock

Date: 19 February 2002

Application Number: F/2002/5899

Proposal: Proposed erection of 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet..

Site Address:
Wyvols Court Farm, Basingstoke Road, Swallowfield, Reading.

Applicant:
Hutchinson 3G UK Ltd C/O Barton Willmore Planning P/Ship.

Your observations are required in respect of this application within **7 days** of the above date.

Thankyou for consulting me on this application. I do not have any comments to make from a minerals or waste perspective.

Tanya Davies

20.2.02

Received by Wokingham District Council

Application No: F/2002/5899

Proposal:
Proposed erection of 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet.

Location:
Wyvols Court Farm, Basingstoke Road, Swallowfield, Reading.

The application is available for inspection at Wokingham District Council's offices during the following times:

PLANNING DEPARTMENT, SHUTE END, WOKINGHAM TEL (0118) 974 6428
8.30 - 5.00 Monday - Thursday & 8.30 - 4.00 Friday

WOODLEY LIBRARY HEADLEY ROAD WOODLEY 9.30am - 7.00pm Mon, Thurs & Fri. 9.30am - 5.00pm Tues, 9.30am - 1.00pm Saturday and 1.00pm - 4.00pm Sunday. Library closed all day Wednesday. If you intend to view this application at Woodley Library please allow 4 days from the date of this letter for delivery of plans and remember to quote application number F/2002/5899 to enable the library staff to locate the correct information.

Comments should be sent in writing QUOTING THE APPLICATION NUMBER to the Case Officer Helen Pollock P.O. Box 157 Council Offices, Shute End, Wokingham Berkshire, RG40 1WR to arrive on or before 15/03/2002. Written comments submitted will become available for public inspection.

In view of the very large number of planning applications and letters of comment received, it will not be possible for an individual reply to be issued to observations made. However any comments will be taken into account when the application is determined and you will be notified of the decision.

Head Planning and Transportation

19 February 2002

Application Number : F/2002/5899	Map No : 103
Case Officer : HP	Site Area : 0.01
Valid Date : 13 FEB 2002.	Received Date: 13/02/2002

Level : Delegated Application

Description : Proposed erection of 21m high monopole with 3 antennas and 3 microwave dishes with one cabinet.

Location : Wyvols Court Farm, Basingstoke Road, Swallowfield, Reading.

Parish : SW Ward : SWA 19/2/02 JB.

Applicant : Hutchinson 3G UK Ltd C/O Barton Willmore Planning P/Ship.

Fee Required: £190 Fee Received: £190 (1)

Additional: ..... or Refund: .....

Enforcement Section to be notified ☐ (tick if required)

Additional information required for validation;

REASON	NOTES	DATE REQ	DATE RECD
LOCATION PLANS			
BLOCK PLANS			
FORMS UNSIGNED			
S.66 MISSING/INCORRECT/ UNSIGNED			
ELEVATION PLANS			
FLOOR PLANS			
NO SCALE OR SCALE IS IMPERIAL			
ENCROACHMENT LETTER REQUIRED			
OTHER			

Is the site in a Conservation Area: ☐ Yes ☐ No If "Yes" which one _____

Is the site a Listed Building: ☐ Yes ☐ No

Is a Statutory Advertisement required: ☐ Yes ☐ No

INTERNAL CONSULTATIONS 19/2/02 JD.

Building Control

Heritage (Harold Sanders)

(Landscape) ✓ Area of special Landscape Importance

Trees

(Environmental Health) ✓

● Housing

Leisure & Cultural Services

Public Rights of Way Officer

Property

Policy & Plans

Joint Strategic Planning Unit

Archaeological Officer (BABTIE)

Education

Social Services

Highways

● (Minerals) Tanya Davies. ✓

EXTERNAL CONSULTATIONS

Adjacent DPA : _____

Adjacent Parish : _____

SEB

British Gas

Oil pipeline

Transco

Environment Agency

Railtrack

Police Arch Officer

HERITAGE BODIES

Victorian Society
The Georgian Group
Ancient Monuments Society
Council for British Arch
RCHME
NRPB (Telecommunications)
Sport England
Society for Proct' of Ancient Bldgs
English Heritage

OTHERS

(Rural Area Countryside)

NEIGHBOURS

2 x S/N – Barge Lane & Basingstoke Rd.

+ Wyvols Court Farm, Barge Lane, Swallowfield.

+ See map

No pre-apps.

The Barton Willmore Planning Partnership - Reading
Beansheaf Farmhouse, Bourne Close, Calcot,
Reading, RG31 7BW.
Tel 0118 943 0000 Fax 0118 943 0002
e-mail: planning@reading.bartonwillmore.co.uk

13 FEB 2002 5899

Barton Willmore
Planning

Wokingham District Council,
Council Offices,
PO BOX 157,
Shute End,
Wokingham,
BERKSHIRE. RG40 1WR

10471/A3.6/RG1434/BS/jav

RECORDED DELIVERY

12th February 2002

Dear Sir/Madam,

HUTCHISON 3G UK -
PROPOSED DEVELOPMENT AT WYVOLS COURT FARM, BARGE LANE, SWALLOWFIELD, BERKSHIRE.

We refer to our prior consultation with Mr Mike Thorpe of your Council and Jennifer Walters of this office regarding the above site on the 31st January 2002, whom expressed the opinion that the proposal would present no problems in principle and that an application should be submitted. Accordingly please find enclosed a planning application submitted on behalf of Hutchison 3G UK for the above site.

The application comprises:

1. Six copies of the completed application form.

2. Ownership Certificate B and Agricultural Holdings Certificate.

3. Six copies of drawing nos. 00192737/111 which incorporates a general location plan, a site plan, and photograph, drawings nos. 00192737/112 which provides site plan, and drawings nos. 00192737/113-116 which provides elevation details

4. ICNIRP compliance certificate and emissions profile.

5. Six copies of the Hutchison 3G Application Checklist which describes the proposed development and provides information on the alternative sites which have been examined.

6. A supporting statement prepared by Hutchison 3G, providing general background information to assist in determining the application.

Certificate No. FS 29637

Town Planners • Environmental Consultants
Architects • Master Planners • Project Services

Contact: Gareth Capner, Ian Tant, Roger Turnbull, Mark Sitch, Angela Doone

A list of partners can be inspected here and at our associated offices in:
Bristol Cambridge Edinburgh Leeds London West Malling (Kent)

7. Information in support of the planning application for the development of a base station including material relating to the type of radio equipment which would be used and information describing Hutchison 3G's network requirements.

8. Coverage plot showing proposed site.

9. The application fee of £190.

The planning application relates to the installation of two 1700mm and one 2000 mm, antennas and three 600mm microwave dishes on a 21m monopole and a 1 x 1.872m^3 support cabinet.

Background Information

You will note from the supporting statement that the Hutchison 3G UK licence is to provide a communications system within the United Kingdom. In order to achieve this, the country is being divided into planned networks of interacting cells of various sizes; each served by a base station such as that proposed at Wyvols Court Farm. In this instance, the proposed development is to service an area between Riseley and Spencers Wood along the A33. The enclosed coverage plots show the present coverage, the coverage generated by the proposed site alone, and the coverage provided by the proposed site in conjunction with the established sites.

ICNIRP Compliance

Revised PPG8: Telecommunications (August 2001) advises that if a proposed base station meets the ICNIRP guidelines for public exposure, it should not be necessary for a local planning authority, in processing an application for planning permission or prior approval, to consider further the health aspects and concerns about them (paragraph 30).

With regard to transmission at between 2 and 2.2 GHz, the Hutchison 3G UK frequency band, the relevant exposure levels are in the region of 38 v/m. An installation of the type proposed typically generates EMF levels of the order of 0.3 v/m in publicly accessible areas.

A certificate of compliance with the ICNIRP guidelines is submitted with this planning application.

Government Guidance

This application is submitted in the context of Government guidance as set out in Revised PPG8: Telecommunications (August 2001). The revised PPG8 recognises that modern telecommunications are an essential and beneficial element in the life of the local community and in the national economy (Appendix, paragraph 1) and that they can benefit the environment through reducing the need to travel, and hence reducing vehicle emissions of carbon dioxide and other pollutants (Appendix, paragraph 2).

The Government's policy is to facilitate the growth of new and existing telecommunications systems whilst keeping the environmental impact to a minimum (paragraph 1). Accordingly, paragraph 20 of PPG8 states:

> **" The sharing of masts and sites is strongly encouraged where that represents the optimum environmental solution in a particular case."**

Alternative Sites

Prior to selecting this site at Wyvols Court Farm, a thorough search within this call area was undertaken, such that all possible sites were considered. Sites have been considered in terms of their technical suitability to provide the required level of service and in terms of their effect on visual amenities and the environment. The aim of site identification is to find the technically most efficient site, which has the minimum impact on visual amenities and the environment.

The existing Orange lattice tower to the north at NGR 470450 165450 was considered, however this mast will not provide the required coverage, as it is located too far to the north of the centre of the required coverage area.

An National Grid pylon at NGR 471300 164400 was also considered as a possible solution however the pylon does not have sufficient height to enable it to be used as a telecommunications base station. Neither are there any other structures or buildings within the search area that would provide the opportunity to be utilised as a telecommunication base station while providing the required coverage.

Due to the difficulty of finding alternative sites in the required coverage area, Hutchison 3G UK Ltd developed this solution at Wyvoles Court Farm as it represents the optimum solution in terms of visual amenity, environmental impact and providing the required coverage.

Relationship with Development Plan Policies

Berkshire Structure Plan 1991 – 2006 (adopted 1995) seeks a balance between the growth of telecommunications development and their impact on the environment. Policy TC1 seeks to encourage the location of antenna and upon existing buildings or upon existing telecommunication facilities.

Policy WIC14 of the Wokingham District Local Plan (Deposit Draft) advises that planning permission for telecommunication base stations will be granted provided that it is demonstrated that no alternative less visually intrusive site is available or technically feasible. The site is located within an Area of Special Landscape Importance and therefore Policy WLL2 applies which advises that in such areas development should not have a detrimental impact upon the open character or landscape features of the area.

With regard to Policies WIC14, the proposal has arisen following the consideration of alternative solutions within the required coverage area. There are no alternative solutions that would provide the required coverage. The proposed green monopole mast, in conjunction with the existing vegetation on site and in the surrounding area, will serve to assimilate the proposal into the landscape. The proposal, as a result will not a have materially detrimental impact upon the open character of the area, or result in the loss of any landscape features. Accordingly the proposed development does not conflict with policies WIC14 and WLL2 of the Local Plan.

Site Specific Issues

The proposed mast (21m in height) is required to provide clearance over the surrounding trees which serve to screen the mast from most directions. The proposed mast will be situated when viewed from the south behind an overgrown hedge line which will screen the lower half of the pole, while the upper half will be set against a dense backdrop of mature trees 18m tall. In views from the north the same 18m trees will screen the proposal from view.

The proposal will also be seen in the context of the adjoining high voltage overhead power line and tall lattice pylon, which will be viewed a behind the proposal in views from the south and alongside in views from the east or west. Additionally in views from the east and west the proposal will be screened or set against other adjoining tall trees that lie around the sites boundary. Accordingly the proposal will assimilated into the wider landscape by the existing vegetation and landscape features.

Conclusions

Accordingly, it is concluded that all necessary and reasonable steps have been taken to comply with the letter and spirit of Government Guidance and good land use planning practice.

We trust the information supplied is sufficient for you to consider this application favourably at your earliest convenience.

Please do not hesitate to contact me if you require any further information.

Yours sincerely,

p p B Stephenson.

JENNIFER WALTERS
Senior Planner
For and on behalf of Hutchison 3G UK

Encs.

cc. S. Fotheringham, Esq. - Hutchison 3G UK Limited
P. Hose, Esq. - Commpro c/o Hutchinson 3G UK Ltd.

1789/a

SECTION 66 CERTIFICATE

Application No.

13.FEB.2002 5899

Please fill in both Certificate A, B, C or D and the Agricultural Holdings Certificate. Delete sections not relevant.

(a) "Owner" means a person having a freehold interest or leasehold interest the unexpired term of which is not less than 7 years.

CERTIFICATE A

I certify that:

at the beginning of the period of 21 days ending with the date of the accompanying application, nobody, except the applicant, was the owner of (a) of any part of the land to which the application relates.

OR

CERTIFICATE B

I certify that:

I have/~~The applicant has*~~ given the required notice to everyone else who, at the beginning of the period of 21 days ending with the date of the accompanying application was the owner (a) of any part of the land to which the application relates, as listed below.

+ See Note (a) to Certificate A

Owner's(a) name	Address at which notice was served	Date on which notice was served
Mr R Waterer	Wyvols Court Farm Swallowfield, Reading Berkshire	12.02.02

OR

CERTIFICATE C

I certify that

- I/The applicant* cannot issued a certificate in accordance with either paragraph (a) or paragraph (b) of Section 66(1) of the Act in respect of the accompanying application.

- I have/The applicant has* given the required notice to the persons specified below, being persons who at the beginning of the period of 21 days ending with the date of the application were owners (a) of any part of the land to which the application relates.

Owner's(a) name	Address at which notice was served	Date on which notice was served

(b) Insert description of steps taken.

(c) Name of local newspaper circulating in the area where the land is situated.

(d) Date of publication (which must be not earlier than the beginning of the period of 21 days ending with the date of the application).

- I have/The applicant has* taken all reasonable steps open to me/him/her* to find out the names and addresses of the other owners (a) of the land, or of a part of it, but have/has* been unable to do so. These steps were as follows:

(b) .....

.....

- Notice of the application as attached to this Certificate, has been published in

the (c) .....

on (d) .....

1789/b

CERTIFICATE D

I certify that

● I/The applicant cannot issue a certificate in accordance with paragraph (a) of Section 66 of the Act in respect of the accompanying application.

OR

● I/The applicant have/has taken all reasonable steps open to me/him/her to find out the names and addresses of everyone else who, at the beginning of the period of 21 days beginning with the date of application was the owner (a) of any part of the land to which the application relates, but have/has been unable to do so. These steps were as follows:

(b) . . . . . .

. . . . . .

(b) Insert description of steps taken

(c) Insert name of local newspaper circulating in the area where the land is situated.

(d) Insert date of publication (which must not be earlier than the beginning of the period of 21 days ending with the date of the application).

● Notice of the application as attached to this Certificate, has been published in the (c) . . . . . .

on (d) . . . . . .

ALL APPLICANTS MUST COMPLETE THIS SECTION

If any of the site is part of an area of land which is let or there is an agreement to let the land for agricultural purposes to a tenant, it may be an agricultural holding. Further advice may be obtained from the Department.

Agricultural Holdings Certificate

One or other section must be crossed through as not applicable.

If the applicant is the sole agricultural tenant he or she must delete the first alternative and insert "not applicable" as the information required by the second alternative.

● None of the land ~~to which the~~ application relates is, or is part of, an agricultural holding.

OR

● I have/~~The applicant has~~ given the required notice to every person other than my/him/herself who, at the beginning of the period of 21 days ending with the date of the application, was a tenant of an agricultural holding on all or part of the land to which the application relates, as follows:

Tenant's name	Address at which notice was served	Date on which notice was served
N/A	N/A	N/A

Signed . . . R. Stephenson . . . . . .

On behalf of . . . HUTCHISON 3G UK LTD . . . . . .

Date . . . 12/2/2 . . . . . .

TOWN AND COUNTRY PLANNING ACT, 1990
TOWN & COUNTRY PLANNING GENERAL DEVELOPMENT ORDER 1988
Certificate under Section 66

1769a

WOKINGHAM DISTRICT COUNCIL
PLANNING APPLICATION

PART 1

APPLICATION FOR PERMISSION TO CARRY OUT DEVELOPMENT - TOWN AND COUNTRY PLANNING ACTS

Please answer **ALL QUESTIONS** in **BLOCK LETTERS**. If a question is not applicable, answer **N/A** in space. Please submit **SIX** copies of this form and plans to:-

THE DISTRICT PLANNING OFFICER
WOKINGHAM DISTRICT COUNCIL
PLANNING DEPARTMENT
P O Box No. 157
COUNCIL OFFICES
SHUTE END
WOKINGHAM
BERKSHIRE, RG40 1WR

FOR OFFICE USE ONLY 13.12.2002* 5859

1.	APPLICANT'S NAME	HUTCHISON 3G UK LTD
	ADDRESS	GREAT BRIGHAMS MEAD, VASTERN ROAD
		READING
	POST CODE	RG1 8DJ PHONE
2. If the applicant has an agent, all correspondence will be sent to the agent	AGENT'S NAME	BARTON WILLMORE PLANNING PARTNERSHIP
	ADDRESS	BEANSHEAF FARMHOUSE, BOURNE CLOSE
		CALCOT, READING
	POST CODE	RG31 7BW PHONE 0118 9430000
3. On the plans show the SITE outlined in RED Show also OTHER land in the applicant's ownership or control in BLUE.	SITE LOCATION	WYVOL COURT FARM, BARGE LANE,
		SWALLOWFIELD, BERKSHIRE
4. *WHAT IS THE APPLICATION FOR ?* Give brief details and state for what purpose this site and any buildings will be used.		PROPOSED TELECOMMUNICATION
		BASE STATION
5. Give the area in hectares or part of a hectare	AREA OF SITE	0.004ha
6. State the applicant's interest in the land e.g. owner, prospective purchaser, lessee	OWNERSHIP	LESSE
7. List all the plans and drawings submitted with the application	PLANS/DRAWINGS	00192737-111-116

8. DOES THE APPLICATION INVOLVE ANY OF THE FOLLOWING ?

Tick the boxes(x)

CHANGE OF USE	☐	REDEVELOPMENT	☐
ERECTION OF NEW BUILDING	☒	ALTERATION or EXTENSION	☐

9. WHAT TYPE OF APPLICATION IS THIS ?
Tick one box only

OUTLINE PERMISSION	☐	See question 10
FULL PERMISSION	☒	
APPROVAL OF DETAILS/RESERVED MATTERS	☐	State relevant outline permission number Also complete Question 10
TEMPORARY PERMISSION	☐	State period required
RELAXATION OF CONDITIONS	☐	State relevant application number Conditions to be relaxed

10. IF THIS IS AN OUTLINE APPLICATION OR AN APPROVAL OF RESERVED MATTERS, which details, if any, do you wish to be considered as part of this application ?

		SITING	☐
EXTERNAL APPEARANCE	☐	DESIGN	☐
MEANS OF ACCESS	☐	LANDSCAPING	☐

17696

11. WHAT IS THE EXISTING USE OF THE LAND AND/OR BUILDING(S) e.g. residential, industrial, etc. If the site is vacant say so, and also state its previous use and when that ceased.

AGRICULTURAL LAND

12. DOES A PUBLIC RIGHT OF WAY CROSS OR ABUT THE SITE OR THE PROPOSED ACCESS?

~~YES~~/NO — If yes, show existing route(s) and any proposed alternatives on the plans

13. ARE THERE ANY TREES ON THE SITE? IF YES, ARE ANY TO BE FELLED?

~~YES~~/NO — If yes, please show their positions, spread and species on the plans and which, if any, are to be felled.

14. STATE EXTERNAL MATERIALS TO BE USED.

GREEN MONOPOLE, SEE DRAWINGS 00192737-112-116

15. HOW WILL THE SITE BE ENCLOSED? Say whether walls, fences or hedges, and give height, colour and materials. If the site is divided into plots, say how each is to be enclosed.

1.8m HIGH CHAIN LINK FENCE

16. HOW WILL SURFACE WATER BE DISPOSED OF?

N/A

17. HOW WILL FOUL SEWAGE BE DISPOSED OF?

N/A

To existing system ~~YES~~/NO

If no, please give details

18. WHAT ARE THE ACCESS ARRANGEMENTS?
AS EXISTING ~~OFF~~ OFF A33 SOUTHBOUND, VIA BARGE LANE
AS PROPOSED OFF A33 SOUTHBOUND, VIA BARGE LANE
Give details of pedestrian and vehicular access

19. HAS PROVISION BEEN MADE FOR THE DISABLED? See notes for applicants

N/A

20. IF THIS PROPOSAL INVOLVES RESIDENTIAL DEVELOPMENT OR THE LOSS OF RESIDENTIAL UNITS, COMPLETE THE FOLLOWING TABLE

	No. OF DWELLINGS/HABITABLE ROOMS PROPOSED	TO BE RETAINED	TO BE LOST
HOUSE	/ *	/ *	/ *
BUNGALOW	/ *	/ *	/ *
FLAT/MAISONETTE	/ *	/ *	/ *
OTHER	/ *	/ *	/ *

* STATE No. OF HABITABLE ROOMS

21. DOES THE PROPOSAL INVOLVE ANY NON-RESIDENTIAL BUILDING OR USE?

~~YES~~/NO — If YES, complete Part 2 of the form

22. DOES THE PROPOSAL INVOLVE THE WINNING, WORKING OR PROCESSING OF MINERALS; THE DISPOSAL OF MINERAL WASTE, OR THE DEPOSIT OR PROCESSING OF REFUSE AND WASTE MATERIALS?

YES/NO — If YES, please ask for and complete Part 3 of the form

23. STATE THE FEE ENCLOSED WITH THIS APPLICATION The current scale of fees is enclosed. If you believe a reduced fee or no fee is payable, say why.

£190.00

I hereby apply for permission in respect of the particulars described above and in the attached plans and drawings. If planning permission is granted, the development must be carried out strictly in accordance with the approved plans. Failure to do so could result in enforcement action being taken. Permission under the Town & Country Planning Acts does not obviate the possible need to apply for Building Regulations approval.

SIGNED B Stephenson ON BEHALF OF HUTCHISON 3G UK LTD DATE 12.2.02

Before submitting the application check that it is complete, that all questions have been answered and that the site boundary and the new work are clearly edged in red on the plans. Every application must be accompanied by the appropriate certificate and fee. See "NOTES TO HELP APPLICANTS".

1769c

PLANNING APPLICATION

PART 2

This part of the form need only be completed if the application involves non-residential development. Please answer all questions in print or block letters. If the answer is not applicable, write N/A in the space. You may wish to amplify your answers in a covering letter.

24. STATE THE GROSS FLOOR SPACE (by external measurement) OF ALL BUILDINGS TO WHICH THIS APPLICATION REFERS. Please give all floor areas in SQUARE METRES.

	USE CLASS	Existing floor space		Proposed additional floorspace created by	
		Retained in existing use	Lost by change of use or demolition	New building	Change of use
A1	SHOPS				
A2	FINANCIAL AND PROFESSIONAL SERVICES				
A3	FOOD AND DRINK				
B1(a)	OFFICE (other than A2)				
B1 (b)	RESEARCH AND DEVELOPMENT				
B1 (c)	LIGHT INDUSTRIAL				
[illegible]2	GENERAL INDUSTRIAL				
B3-7	SPECIAL INDUSTRIAL				
B8	STORAGE OR DISTRIBUTION				
C1	HOTELS AND HOSTELS				
C2	RESIDENTIAL INSTITUTIONS				
D1	NON-RESIDENTIAL INSTITUTIONS				
D2	ASSEMBLY AND LEISURE				
OTHER	Please Specify TELECOMMUNICATION			1.44m²	
OTHER	Please Specify EQUIPMENT CABINET				
	TOTAL			1.44m²	

25. IF C1 OR C2 USE IS PROPOSED, PLEASE STATE *NUMBER OF BED SPACES*

[illegible]. WHAT PROVISION IS BEING MADE FOR PARKING? N/A

	Cars	Lorries
Existing		
Proposed		

27. *DESCRIBE THE ACTIVITY OR PROCESSES TO BE CARRIED ON*
Please provide details of any equipment, plant or machinery to be installed and any end products. You may wish to amplify your answers in a covering letter.

TELECOMMUNICATION BASE STATION

28. WHO WILL OCCUPY THE PREMISES?
a) Give the name and current operating address of the *proposed occupier*
b) Will these premises be vacated?

HUTCHISON 3G UK LTD WILL OPERATE THE SITE

29. *IF KNOWN, HOW MANY PEOPLE ARE LIKELY TO BE EMPLOYED ON SITE AFTER COMPLETION OF THE DEVELOPMENT?*

Existing Staff	Transferred Staff	New Staff	Total
0	0	0	0

30. DOES THE PROPOSAL INVOLVE THE USE OR STORAGE OF ANY OF THE HAZARDOUS SUBSTANCES LISTED IN THE NOTES?
If so, state this material, the quantity and method of storage.

NO

Before submitting the application check that it is complete, that all questions have been answered and that the site boundary and the new work are clearly edged in red on the plans. Every application must be accompanied by the appropriate certificate and fee. See "NOTES TO HELP APPLICANTS".

1769d

YOUR PLANNING APPLICATION

WHY DO YOU NEED TO MAKE A PLANNING APPLICATION ?

New buildings, major alterations and enlargement of existing buildings, and many changes in the use of buildings and land need planning permission.
The Town and Country Planning Acts impose a duty on Local Authorities to control these changes, and this means that a balance has to be found between the need and pressure for change, and the desire to protect the character of settlements and the countryside.
The merits of each application are, therefore, carefully examined.

WHAT ELSE MAY YOU HAVE TO DO ?

Listed Building Consent:	for works to a Listed Building; or for demolition works on land within the curtilage of a Listed Building or within a Conservation Area.
Advertisement Consent:	for the display of advertisements or signs
Building Regulation Approval:	for most new building or construction work.

Special forms are available for these types of applications.

You should also check whether there are any other regulations with which you may need to comply.

WHAT HAPPENS TO THE APPLICATION ?

It will first be checked to see if it is complete and if it is, it will be registered.

Consultations will be carried out with public and other bodies, such as the Highway Authority, or Local Parish Councils.

Publicity may be given to allow local people the opportunity to comment on your proposals.

The application will be considered in relation to the Council's planning policies and guidelines, the past history of decisions on that site or in the locality, other standards (such as parking, or visibility at road junctions), and any other material considerations.

The site will be visited by a Planning Officer You may be asked to submit more information, or to amend your application.

The application will then be considered either by a Planning Committee or Sub Committee (made up of Councillors) or by the Chief Officer responsible for planning matters. Objections to an application will be taken into consideration by the Committee or the Chief Officer.

Shortly after the application has been determined, you will receive a Decision Notice.

HOW LONG WILL IT TAKE ?

An application will generally be determined within eight weeks although a longer period may sometimes be required for a complicated application.

WHAT SORT OF DECISION CAN BE MADE ?

Your application may be approved.

Your application may be approved subject to certain conditions. These could impose restictions on the use of land or buildings, or require further details to be approved at a later stage, (e.g. materials or landscaping).
You may appeal against the conditions, but this opens the entire permission to review by the Secretary of State.

Your application may be refused. The reason will be listed on the Decision Notice.

WHAT HAPPENS IF THE APPLICATION IS REFUSED ?

You have the right to appeal against the refusal to the Secretary of State, but you have to do that within six months. Appeals can be dealt with by written representations by both sides, or by a Public Inquiry.
You may ask the Planning Officer whether an amended application would be more likely to receive planning permission.

DATA PROTECTION ACT 1984

'Information contained in this form is likely to be personal data within the terms of the Data Protection Act 1984, and as such will be held by the Council on computer (such as the PLANAPS applications processing system) and may be used by the Council only for purposes registered under the terms of the Data Protection Act.'

1933

①

ADDRESS WYVOLS COURT FARM, BASINGSTOKE ROAD PARISH SWALLOWFIELD

PLOT No. LISTED BUILDING ORD. SHEET No. SU7264-7364 103

BUILDER

Plan No.	Applicant	Description of Development	Date of Decision	Decision
BR467	R.R. WATERER LTD	Steel frame building	15.4.74	App
~~38462~~	〃 〃	~~Erect Barn~~	~~18.4.74~~	~~N/A C/A~~
BR11504	〃 〃	Portable Storage building	7.8.79	App
21605	〃 〃	O/L Res Courtyard Dev	28.6.84	N/A R
21606	〃 〃	O/L Farmhouse	28.6.84	N/A R
21601	〃 〃	C/U Part house to office	26.7.84	N/A R
*24809	BERKS SECURITIES LTD	C/U + Ext for add office	30.1.86	R
24810 LBC	〃 〃	Refurb. Dem O/Bldgs new ext + link. Part demo courtyard link. C/U to office	30.1.86	R
*24811 LBC	〃 〃	〃 〃	30.1.86	R
24812	〃 〃	O/L Det Farmhouse	1.9.88	C/A 4/
31387	WATERER + Co	O/L Farmhouse		

MINISTRY DECISION 24809/24810 App Dismissed 13.8.87. 24809 Allowed on redetermination 17.5.88

SPECIAL ORDERS TPO 486/89 TPO 768/95

1933

⑤

ADDRESS WYVOLS COURT, BASINGSTOKE ROAD PARISH SWALLOWFIELD

PLOT No. ORD. SHEET No.

BUILDER

Plan No.	Applicant	Description of Development	Date of Decision	Decision
31391/2	WATERER + Co	MOBILE HOME	1.9.88 - 30.9.90 or on Completion of farmhouse	C/A
33139/40 LBC	SWALLOWFIELD DEVS	2/ST EXT. Res to office	11.5.89	C/A
33762	〃	Restoration + Repair	5.7.89	C/A
BRA 7585	MR R. WATERER	Office Refurb + EXT	27.10.89	App
35946	〃	Dwelling (Farmhouse	4.7.90	C/A 4/
36088	SWALLOWFIELD DEVS	Entrance pillars + walls	1.8.90	C/A
BRA 9068	MR R. WATERER	DET HOUSE	28.6.90	App
36530	SWALLOWFIELD OFFICE	2 LETTING BOARDS	9.10.93	C/A 31.10
37249	SWALLOWFIELD DEVS	EXT LIGHTING (Retro)	3.7.91	C/A
37339 LBC	〃	〃	〃	C/A

MINISTRY DECISION 24811 App Granted 13.8.87. 35946 LA Signed/Issued 5.9.90.

SPECIAL ORDERS

1973

(3) WYVOLS Court

ADDRESS Basingstoke Road PARISH Swallowfield

PLOT No. ORD. SHEET No.

BUILDER

Plan No.	Applicant	Description of Development	Date of Decision	Decision
40807 -	Swallowfield Office Services	2 Non-ill Letting Boards	3.6.93	CLA TP 30.6.95
96/64075/TEM.	"	C/O/use Agr. Land to Carparking for Adj. Office Premises	12.8.96	12.8.99
98/67880/A	RR Waterer & Co	Non-Ill - Sign (Retro)	15.10.98	REF
/2000/1186	Swallowfield Office Svcs. Ltd.	T.P for Agric. land for car parking	11.7.00	APP
TP/2001/3141	HQ Global Workplace	Renewal of "TP" for parking on agricultural land.	27.02.01	APP
F/2001/4316				

MINISTRY DECISION

SPECIAL ORDERS TPO 768/95

13.FEB.2002 5859



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Development Control Section, Environmental Services, Wokingham District Council.
18 February 2002 Scale: 1 : 5000

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W E
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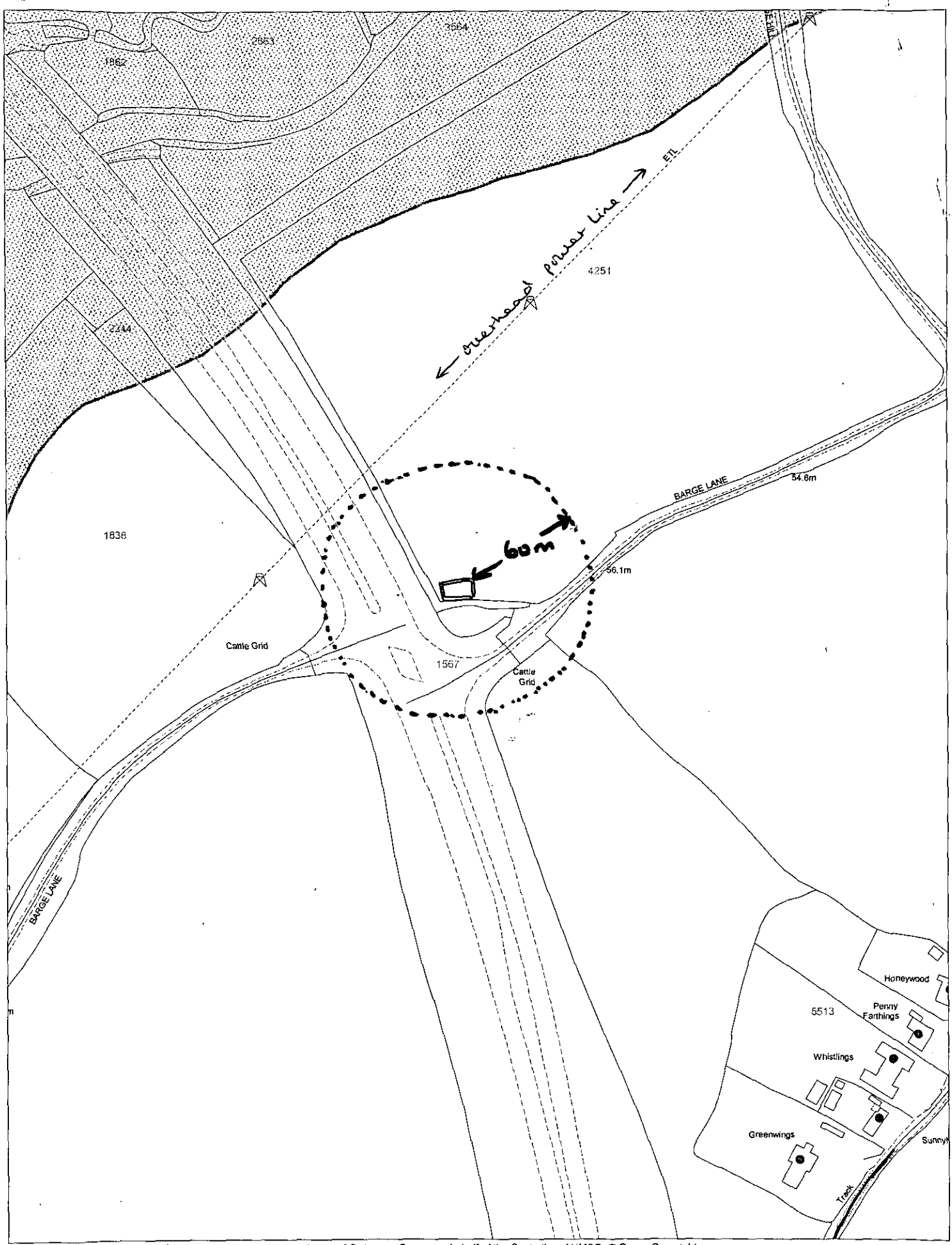

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Development Control Section, Environmental Services, Wokingham District Council.
18 February 2002 Scale: 1 : 2500

Enterprise V3.4

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Wyvols Court

Coverage plot

Fri Feb 01 16:16:58 2002

13.FEB.2002 5859

Map Backdrop
Best Server
UMTS
x> -95.6 dBm Suburban
[Site] [Property] EW_active Sites
Candidates: SL6055

Top Right: 000°54'9.05"W 51°24'20.77"N
Bottom Left: 001°02'50.56"W 51°20'49.39"N
Scale Ratio 1:36536

0 0.50 1.00 1.50 2.00 Km

RG4022 Pingewood SSE Pylon
RG1028 Cutbush Lane
RG4027 Diddenham Farm
RG1434 Wyvol Court

Enterprise V3.4

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Wyvols Court

Coverage plot

Fri Feb 01 16:17:01 2002

Map Backdrop
Best Server
UMTS
[x] > -95.6 dBm Suburban
● [Site] [Property] EW_active Sites
— Candidates: SL6055

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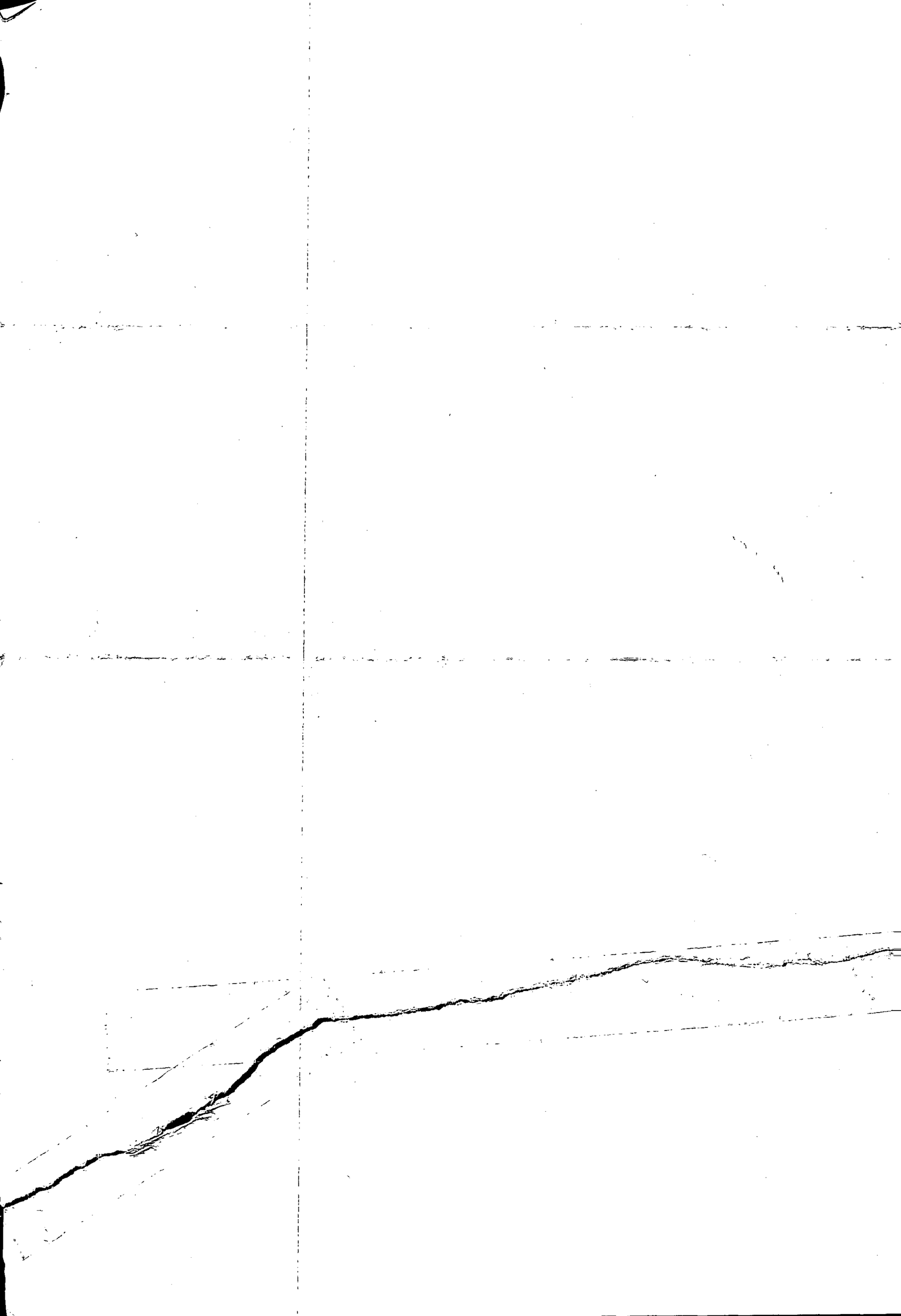

Enterprise V3.4

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Wyvols Court

Site Coverage

Fri Feb 01 16:18:15 2002

Map Backdrop
Best Server
UMTS
x> -95.6 dBm Suburban
[Site] [Property] EW_single Sites
Candidates: SL6055

13.FEB.2002* 5899

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Bottom Left: 001°02'50.41"W 51°20'49.46"N
Scale Ratio 1:36514

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Site Coverage

Fri Feb 01 16:18:27 2002

Map Backdrop
Best Server
UMTS
x> -95.6 dBm Suburban
[Site] [Property] EW_single Sites
Candidates: SI 6055

13.FEB.2002* 5899

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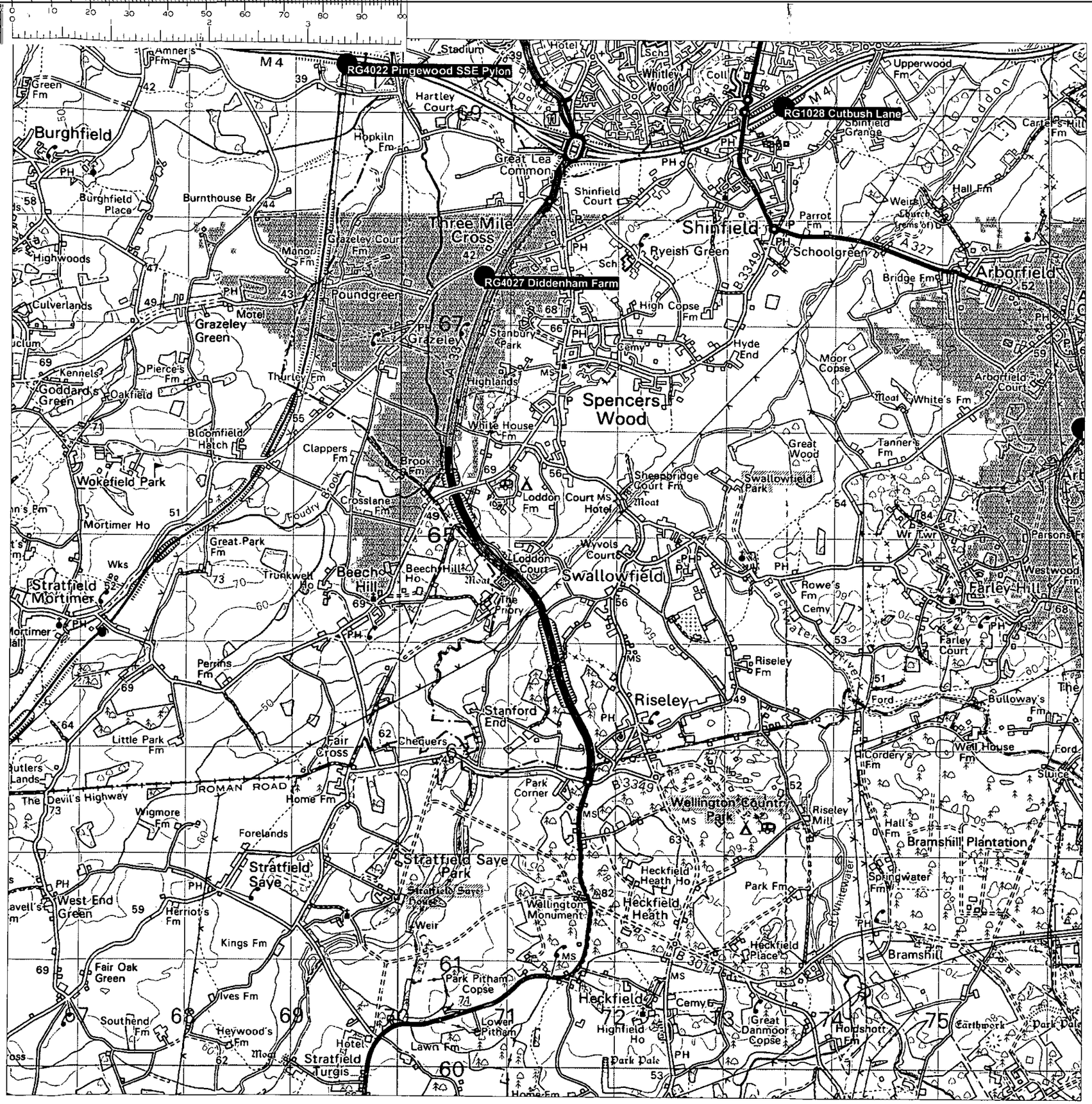
Wyvols Court

Coverage without Wyvols Court

Fri Feb 01 16:19:38 2002



Map Backdrop
Best Server
UMTS
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[Site] [Property] EW_active Sites
Candidates: SI.6055

13.FEB.2002* 5899

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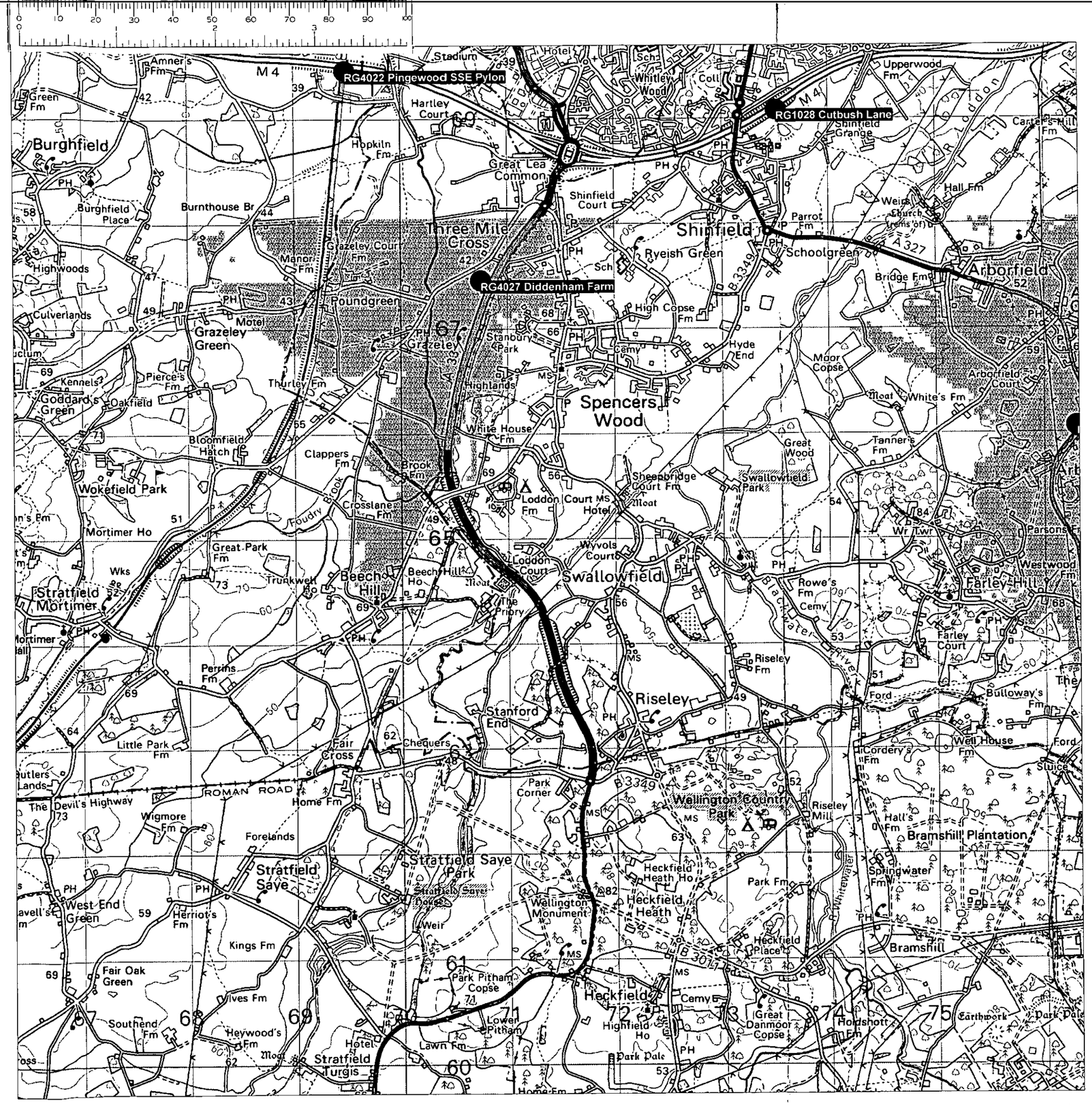

Enterprise V3.4

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Coverage without Wyvols Court

Fri Feb 01 16:19:50 2002

Map Backdrop
Best Server
UMTS
x> -95.6 dBm Suburban
● [Site] [Property] EW_active Sites
— Candidates: SL6055

13.FEB.2002* 5899

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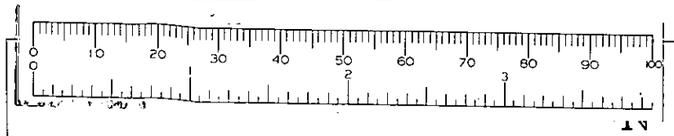
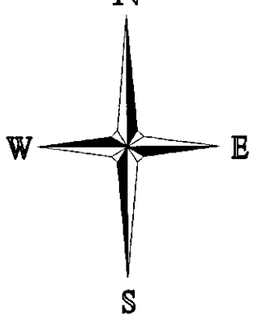
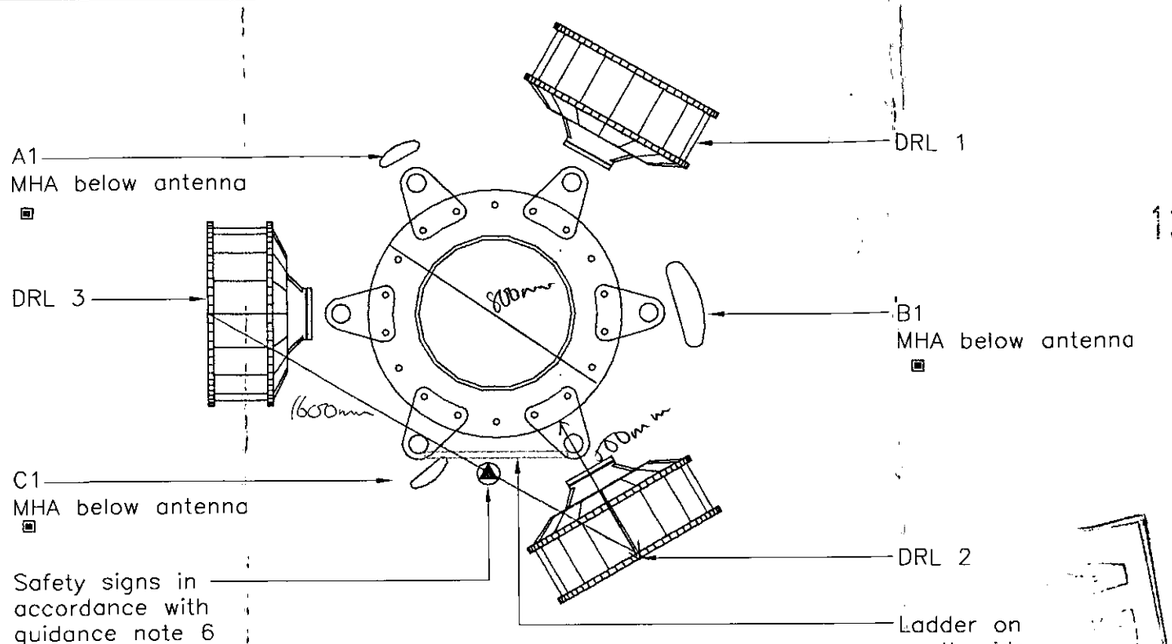
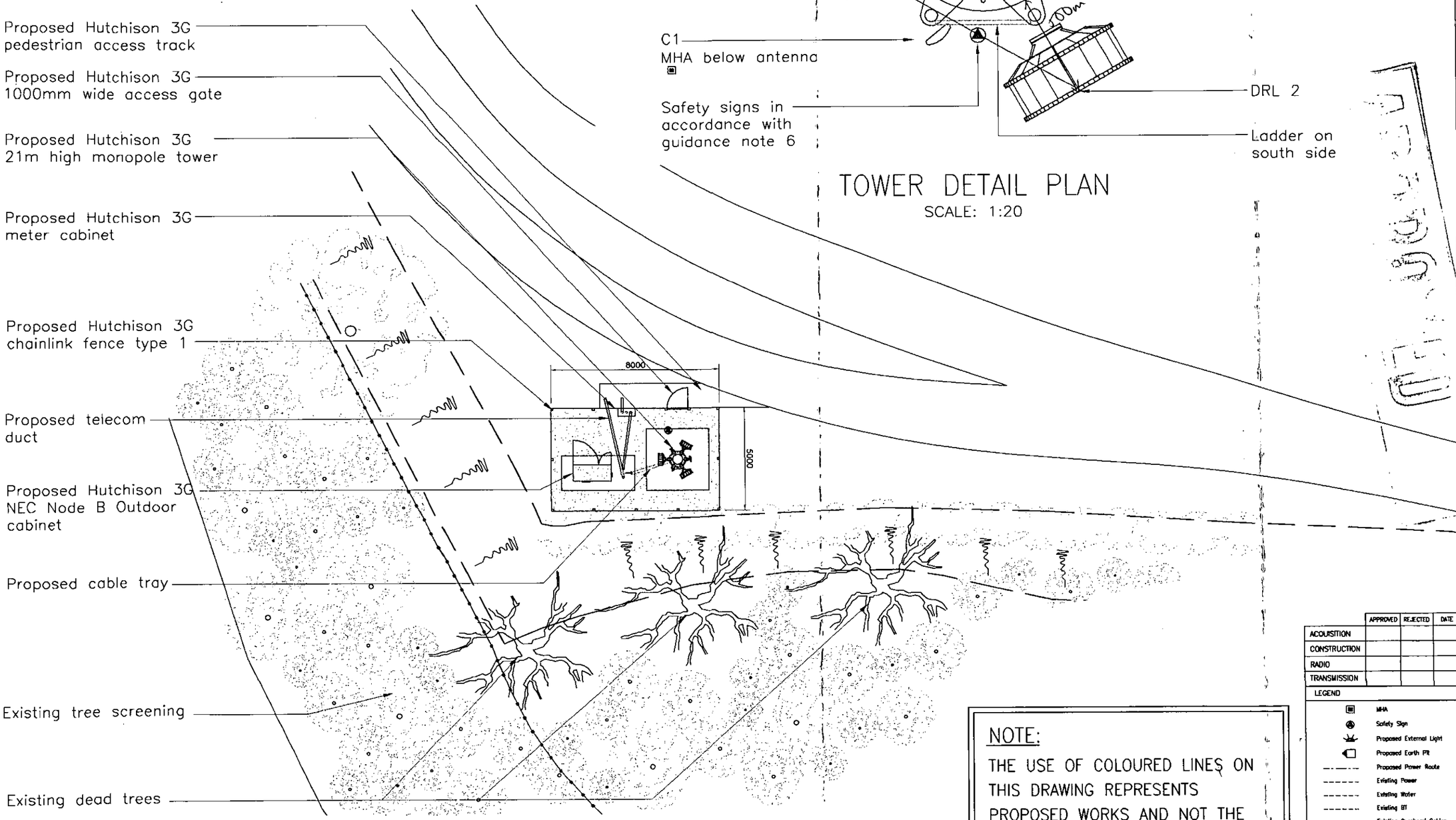






TOWER DETAIL PLAN
SCALE: 1:20



SITE PLAN
Scale 1:200

NOTE:
THE USE OF COLOURED LINES ON THIS DRAWING REPRESENTS PROPOSED WORKS AND NOT THE COLOURS OF H3G'S EQUIPMENT.

NOTES
1.1 Do not scale.
1.2 All dimensions are in mm unless otherwise specified.
1.3 Assume all site details are existing unless otherwise specified.

PROPOSED HUTCHISON 3G EQUIPMENT

Proposed Cabin/Cabinet Details
Hutchison Ref:– NEC NODE B OUTDOOR CABINET
Dimensions:– 1800x800x1300
Colour:– GREEN

13 FEB 2002 5899

Proposed Site Access/Route
LEAVE M4 AT J11 PROCEED SOUTH ON THE A33 TOWARDS BASINGSTOKE. CONTINUE OVER FIRST ROUNDABOUT AND TAKE THE THIRD EXIT LEFT SIGNPOSTED TO SWALLOW FIELD. ENTRANCE TO THE SITE IS APPROX 200M ON THE LEFT.

Proposed Tower Details
Height:– 21.0m
Type:– MONOPOLE TOWER
Hutchison Ref:– EVE
Colour:– GREEN

Proposed Transmission Details

No.	Size	Hgt	Type	Orientation
DRL 1	600°	21.0m	TBC	TBC
DRL 2	600°	21.0m	TBC	TBC
DRL 3	600°	21.0m	TBC	TBC

(Height is measured to centre of DRL)

Proposed Antenna Details

No.	Size	Hgt	Type	Orientation	Feeder lgth
A1	1700x142x43	18.5m	RACAL R2212	75°	22.0m
B1	2000x275x98	18.2m	RACAL R2233	170°	22.0m
C1	1700x142x43	18.5m	RACAL R2212	320°	22.0m

(Antenna height is measured to base of antenna)
(Feeder lengths from Cabin/Cabinet to each antenna)

Exclusion zone
H3G's Exclusion Zones comply with ICNIRP's Public Exposure limits

Fencing
TYPE 11, NORMAL SECURITY, 1800mm HIGH CHAIN LINK AND 3 STRANDS BARBED WIRE ON VERTICAL EXTENSION POSTS, OVERALL FENCE HEIGHT 2100mm

REV.	DATE	DESCRIPTION	CHK	APP
B2	01/02/02	ANTENNA ORIENTATION CHANGE	SJS	MDC
B1	28/01/02	PLANNING DRG ISSUE	SJS	MDC
A4	23/01/02	MINOR ALTERATIONS	SJS	MDC
A3	16/01/02	NEW TOWER HEIGHT	SJS	MDC
A2	07/01/02	NEW TOWER HEIGHT& CABINET POSITION	SJS	MDC

Hutchison 3G

Hutchison 3G UK Limited
Star House, 20 Grenfell Road, Maidenhead, SL6 1EH
Tel: 01628 765 000 Fax: 01628 765 901
H3G Base Station Information line: 0845 604 3000
Available 8am-6pm 7 days a week.

	APPROVED	REJECTED	DATE
ACQUISITION			
CONSTRUCTION			
RADIO			
TRANSMISSION			

LEGEND
- MHA
- Safety Sign
- Proposed External Light
- Proposed Earth Pit
- Proposed Power Route
- Existing Power
- Existing Water
- Existing BT
- Existing Overhead Cables
- Existing Wooden Fence
- Proposed Access Track
- Proposed Gravel Area
- Proposed Cable Tray

SMITH WOOLLEY TELECOM
24 BARTON STREET
BATH
BA1 1HG
TEL: 01225 457000
FAX: 01225 462000
EMAIL: mail@smiwo.co.uk

Site:
WYVOLS COURT FARM
BARGE LANE
SWALLOWFIELD
BERKSHIRE

Title: SITE PLAN

Purpose of Issue: PLANNING

Drawing no.: 00192737-112

Site ID: 00192737

Nominal ID: RG1434

Issue:	Scale: AS SHOWN	Checked: MDC	Date: 10/01
B2	Drn: SJS	Date: 19/10/01	Approv: PD	Date: 10/01

Consultant ref no: CAM5004H

ORIGINAL SIZE – A3

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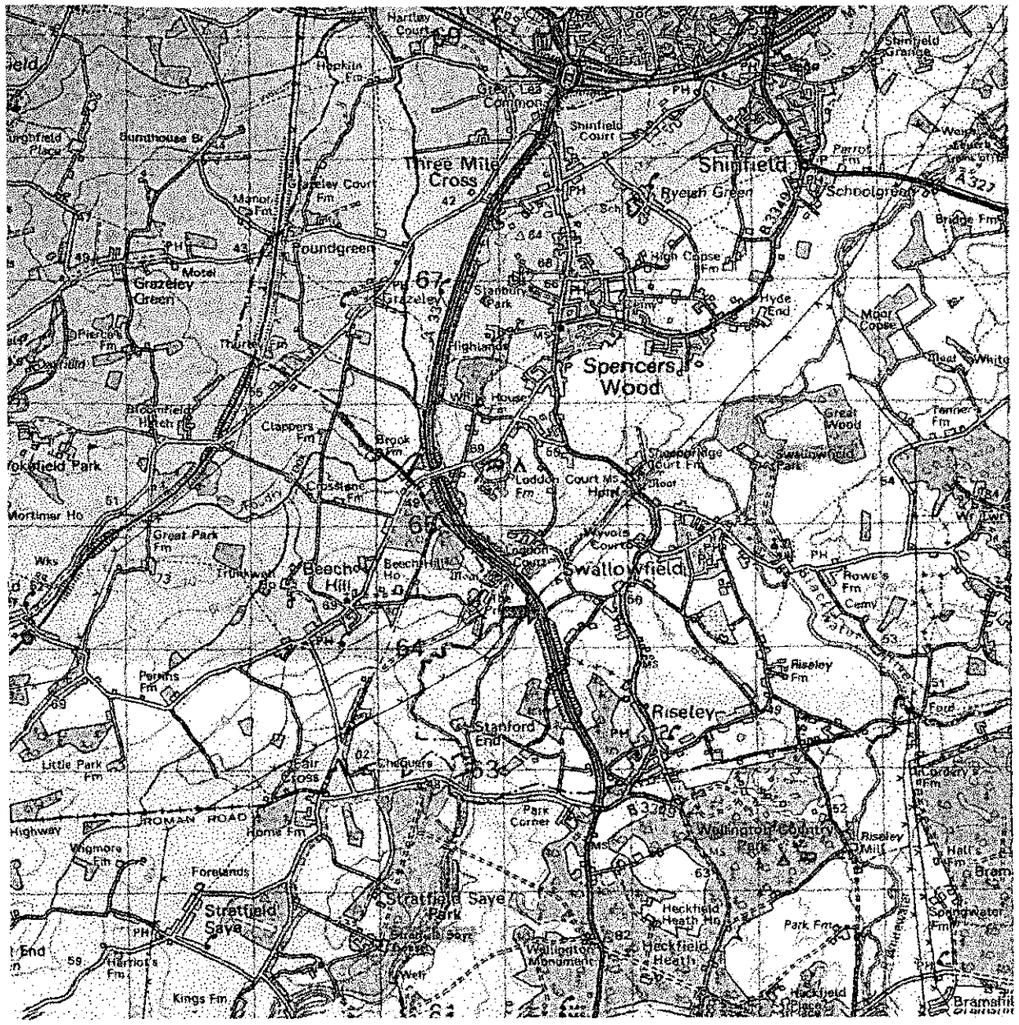
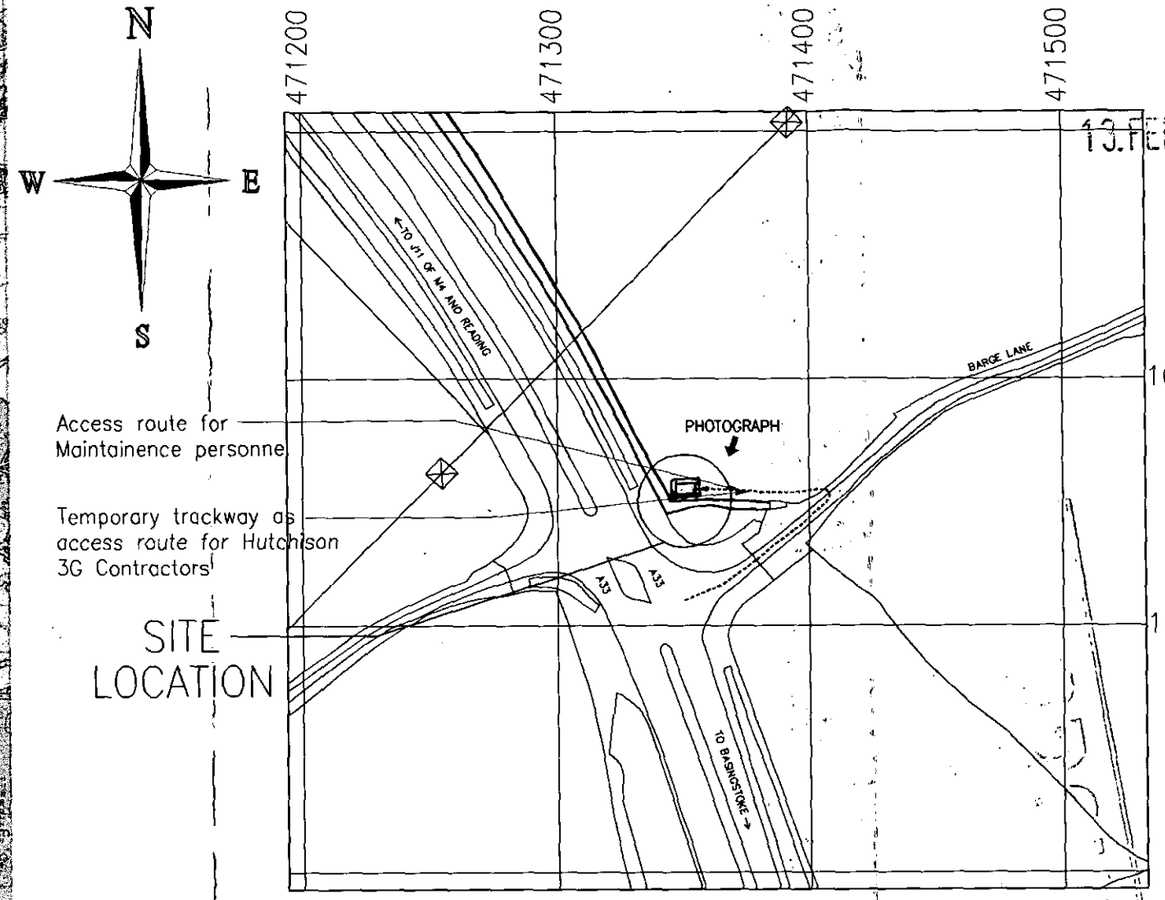


GENERAL LOCATION PLAN

Scale 1:50000



SITE PHOTOGRAPH



SITE LOCATION

SCALE 1/2500

Ordnance Survey map extract.

O.S. co-ordinates 471353/164355

Based upon Ordnance Survey at 1:1250 with the permission of the Controller of Her Majesty's Stationery Office.
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NOTE:

THE USE OF COLOURED LINES ON THIS DRAWING REPRESENTS PROPOSED WORKS AND NOT THE COLOURS OF H3G'S EQUIPMENT.

	APPROVED	REJECTED	DATE
ACQUISITION			
CONSTRUCTION			
RADIO			
TRANSMISSION			

LEGEND

- MHA
- Safety Sign
- Proposed External Light
- Proposed Earth Pit
- Proposed Power Route
- Existing Power
- Existing Water
- Existing BT
- Existing Overhead Cables
- Existing Wooden Fence
- Proposed Access Track
- Proposed Gravel Area
- Proposed Cable Tray

13.FEB.2002 5899

NOTES

1.1 Do not scale.

1.2 All dimensions are in mm unless otherwise specified.

1.3 Assume all site details are existing unless otherwise specified.

PROPOSED SITE ACCESS/ ROUTE

LEAVE M4 AT J11 AND PROCEED SOUTH ON THE A33 TOWARDS BASINGSTOKE. CONTINUE OVER FIRST ROUNDABOUT AND TAKE THE THIRD EXIT LEFT SIGNPOSTED TO SWALLOW FIELD. ENTRANCE TO THE SITE IS APPROX 200m ON THE LEFT.

REV.	DATE	DESCRIPTION	CHK	APP
B1	28/01/02	PLANNING DRG ISSUE	SJS	MDC
A1	18/12/01	REVISED PHOTO	SJS	MDC

Hutchison 3G

Hutchison 3G UK Limited
[redacted]

SMITH WOOLLEY TELECOM
24 BARTON STREET
BATH
BA1 1HG
TEL: 01225 427000
FAX: 01225 463000
EMAIL: [redacted]

Site: WYVOLS COURT FARM
BARGE LANE
SWALLOWFIELD
BERKSHIRE

Title: LOCATION PLAN

Purpose of Issue: PLANNING

Drawing no. 00192737-111

Site ID: 00192737

Nominal ID: RG1434

Issue:	Scale: AS SHOWN	Checked: MDC	Date: 10/01
B1	Drn: SJS	Date: 19/10/01	Approv: PD	Date: 10/01

Consultant ref no: CAM5004H

ORIGINAL SIZE - A3

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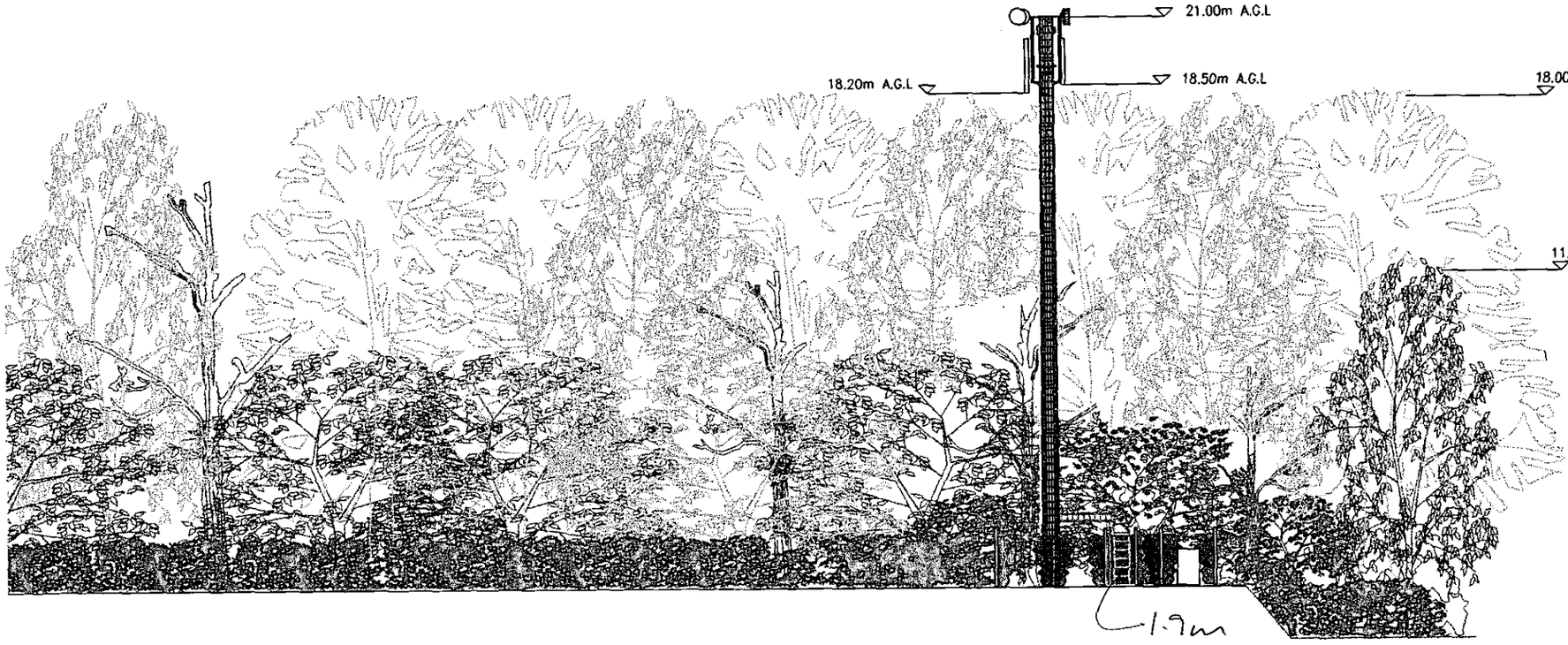
13.FEB.2002*



NORTH ELEVATION

Scale 1:200

NOTE:

THE USE OF COLOURED LINES ON THIS DRAWING REPRESENTS PROPOSED WORKS AND NOT THE COLOURS OF H3G'S EQUIPMENT.

	APPROVED	REJECTED	DATE
ACQUISITION			
CONSTRUCTION			
RADIO			
TRANSMISSION			

LEGEND

- MHA
- Safety Sign
- Proposed External Light
- Proposed Earth Pit
- Proposed Power Route
- Existing Power
- Existing Water
- Existing BT
- Existing Overhead Cables
- Existing Wooden Fence
- Proposed Access Track
- Proposed Gravel Area
- Proposed Cable Tray

NOTES

1.1 Do not scale.

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1.3 Assume all site details are existing unless otherwise specified.

PROPOSED HUTCHISON 3G EQUIPMENT

5899

Proposed Cabin/Cabinet Details

Hutchison Ref:- NEC NODE B OUTDOOR CABINET
Dimensions:- 1800x800x1300

Colour:- GREEN

Proposed Site Access/Route

LEAVE M4 AT J11 PROCEED SOUTH ON THE A33 TOWARDS BASINGSTOKE. CONTINUE OVER FIRST ROUNDABOUT AND TAKE THE THIRD EXIT LEFT SIGNPOSTED TO SWALLOW FIELD. ENTRANCE TO THE SITE IS APPROX 200M ON THE LEFT.

Proposed Tower Details

Height:- 21.0m
Type:- MONOPOLE TOWER
Hutchison Ref:- EVE
Colour:- GREEN

Proposed Transmission Details

No.	Size	Hgt	Type	Orientation
DRL1	600'	21.0m	TBC	TBC
DRL2	600	21.0m	TBC	TBC
DRL3	600'	21.0m	TBC	TBC

(Height is measured to centre of DRL)

Proposed Antenna Details

No.	Size	Hgt	Type	Orientation	Feeder lgth
A1	[illegible]	18.5m	RACAL R2212	75'	22m
B1	[illegible]	18.2m	RACAL R2233	170'	22m
C1	[illegible]	18.5m	RACAL R2212	320'	22m

(Antenna height is measured to base of antenna)
(Feeder lengths from Cabin/Cabinet to each antenna)

Exclusion zone

H3G's Exclusion Zones comply with ICNIRP's Public Exposure limits

Fencing

TYPE 1, NORMAL SECURITY, 1800mm HIGH CHAIN LINK AND 3 STRANDS BARBED WIRE ON VERTICAL EXTENSION POSTS. OVERALL FENCE HEIGHT 2100mm

REV.	DATE	DESCRIPTION	CHK	APP
B2	01/02/02	ANTENNA ORIENTATION CHANGE	SJS	MDC
B1	28/01/02	PLANNING DRG ISSUE	SJS	MDC
A4	23/01/02	Minor alterations	SJS	MDC
A3	14/01/02	NEW TOWER HEIGHT	SJS	MDC
A2	07/01/02	REVISED MONOPOLE HEIGHT	SJS	MDC

Hutchison 3G

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BA1 1HG
TEL: 01225 427000
FAX: 01225 463000
EMAIL: mailto@swtele.co.uk

Site: WYVOLS COURT FARM
BARGE LANE
SWALLOWFIELD
BERKSHIRE

Title: NORTH ELEVATION

Purpose of issue: PLANNING

Drawing no. 00192737-113

Site ID: 00192737

Nominal ID: RG1434

Issue:	Scale: AS SHOWN		Checked: MDC	Date: 10/01
B2	Drn: SJS	Date: 19/10/01	Approv: PD	Date: 10/01

Consultant ref no: CAM5004H

ORIGINAL SIZE - A3

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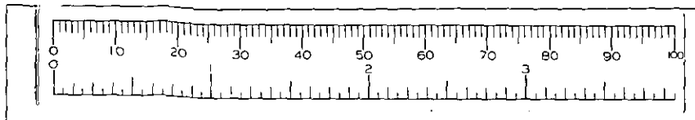

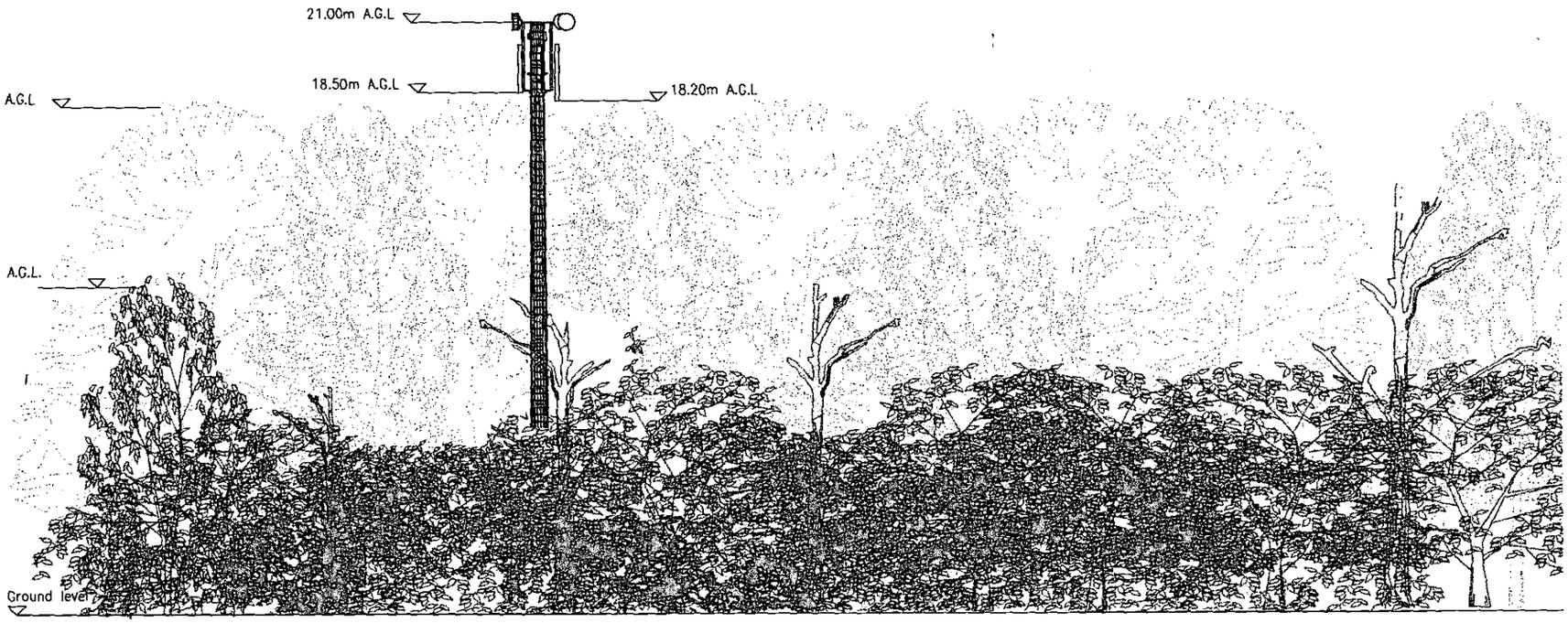

SOUTH ELEVATION

Scale 1:200

13.FEB.2002 5899

NOTES

1.1 Do not scale.

1.2 All dimensions are in mm unless *otherwise specified.*

1.3 *Assume all site details are existing* unless otherwise specified.

PROPOSED HUTCHISON 3G EQUIPMENT

Proposed Cabin/Cabinet Details

Hutchison Ref:- NEC NODE B OUTDOOR CABINET
Dimensions:- *1800x800x1300*

Colour:- GREEN

Proposed Site Access/Route

LEAVE M4 AT J11 PROCEED SOUTH ON THE A33 TOWARDS BASINGSTOKE. CONTINUE OVER FIRST ROUNDABOUT AND TAKE THE THIRD EXIT LEFT SIGNPOSTED TO SWALLOW FIELD. ENTRANCE TO THE SITE IS APPROX 200M ON THE LEFT.

Proposed Tower Details

Height:- 21.0m
Type:- MONOPOLE TOWER
Hutchison Ref:- EVE
Colour:- GREEN

Proposed Transmission Details

No.	Size	Hgt	Type	Orientation
DRL1	600'	21.0m	TBC	TBC
DRL2	600	21.0m	TBC	TBC
DRL3	800'	21.0m	TBC	TBC

(Height is measured to centre of DRL)

Proposed Antenna Details

No.	Size	Hgt	Type	Orientation	Feeder lgth
A1	1700x142x43	18.5m	RACAL R2212	75°	22m
B1	2000x275x50	18.2m	RACAL R2233	170°	22m
C1	1700x142x43	18.5m	RACAL R2212	320°	22m

(Antenna height is measured to base of antenna)
(Feeder lengths from Cabin/Cabinet to each antenna)

Exclusion zone

H3G's Exclusion Zones comply with ICNIRP's Public Exposure limits

Fencing

TYPE 1, NORMAL SECURITY, 1800mm HIGH CHAIN LINK AND 3 STRANDS BARBED WIRE ON VERTICAL EXTENSION POSTS, OVERALL FENCE HEIGHT 2100mm

REV.	DATE	DESCRIPTION	CHK	APP
B2	01/02/02	ANTENNA ORIENTATION CHANGE	SJS	MDC
B1	28/01/02	PLANNING DRG ISSUE	SJS	MDC
A2	23/01/02	Minor alterations	SJS	MDC
A1	18/01/02	Elevation	SJS	MDC

Hutchison 3G

Hutchison 3G UK Limited
Star House, 20 Grenfell Road, Hyderabad, SL6 1EH
Tel: 01628 765 000 Fax: 01628 765 001
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Available Sun-Sun 7 days a week.

SMITH WOOLLEY TELECOM
24 BARTON STREET
BATH
BA1 1HG
TEL: 01225 427000
FAX: 01225 463000
EMAIL: smith@swtele.co.uk

	APPROVED	REJECTED	DATE
ACQUISITION			
CONSTRUCTION			
RADIO			
TRANSMISSION			

LEGEND

- MHA
- Safety Sign
- Proposed External Light
- Proposed Earth Pit
- Proposed Power Route
- Existing Power
- Existing Water
- Existing BT
- Existing Overhead Cables
- Existing Wooden Fence
- Proposed Access Track
- Proposed Gravel Area
- Proposed Cable Tray

Site: WYVOLS COURT FARM
BARGE LANE
SWALLOWFIELD
BERKSHIRE

Title: SOUTH ELEVATION

Purpose of Issue: PLANNING

Drawing no. 00192737-114

Site ID: 00192737

Nominal ID: RG1434

Issue: B2 | Scale: AS SHOWN | Checked: MDC | Date:
Drn: MMB | Date: 18/01/02 | Approv: PD | Date:

Consultant ref no: CAM5004H

ORIGINAL SIZE - A3

NOTE:

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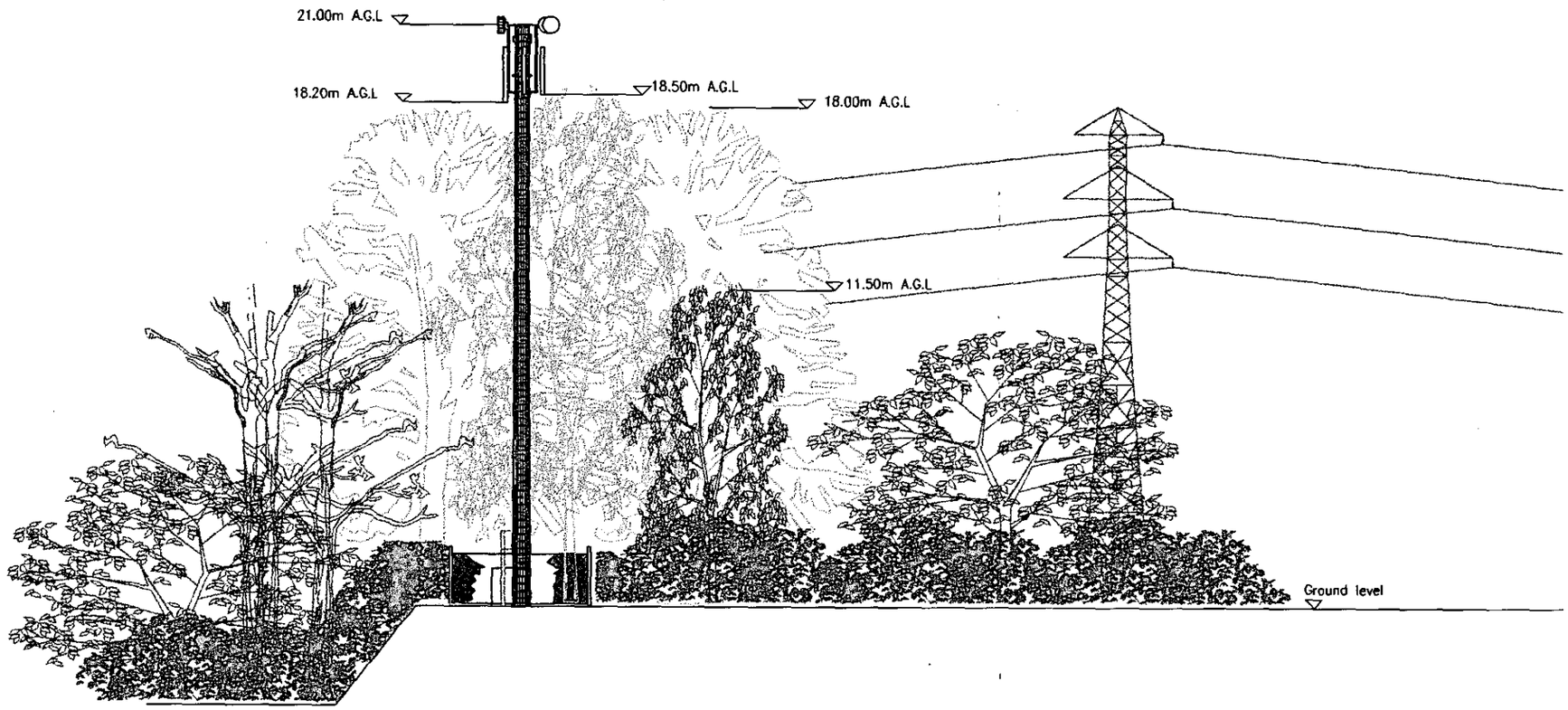

EAST ELEVATION

Scale 1:200

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NOTE:

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13.FEB.2002 5899

NOTES

1.1 Do not scale.

1.2 All dimensions are in mm unless otherwise specified.

1.3 Assume all site details are existing unless otherwise specified.

PROPOSED HUTCHISON 3G EQUIPMENT

Proposed Cabin/Cabinet Details
Hutchison Ref:- NEC NODE B OUTDOOR CABINET
Dimensions:- 1800x800x1300
Colour:- GREEN

Proposed Site Access/Route
LEAVE M4 AT J11 PROCEED SOUTH ON THE A33 TOWARDS BASINGSTOKE, CONTINUE OVER FIRST ROUNDABOUT AND TAKE THE THIRD EXIT LEFT SIGNPOSTED TO SWALLOW FIELD. ENTRANCE TO THE SITE IS APPROX 200M ON THE LEFT.

Proposed Tower Details
Height:- 21.0m
Type:- MONOPOLE TOWER
Hutchison Ref:- EVE
Colour:- GREEN

Proposed Transmission Details

No.	Size	Hgt	Type	Orientation
DRL1	600'	21.0m	TBC	TBC
DRL2	600	21.0m	TBC	TBC
DRL3	600'	21.0m	TBC	TBC

(Height is measured to centre of DRL)

Proposed Antenna Details

No.	Size	Hgt	Type	Orientation	Feeder lgth
A1	[illegible]	18.5m	RACAL R2212	75'	22m
B1	[illegible]	18.2m	RACAL R2233	170'	22m
C1	[illegible]	18.5m	RACAL R2212	320'	22m

(Antenna height is measured to base of antenna)
(Feeder lengths from Cabin/Cabinet to each antenna)

Exclusion zone
H3G's Exclusion Zones comply with ICNIRP's Public Exposure limits

Fencing
TYPE T, NORMAL SECURITY, 1800mm HIGH CHAIN LINK AND 3 STRANDS BARBED WIRE ON VERTICAL EXTENSION POSTS, OVERALL FENCE HEIGHT 2100mm

REV.	DATE	DESCRIPTION	CHK	APP
B2	01/02/02	ANTENNA ORIENTATION CHANGE	SJS	MDC
B1	28/01/02	PLANNING DRG ISSUE	SJS	MDC
A2	23/01/02	Minor alterations	SJS	MDC
A1	14/01/02	Elevation	SJS	MDC

	APPROVED	REJECTED	DATE
ACQUISITION			
CONSTRUCTION			
RADIO			
TRANSMISSION			

LEGEND

- MHA
- Safety Sign
- Proposed External Light
- Proposed Earth Pit
- Proposed Power Route
- Existing Power
- Existing Water
- Existing BT
- Existing Overhead Cables
- Existing Wooden Fence
- Proposed Access Track
- Proposed Gravel Area
- Proposed Cable Tray

Hutchison 3G

Hutchison 3G UK Limited
[illegible]
Tel: 01628 765 000 Fax: 01628 765 001
H3G Base Station Information Line: 0845 6043000
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SMITH WOOLLEY TELECOM
24 BARTON STREET
BATH
BA1 1HG
TEL: 01225 427000
FAX: 01225 463000
EMAIL: mailto@swtele.co.uk

Site: WYVOLS COURT FARM
BARGE LANE
SWALLOWFIELD
BERKSHIRE

Title: EAST ELEVATION

Purpose of Issue: PLANNING

Drawing no.: 00192737-115

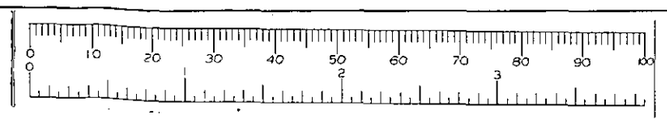
Site ID: 00192737

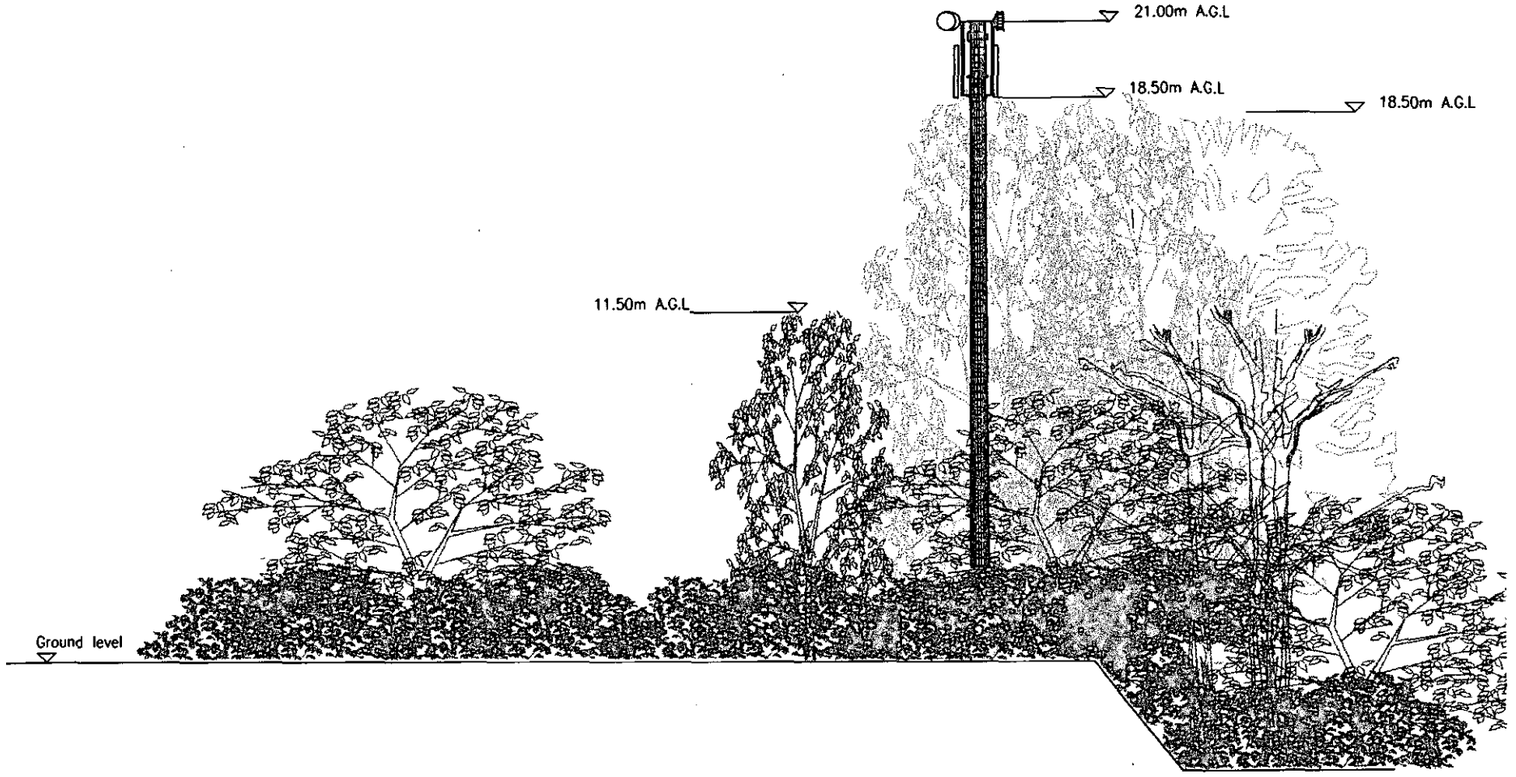
Nominal ID: RG1434

Issue: B2 | Scale: AS SHOWN | Drawn: MMB | Date: 16/01/02 | Checked: MDC | Approved: PD | Dates:

Consultant ref no: CAM5004H

ORIGINAL SIZE - A3





WEST ELEVATION

Scale 1:200

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NOTE:

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NOTES

1.1 Do not scale.

1.2 All dimensions are in mm unless otherwise specified.

1.3 Assume all site details are existing unless otherwise specified.

PROPOSED HUTCHISON 3G EQUIPMENT

Proposed Cabin/Cabinet Details
Hutchison Ref:- NEC NODE B OUTDOOR CABINET
Dimensions:- 1800x800x1300
Colour:- GREEN

Proposed Site Access/Route
LEAVE M4 AT J11 PROCEED SOUTH ON THE A33 TOWARDS BASINGSTOKE. CONTINUE OVER FIRST ROUNDABOUT AND TAKE THE THIRD EXIT LEFT SIGNPOSTED TO SWALLOW FIELD. ENTRANCE TO THE SITE IS APPROX 200M ON THE LEFT.

Proposed Tower Details
Height:- 21.0m
Type:- MONOPOLE TOWER
Hutchison Ref:- EVE
Colour:- GREEN

Proposed Transmission Details

No.	Size	Hgt	Type	Orientation
DRL1	600	21.0m	TBC	TBC
DRL2	600	21.0m	TBC	TBC
DRL3	600	21.0m	TBC	TBC

(Height is measured to centre of DRL)

Proposed Antenna Details

No.	Size	Hgt	Type	Orientation	Feeder lgth
A1	1700x412x43	18.5m	RACAL R2212	75°	22m
B1	2000x270x65	18.2m	RACAL R2233	170°	22m
C1	1700x412x43	18.5m	RACAL R2212	320°	22m

(Antenna height is measured to base of antenna)
(Feeder lengths from Cabin/Cabinet to each antenna)

Exclusion zone
H3G's Exclusion Zones comply with ICNIRP's Public Exposure limits

Fencing
TYPE 1, NORMAL SECURITY, 1800mm HIGH CHAIN LINK AND 3 STRANDS BARBED WIRE ON VERTICAL EXTENSION POSTS, OVERALL FENCE HEIGHT 2100mm

REV.	DATE	DESCRIPTION	CHK	APP
B2	01/02/02	ANTENNA ORIENTATION CHANGE	SJS	MDC
B1	25/01/02	PLANNING DRG ISSUE	SJS	MDC
A2	23/01/02	Minor alterations	SJS	MDC
A1	18/01/02	Elevations	SJS	MDC

	APPROVED	REJECTED	DATE
ACQUISITION			
CONSTRUCTION			
RADIO			
TRANSMISSION			

LEGEND

- MNA
- Safety Sign
- Proposed External Light
- Proposed Earth Pit
- Proposed Power Route
- Existing Power
- Existing Water
- Existing BT
- Existing Overhead Cables
- Existing Wooden Fence
- Proposed Access Track
- Proposed Gravel Area
- Proposed Cable Tray

Hutchison 3G

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TEL: 01225 427000
FAX: 01225 468000
EMAIL: mail@swtele.co.uk

Site:
WYVOLS COURT FARM
BARGE LANE
SWALLOWFIELD
BERKSHIRE

Title: WEST ELEVATION

Purpose of Issue: PLANNING

Drawing no.: 00192737-116

Site ID: 00192737

Nominal ID: RG1434

Issue: B2 | Scale: AS SHOWN | Drn: MMB | Date: 17/01/02 | Checked: MDC | Approved: PD | Date:

Consultant ref no: CAM5004H

ORIGINAL SIZE - A3