APPLICATION NO:
CON/2001/5582

LOCATION:
Dukes Ride, Opposite Junction With Wellesle Road, Crowthorne .

APPLICANT:
Bt Cellnet Ltd C/O APT

PROPOSAL:
Consultation from Bracknell Forest BC on application for prior determination for the erection of 12.5m high telecommunications mast with 2 associated equipment cabinets.

EARLIEST DATE FOR DECISION: **14/01/2002**

APPLICATION WILL HAVE EXPIRED ON:
21/01/2002

CASE OFFICER: **Natalie Brown**

DO 696

RAILEX
Marbleboard

EASIFILE EP7

Tel: (0118) 974 6492 (Direct Line)
E-Mail: Natalie.Brown@wokingham.gov.uk
Date: 18 January 2002
My ref: NB/MLT/CON/2001/5582
Your ref: 01/01215/FUL/CONS

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

Julia Bird
Bracknell Forest Borough Council
Time Square
Market Street
Bracknell
Berks
RG12 1JD

Dear Ms Bird,

PROPOSED INSTALLATION OF 12.5M HIGH TELECOMMUNICATIONS MAST WITH TWO ASSOCIATED EQUIPMENT CABINS AT LAND OPPOSITE WELLESLEY DRIVE & ADJACENT TO RAILWAY STATION, DUKES RIDE, CROWTHORNE

I refer to your consultation letter received on the 24 December 2001 with reference to the above.

The nature of this application is a sensitive form of development and it is assumed that you have consulted local residents within our District that are located near the site.

This Council requests that you give due regard to any concerns raised by local residents.

I trust this advice is of use to you and should you wish to discuss any matter further please do not hesitate to contact Natalie Brown.

Yours sincerely

MLT

M L THORP
Principal Development Control Officer

WOKINGHAM UNITARY
Aiming for Excellence

PLANNING SERVICES

Fax Cover Sheet

DATE: 18/1/02

TO: Julia Bird

FROM: Natalie Brown **Planning Services.**

NUMBER OF PAGES INCLUDING THIS HEADER SHEET: 2

RECIPIENT FAX NUMBER: 01344 351104

OUR FAX NUMBER: (0118) 974 6484

SUBJECT: TL at junction opposite Wellesley Drive, Crowthorne

NOTES: Copy in post also.

* * * COMMUNICATION RESULT REPORT (18.JAN.2002 17:37) * * *

TTI WDC PLAN&TRANSPORT

FILE	MODE	OPTION	ADDRESS (GROUP)	RESULT	PAGE
567	MEMORY TX		901344351104	OK	P. 2/2

REASON FOR ERROR
E-1) HANG UP OR LINE FAIL
E-2) BUSY
E-3) NO ANSWER
E-4) NO FACSIMILE CONNECTION

WORK SHEET FOR : Natalie Brown

Application Number : CON/2001/5582

Applicant : Bt Cellnet Ltd C/O APT.

Location : , Dukes Ride, Opposite Junction With Wellesley Road, Crowthorne, .

Proposal : Consultation from Bracknell Forest BC on application for prior determination for the erection of 12.5m high telecommunications mast with 2 associated equipment cabinets.

Site Notice Displayed ? :

YES	NO	DATE

Date of Neighbour Notifications : .....

Date of Site Visit : .....

Date Registered : 24/12/2001

Earliest Date for Decision : 14/01/2002

Latest Consultation Date/Site Notice Expiry Date : 14/01/2002

This application <u>will have expired on</u>: <u>21/01/2002.</u> 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 :

Pansh council, no comment.

Planning Issues :

Application Number: CON/2001/5582

Appraisal :

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

Application Number CON/2001/5582
Conditions/Reasons for Refusal

No	Std Con	Std Reas	Non Std Conditions / Reasons for Refusal
			This appr represents a sensitive form of development. Provided that Bracknell gives due regard to any concerns raised by local residents.

RECORD OF SITE VISIT

SITE ADDRESS: Dukes Ride, Opposite Junction With Wellesley Road Crowthorne .

APPLICATION NUMBER: CON/2001/5582

OFFICER: Natalie Brown

DATE OF SITE VISIT: 18/1

1 SITE/STATUTORY NOTICE DISPLAYED ?

2. DESCRIPTION OF SURROUNDINGS

Opp res & adj to playing fields

3. DESCRIPTION OF SITE/BUILDING

see site plan

4. RELATIONSHIP TO ADJOINING PROPERTIES

see site plan

5. SITE CONSTRAINTS

TREES

ACCESS/PARKING

LEVELS

BOUNDARY TREATMENT

OTHERS

ADDITIONAL NEIGHBOUR CONSULTATION SHEET

APPLICATION NUMBER: CON/2001/5582
CASE OFFICER: Natalie Brown

ADDRESS OF ADDITIONAL NEIGHBOUR CONSULTATION	NUMBER OF DAYS FOR RESPONSE	DATE LETTER ISSUED (for Admin use)

Application Number : CON/2001/5582	Map No :
Case Officer : Natalie Brown	Site Area :
Valid Date : 24/12/01	Received Date: 24/12/2001

Level : Delegated Application

Description : Consultation from Bracknell Forest BC on application for prior determination for the erection of 12.5m high telecommunications mast with 2 associated equipment cabinets.

Location : , Dukes Ride, Opposite Junction With Wellesley Road, Crowthorne, .

Parish : Ward :

Applicant : Bt Cellnet Ltd C/O APT.

Fee Required: £0 Fee Received: £0

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 I f "Yes" which one _____

Is the site a Listed Building: ☐ Yes ☐ No

Is a Statutory Advertisement required: ☐ Yes ☐ No

INTERNAL CONSULTATIONS

Building Control

Heritage (Harold Sanders)

Landscape

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

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

.....

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NEIGHBOURS

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.....

PLANNING SERVICES | HPT
POL | TLS
DC | ENF
APP
08 JAN 2002
COPIES TO: | ACK:
FILE

Wokingham Without Parish Council Consultation Sheet

Officer Natalie Brown

No CON 2001 5582

Proposal Consultation from Bracknell Forest BC re proposal for telecomms mast with 2 associated equipment cabinets. 2.5 m high

Site Dukes Ride, opposite Junc. with Wellesley Road, Crowthorne.

Committee's Comments

No comments.

Signed :
Clerk to Wokingham Without Parish Council

08 January 2002

5582

Planning & Transportation

This matter is being dealt with by: Julia Bird 01344 351136
julia.bird@bracknell-forest.gov.uk

20th December 2001

Our Ref: 01/01215/FUL/CONS

Wokingham District Council
Planning Department
PO Box 15
Shute End
Wokingham
Berkshire
RG11 1WR

PLANNING SERVICES	HPT
POL	TLS
DC	ENF
APP	
CS	
24 DEC 2001	
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	FILE:

BRACKNELL FOREST BOROUGH COUNCIL
Time Square
Market Street
Bracknell
Berkshire
RG12 1JD
☎ 01344 424642
Fax 01344 351104
DX 33611 Bracknell
Minicom 01344 352045
www.bracknell-forest.gov.uk

Dear Sir/Madam

DESCRIPTION: Installation of a 12.5 metre high telecommunications mast designed to simulate a telegraph pole together with two associated equipment cabinets.

LOCATION: Land Opposite Wellesley Drive And Adjacent To Railway Station Dukes Ride Crowthorne

REFERENCE: 01/01215/FUL

CASE OFFICER: Julia Bird 01344 351136

Town and Country Planning Act 1990

Please find enclosed a copy of the above planning application.

I shall be grateful if you would consider the proposal and advise me of any relevant views you may have. Any comments should be expressed in writing and received within 21 days of the date of this letter.

Please do not hesitate to contact the Case Officer, Julia Bird, on direct line 01344 351136, should you have any queries on this matter.

Yours faithfully

J Bird

Head of Development Control & Building Control

Enc.

01215

A·P·T
A Marconi company

CONSULTATION COPY

Dolphin House, Albany Park, Camberley, Surrey GU16 7QH
Telephone: (01276) 605000 Fax: (01276) 683781
Web Site: www.aptelecom.com

The Chief Planning Officer
Bracknell Forest Borough Council
Time Square
Market Street
Bracknell
Berkshire
RG12 1JD

My Ref: CW/APT/11428
Date: 12th December 2001

Dear Sir / Madam

TOWN AND COUNTRY PLANNING (GENERAL PERMITTED DEVELOPMENT) (AMENDMENT) (ENGLAND) ORDER 2001 - PART 24 DEVELOPMENT BY TELECOMMUNICATIONS CODE SYSTEM OPERATORS

NOTIFICATION OF PERMITTED DEVELOPMENT PROPOSED BY BTCELLNET LTD FOR THE ERECTION OF ONE 12.5-METRE TELEGRAPH POLE, TOGETHER WITH TWO ASSOCIATED EQUIPMENT CABINETS AT JUNCTION OF DUKES RIDE AND WELLESLEY DRIVE, CROWTHORNE, BERKSHIRE, RG45 6AL

BTCellnet Limited is licensed to provide a Cellular Radio Network within the United Kingdom. In order to facilitate this, the company has been conferred the status of Public Telecommunication Code System Operator to provide a public telecommunication system under Section 9 of the Telecommunications Act 1984.

We are writing, on behalf of BTCellnet Ltd, to make application under condition A.3 (3) of the above Order for a determination as to whether the prior approval of the authority will be required to the siting and appearance of the development. We attach plans (Ref No: P/11428D/GEN/050 and /051) showing the proposed installation, together with a cheque for £190.00 (One Hundred and Ninety Pounds).

Should you wish to discuss the proposals in greater detail, or require further technical information, please do not hesitate to contact Louise Ellett on 01276 605006.

Yours faithfully

Carolyn Wyatt
For and on Behalf of BTCellnet Ltd

56-DAY PRIOR APPROVAL NOTIFICATION AND SUPPORTING STATEMENT

RE: WELLINGTON
OUR REF: CW/APT/11428

(Please quote above reference number in all communications)

December 2001

BTCellnet Ltd
260 Bath Road
Slough
SL1 4DX



APT-Marconi
Registration No. 03049168
Registered Office: New Century Park, P.O. Box 53, Coventry, CV3 1HJ
VAT Registered. - 528941616

CONTENTS

Section

- Code of Best Practice
- Proposed Development
- Planning Policy
- Assessment of Need
- Consideration of Alternatives
- Health and Safety
- Conclusion

Drawing/ Plan No P/11428D/GEN/050 & /051

- Site Location Plan
- Layout Plan
- Elevation drawing

Appendix

- Cell search area
- Radio Coverage Plots as existing
- Radio Coverage Plots for proposed site
- Compliance with ICNIRP (1998) Public Exposure Guidelines
- Licence Notification letter
- Colour photographs of site
- Developers notice

A·P·T

A Marconi company

ADDITIONAL SUPPORTING INFORMATION TO ACCOMPANY A PRIOR APPROVAL APPLICATION UNDER PART 24 OF THE TOWN AND COUNTRY PLANNING (GENERAL PERMITTED DEVELOPMENT) (AMENDMENT) (ENGLAND) ORDER 2001

Site details

Site Name	Wellington	Site Address: Jcn. Dukes Riad / Wellesley Drive, Crowthorne, Berkshire, RG45 6AL
NGR	SU 82199 63443	
Site Ref. Number	11428	
Site Type (Macro/Micro/Picocell)	Macrocell	Date: 13th December 2001

Pre Application Checklist

1. Date of last pre-rollout information submission to LPA	
2. Name of LPA contact	
3. Comments	

4. Date of written offer of pre-application consultation with LPA	
5. Was there pre-application contact with the LPA	Yes/~~No~~
6. Date of pre-application contact with LPA	23/08/01
7. Name of LPA contact	Marcia Head
8. Outcome	See supporting statement
9. Was an LPA mast register used to check for suitable sites by the operator or the LPA?	~~Yes~~ / No
10. If no explain why Existing masts suggested by LPA in their letter of 04/09/01	
11. Was the industry site database checked for suitable sites by the operator?	Yes / ~~No~~
12. If no explain why	
13. Reason(s) why site required e.g. coverage, upgrade, capacity (map attached if required) To offer coverage to the area surrounding the site and to link in with other existing and proposed sites.	
14. Alternative Sites Considered – See supporting statement (If no alternatives have been considered please explain why)	

Technical Information

1.	ICNIRP Declaration attached	Yes
2.	Frequency	900MHz
3.	Modulation characteristics	Gaussian Shift Key
4.	Power output	100 Watts
5.	Height of antenna (m above ground level)	10.5-metres

Reasons for choice of design
A streetworks telegraph pole has been proposed in order to integrate the proposal into the street scene, thereby mitigating the visual impact

The Proposed Structure

Type of Structure (e.g. tower, mast, etc): Streetworks Telegraph Pole

Overall height: 12.5-Metres

Height of existing building (where applicable): N/A

Equipment Housing:
Length: 1.45-Metres
Width: 0.35-Metres
Height: 1.50-Metres

Second Equipment Housing:
Length: 1.36-Metres
Width: 0.35-Metres
Height: 1.50-Metres

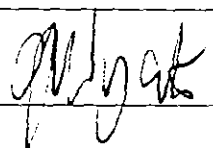
Materials (as applicable):
Tower/mast etc: - type of material and external colour: Tube with bark effect GRP coating

Equipment housing- type of material and external colour: Green Steel

Pre Application Consultation

1. Will the structure be within 3km of an aerodrome or airfield?	~~Yes~~ / No
2. If Yes, has the Civil Aviation Authority, Secretary State for Defence or aerodrome operator (as appropriate) been notified?	~~Yes~~ / No
3. Additional relevant information	
Location of and distance to nearest residential property (were applicable)	30-M
Location of and distance to nearest school or college	N/A
Evidence that the school(s)/college(s) have been consulted	~~Yes~~ / No

For further information, please contact

Name	Louise Ellett	Telephone	01276 605006
Operator	BTCellnet Ltd	Fax no	01276 683781
Address	C/o Dolphin House	Email address	louise.Ellett@marconi.com
	Albany Park		
	Camberley		
	Surrey		
	GU16 7QH		
Signed		Date	13th December 2001
Position	Planner	Company (on behalf of the above operator)	APT Marconi

Proposed Development

The Site

The application site is located to the west of Crowthorne at the junction of Dukes Ride and Welesley Drive on a grass verge which runs adjacent to the pavement.

The application site covers the land required for the proposed telecommunications development and its associated infrastructure including equipment housing and access.

The Proposal

In the design of telecommunications installations regard is given to technical, engineering, environmental and land use planning considerations

The principal components of the proposed development, as outlined on the planning application form, and the general layout of the proposed telecommunications infrastructure are illustrated on the attached site layout plan and elevations (Drawing Nos. P11428D/GEN/050 & /051).

The proposed development consists of a 12.5-metre column to simulate a telegraph pole, together with two associated equipment cabinets that will be sited immediately to the east. The telegraph pole is a steel tube coated with bark effect GRP. The equipment cabinets will be painted green.

The siting of the streetworks column and street furniture at this location has been proposed in order to minimise the visual impact of this proposal. Existing street furniture will help to integrate the proposal into the street scene.

Pre Application Consultation

In line with PPG8 (2001), the Telecommunications Code of Best Practice and the Ten Commitments of the UK mobile phone operators (supported by the Federation of Electronics Industries), pre-application consultation was undertaken with the Local Planning Authority to help identify the scope of the planning application and the issues to be addressed within this supporting statement.

In a letter to the Authority dated 23rd August 2001, APT Marconi on behalf of BTCellnet indicated the proposed site and asked for the Authority's informal comments. In response, a letter dated 4th September 2001 from the Authority indicated that the sharing of an existing mast would be the preferred approach. The sites suggested by the Authority have been investigated but none of these sites are suitable and, therefore, the streetworks proposal is the nature of this application.

Planning Policy

National Guidance

Planning guidance on telecommunications in England is currently contained in the following two documents. These are:

- Planning Policy Guidance Note (PPG) 8 'Telecommunications' (August 2001);
- The Code of Best Practice on Telecommunications Prior Approval Procedures

The Government's general policy on telecommunications is to facilitate the growth of new and existing systems, whilst at the same time protecting the environment. It also attaches importance to the concept of mast and site sharing.

For example, PPG 8 paragraphs 24 and 25 state:

In seeking to arrive at the best solution for an individual site, authorities and operators should use sympathetic design and camouflage to minimise the impact of the development on the environment. Particularly in designated areas, the aim should be for apparatus to blend into the landscape.

The telecommunications industry is encouraged to continue to develop innovative design solutions, in terms not only of the structure of masts and antennas, but also the materials and colouring

Assessment of Need

Methodology

A need has been identified for the proposed development on the basis of an assessment of the existing network. This assessment identified a requirement to upgrade and expand the network to be able to handle the demand for calls as well as to facilitate the introduction of the various forms of high-speed data transmission. The introduction of these new technologies requires additional infrastructure to be established.

This assessment of need has involved analysis of the following criteria:

1. Coverage – Under the terms of its licence, granted by the Government, there is a legal obligation for operators to expand their networks to accommodate customer requirements of service and quality (see PPG8, Appendix – Supporting Guidance paragraphs 20 and 27).. There is also requirement to ensure that all reasonable demands for service are capable of being met (see Code of Best Practice, part 1.2 paragraph 3). These demands by residential and commercial customers extend to the requirement for network coverage to be available at home, in the workplace, while shopping, enjoying leisure activities and while on the move.

2. Quality – Radio base stations are low-powered devices (between 2 and 70 watts), communicating with low-powered handsets (2 watts maximum) and can only cover limited geographical areas; up to a theoretical maximum of 32 kilometres in flat, sparsely-populated areas and as a little as a few hundred metres in busy, urban centres.

3. Capacity – Network coverage is provided through a series of radio base stations, each of which is required to operate within a certain cell area. The size of each cell is determined by a number of factors, in particular the demand from subscribers. As the use of and demand for mobile phones has increased the number of sites required to provide sufficient network capacity has increased.

Each cell or base station can only handle a finite number of calls. Therefore, in areas of high use, additional cells are required to meet demands on the network. Capacity can be expanded either by introducing new sites or by splitting existing cells.

With the majority of the operator's network being operational and fixed the potential locations for new sites are limited. There is a need to provide an efficient distribution of sites to avoid signals of the same frequency, causing interference with one another. The operators' radio engineers produce plans that indicate the optimum site location (the cell centre) and its coverage area. Only a small degree of tolerance is acceptable to provide the coverage required and to avoid interference with adjoining cells. The radio parameters for any site can also be influenced by local topographical factors and 'clutter' caused by trees or tall buildings.

Site Specific Assessment of Need

The attached radio coverage plots demonstrate the need for a base station at the above site. This plot is a computerised radio coverage prediction chart. The plots are very precise and their accuracy is constantly confirmed by the use of mobile towers and drive around radio surveys.

The coloured plots represent the strength of radio signals as they leave the antennas, and indicate a deficiency within the application area. These areas of deficiency are known as "holes" and where there are holes in the coverage, users to the system will experience a number of deficiencies. These include:

- in-building radio coverage will not be obtained;
- when a customer attempts to join the network they will be unable to obtain a link to a base station. This is an important factor should a vehicle break down in the area, especially with regard to lone travellers;
- a customer passing through the area using a mobile telephone will be cut off, which is known as "drop out";
- a telephone user trying to contact a customer in the area will be unable to get through;
- emergency services will not be contactable. Increasingly mobile telephones are being used for 999 calls.

It is for these reasons that it is important to achieve a comprehensive service of quality for mobile users. The main complaints received by mobile telephone operators about their service relate to the problems associated with dropped calls and no service.

The benefits of providing a modern telecommunications system and the need for providing sufficient levels of coverage, quality and capacity are recognised by the Government. In its statement on mobile phone masts on 16 March 2001, the Government states:

"***Parents and children feel more secure because of them. Mobile phones have saved lives – they allow emergency services to be called immediately when they are needed. None of this could happen without the masts and other infrastructure which enable the service to be delivered.***"

The attached plots indicate the radio coverage in the application cell area as existing and as anticipated subject to approval of this proposal. For the operator's requirements to be fulfilled, the area surrounding the proposed site needs to have a signal of at least –72dBm. i.e. coloured aqua. The existing plot clearly shows that the area at present is deficient in radio coverage and is therefore unsatisfactory for customers.

The plot based upon the proposed site's integration within the radio network indicates that coverage requirements would be achieved, with the majority of the application cell area showing signal strength above –72dBm.

Consideration of Alternatives

Methodology

In assessing potential locations, the following considerations have been taken into account.

1 Planning – Every effort is made to ensure that the most suitable site is identified in terms of its planning characteristics. In identifying potential sites, consideration is given to the location of sensitive receptors, adjoining land use designations and the availability of effective screening measures. These considerations are, however, balanced by the technical requirements and land availability issues identified below.

2. The radio implication of the site – The transfer of radio signals and data along the telecommunication networks can be provided through two alternatives; microwave antenna and fibre-optic links. With microwave antenna a 'line of sight' has to be established and protected between associated infrastructure, if this is disrupted so is the network service. To achieve an uninterrupted line of sight the installation must reach a sufficient height above surrounding buildings and trees. The installation must also be in a position to provide good in-building radio coverage to the target area.

3. Land availability – The site is dependent upon landowners' willingness to see their property used for this purpose.

APT-Marconi has undertaken an assessment of potential sites within the search area. This assessment was undertaken through analysis of Ordnance Survey maps of the local area, a site visit and following discussions with the local planning authority and local landowners. Network radio planners have also analysed the search area to ensure that identified options are acceptable in radio coverage terms.

Site Specific Alternatives Considered

Other sites investigated included:

(A) – Wellington College, Crowthorne – NGRs 483200:163450

The site owner is not interested in accommodating a telecommunications installation at this location.

(B) – Wellington Business Park, Crowthorne – NGRs 482500:163520

There is not enough room to site a telecommunications installation, nonetheless, the site provider is not interested.

(C) – East Berkshire Golf Course, Crowthorne – NGRs 482350:163520

The site owner is not interested in accommodating a telecommunications installation at this location.

(D) – Ravenswood Village Settlement, – NGRs 482400:164700

This is a disabled people's day centre and the site owner is not interested in accommodating a telecommunications installation. It is understood that a previous application by Orange PCS for a site at this location was refused planning.

(E) – Vodafone mast, Crownthorne Train Station – NGRs 482400:163520

The site is on Railtrack land and no additional land can be made available for the equipment cabins. Therefore, it is not possible to mast share at this site.

As pointed out in a letter from Adam Johnston of APT Marconi dated 6th September 2001 in response to the LPA's letter of 4th September 2001: The Broadmoor Hospital site is an existing BTCellnet site; the mast at Somerfield Supermarket will not offer the required coverage.

The site subject of this application was the only site that met the required criteria for this cell.

The site area consists of a mixture of existing street furniture and trees. Therefore, the use of a streetworks design will integrate well into the existing street scene, thus mitigating any visual impact.

An installation at this location will meet BTCellnet's coverage objectives by offering a high level of coverage to surrounding road network, railway line and railway station, which are currently deficient in adequate coverage.

Health and Safety

In response to the growing concern related to the health implications of exposure to electromagnetic fields (EMFs) the Government asked its statutory advisors on radiological protection (the National Radiological Protection Board (NRPB)) to establish an Independent Expert Group on Mobile Phones (IEGMP). This Group considered the concerns about the health effects from the use of mobile phones, base stations and transmitters. The expert groups' report (also known as the Stewart Report) was published in May 2000. It concluded that:

"***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 the guidelines***"

It is the Government's view that if a proposed development meets the International Commission on Non-Ionising Radiation Protection (ICNIRP:1998) public exposure guidelines, as recommended on a precautionary basis in the Stewart Report, it should not be necessary for a planning authority, in processing an application, to consider health effects further. This message was re-stated by Nick Raynsford to all English MPs and local authorities in a letter, dated 29 June 2000. It has since been further re-emphasised in PPG 8 (2001) paragraph 98, which states:

"...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."

The EU Recommendation is based on ICNIRP (1998) guidelines for limiting general public exposure to electromagnetic fields (radio waves). ICNIRP (1998) guidelines apply a 50-fold safety margin for continuous exposure of the general public to electromagnetic fields, providing a conservative public exposure guideline set at 2% of the level where replicated biological effects have actually been observed.

The UK mobile phone operators will, as a minimum, build base station sites to comply with the ICNIRP (1998) general public exposure guidelines in areas where the public spend a significant amount of time. These areas are those locations where antennas are accessible to the public without the use of climbing aids such as ladders, crossing barriers or other access controls.

Nature of Radio Waves

As one moves away from the antenna, the strength of the radio wave falls off very rapidly. As the strength of the radio wave decreases, so does the exposure level. It is important to note that masts or other support structures do not emit radio waves.

Accordingly, there are points in space, around the antennas, where the maximum level just meets the ICNIRP (1998) general public exposure guidelines. These points define a volume within which there is the potential

to exceed the ICNIRP general public exposure guidelines. This volume is referred to as the "***EU Zone***" or "***ICNIRP Public Zone***" and public access is physically restricted to these areas. For large base stations this area or exclusion zone is around 3-metres from the antennae, for smaller installations, as little as 3.5 centimetres. However access to the areas where ICNIRP (1998) public exposure guidelines may be exceeded will be restricted and warning signs will be displayed.

Compliance Overview

When compared to the ICNIRP (1998) public exposure guidelines, the typical power densities from a base station encountered at ground level are never likely to exceed a value which is a hundred times lower than the recommended maximum. In reality, this condition rarely exists and therefore, the actual antenna loading of the installation will be less than that calculated from the theoretical maximum antenna loading.

This supporting statement includes a signed Certificate of Conformity issued by BTCellnet Ltd, which confirms that the proposed development is within the established international guidelines. Calculations undertaken by the operator indicate that emissions associated with the proposed development will be a maximum of 0.053% of the level recommended by ICNIRP in areas accessible by the general public.

The proposed base station will operate within the 900MHz range.

Conclusions

There is a requirement by the operator to increase telecommunication network coverage, quality and capacity in this locality. Network planners have identified a need for a further installation, which is demonstrated in the coverage plots included. The proposed development will address this identified need and improve the operators network in line with their licence requirements and customer demands.

In accordance with PPG8 (2001) an assessment of the site and potential alternatives, including existing buildings, radio towers and other structures and locations, has been undertaken and discussions were held with the local authority. The site was identified and assessed in conjunction with the operator and landowner and was the most appropriate site that met the required criteria for this cell.

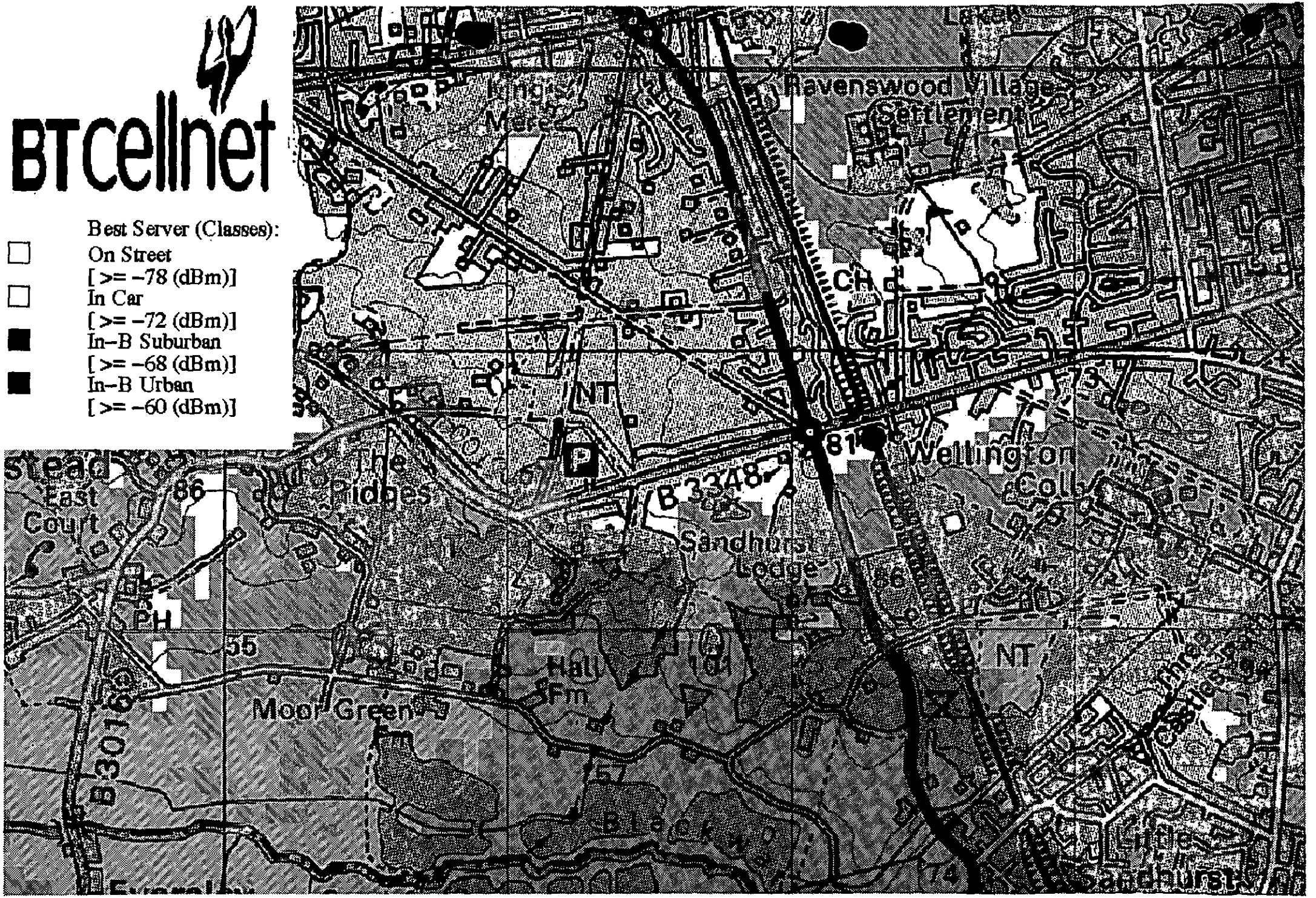
The telecommunications infrastructure proposed as part of this application has been designed and sited, having regard to technical, engineering and land use planning considerations, in order to minimise its impact on the local environment. Accordingly, the proposed development is considered to conform to national and local planning policies and guidance.

The enclosed information from BTCellnet Ltd confirms that the proposed development will conform to both NRPB and ICNIRP (1998) guidelines in areas that are accessible to the public.

BTcellnet

Best Server (Classes):

- On Street [>= -78 (dBm)]
- In Car [>= -72 (dBm)]
- In-B Suburban [>= -68 (dBm)]
- In-B Urban [>= -60 (dBm)]



BTcellnet

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

BT Cellnet
260 Bath Road
Slough
SL1 4DX

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

Cell 11428 Wellington – Street Furniture at Dukes Ride, Crowthorne, Berkshire, RG45 6LT

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 (0 Hz to 300 GHz)".

* Reference: 1999/519/EC

Date: 20th November 2001

Signed: .....

Name: Abdul Ajaz

Position: Sites Acquisition Manager

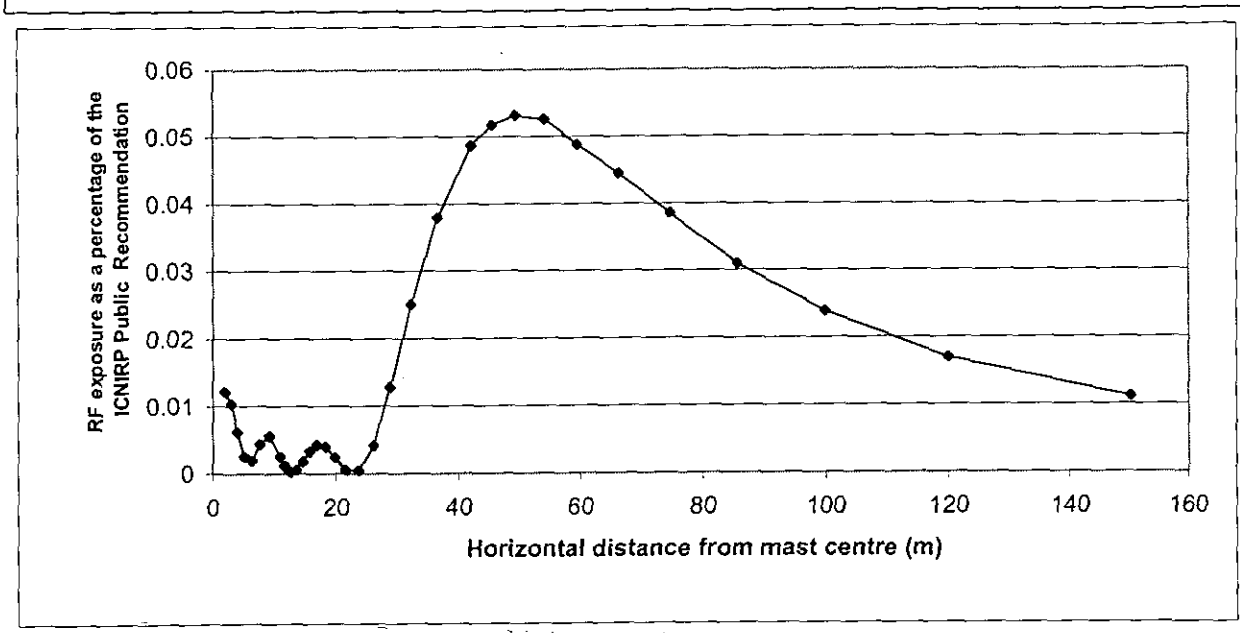
STREET FURNITURE MACROCELL ANTENNA FIELD STRENGTH PREDICTION

BTcellnet

SITE: 11428 SF Dukes Ride

Range from	2	m
to	200	m
900 MHz Band:		
Number of carriers	2	
ERP per carrier	17	Watts relative to a dipole
1800 MHz Band:		
Number of carriers	0	
ERP per carrier	100	Watts relative to a dipole
3rd Generation:		
Number of carriers	1	
ERP per carrier	122	Watts relative to a dipole
Mechanical Downtilt	0	degrees
Antenna Height	12.5	m - measured local ground to antenna centre
Measurement height	0	m - above local ground
Building losses	0	dB

The graph below shows the RF exposure from a typical cellular radio transmit antenna , with site characteristics as given above, expressed as a percentage of the ICNIRP General Public RF exposure recommendation.



maximum =	4.24	milliwatts per sq m
at	49	metres from the mast
	0.006	% of NRPB safety levels
	0.053	% of ICNIRP safety level
equivalent to	1.3	Volts per metre

Warnings: None

Date: 21-Nov-01

BTcellnet

CELL 11428 – WELLINGTON

SF AT DUKES RIDE

ALL DEGREE MEASUREMENTS ARE CENTRE FRAME

VIEW AT 0 DEGREES



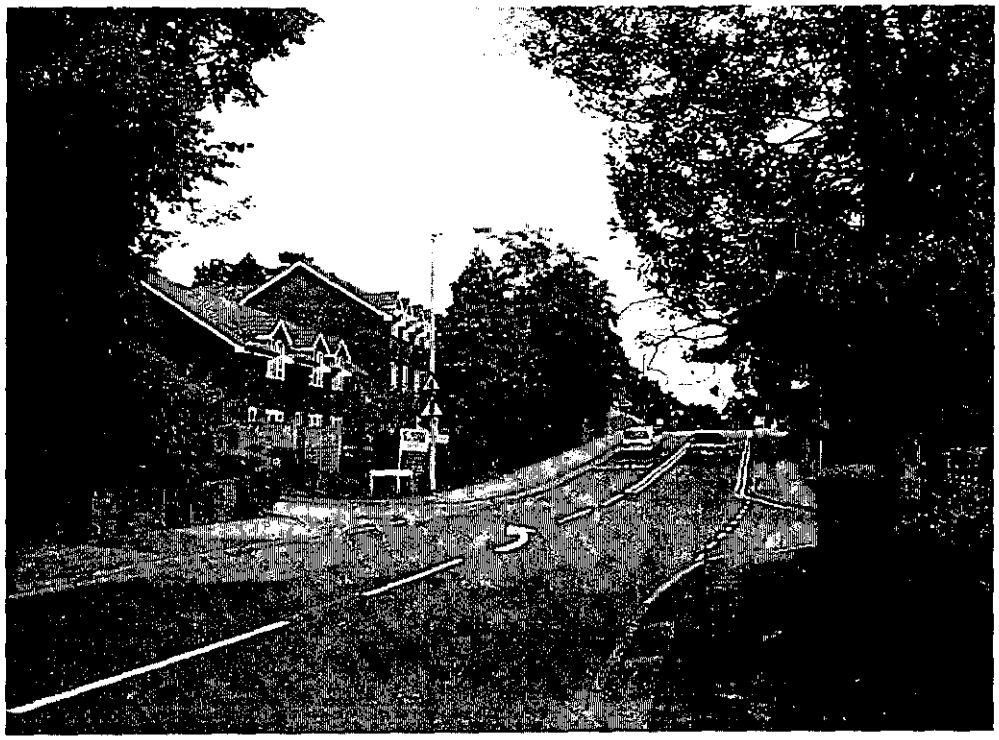
VIEW AT 45 DEGREES



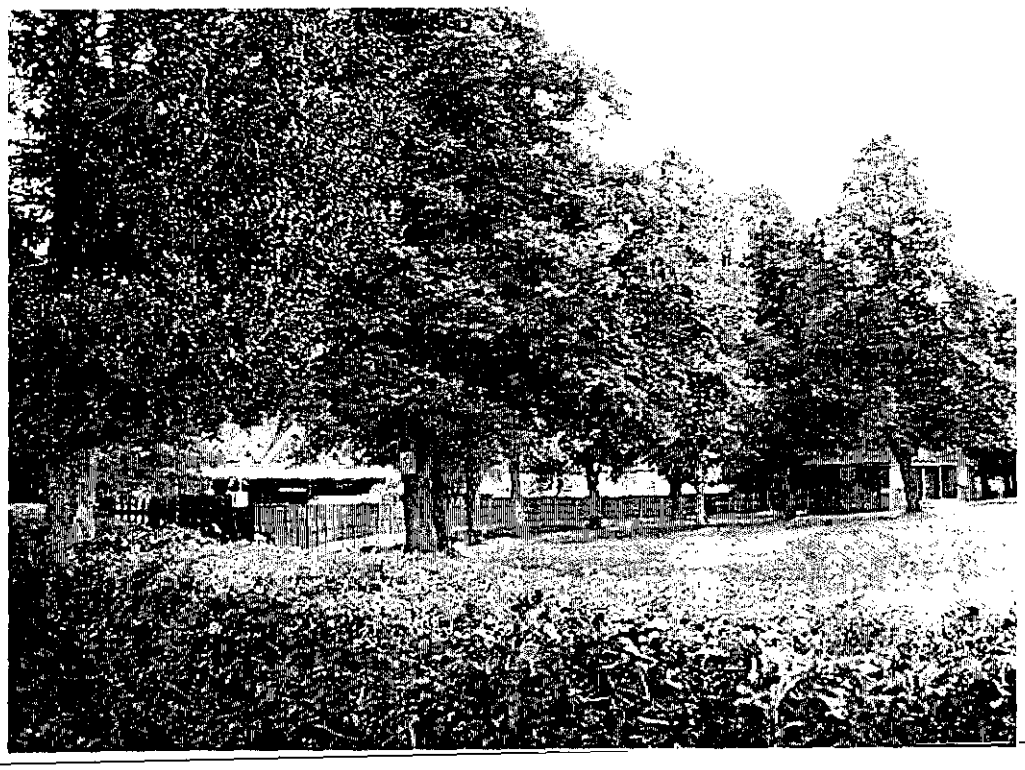
BTcellnet

ALL DEGREE MEASUREMENTS ARE CENTRE FRAME

VIEW AT 90 DEGREES



VIEW AT 135 DEGREES



BTcellnet

ALL DEGREE MEASUREMENTS ARE CENTRE FRAME

VIEW AT 180 DEGREES



VIEW AT 225 DEGREES



BTcellnet

ALL DEGREE MEASUREMENTS ARE CENTRE FRAME

VIEW AT 270 DEGREES

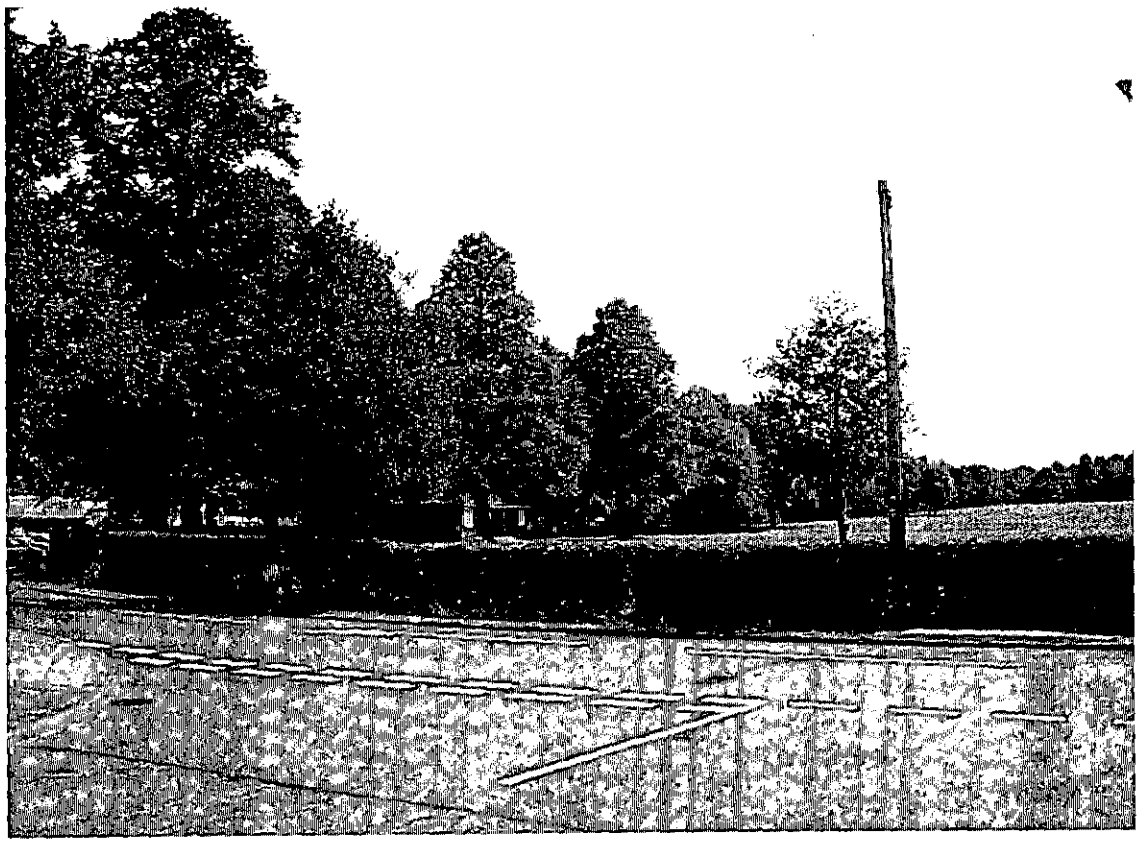


VIEW AT 315 DEGREES



BTcellnet

VIEW OF SITE



Ref: AJ/11428

Bracknell Forest Borough Council
Planning Department
Ocean House
The Ring
Bracknell
Berkshire
RG12 1AX

23 August 2001

Dear Sir,

RE: Proposed BT Cellnet Installation – Wellington

I am a surveyor working for BT Cellnet, the mobile telephone operators. We are currently looking in the Crowthorne area for a potential street furniture lamppost type of installation. We have visited the area, and noticed that Dukes Ride, near Crowthorne Station is a possible location.

Can I please have your informal comments as to the suitability of this location.

Yours Faithfully

ADAM JOHNSTON

For and on behalf of A P T

Direct Line: 01252 666078
Fax : 01252 666011
Mobile : 07866 677686
E-mail: adam.johnston@aptelecom.com

Encl: Radio Datasheet 219 – Street Furniture Macrocell for info. Purposes
Directions to site – Directions to Dukes Ride

A·P·T

A Marconi company

DEVELOPER'S NOTICE OF PROPOSED DEVELOPMENT

Proposed development at **Junction of Dukes Ride / Wellesley Drive, Crowthorne, Berkshire, RG45 6AL**

I give notice that **APT** on behalf of **BTCellnet Ltd**

is to apply to **Bracknell Forest Borough Council** under condition A.3 of Part 24 of the Town and Country Planning (General Permitted Development) (Amendment) (England) Order 2001 for its determination as to whether the prior approval of the authority will be required to the siting and appearance of the following development;

Installation of one 12.5-metre streetworks column to simulate a telegraph pole, together with two associated equipment cabinets

Under Part 24 of the Town and Country Planning (General Permitted Development) (Amendment) (England) Order 2001, the Council are allowed 56 days beginning with the date of the application to consider whether prior approval will be required to the siting and appearance of the development proposed and, if so, to give or refuse such approval and to serve that decision upon the applicant.

Copies of the application and accompanying plans may be inspected during normal office hours at the following address;

Bracknell Forest Borough Council
Time Square
Market Street
Bracknell
Berkshire RG12 1JD

Any person wishing to make representations about the siting and appearance of the proposed development are invited to forward their views in writing to the Council within **14 days of the date of this notice** clearly referring to the site address given at the top of this notice.

SIGNED: _____

ON BEHALF OF **BTCellnet Ltd** DATED: **13th December 2001**

Planning & Transportation

This matter is being dealt with by:

Marcia Head, 01344 351135

My ref: DC/2/5
Your ref: AJ/11428

RECEIVED
- 6 SEP 2001

4 September 2001

Mr A Johnston
A.P.T
Warwick House
Church Lane East
Aldershot
Hampshire
GU11 3ST

BRACKNELL FOREST BOROUGH COUNCIL

Time Square
Market Street
Bracknell
Berkshire
RG12 1JD
☎ 01344 424642
Fax 01344 351260
DX 33611 Bracknell
Minicom 01344 352045
www.bracknell-forest.gov.uk

Dear Mr Johnston

Town and Country Planning Act 1990
Dukes Ride, Crowthorne
Proposed telecommunications development

Thank you for your letter dated 23 August 2001.

Planning applications for telecommunications development within the Borough usually attract a great deal of concern amongst local residents. One of the main considerations against which a proposal is considered is policy SC5 of the Deposit Draft Bracknell Forest Borough Local Plan (June 1996) Incorporating Modifications. In short, this policy requires, inter alia, that developers provide technical information to demonstrate a need for the development and that opportunities for mast sharing be explored.

There are four existing masts in Crowthorne and I am of the opinion that in the first instance you investigate the possibility of sharing one. These are located at:

Cricket Field Grove, Broadmoor Hospital Estate
Somerfield Supermarket, High Street
Rear of Unit 23, Wellington Business Park
Crowthorne Train Station

As there is an existing mast at Crowthorne Station in Dukes Ride you would need to provide evidence as to why you could not share the existing mast.

If you have any further queries please contact Marcia Head on 01344 351135.

Yours sincerely

E.A. King

for Borough Planning Officer

Our ref: AJ/11428
Your ref: DC/2/5

Marcia Head
Bracknell Forest Borough Council
Planning & Transportation
Time Square
Market Street
Bracknell
Berkshire
RG12 1JD

6th September 2001

Dear Marcia Head,

Re: Proposed BTCellnet Installation Dukes Ride, Crowthorne

Thank you for your letter dated 4th September.

I note your comments regarding the existing masts in the area. The Broadmoor Hospital site I understand BTCellnet already have equipment located on, and the mast at Somerfield Supermarket is too far from the target coverage area. With regards to the mast at rear of Unit 23 Wellington Business Park, I am not aware of this mast, it certainly was not on site when I was there a few weeks ago. The Vodafone mast at Crowthorne Train Station has been looked at by my clients, but I understand can not be shared for technical reasons.

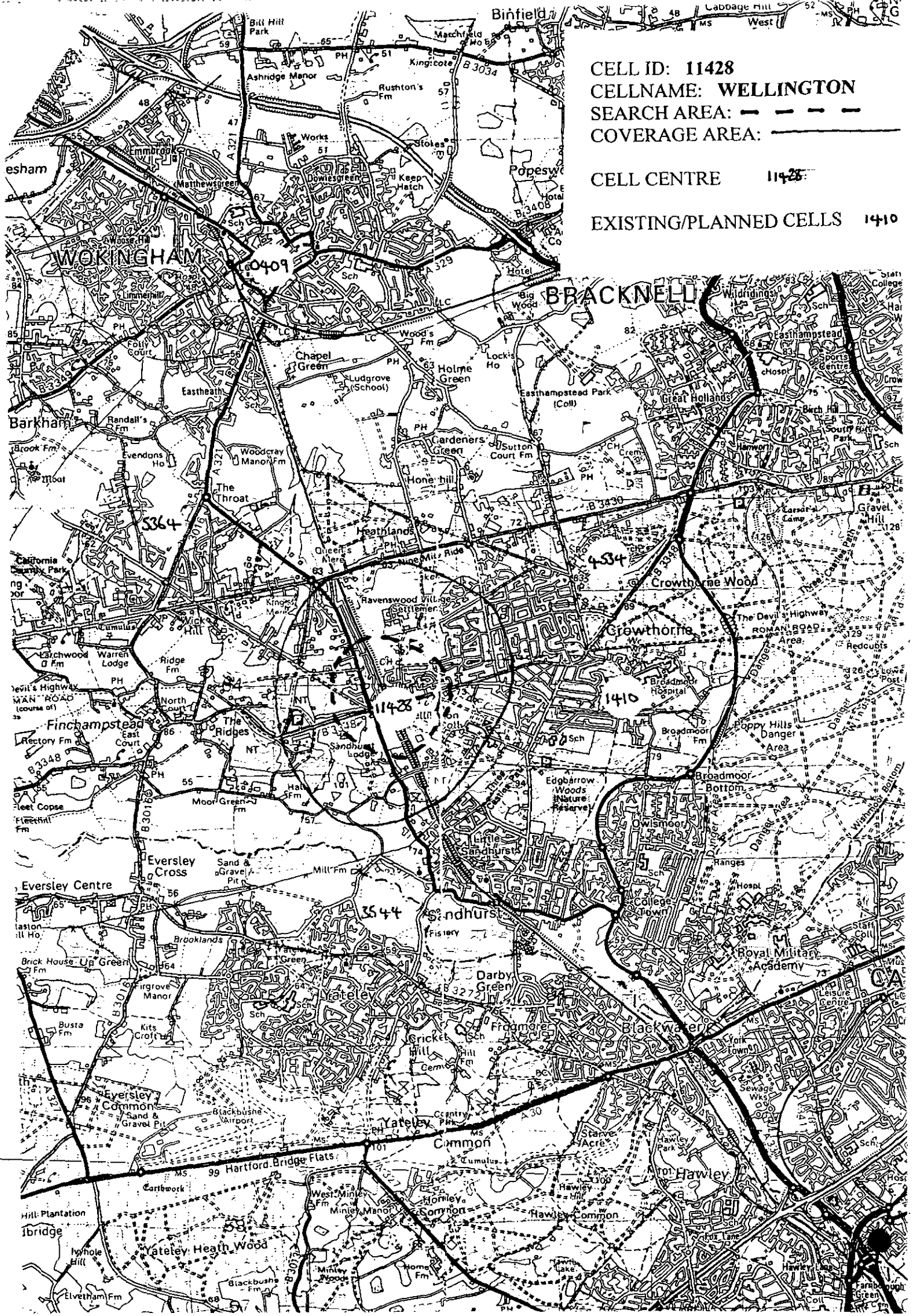
Obviously more detail giving a full justification will be included when an application is submitted.

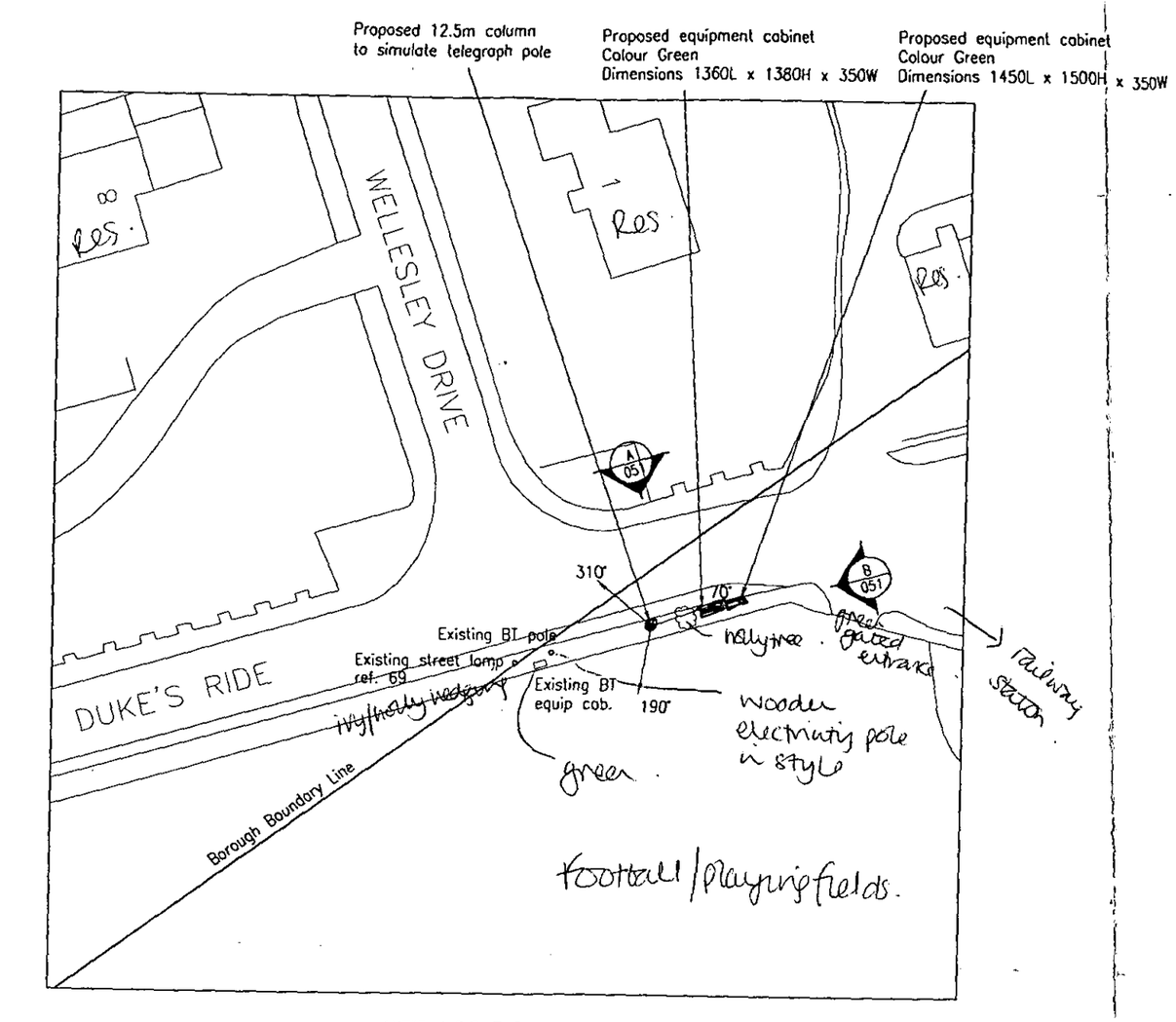
Yours sincerely

ADAM JOHNSTON

For and on behalf of A P T

Direct Line: 01252 666078

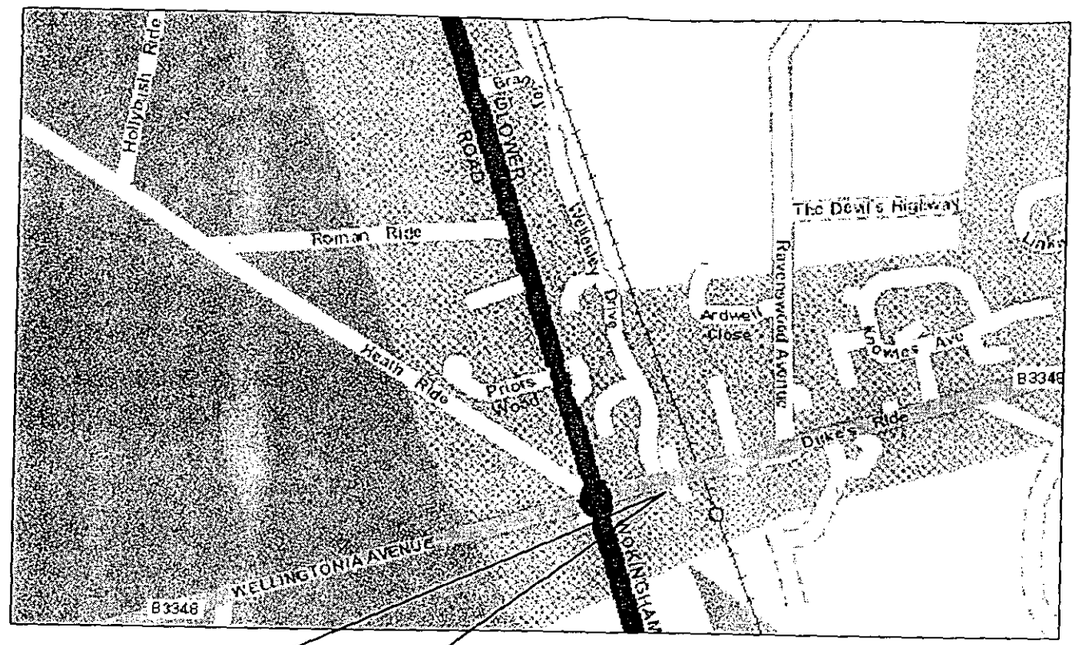

CELL ID: 11428
CELLNAME: WELLINGTON
SEARCH AREA: — — — —
COVERAGE AREA: ————
CELL CENTRE 11428
EXISTING/PLANNED CELLS 1410
WOKINGHAM
BRACKNELL
Binfield
Barkham
Finchampstead
Eversley Cross
Eversley Centre
Sandhurst
Crowthorne
Crowthorne Wood
Yateley
Blackwater
Hawley
Yateley Common
Eversley Common
Yateley Heath Wood
Hartford Bridge Flats
Broadmoor Bottom
Owlsmoor
Darby Green
Chapel Green
Heathlands
Ravenswood Village
Easthampstead
Great Hollands
Wildridings
Holme Green
Gardeners Green
Sutton Court Fm
Woodcray Manor Fm
Ashridge Manor
Rushton's Fm
Dowlesgreen
Keep Hatch
Matthewsgreen
Emmbrook
Ludgrove (School)
Easthampstead Park (Coll)
Broadmoor Hospital
Royal Military Academy
College Town
Little Sandhurst
Edgbarrow Woods Nature Reserve
Blackbushe Airport
Sand & Gravel Pit
Mill Fm
Moor Green Fm
Hall Fm
Brookfields
Brick House Up Green
Kits Croft
Busta Fm
Fleet Copse
Fleethill Fm
Rectory Fm
East Court
North Court
The Ridges
Sandhurst Lodge
Warren Lodge
Larchwood Fm
Ridge Fm
Wick Hill
The Throat
Evendons Ho
Randall's Fm
Brook Fm
Folly Court
Limmerhill
Eastheath
Lock's Ho
Big Wood
Wood's Fm
Queen's Mere
Nine Mile Ride
The Devil's Highway
ROMAN ROAD
Danger Area
Poppy Hills Danger Area
Broadmoor Fm
Wishmoor Bottom
Ranges
Hawley Common
Hawley Lake
Farnborough Green
Cricket Hill
Frogmore
Starve Acre
Hawley Park
Sewage Wks
Leisure Centre
Sports Centre
Hospl
Cemy
Country Pk
Earthwork
Cumulus
Tumulus
Roman Camp
Gravel Hill
Birch Hill
South Hill Park
Hanworth
Wick Hill
Ivywhole Hill
Elvetham Fm
Home Fm
Minley Manor
West Minley Fm
Norridge Common
Yateley Heath Wood
Blackbushe Fm
Minley Woods
Hill Plantation
Ibridge
Busta Fm
Kits Croft
Brick House Up Green
Irgrove Manor
Brooklands
Fisery
Mill Fm
Sand & Gravel Pit
Eversley Cross
Eversley Centre
Eversley Common
Blackbushe Airport
Hartford Bridge Flats
Yateley Common
Yateley Heath Wood
Crowthorne Wood
Crowthorne
Finchampstead
Barkham
Wokingham
Bracknell
Binfield
Popeswood
Cabbage Hill
West
Stokes
Works
Keep Hatch
Dowlesgreen
Matthewsgreen
Emmbrook
Ashridge Manor
Rushton's Fm
Bill Hill Park
Kingscote
Marchfield Ho
Chapel Green
Holme Green
Ludgrove (School)
Eastheath
Folly Court
Limmerhill
Randall's Fm
Brook Fm
Evendons Ho
Moat
Woodcray Manor Fm
The Throat
Heathlands
Queen's Mere
Nine Mile Ride
Ravenswood Village
Crowthorne Wood
The Devil's Highway
ROMAN ROAD
Danger Area
Redoubts
Poppy Hills Danger Area
Broadmoor Fm
Broadmoor Hospital
Broadmoor Bottom
Wishmoor Bottom
Owlsmoor
Ranges
College Town
Royal Military Academy
Sandhurst
Little Sandhurst
Edgbarrow Woods Nature Reserve
Darby Green
Yateley
Blackwater
Frogmore
Cricket Hill
Hill Fm
Starve Acre
Hawley
Hawley Park
Hawley Lake
Hawley Common
Farnborough Green



SITE LOCATION MAP

SU 82199 63443

Scale 1 : 500



STREET MAP DIRECTIONS

Direction Details	Exit M4 junction 10, follow A329(M) for Wokingham, then A329 and A321 for Crowthorne. Turn right at B3348 into Dukes Ride. The proposed site can be found at junction with Wellesley Drive.

BTcellnet

SITE LOCATION MAPS

PROJECT
WELLINGTON SF – CELL 11428D SF AT DUKES RIDE
Jcn. Dukes Ride / Wellesley Drive, Crowthorne, Berkshire RG45 6AL

Eastern Contracting Ltd
Easlea Road
Moreton Hall Ind. Estate
Bury St. Edmunds
Suffolk. IP32 7BY.

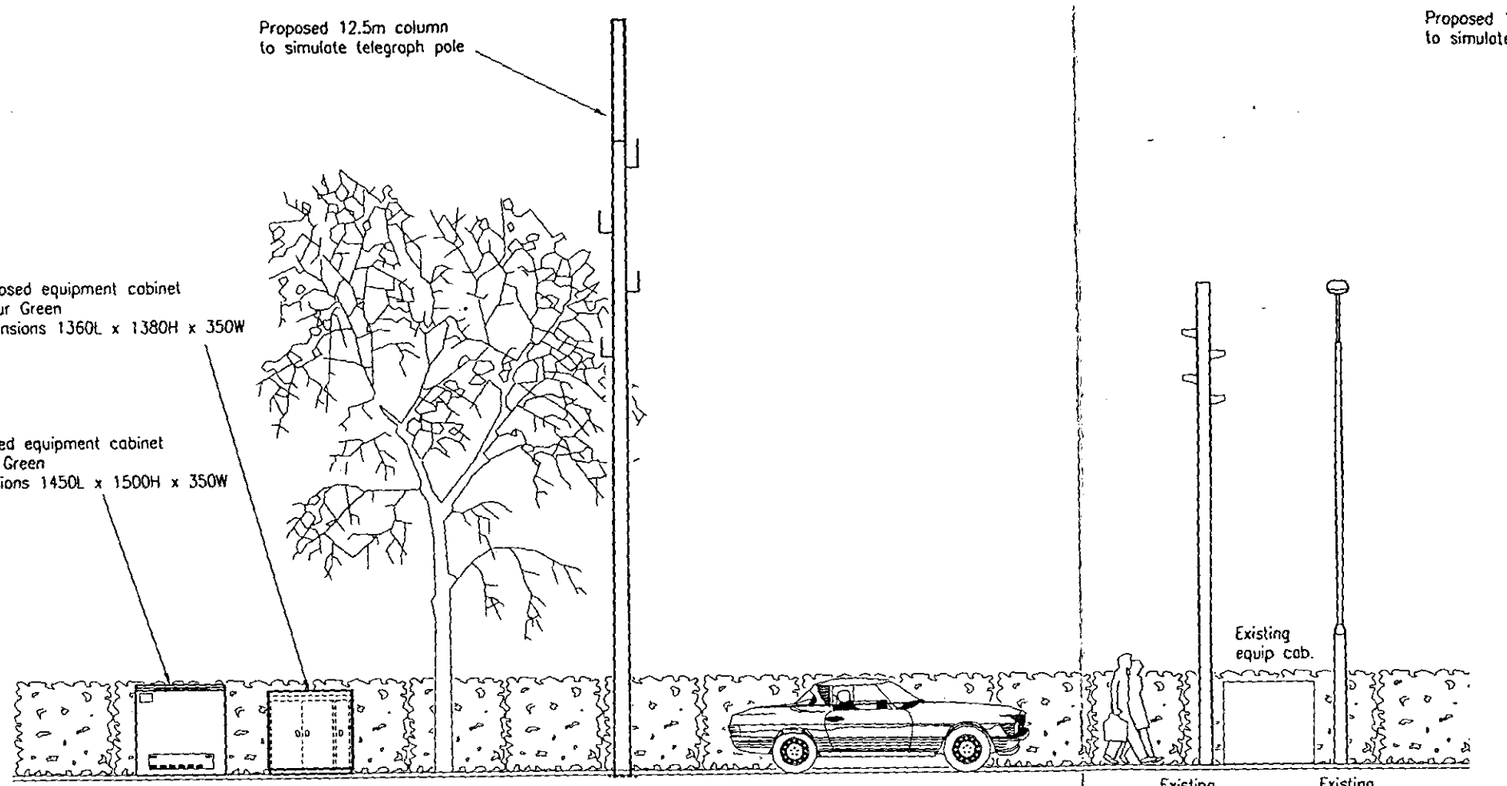
REV.	DATE	BY	REVISION	CHKD	APPR

DO NOT SCALE

DRAWN DJP	CHECKED BJK	SCALE AS NOTED	
DATE NOV 01	DATE 11/01		
ENG. B.K.	FILE NAME	REV.	
DRAWING No. P/11428D/GEN/050			

STATUS PLANNING DATE 11/01 APPR WD

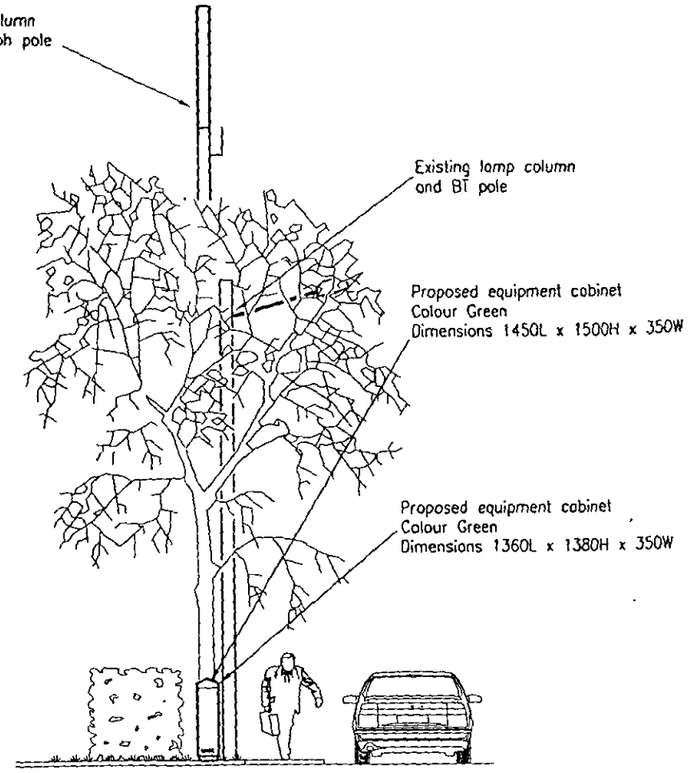
© Eastern Contracting Ltd



PROPOSED STREET FURNITURE

ELEVATION "A"

Scale 1 : 100



PROPOSED STREET FURNITURE

ELEVATION "B"

Scale 1 : 100

0 10 20 30 40 50 60 70 80 90 100

BTcellnet

TITLE: PROPOSED STREET FURNITURE

PROJECT: WELLINGTON SF – CELL 11428D SF AT DUKES RIDE
Jcn. Dukes Ride / Wellesley Drive, Crowthorne, Berkshire RG45 6AL

Eastern Contracting Ltd
Easlea Road
Moreton Hall Ind. Estate
Bury St. Edmunds
Suffolk. IP32 7BY.

STATUS: PLANNING

DATE	APPR
11/4	

REV.	DATE	BY	REVISION	CHKD	APPR

DO NOT SCALE

DRAWN DJP	CHECKED BSC	SCALE AS NOTED	
DATE NOV 01	DATE 11/01		
ENG. B.K.	FILE NAME		REV.
DRAWING No. P/11428D/GEN/051			

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