



15th March 2023

**Planning Advisory Committee
Monday 20th March 2023**

ADDENDUM

11. **CTIL 12973721 BRICK HILL FARM, BA12 7RY**
Proposed upgrade to existing radio base station installation at CTIL
12973721 Brick Hill Farm, Bath Road, Warminster, Wiltshire, BA12 7RY,
NGR e: 386260 n: 146260
(See attached)

Members to resolve what comments to submit.

Our ref: CTIL 12973721

15/03/2023

Parish Clerk
Civic Centre
Sambourne Road
Warminster
BA12 8LB

Clarke Telecom Ltd
Unit E
Madison Place
Northampton Road
Manchester
M40 5AG

Dear Sir/Madam,

PROPOSED UPGRADE TO EXISTING RADIO BASE STATION INSTALLATION AT CTIL 12973721 BRICK HILL FARM, BATH ROAD, WARMINSTER, WILTSHIRE, BA12 7RY, NGR E: 386260 N: 146260

Cornerstone is the UK's leading mobile infrastructure services company. We acquire, manage, and own over 20,000 sites and are committed to enabling best in class mobile connectivity for over half of all the country's mobile customers. We oversee works on behalf of telecommunications providers and wherever possible aim to:

- promote shared infrastructure
- maximise opportunities to consolidate the number of base stations
- significantly reduce the environmental impact of network development

Cornerstone is in the process of identifying a suitable site in the Warminster area for a radio base station to maintain and improve existing levels of service provision. The purpose of this letter is to consult with you and seek your views on our proposal before proceeding with the works. We understand that you are not always able to provide site specific comments, however, Cornerstone is committed to consultation with communities on our mobile telecommunications proposals and as such would encourage you to respond.

As part of Cornerstone's continued network improvement program, there is a specific requirement for an upgrade to the existing installation at this location to provide enhanced coverage and capacity, and new 5G coverage ensuring that this area of Warminster has access to the latest technologies. This upgraded site will also ensure that we will be able to continue to utilise the same site and maintain, enhance and provide new 5G service provision in the area as well.

Mobiles can only work with a network of base stations in place where people want to use their mobile phones or other wireless devices. Without base stations, the mobile phones, and other devices we rely on simply won't work.

Please find below the details of the proposed site: -

Our technical network requirement is as follows:

In the first instance, all correspondence should be directed to the agent.

Cornerstone Planning Consultation Letter to Councillors - Standard V.3 – 15/04/2021

Registered Address:
Cornerstone Telecommunications, Infrastructure Limited,
Hive 2, 1530 Arlington Business Park, Theale, Berkshire, RG7 4SA.
Registered in England & Wales No. 08087551.
VAT No. GB142 8555 06

 Cornerstone, Hive 2,
1530 Arlington Business Park,
Theale, Berkshire, RG7 4SA

CTIL 12973721 BRICK HILL FARM

The site is needed to provide enhanced 2G, 3G, 4G coverage and capacity as well as new 5G service provision to ensure that customers experience access to the latest technologies currently available. The installation will also meet the extra demands on the network in this area as new technologies improve increasing the demand for 4G and 5G technologies.

The Government recognises that widespread coverage of mobile connectivity is essential for people and businesses. People expect to be connected where they live, work, visit and travel. That is why the Government is committed to extending mobile geographical coverage further across the UK, with continuous mobile connectivity provided to all major roads and to being a world leader in 5G. This will allow everyone in the country to benefit from the economic advantages of widespread mobile coverage. As well as improved mobile signal, 5G networks are also crucial to drive productivity and growth across the sectors that local areas are focusing on through their emerging Local Industrial Strategies. Enabling and planning for 5G implementation is central to achieving the Government's objective to deliver prosperity at the local level and enable all places to share in the proceeds of growth.

The Government is determined to ensure the UK receives the coverage and connectivity it needs. To this end, the Government wants to be a world leader in 5G, the next generation of wireless connectivity, and for communities to benefit from the investments in the new technology.

The case for 5G is compelling as it will bring faster, more responsive and reliable connections than ever before. More than any previous generation of mobile networks, it has the potential to improve the way people live, work and travel, and to deliver significant benefits to the economy and industry through the ability to connect more devices to the Internet at the same time, creating the so-called "Internet of Things". This will enable communities to manage traffic flow and control energy usage, monitor patient health remotely, and increase productivity for business and farmers, all through the real-time management of data.

The demand for mobile data in the UK is increasing rapidly, and as households and businesses become increasingly reliant on mobile connectivity, the infrastructure must be in place to ensure supply does not become a constraint on future demand.

The preferred Cornerstone option is as follows:

BRICK HILL FARM, BATH ROAD, WARMINSTER, WILTSHIRE, BA12 7RY, NGR E: 386260 N: 146260

The proposed works comprise the Installing 1 No. VF antenna per sector to be mounted on Headframe using new offset brackets (3 No. antennas in total) to replace existing 3 No. antennas, Installing 1 No. VF antenna per sector to be mounted on, Headframe using new offset brackets (3 No. antennas in total) to replace existing 3 No. antennas, Installing 3 No. VF RRUs per sector (9 No. RRUs in total) stacked, Existing 2 No. VF RRUs per sector (6 No. RRUs in total) to be removed, Existing cabin to be refreshed internally , Development ancillary reworks thereto as per drawings.

The operators are proposing to upgrade their existing installation to ensure the latest high quality, reliable, secure communications technology is able to be provided from this location. The amendments to the existing scheme

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1530 Arlington Business Park,
Theale, Berkshire, RG7 4SA

are essential in order that customers' handheld devices continue to operate for the purposes in which they have become accustomed, accessible wherever they are whether that be indoors or outside.

As this is an existing ground based installation, this is sequentially the most preferable site for the operators to upgrade their existing service provision to this cell area. As such, no other options have been considered.

The Local Planning Authority mast register, and our records of other potential sites have already been reviewed, the policies in the Development Plan have been taken into account and the planning history of the site has been examined.

All Cornerstone installations are designed to be fully compliant with the public exposure guidelines established by the International Commission on Non-Ionizing Radiation Protection (ICNIRP). These guidelines have the support of UK Government, the European Union and they also have the formal backing of the World Health Organisation. A certificate of ICNIRP compliance will be included within the Regulation 5 notification.

In order to give you time to send your comments or request further information, we commit to allow at least 14 days before proceeding with the works. This 14-day period starts from the date at the top of this letter.

We would also be grateful if you could please advise of any local stakeholders or groups that might like to make comments. For your information pre-consultation letters and a set of plans have been sent to the local Warminster North & Rural (Cllr B. Parks) local MP and Planning officers.

We look forward to receiving any comments you may have on the proposal within 14 days of the date of this letter.

Should you have any queries regarding this matter, please do not hesitate to contact me (quoting cell number [CTIL 12973721])

Yours faithfully

S Dhillon

Sunny Dhillon BA Hons MSC | Senior Acquisition Surveyor
Clarke Telecom
T: 07538544372
M: 07392319386
E: Sunny.Dhillon@clarke-telecom.com

(for and on behalf of Cornerstone)

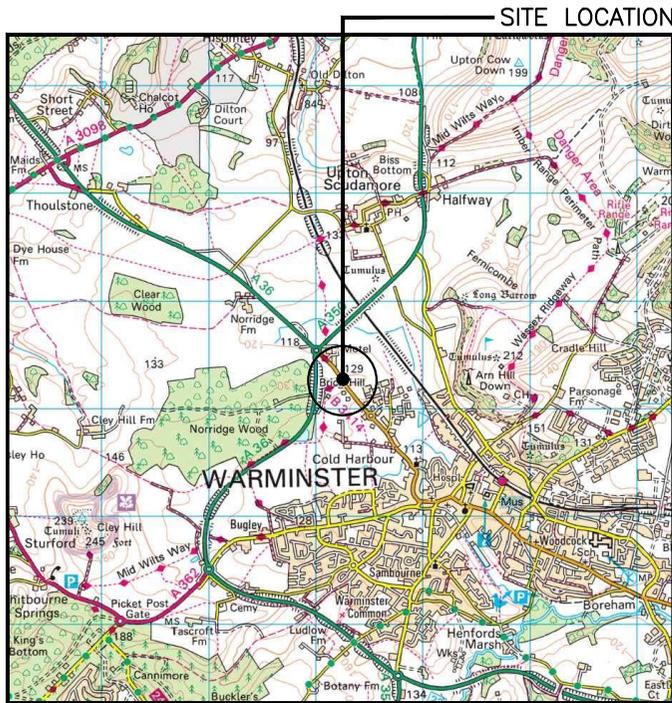
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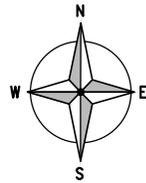
0 500 1000 1500 2000 2500m
1:50000

SITE LOCATION
(Scale 1:50000)

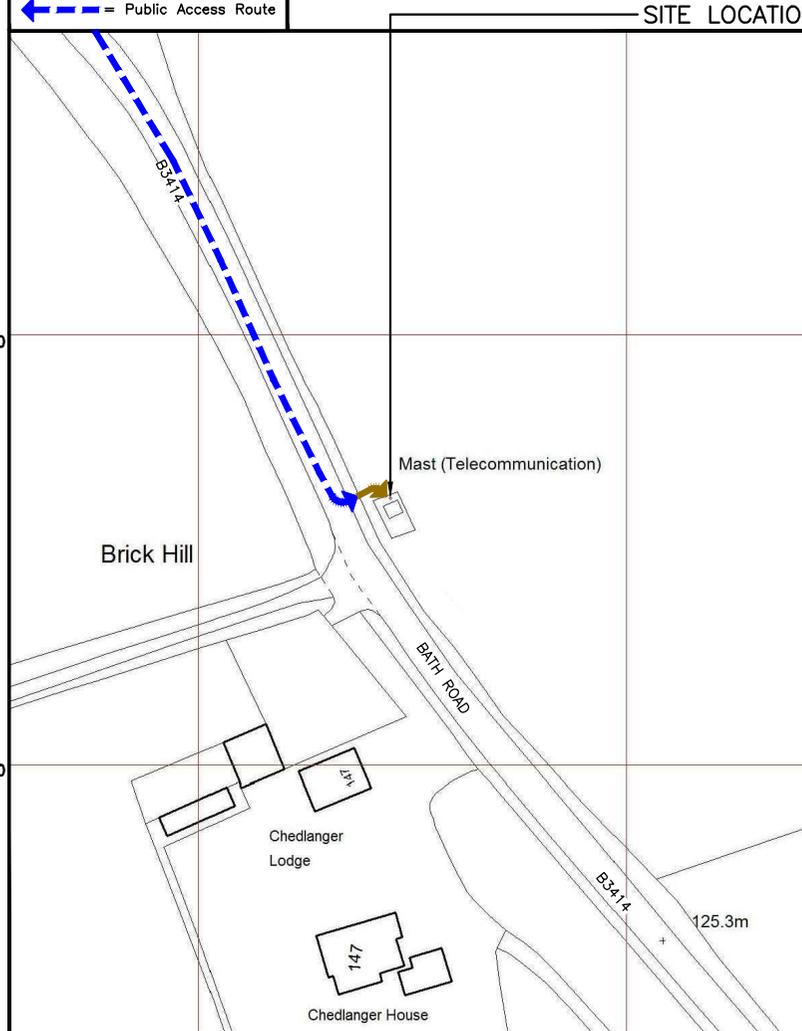
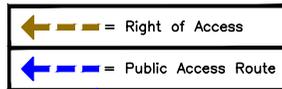
Ordnance Survey map extract based upon Landranger map series with the permission of the controller of Her Majesty's Stationery Office Licence No. 0100035093 Crown copyright.



SITE PHOTOGRAPH



SITE LOCATION



DETAILED SITE LOCATION
(Scale 1:1250)

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0 12.5 25 37.5 50 62.5m
1:1250

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R E: 386260 N: 146260

DIRECTIONS:
HEAD EAST ON M4. AFTER 2.5 MILES, AT JUNCTION 18, TAKE THE A46 EXIT TO BATH/STROUD. AFTER 0.7 MILE, AT TORMARTON INTERCHANGE, TAKE THE 3RD EXIT ONTO A46. AFTER 7.8 MILES, USE THE LEFT LANE TO TAKE THE A4 RAMP TO BATH/WARMINSTER/A36. AFTER 0.2 MILE, CONTINUE ON LONDON RD W. TAKE MILL LN TO WARMINSTER RD/A36. AFTER 1.4 MILES, AT LONDON RD JCT, TAKE THE 1ST EXIT ONTO LONDON RD W. AFTER 0.4 MILE, SLIGHT RIGHT ONTO TOLL BRIDGE RD. AFTER 453 FT, CONTINUE ONTO MILL LN. AFTER 0.5 MILE, CONTINUE ONTO HIGH ST. AFTER 0.2 MILE, TURN LEFT ONTO DOWN LN. AFTER 0.2 MILE, FOLLOW A36 TO BATH RD/B3414 IN WARMINSTER. AFTER 14.9 MILES, TURN LEFT ONTO WARMINSTER RD/A36. AFTER 9.6 MILES, AT THE ROUNDABOUT, TAKE THE 2ND EXIT AND STAY ON A36. AFTER 0.7 MILE, AT THE ROUNDABOUT, TAKE THE 2ND EXIT AND STAY ON A36. AFTER 4.7 MILES, AT THE ROUNDABOUT, TAKE THE 2ND EXIT ONTO BATH RD/B3414, DESTINATION WILL BE ON THE LEFT.

NOTES:

A	Issued for Approval	RM	PCH	02.03.23
REV	MODIFICATION	BY	CH	DATE

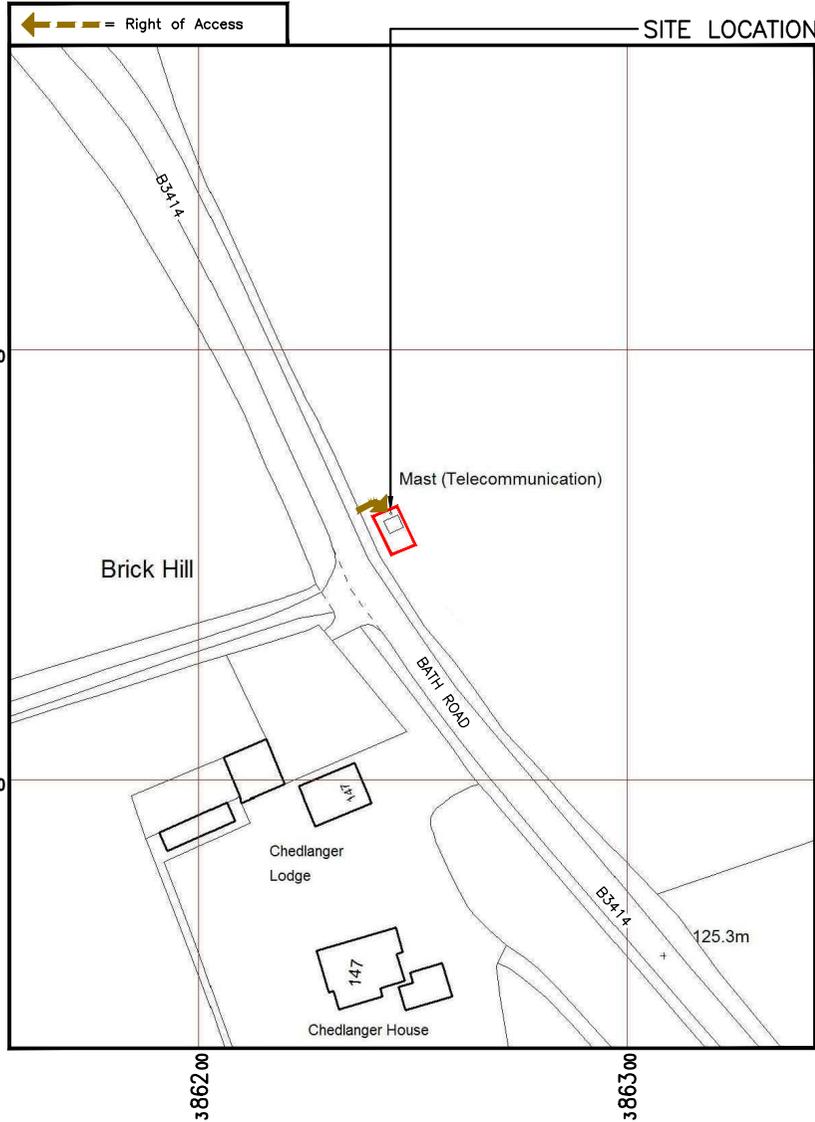
Unit E, Madison Place, Northampton Road,
Manchester, M10 5AG
Tel: 0161 785 4500
Fax: 0161 785 4501
Web: www.clarke-telecom.com

Cell Name		Opt.
BRICK HILL FARM		C
Cell ID No		
CORNERSTONE	VMO2	VF
12973721	NA	43035_17

Site Address / Contact Details
BRICK HILL FARM
BATH ROAD
WARMINSTER
WILTSHIRE
BA12 7RY

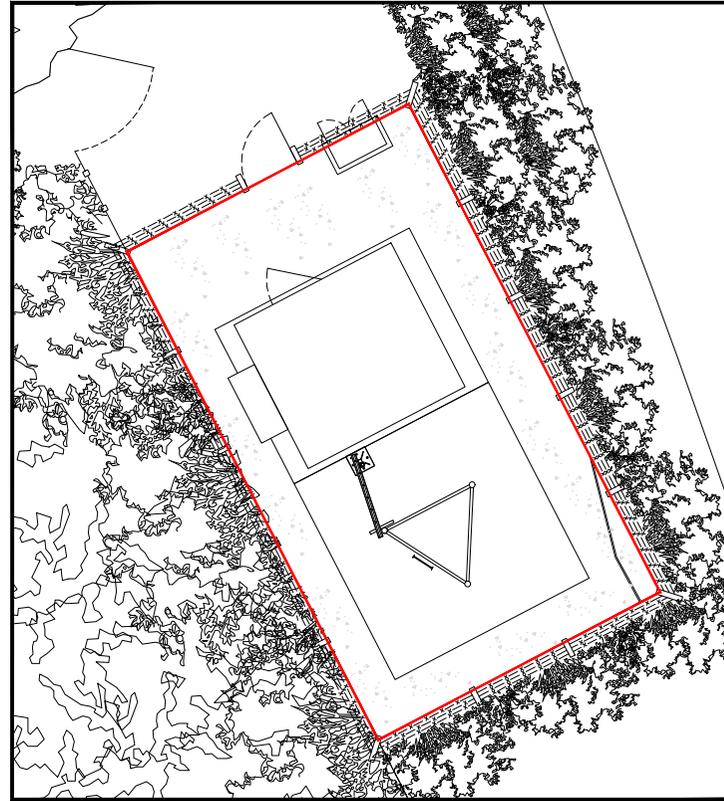
Drawing Title:		SITE LOCATION MAPS	
Purpose of issue:		PLANNING	Dwg Rev:
Drawing Number:		100	A
Surveyed By:	PH	Original Sheet Size:	A3
Drawn:	RM	Date:	02.03.23
Checked:	PCH	Date:	02.03.23
Pack Issue:			A

These drawings comply with VMO2 and VF Standard ICNIRP Guidelines under Configuration VM7F
Designed in accordance with Cornerstone Document : SDN009 "ICNIRP Compliance Summary (v6)"



DETAILED SITE LOCATION
(Scale 1:1250)

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DEMISE PLAN
(1:100)



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R E: 386260 N: 146260

DIRECTIONS:
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NOTES:

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Unit E, Madison Place, Northampton Road,
Manchester, M40 5AG
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Fax: 0161 785 4501
Web: www.clarke-telecom.com

Cell Name		Opt.
BRICK HILL FARM		C
Cell ID No		
CORNERSTONE	VMO2	VF
12973721	NA	43035_17

Site Address / Contact Details

BRICK HILL FARM
BATH ROAD
WARMINSTER
WILTSHIRE
BA12 7RY

Drawing Title:		
LEASE DRAWING		
Purpose of issue:	PLANNING	Dwg Rev:
Drawing Number:	101	A
Surveyed By:	PH	Original Sheet Size: A3
Drawn:	Date: 02.03.23	Checked: PCH Date: 02.03.23
RM	02.03.23	PCH 02.03.23 A

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EXISTING SITE PLAN
(1:100)

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N.G.R E: 386260 N: 146260

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REV	MODIFICATION	BY	CH	DATE

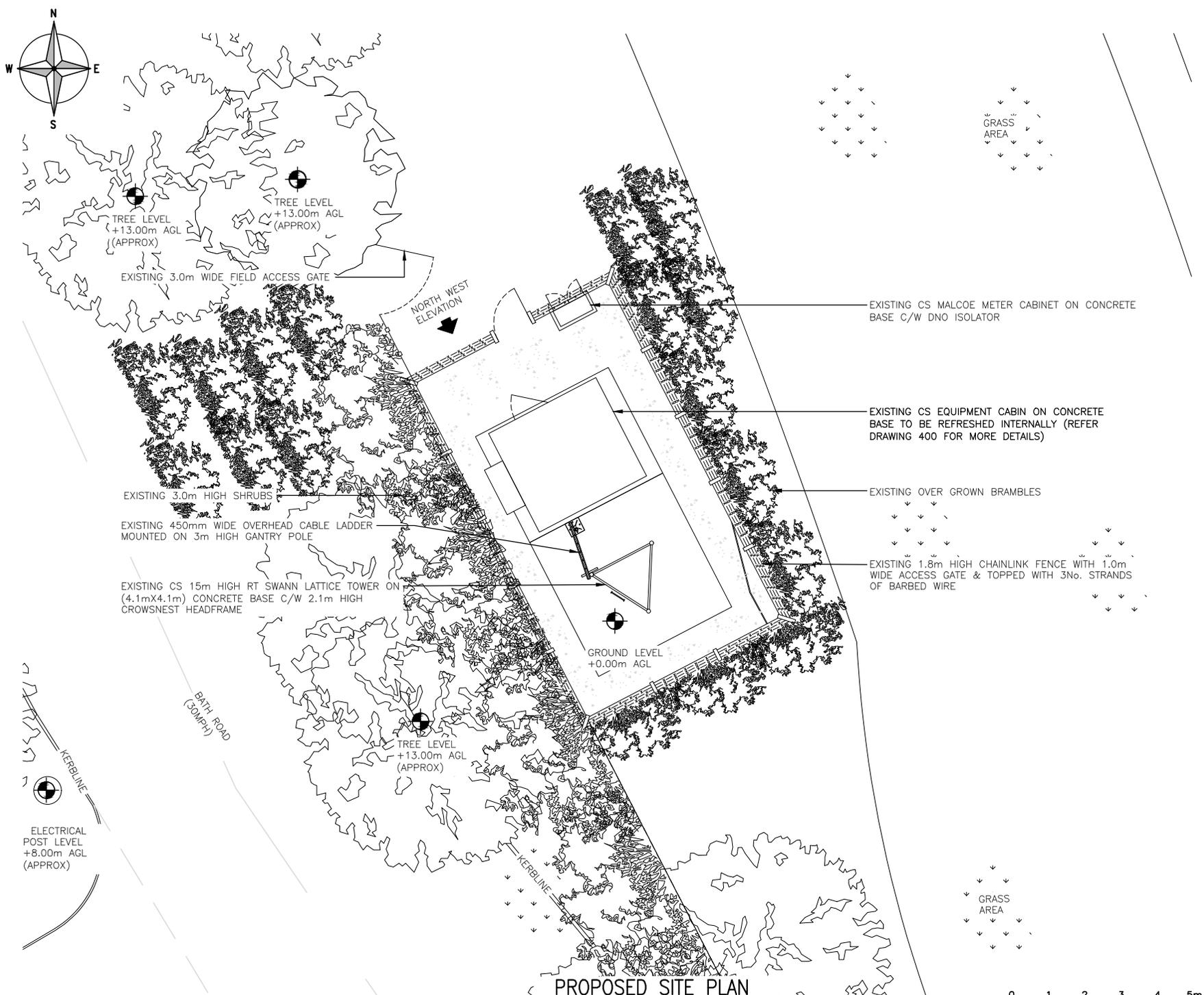
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BRICK HILL FARM
BATH ROAD
WARMINSTER
WILTSHIRE
BA12 7RY

Drawing Title:		
EXISTING SITE PLAN		
Purpose of issue:		Dwg Rev:
PLANNING		
Drawing Number:		A
200		
Surveyed By:	Original Sheet Size:	Pack Issue:
PH	A3	A
Drawn:	Date:	Checked:
RM	02.03.23	PCH
Date:	02.03.23	Date:



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N.G.R E: 386260 N: 146260

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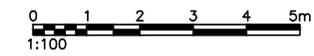
cornerstone

Cell Name		Opt.
BRICK HILL FARM		C
Cell ID No		
CORNERSTONE	VMO2	VF
12973721	NA	43035_17

Site Address / Contact Details
 BRICK HILL FARM
 BATH ROAD
 WARMINSTER
 WILTSHIRE
 BA12 7RY

Drawing Title:		PROPOSED SITE PLAN	
Purpose of issue:		PLANNING	Dwg Rev:
Drawing Number:		201	A
Surveyed By:	PH	Original Sheet Size:	A3
Drawn:	RM	Checked:	PCH
Date:	02.03.23	Date:	02.03.23
Pack Issue:		A	

These drawings comply with VMO2 and VF Standard ICNIRP Guidelines under Configuration VM7F (1:100)
 Designed in accordance with Cornerstone Document : SDN0009 "ICNIRP Compliance Summary (v6)"



EXISTING VF 1No. FTTA BOX
INSTALLED ON REAR OF HEADFRAME

EXISTING VF 2No. ANTENNAS PER
SECTOR (6No. ANTENNAS IN TOTAL)

EXISTING VF 2No. RRU'S PER SECTOR
(6No. RRU'S IN TOTAL)

EXISTING CS 15m HIGH RT SWANN LATTICE TOWER ON
(4.1mX4.1m) CONCRETE BASE C/W 2.1m HIGH
CROWSNEST HEADFRAME

EXISTING 450mm WIDE OVERHEAD CABLE LADDER
MOUNTED ON 3m HIGH GANTRY POLE (BEHIND)

EXISTING OVER GROWN BRAMBLES

EXISTING CS MALCOE METER CABINET ON CONCRETE
BASE C/W DNO ISOLATOR

TOP OF EXISTING VF ANTENNAS +17.70m AGL

C/L OF EXISTING VF ANTENNAS +16.70m AGL

U/S OF EXISTING VF ANTENNAS +15.70m AGL

C/L OF EXISTING VF RRU'S+14.50m AGL

TREES LEVEL
+13.00m AGL
(APPROX)

TREES LEVEL
+13.00m AGL
(APPROX)

EXISTING CS EQUIPMENT CABIN ON CONCRETE
BASE (REFER DRAWING 400 FOR MORE DETAILS)

EXISTING 1.8m HIGH CHAINLINK FENCE WITH
1.0m WIDE ACCESS GATE & TOPPED WITH
3No. STRANDS OF BARBED WIRE

EXISTING 3.0m HIGH SHRUBS

EXISTING NORTH WEST ELEVATION

(1:100)



ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R E: 386260 N: 146260

NOTES:

REV	ISSUED FOR APPROVAL	BY	CH	DATE
A	Issued for Approval	RM	PCH	02.03.23

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BRICK HILL FARM	C

Cell ID No

CORNERSTONE	VMO2	VF
12973721	NA	43035_17

Site Address / Contact Details

BRICK HILL FARM
BATH ROAD
WARMINSTER
WILTSHIRE
BA12 7RY

Drawing Title:
EXISTING SITE ELEVATION

Purpose of issue:	PLANNING	Dwg Rev:
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Drawing Number:	300	A
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Surveyed By:	PH	Original Sheet Size:	A3	Pack Issue:
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Drawn:	Date:	Checked:	Date:
RM	02.03.23	PCH	02.03.23

PROPOSED VF 1No. ANTENNA PER SECTOR TO BE MOUNTED ON HEADFRAME USING NEW OFFSET BRACKETS (3No. ANTENNAS IN TOTAL) TO REPLACE EXISTING 3No. ANTENNAS

PROPOSED VF 1No. ANTENNA PER SECTOR TO BE MOUNTED ON HEADFRAME USING NEW OFFSET BRACKETS (3No. ANTENNAS IN TOTAL) TO REPLACE EXISTING 3No. ANTENNAS

PROPOSED VF 3No. RRU'S PER SECTOR (9No. RRU'S IN TOTAL) STACKED

EXISTING VF 2No. RRU'S PER SECTOR (6No. RRU'S IN TOTAL) TO BE REMOVED

EXISTING CS 15m HIGH RT SWANN LATTICE TOWER ON (4.1mX4.1m) CONCRETE BASE C/W 2.1m HIGH CROWSNEST HEADFRAME

EXISTING 450mm WIDE OVERHEAD CABLE LADDER MOUNTED ON 3m HIGH GANTRY POLE (BEHIND)

EXISTING OVER GROWN BRAMBLES

EXISTING CS MALCOE METER CABINET ON CONCRETE BASE C/W DNO ISOLATOR

TOP OF PROPOSED VF ANTENNAS +17.70m AGL

C/L OF VF RRU'S +16.70m AGL

C/L OF PROPOSED VF ANTENNAS +16.65m AGL

U/S OF PROPOSED VF ANTENNAS +15.60m AGL

C/L OF VF PROPOSED DISH +14.50m AGL

PROPOSED VF 1No. 300Ø DISH TO BE MOUNTED ON SUPPORT POLE FIXED TO TOWER USING MAFI BRACKETS

TREES LEVEL +13.00m AGL (APPROX)

EXISTING CS EQUIPMENT CABIN ON CONCRETE BASE TO BE REFRESHED INTERNALLY (REFER DRAWING 400 FOR MORE DETAILS)

EXISTING 1.8m HIGH CHAINLINK FENCE WITH 1.0m WIDE ACCESS GATE & TOPPED WITH 3No. STRANDS OF BARBED WIRE

EXISTING 3.0m HIGH SHRUBS

G.L.



PROPOSED NORTH WEST ELEVATION

(1:100)

These drawings comply with VMO2 and VF Standard ICNIRP Guidelines under Configuration VM7F
Designed in accordance with Cornerstone Document : SDN0009 "ICNIRP Compliance Summary (v6)"

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

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Cell ID No

CORNERSTONE	VMO2	VF
12973721	NA	43035_17

Site Address / Contact Details

BRICK HILL FARM
BATH ROAD
WARMINSTER
WILTSHIRE
BA12 7RY

Drawing Title:
PROPOSED SITE ELEVATION

Purpose of issue: PLANNING Dwg Rev:

Drawing Number: 301 A

Surveyed By: PH Original Sheet Size: A3 Pack Issue:

Drawn: RM Date: 02.03.23 Checked: PCH Date: 02.03.23 A

Cornerstone Community Information Sheet

5G Services

As 5G technology is deployed across the country more and more services will become available and our lifestyles, economy and even the way we commute will be transformed. Additional base stations and upgrades to existing ones will be needed to meet this demand and improve the quality of service.

Practical uses of 5G

Two areas where these benefits are becoming evident are education and health,

The relationship between 5G and education is evolving at a massive rate with educators exploring the relevance of Virtual Reality (VR) technologies for education and training. Crucially, VR can support remote learning, allowing students a presence in the classroom even when working elsewhere.

5G's ability to deliver real-time information (low latency), ultra-fast speeds (critical for high-definition images and video), increased capacity and heightened security will also allow learning on the job, thanks to technologies such as Augmented Reality (AR) goggles, which can give engineers real-time instructions on how to fix a machine on a production line, for example.

Health care is undergoing a rapid transformation, patients across the country are now becoming accustomed to relying on remote healthcare services such as virtual GP appointments, and ordering online deliveries of essential medical supplies.

5G will prove critical in providing the infrastructure required to deliver remote health services over the next decade. 5G's fast and secure services will be fundamental in scaling the patient benefits of remote healthcare and keeping medical records protected and private. Trials have shown that connecting ambulance crews to expert resources using 5G allows paramedics to work with doctors and conduct specialist procedures in real time whilst on the road.

Health concerns

Various international assessments have concluded that below the International Commission on Non-Ionizing Radiation (ICNIRP) Guidelines there is no evidence of adverse health effects for wireless networks (including 5G).

In January 2019 the Finnish Radiation and Nuclear Safety Authority (STUK) concluded that:

In the light of current information, exposure to radio frequency radiation from base stations will not rise to a significant level with the introduction of the 5G network. From the point of view of exposure to radio frequency radiation, the new base stations do not differ significantly from the base stations of existing mobile communication technologies (2G, 3G, 4G).'
<https://www.stuk.fi/aiheet/matkapuhelimet-ja-tukiasemat/matkapuhelinverkko/5g-verkon-sateilyturvallisuus>

In the UK Ofcom, the regulator for the communications services, undertook measurements of electromagnetic fields (EMFs) around 5G base stations. In 2020 they noted: "In all cases, the measured EMF levels from 5G-enabled mobile phone base stations are at small fractions of the levels identified in the ICNIRP Guidelines" https://www.ofcom.org.uk/data/assets/pdf_file/0015/190005/emf-test-summary.pdf

In Norway the Norwegian Radiation and Nuclear Safety Authority (DSA), noted:

'The overall research shows that the radiation from wireless technology is not hazardous to health, as long as the levels are below the recommended limit values. This is the prevailing view among researchers in many countries today, and it is supported by the EU Scientific Committee. We have used cell phones and radio transmitters for decades and much research has been done on how this affects our health. Risk factors of importance to public health have not been found. With the knowledge we have today, there is no need to worry that 5G is hazardous to health.' January 2019
<https://www.dsa.no/temaartikler/94565/5g-teknologi-og-straaling>

In the light of concerns about 5G signals from some members of the public the UK Health Security Agency (UKHSA) commented in 2019:

"It is possible that there may be a small increase in overall exposure to radio waves when 5G is added to an existing network or in a new area. However, the overall exposure is expected to remain low relative to guidelines and, as such, there should be no consequences for public health"
<https://www.gov.uk/government/publications/5g-technologies-radio-waves-and-health/5g-technologies-radio-waves-and-health>.

In 2020 the ICNIRP updated their safety guidelines to include further restrictions for frequencies used for 5G services. ICNIRP Chairman, Dr Eric van Rongen stated 'the new guidelines provide better and more detailed exposure guidance in particular for the higher frequency range, above 6 GHz, which is of importance to 5G and future technologies using these higher frequencies. The most important thing for people to remember is that 5G technologies will not be able to cause harm when these new guidelines are adhered to.' https://www.icnirp.org/cms/upload/presentations/ICNIRP_Media_Release_110320.pdf.

In 2020 the World Health Organisation commented on 5G stating: "Provided that the overall exposure remains below international guidelines, no consequences for public health are anticipated"
<https://www.who.int/news-room/q-a-detail/5g-mobile-networks-and-health>.

In common with all mobile phone base stations, Cornerstone sites with 5G technology will be checked and certified for ICNIRP compliance.

For further information please contact

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Cornerstone Community Information Sheet

Safety Guidelines on electromagnetic fields from antennas

Radio frequency fields are a type of electromagnetic field. Virtually everyone in the modern world is exposed to electromagnetic fields generated by man-made sources. These include TV and radio transmissions, communications by the emergency services, medical and factory equipment, electronic car keys, baby-listening devices, WiFi and any household appliance that uses electricity.

Various regulations and guidelines apply to the construction and operation of radio base stations, including those that serve to protect health and safety.

All installations are designed to comply with the precautionary International Commission on Non-Ionizing Radiation Protection (ICNIRP) public exposure guidelines as adopted in a European Union recommendation. The UK Government and the UK Health Security Agency support this view.

Mobile phone base stations are generally composed of a cabin or cabinet, which houses the electrical equipment that generates the radio signal, a supporting structure such as a tower or pole and a set of antennas. Only the antennas emit radio waves. As one moves away from the antenna, the strength of the radio wave falls off very rapidly and as the strength decreases, so does the radiofrequency exposure level. Closer to the antennas, there is an area, or volume, where it is possible that ICNIRP guidelines for the public may be exceeded. This is known as the ICNIRP Public Zone and measures are taken, in the form of antenna positioning, signage and physical barriers, to prevent inadvertent access to this area by the public.

The extent of the zone will vary from site to site and is dependent on power input, distribution of the radiofrequency fields and the frequency range.

Clear signage at mobile phone operator sites will indicate restrictions on access and these restrictions should always be observed. The signage provides the relevant contact details for further advice.

How the guidelines are established

Many countries have adopted international guidelines suggested by ICNIRP. These guidelines, which have the formal backing of the World Health Organisation, were developed following a thorough review of the science and took into consideration **both thermal and non-thermal effects**. They are designed to protect all sectors of the population, 24 hours a day, wherever they are in relation to a radio base station. The guidelines are made up of two parts: the first is based on established and proven science; the second part incorporates a safety factor. In this way, the guidelines come with a built-in precautionary element.

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In 2020 the ICNIRP updated their safety guidelines, Dr Eric van Rongen stated 'When we revised the guidelines, we looked at the adequacy of the ones we published in 1998. We found that the previous ones were conservative in most cases, and they'd still provide adequate protection for current technologies...However, the new guidelines provide better and more detailed exposure guidance in particular for the higher frequency range, above 6 GHz, which is of importance to 5G and future technologies using these higher frequencies'.

https://www.icnirp.org/cms/upload/presentations/ICNIRP_Media_Release_110320.pdf

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Health Summary

Radio base stations and handsets use electromagnetic fields (EMFs) to transfer information and make communication possible with mobile phones and devices. EMFs are used for television and radio transmissions, by the police, fire and ambulance services, by taxi firms and public utilities. EMFs are also used for a wide range of personal and commercial equipment from electronic car keys, WiFi equipment and baby monitoring devices to shop security tag systems. They are also produced by household electrical appliances like the fridges, vacuum cleaners or electric shavers.

The UK Health Security Agency (UKHSA) have noted that "Exposure to radio waves is not new and health-related research has been conducted on this topic over several decades. In particular, a large amount of new scientific evidence has emerged since the year 2000 through dedicated national and international research programmes" <https://www.gov.uk/government/publications/5g-technologies-radio-waves-and-health/5g-technologies-radio-waves-and-health>. After a thorough review of the available scientific findings, the World Health Organisation reported: "To date, the only health effect from RF fields identified in scientific reviews has been related to an increase in body temperature (> 1 °C) from exposure at very high field intensity found only in certain industrial facilities, such as RF heaters. The levels of RF exposure from base stations and wireless networks are so low that the temperature increases are insignificant and do not affect human health" World Health Organisation, Fact Sheet 304, Base stations and wireless technologies, 2006. In addition, the WHO notes that "Based on a recent in-depth review of the scientific literature, the WHO concluded that current evidence does not confirm the existence of any health consequences from exposure to low level electromagnetic fields". <http://www.who.int/pehemf/about/WhatIsEMF/en/index1.html>. In 2020 the World Health Organisation published information on 5G commenting that: "Provided that the overall exposure remains below international guidelines, no consequences for public health are anticipated" <https://www.who.int/news-room/q-a-detail/5g-mobile-networks-and-health>.

The Advisory Group on Non-ionising Radiation (AGNIR) summarised that "although a substantial amount of research has been conducted in this area, there is no convincing evidence that RF field exposure below guideline levels causes health effects in adults or children." "Health Effects from Radiofrequency Electromagnetic Fields – RCE 20", 2012

In 2019 the UK Health Security Agency noted: "It is possible that there may be a small increase in overall exposure to radio waves when 5G is added to an existing network or in a new area. However, the overall exposure is expected to remain low relative to guidelines and, as such, there should be no consequences for public health" <https://www.gov.uk/government/publications/5g-technologies-radio-waves-andhealth/5g-technologies-radio-waves-and-health>.

Radio base stations are designed to comply with the stringent, precautionary public exposure guidelines set out by ICNIRP (International Commission on Non-Ionizing Radiation Protection). These guidelines have been developed following a thorough review of the science including both thermal and non-thermal effects. UK radio base station installations have been surveyed by independent bodies and found to be hundreds and sometimes thousands of times below these guidelines.

In 2020 ICNIRP updated their safety guidelines noting that: 'we looked at the adequacy of the ones we published in 1998. We found that the previous ones were conservative in most cases, and they'd still provide adequate protection for current technologies'

https://www.icnirp.org/cms/upload/presentations/ICNIRP_Media_Release_110320.pdf

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Classification: Unrestricted

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