

# PARISH COUNCIL OF SUNDRIDGE WITH IDE HILL

**AMANDA BARLOW**  
Clerk to the Council

Telephone:07495 962372  
email: clerk@sundridgewithidehill-pc.gov.uk

**To: The Members of the Ide Hill Amenities Committee of Sundridge with Ide Hill Parish Council**

*Cllrs Allgood, De Bono, Evans, Fribbens (Chair), and Miller*

I hereby invite you to attend a Meeting of the Parish Council to be held in the hall at **Ide Hill Village Hall** at **6.00 p.m. on Tuesday 2 April 2024** to transact the undermentioned business.

*Amanda Barlow*

Clerk 26 March 2024

## AGENDA

1. To receive apologies and reasons for absence.
2. To explain the new membership of the Ide Hill Amenities Committee
3. To receive declarations of personal, prejudicial and disclosable pecuniary interests on items on the agenda and updates to members' register of interests.
4. **A Public Open Session.** Members of the public will be welcome to address the Parish Council with any local concerns they have related to Ide Hill amenities. Please note this item will be limited in time at the discretion of the Chairman. Maximum duration 15 minutes.
5. To consider, and approve if appropriate, which agenda items are sufficiently confidential as to warrant exclusion of members of the press and public under the provisions of The Public Bodies (Admission to Meetings) Act 1960
6. To agree the minutes of the meeting held on 15 January 2024 and matters arising not covered under Agenda Items.
7. Stubbs Wood
  - 7.1 Aztech Contract
    - 7.1.1 An update on the current situation at Stubbs Wood
  - 7.2 Application for a new CSA from 2025
    - 7.2.1 To agree to appoint Silva Woodland Management to quote for the work
    - 7.2.2 To appoint a working group to prepare a simplification revision to the Management Plan
  - 7.3 Tree Survey
    - 7.3.1 To agree next actions
  - 7.4 Stubbs Wood Account at 31 March 2024
8. Ide Hill Public Conveniences
9. Clarke Telecom
  - 9.1 To note receipt of the planning pre-application.
10. Playgrounds
  - 10.2 Goathurst Common Playground Project
11. Highways
  - 11.1 Update from Kent Highways
12. Date of next meetings

## PARISH COUNCIL OF SUNDRIDGE WITH IDE HILL

### 1. To receive apologies and reasons for absence.

Cllr Allgood

### 2. To explain the new membership of the Ide Hill Amenities Committee

Following the resignation of Russell Maybury and the period of absence of Cllr Miller, it was necessary to co-opt some other Councillors to the Ide Hill Amenities Committee to ensure the meetings were quorate. Cllr Allgood and De Bono kindly agreed to serve on the Committee.

6. To agree the minutes of the meeting held on 15 January 2024 and matters arising not covered under Agenda Items.

**Ide Hill Amenities Committee**  
**Minutes of a meeting held at Ide Hill Village Hall**  
**on Monday 15 January 2024 at 5.00pm**

**Present:** Cllrs Evans, Fribbens (Chair) and Maybury  
**In attendance:** 7 members of the public, Mrs A Barlow (Clerk)  
**Apologies:** Cllr Miller

1. To receive apologies and reasons for absence.

*Apologies were received and accepted from Cllr Miller.*

2. To receive declarations of personal, prejudicial and disclosable pecuniary interests on items on the agenda and updates to members' register of interests.

*None.*

3. **A Public Open Session.** Members of the public will be welcome to address the Parish Council with any local concerns they have related to Ide Hill amenities. Please note this item will be limited in time at the discretion of the Chairman. The Chairman will advise on public participation at meetings as prescribed in the Standing Orders.

- *Pot holes – the signs have disappeared but the work has not been done. The Clerk will ask the Highways Steward as to why these have not been done. A resident advised that it is due to the fact that people have disobeyed the “no parking signs” so they were unable to do the work.*
- *Defibrillator – The Clerk confirmed that the defibrillators were registered and residents asked if the passcode could be removed.*
- *Resurfacing work – it was noted there might be an increase in traffic and speeding. The Clerk agreed to ask Highways about any options for measuring the speed.*
- *Residents asked about a CCTV camera on the public toilets as a deterrent to people gathering toilets.*

4. To consider, and approve if appropriate, which agenda items are sufficiently confidential as to warrant exclusion of members of the press and public under the provisions of The Public Bodies (Admission to Meetings) Act 1960

*None.*

5. To agree the minutes of the meeting held on 11 October 2023 and matters arising not covered under Agenda Items.

**Members resolved to agree the minutes of 11 October 2023.**

6. Stubbs Wood

6.1 Aztech Contract

6.1.1 To confirm next steps with regard to the additional work to be undertaken

**Members resolved that Aztech should complete the additional coppicing work so there is a clear viewpoint to Bough Beech once written approval has been received. Aztech will carry out the work free of charge in exchange for the wood.**

**Members discussed that if Aztech cannot finish the work on the Eastern side unless they are confident it can be finished by the nesting season.**

6.2 Application for a new CSA from 2025

6.2.1 To agree to appoint Silva Woodland Management to quote for the work

**Members resolved to appoint Silva Woodland Management to start the Rural Payments Agency grant for the next five years.**

## PARISH COUNCIL OF SUNDRIDGE WITH IDE HILL

6.2.2 To appoint a working group to prepare a simplification revision to the Management Plan

**Members resolved that a working group should be set up.**

6.3 Tree Survey

6.3.1 To note the tree survey and agree next actions

**Members noted that the tree survey had been completed. Members resolved that Silva Woodland Management should be appointed to see if the volunteers can carry out any work and get a quote for the work that would need to be carried out by the contractors.**

6.4 Volunteers

6.4.1 To confirm that the Clerk and a Member will sign the Volunteers forms.

**Members resolved that Volunteer Forms would be signed by one Member of the Ide Hill Amenities Committee and the Clerk.**

6.34.2 Expenses Policy for Volunteers

*Cllr Fribbens confirmed that all purchases are requested other than fuel should go through the Clerk.*

**Members resolved to agree the purchases as presented other than the High Viz jackets which John Evans kindly offered to provide.**

6.5 Signage

- a. *Members agreed that Aztech should be responsible for all the safety signs.*
- b. *The Clerk confirmed that the information signs are all printed and ready to be put up.*
- c. *Members agreed that the Clerk should contact KCC Footpaths to replace the signs after 1 April 2024.*

6.6 Stubbs Wood Account

**Members noted that at 1 December 2023 the Stubbs Wood ring fenced account stood at £2,397.79.**

6.7 Stubbs Wood Update (for information only)

*Members noted the information as follows:*

*The planned coppicing work for Stubbs Wood continues to make good progress ,The West to East ride work is now completed and timber is now being lifted although safety conditions remain paramount when moving these very heavy loads.*

*Compartment 3g is now nearly completed and subject to final confirmation from Natural England work will begin on Compartment 3d to complete the viewpoint .*

*The Parish Council recognises the inconvenience caused by the heavy machinery but work is scheduled to finish at the end of February .The PC continues to monitor the site in liaison with the contractor and will make every effort to ensure the ride is made good by the contractor at the end of the coppicing process .*

*Residents are reminded that the sweet chestnut is being coppiced to preserve the long term health of the trees and open up the woodland floor to light and heat thereby providing a much more beneficial environment for plants and animals ,many from species that are under threat .*

# PARISH COUNCIL OF SUNDRIDGE WITH IDE HILL

## 7. Ide Hill Public Conveniences

### 7.1 To discuss the vandalism and agree next steps

*Cllr Fribbens advised that there has been a further incident of vandalism.*

**Members agreed that the Parish Council should look at a CCTV system.**

### 7.2 To confirm the increase for usage from 60p to £1.00 from 1 April 2024

**Members confirmed that the entrance to the public conveniences should increase to £1.00.**

## 8. Clarke Telecom

### 8.1 To receive an update

*There is no further update following the meeting on 28 November 2023.*

## 9.1 Ide Hill Green

### 9.1 To discuss the kerbing around the Green

*The Clerk advised that she is awaiting the cost of kerbing from Highways.*

### 9.2 Telephone Kiosk

*Members noted that it has now been repainted and Members gave their thanks to the residents who undertook the work.*

## 10. Playgrounds

*10.1 To receive the playground inspection reports for Goathurst Common and Ide Hill recreation ground and agree next actions, if appropriate.*

**Members resolved that they had received the playground inspection reports for Goathurst Common and Ide Hill recreation grounds. There were no further issues.**

### 10.2 Goathurst Common Playground Project

*The fundraising team report that they have raised around £13,000 in the first year of fundraising including one large donation from a resident. Sources of funds and grants are being sought and Members are asked to advise the fundraisers of any grants that they may be aware of that could support their plan to raise £60,000.*

## 11. Highways

*11.1 To agree, if appropriate, to purchase an additional grit bin for Ide Hill*

**Members resolved to put a new bin if the existing has now been removed.**

## 12. Budget for 2024-25

*11.1 To agree the proposed budget for Stubbs Wood, Ide Hill Public Conveniences, Ide Hill Green and Ide Hill Recreation Ground.*

*Members agreed to the budget figures as presented and that they should be put forward to the Finance & Personnel Committee for inclusion in the 2024/25 budget.*

## 13. Date of next meeting                      To be confirmed.

## 7. Stubbs Wood

### 7.1 Aztech Contract

#### 7.1.1 An update on the current situation at Stubbs Wood

Aztech Group South East Ltd <aztechgroupse@outlook.com>

**Sent:** 26 March 2024 14:28

**To:** clerk@sundridgewithidehill-pc.gov.uk

**Subject:** Re: Stubbs Wood Update

Hi Amanda.

We are just waiting for the weather to turn. It was just far too wet to do anything else. Everything was getting stuck.

We have 1 more days extracting brash from hanging bank side of site. Then I can re instate all of that site up to the landing site.

We then have to complete extracting timber from the ride widening project and the collie block just next to Yorkshire hill.

It's at the top of my priority list because I want it wrapped up now.

But I can't see us getting back in for at least a few weeks.

Many thanks

Adam Ashworth

Director

Aztech Group SE Ltd

### 7.2 Application for a new CSA from 2025

#### 7.2.1 To agree to appoint Silva Woodland Management to quote for the work

#### 7.2.2 To appoint a working group to prepare a simplification revision to the Management Plan

Awaiting response from Tim Saunders

### 7.3 Tree Survey

#### 7.3.1 To agree next actions

7.4 Stubbs Wood Account at 31 March 2024 – an update will be provided at the meeting after year end on 31 March 2024.

## 8. Ide Hill Public Conveniences

To confirm increase of entry price to £1.00 from 2 April 2024.

9. Clarke Telecom

9.1 To note receipt of the planning pre-application.

At the Full Council Meeting Members discussed the pre-application and unanimously agreed that they would support the application providing it provided increased coverage. A formal response would be made when the planning application is discussed and agreed by the Planning Committee.



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Our ref: 30082300

Sundridge with Ide Hill Parish Council  
Clerk - Amanda Barlow  
1 Clover Way  
Paddock Wood  
TN12 6BQ  
Email: [clerk@sundridgewithidehill-pc.gov.uk](mailto:clerk@sundridgewithidehill-pc.gov.uk)

Via Email

01<sup>st</sup> March 2024

Dear Ms Barlow,

**PROPOSED RADIO BASE STATION INSTALLATION AT CTIL\_30082300 LAND AT B2042 WHEATSHEAF LANE, IDE HILL, SEVENOAKS, KENT, TN14 6JD, NGR E: 549148 N: 151775**

Cornerstone is the UK's leading mobile infrastructure services company. They 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. They 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 are in the process of progressing a suitable site in the Ide Hill area for a radio base station that will significantly improve service provision for Vodafone Limited and Virgin Media O2 (VMO2), ensuring that the latest 4G service provision is provided in this area of Ide Hill. The purpose of this letter is to consult with you and seek your views on our proposal before any planning submission is made. We understand that you are not always able to provide site specific comments, however, Cornerstone is committed to consultation with communities on their mobile telecommunications proposals and as such would encourage you to respond.

The proposal is part of the Government backed scheme called Shared Rural Network (SRN). It is a collaboration between Mobile Network Operators (MNO's) (Vodafone and VMO2) and the Government to improve 4G coverage for people living, working and travelling in poorly served rural areas.

The network will ensure geographic coverage from at least one operator to 95% of the UK by 2025, broadening consumer choice for a fast mobile broadband service in rural areas. 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.

There are many rural areas in the UK which are partial not spots. That is, there is only coverage with one mobile Network Operator. An installation in this location will ensure that 4G coverage are provided by the two MNOs – Vodafone and VMO2. Thus this is shared infrastructure which is in full accordance with national planning policy. It will improve service whilst limiting the environmental impact through reduced proliferation and a minimised number of sites.



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The SRN will deliver reliable 4G mobile connectivity allowing rural business to prosper and rural communities to thrive. This is even more significant in the post COVID economic recovery. High quality coverage promotes inward investment, creating jobs to assist in retaining skilled young people in rural areas.

Better connectivity has real, tangible benefits for people and businesses, such as booking GP appointments online, using apps to communicate with friends and family, boosting tourism and agriculture through platforms such as social media which is now an important marketing tool for businesses, access to emergency services etc. 4G can provide a means to connect to superfast broadband where fibre broadband is not yet available.

Cornerstone's technical requirement is as follows:

**PROPOSED RADIO BASE STATION INSTALLATION AT CTIL\_30082300 LAND AT B2042 WHEATSHEAF LANE, IDE HILL, SEVENOAKS, KENT, TN14 6JD, NGR E: 549148 N: 151775**

The proposal relates to the installation of a 30m lattice tower supporting 3 no. antennas, 2 no. transmission dishes, 2 no. equipment cabinets, 1 no. meter cabinet and ancillary development thereto including 12 Remote Radio Units (RRUs) and 1.8m fenced compound for the SRN project on behalf of Cornerstone.

This is a remote location with minimal mobile coverage at the current time. The siting has been carefully considered and a remote location has been identified within the forest area with mature trees surrounding the site, which rise to some 22m in height. It is located away from the highway, residential properties and situated within trees. Therefore this will minimise its visual impact on the wider landscape views. There is excellent shielding provided a backdrop of trees to all sides in this area which should help to incorporate the installation into the wider landscape from limited vantage points.

The site location has been discussed extensively with stakeholders after a previous application was subsequently withdrawn from Sevenoaks District Council (LPA ref: 23/00321/TELNOT). The previous location was in a more prominent location and situated within a site of special scientific interest.

A streetworks style column cannot be utilised as they are not able to structurally support the weight and size of 2 MNO's equipment to enable the operators to share the same structure. A number of masts would be needed, throughout this rural landscape. This would lead to proliferation and would have a much greater impact on the surrounding area. Such designs are also restrictive on the coverage that can be provided due to limitations in respect of the heights and bearings and therefore will not be able to provide the necessary coverage to this large rural area.

A tree mast would not be suitable in this location either due to the large structure not being able to be broken down into sections like the lattice tower. Therefore, construction of the mast and access constraints would be difficult. Like a streetworks style column they are also restrictive on the coverage that can be provided.

A lattice tower is the most suitable design from a technical viewpoint, given the height requirement and windloading in this location. Such a design is also able to facilitate greater coverage and provide the structural capability required to be able to support the weight and size of all the operators telecommunications equipment. Due to the slim line nature of the supporting struts of the lattice frame, light is able to continue to pass through the structure. If the lattice tower were to be any slimmer in width



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then it would not be structurally capable of supporting all the operators equipment or meet the windloading requirements in this location. The colour of the tower is proposed to Fir Green (RAL 6009) to help blend the tower into the forest network, it can be coloured any other colour that the authority consider appropriate.

The transmission dishes are essential to link the installation back into the MNO's wider network and relay the data. The transmission dishes need a clear line of sight in order to function. As such they require a centre line height of 24m above ground level.

The equipment cabinets are relatively small. Given their location and their proposed colouring (RAL 6009) they will not be overly noticeable in the landscape given their maximum height is 2.3m.

We have considered alternative site options and discounted as follows:

- **Rooftop – Church Steeple, St Mary's Ide Hill, Sevenoaks, Kent, TN14 6JN, NGR E: 548617 N: 151698**  
Due to the construction of the church there is no design available in order to locate the required equipment at this location in order to deliver the required level of coverage to the target area. The church is also a Listed Building within the Conservation Area therefore development of this sensitive building should be avoided and other locations are considered to be more appropriate.
- **Greenfield – BT Telephone Exchange. Ide Hill, Sevenoaks, Kent, TN14 6JP, NGR E: 548481 N: 151980**  
A mast at this location is not viable due to a physical lack of space and also from a planning perspective as it would be within the Conservation Area and overlooked by nearby properties. Other locations are considered to be more appropriate in order to deliver the required level of coverage to the target area.
- **Greenfield – Stubbs Wood Car Park, Stubbs Wood, Ide Hill, Sevenoaks, Kent, TN14 6JE, E: 549660 N: 151826**  
A mast at this location would not provide the required level of coverage to the target area due the substantial tree cover to the west that would inhibit the signal required to the target area. The development of a mast in the sensitive SSSI area is also not thought to be appropriate and better alternatives are thought to exist.
- **Greenfield – Gate to Stubbs Wood, Wheatsheaf Hill, Ide Hill, Sevenoaks, Kent, TN14 6JD, E: 549150 N: 151774**  
A substantially tall mast would be required at this location in order to clear the substantial tree cover that would otherwise inhibit the signal required to the target coverage area. The development of a mast in the sensitive SSSI area is also not thought to be appropriate and better alternatives are thought to exist.
- **Greenfield – Top of field to North of Wheatsheaf Hill, Ide Hill, Sevenoaks, Kent, TN14 6JD, NGR E: 549074 N: 151845**  
A mast at this location would be on low ground and which would not be suitably sufficient to provide the required level of coverage to the target area.

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- **Greenfield – Recreation Ground, Camberwell Lane, Ide Hill, Sevenoaks, Kent, TN14 6JN, NGR E: 548687 N: 151983**  
A mast at this location is not viable from a planning perspective as it would be within the conservation area and overlooked by nearby properties. Other locations are considered to be more appropriate in order to deliver the required level of coverage to the target area.
- **Greenfield – Street Furniture opposite Village Hall, Wheatsheaf Hill, Ide Hill, Sevenoaks, Kent, TN14 6JG, NGR E: 548845 N: 151695**  
It is not possible to install an installation here in order to deliver the required level of coverage to the target area due to technical and legal reasons.
- **Greenfield - Ide Hill Community Shop & Village Hall, Wheatsheaf Hill, Ide Hill, Sevenoaks, Kent, TN14 6JG, NGR E: 548832 N: 151723**  
A mast at this location is not viable due to a physical lack of space and also from a planning perspective as it may appear prominent due to a lack of screening/backdrop from trees. Other locations are considered to be more appropriate in order to deliver the required level of coverage to the target area.
- **Greenfield - Field to South of Village Hall, Wheatsheaf Hill, Ide Hill, Sevenoaks, Kent, TN14 6JG, NGR E: 548872 N: 151672**  
A mast at this location would be on low ground and not suitably sufficient to provide the required level of coverage to the target area.
- **Greenfield – Stubbs Wood Car Park, Nightingale Lane, Ide Hill, Sevenoaks, Kent, TN14 6JE, NGR E: 549655 N: 151826**  
A mast in this location was previously submitted to the council. However, due to its siting within an SSSI and being within a prominent location it received a high number of objections. Therefore, the operator has located the mast outside of the SSSI and as far away from the residential properties as possible.

We look forward to receiving your comments on the preferred option identified above and alternatives discounted. We would also like to take this opportunity to extend an invitation to meet with you to discuss the proposal and undertake a tour of the options considered, should you consider this to be beneficial.

The proposal for this Cornerstone site has been designed within International Commission on Non-Ionising Radiation Protection (ICNIRP) public exposure guidelines. It takes into account the cumulative effect of the emissions from the proposed installation and all radio base stations present at, or near, the proposed location.

Finally, we would be interested in any local stakeholders or groups that you consider would like to know more about our proposals and look forward to receiving your comments on the preferred option identified above. For your information pre-consultation letters and a set of plans have been sent to the local planning officers at Sevenoaks District Council, local ward councillors for Brasted, Chevening & Sundridge Ward (Cllrs M Alger, N Williams and S Robinson), Sevenoaks West county councillor Nick Chard and the local MP Laura Trott.

We look forward to receiving any comments you may have on the proposal.



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Should you have any queries regarding this matter, please do not hesitate to contact me (quoting cell number 30082300).

Yours faithfully

*joshua fiteni*

*Joshua Fiteni Bsc MTPL  
Town Planner  
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Fax: +44 (0)161 785 4501  
Mob: +44 (0) 7920 482985*

(For Cornerstone on behalf of Cornerstone)



## Cornerstone Community Information Sheet

### How it Works

An introduction to how a network of mobile phone base stations operate.

Base stations use radio signals to connect mobile devices and phones to the network, enabling people to send and receive calls, texts, emails, pictures, TV and downloads. Without base stations, mobiles and devices will not work. Base stations are made up of three main elements. The cabin which contains the equipment used to generate the radio signal. A supporting structure such as a mast which holds the antennas in the air and the antennas themselves. Only the antennas emit radio signals.

Many other everyday items also use radio signals to send and receive information, such as television and radio broadcasting equipment and two-way radio communications.

Base stations are connected to each other and telephone exchanges by cables or wireless technology, such as microwave dishes, to create a network. The area each base station covers is called a cell.

Each cell overlaps with its neighbouring cells to create a continuous network. The size and shape of each cell is determined by the features of the surrounding area, such as buildings, trees and hills, which can block signals. When people travel between cells, the signal is transferred between base stations without a break in service. However, each base station can cover a certain area only and can only handle a limited number of calls at once. As mobile phones and devices become more popular more base stations are needed to ensure continuous coverage.

All UK mobile phone base stations are designed to comply with the stringent International Commission on Non-Ionizing Radiation Protection (ICNIRP) General Public Exposure guidelines recommended by the UK government and the European Union. These guidelines also have the formal backing of the World Health Organisation.


### For further information please contact:

Community, Cornerstone

The Hive 2, 1530 Arlington Business Park, Theale, Berks, RG7 4SA

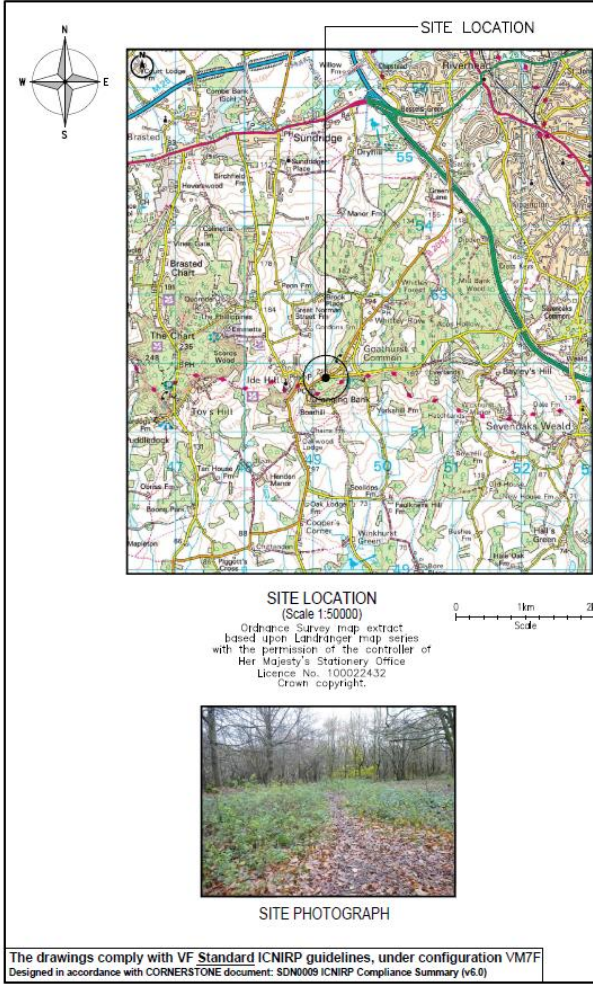
Tel. 01753 564306, [community@ctil.co.uk](mailto:community@ctil.co.uk)

Classification: Unrestricted

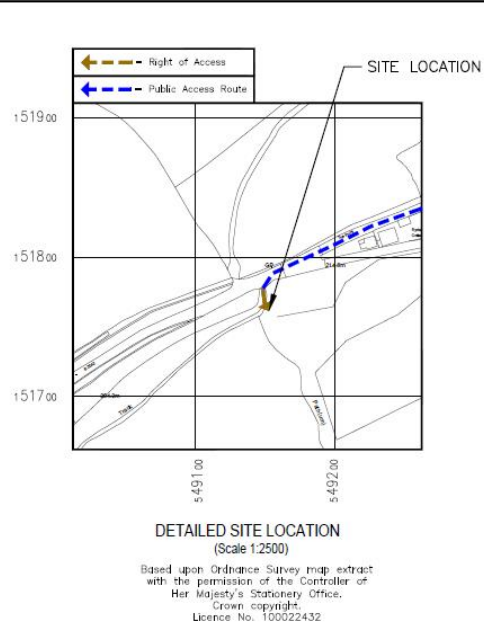
 Cornerstone, Hive 2  
1530 Arlington Business Park  
Theale, Berkshire, RG7 4SA

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

# PARISH COUNCIL OF SUNDRIDGE WITH IDE HILL



The drawings comply with VF Standard ICNIRP guidelines, under configuration VM7F  
Designed in accordance with CORNERSTONE document: SDN009 ICNIRP Compliance Summary (v6.0)



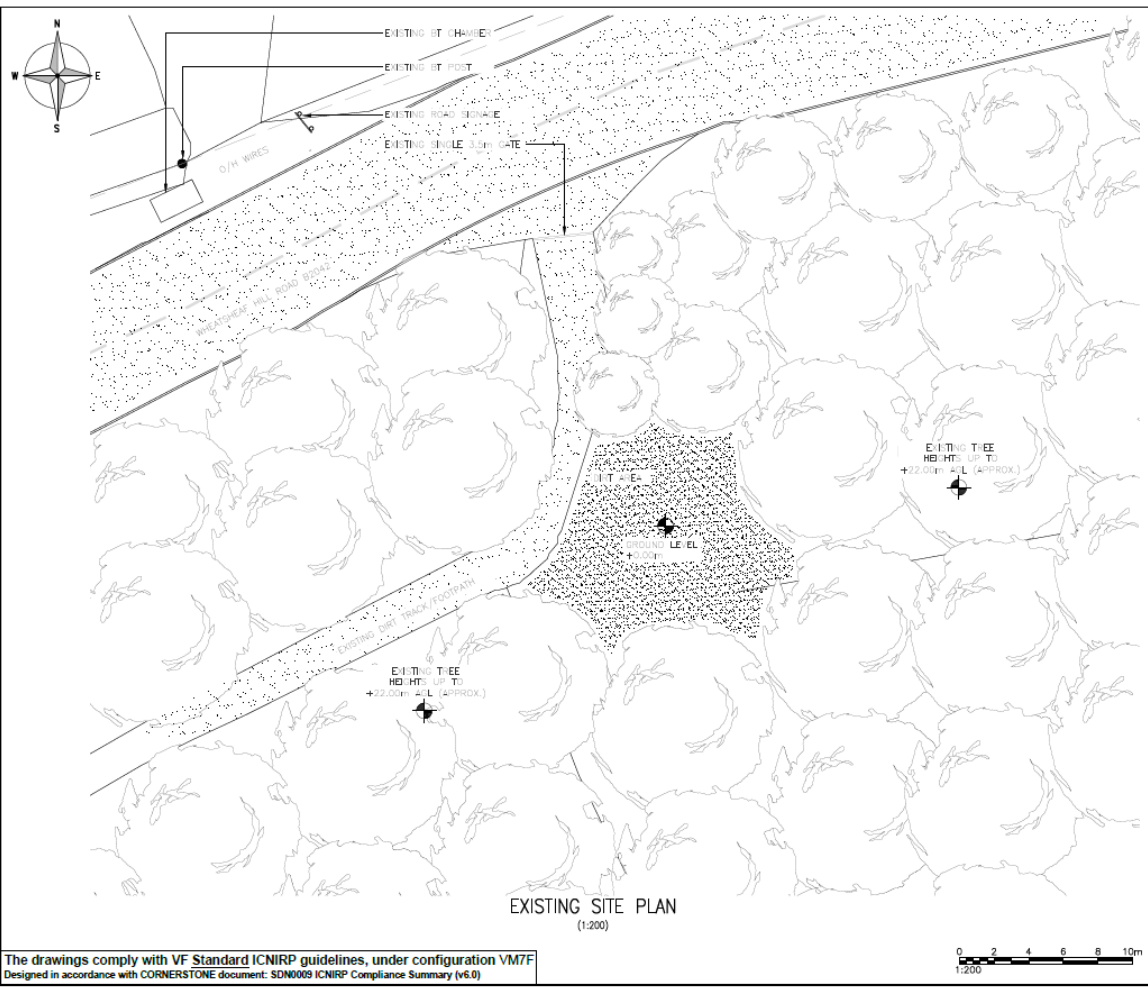
ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R. E: 549148 N: 151775

**DIRECTIONS TO SITE:**  
EXIT A21 AT JUNCTION 5 AND HEAD SOUTH ALONG THE SEVENOAKS BYPASS (A21) TURN RIGHT ONTO BESSELS GREEN ROAD (B2042) AND CONTINUE FOR 2.7 MILES. SITE ENTRANCE IS ON THE LEFT AND SITE COMPOUND AT 12m FROM SINGLE GATE.

NOTES:

A. Issued for Approval		BY	NB	19.01.24
REV	MODIFICATION	BY	CH	DATE
Cell Name		Opt		
WHEATSHEAF HILL B2042		-		
Cell ID No				
CORNERSTONE	TEF	VF		
300823_00	088148	18320		
Site Address / Contact Details				
B2042 WHEATSHEAF LANE / GRACIOUS LANE IDE HILL SEVENOAKS KENT TN14 6JD				
Drawing Title: SITE LOCATION MAPS				
Purpose of Issue:		Dwg Rev		
PLANNING				
Drawing Number:		Pack Issue		
100		A		
Surveyed By:		Original Sheet Size:		Pack Issue
MS	AS			
Drawn	Date	Checked	Date	
DP	19.01.24	NB	19.01.24	A



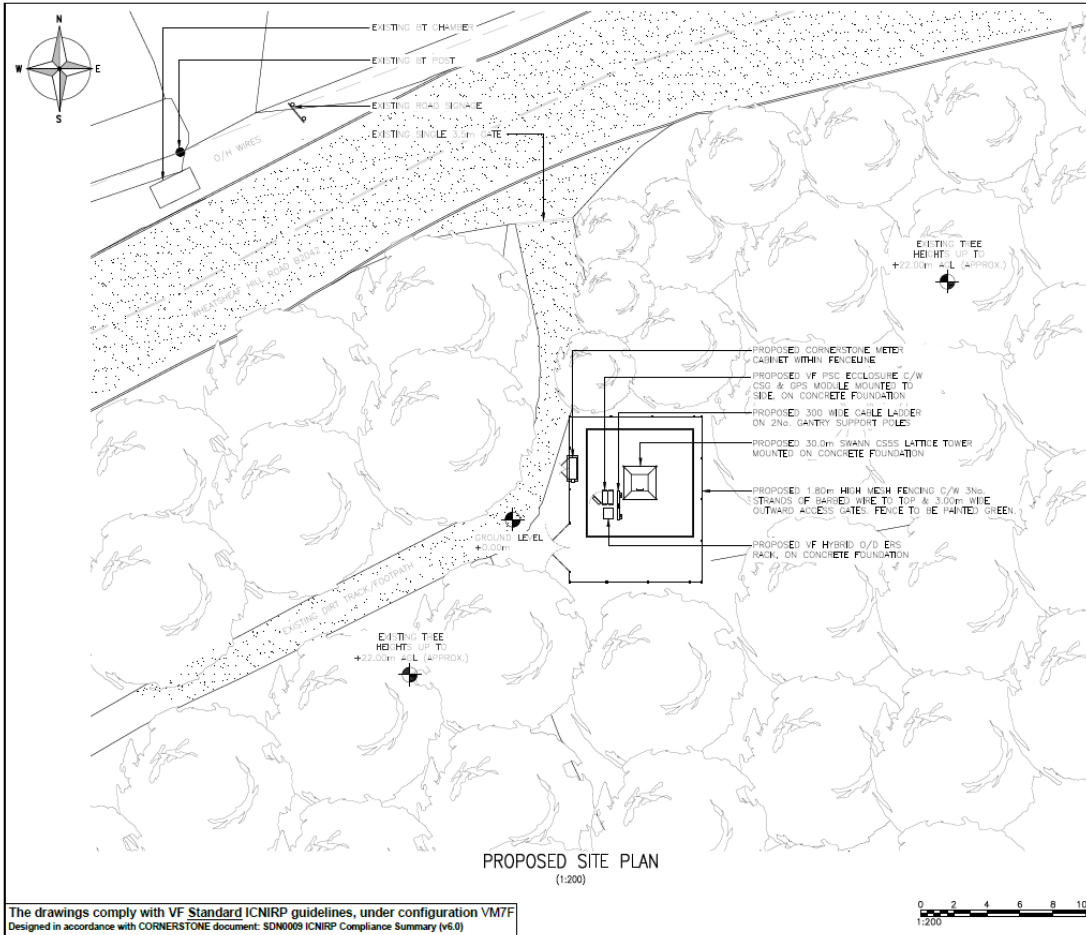
ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

N.G.R. E: 549148 N: 151775

NOTES:

A. Issued for Approval		BY	NB	19.01.24
REV	MODIFICATION	BY	CH	DATE
Cell Name		Opt		
WHEATSHEAF HILL B2042		-		
Cell ID No				
CORNERSTONE	TEF	VF		
300823_00	088148	18320		
Site Address / Contact Details				
B2042 WHEATSHEAF LANE / GRACIOUS LANE IDE HILL SEVENOAKS KENT TN14 6JD				
Drawing Title: EXISTING SITE PLAN				
Purpose of Issue:		Dwg Rev		
PLANNING				
Drawing Number:		Pack Issue		
201		A		
Surveyed By:		Original Sheet Size:		Pack Issue
MS	AS			
Drawn	Date	Checked	Date	
DP	19.01.24	NB	19.01.24	A

# PARISH COUNCIL OF SUNDRIDGE WITH IDE HILL



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ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

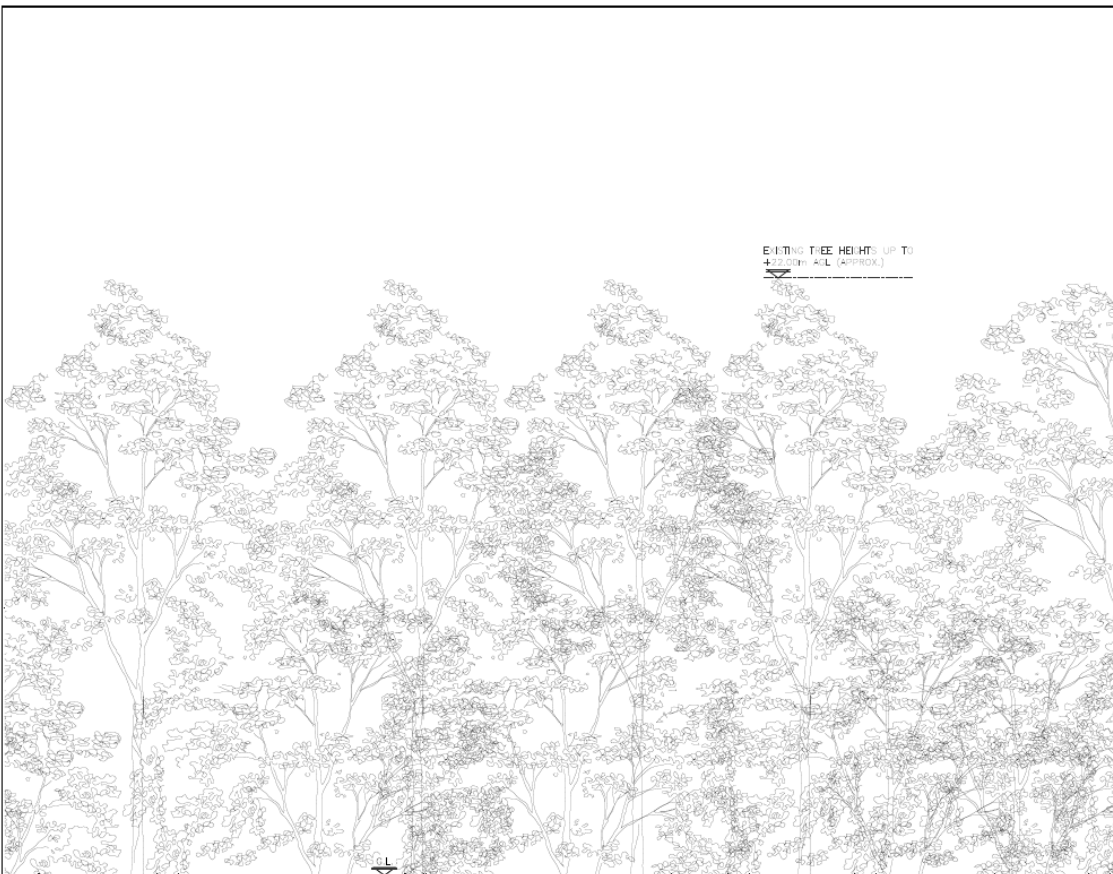
N.G.R | E 549148 N: 151775

NOTES:  
UNEVEN GROUND AT PROPOSED COMPOUND AREA TO BE STRIPPED, AND LEVELLED. UNDERGROWTH & DEAD TREES.  
TREE LOPPING MAYBE REQUIRED TO CLEAR AREA READY FOR SITE DEPLOYMENT

REV	DESCRIPTION	BY	CHK	DATE
A	Initial Site Approval	EP	NR	19.01.24

Unit 5, Madson Park, Northampton Road, Northampton, NN4 5AQ  
Tel: 0333 785 4000  
Fax: 0333 785 4000  
Web: www.clarke-telecom.com

Cell Name	Opt		
WHEATSHAF HILL B2042	-		
Cell ID No			
CORNERSTONE	TEF	VF	
300823_00	088148	18320	
Site Address / Contact Details			
B2042 WHEATSHAF LANE / GRACIOUS LANE IDE HILL SEVENDENS RENT TN14 6JD			
Drawing Title:	PROPOSED SITE PLAN		
Purpose of Issue:	PLANNING	Dev Rev:	
Drawing Number:	201	A	
Surveyed By:	Original Sheet Size:	Pack Issue:	
SA	A3	A	
Drawn:	Date:	Checked:	Date:
EP	19.01.24	NR	19.01.24



EXISTING WEST ELEVATION (1:125)

The drawings comply with VF Standard ICNIRP guidelines, under configuration VM7F  
Designed in accordance with CORNERSTONE document: SDN0009 ICNIRP Compliance Summary (v6.0)

ALL DIMENSIONS ARE IN mm UNLESS NOTED OTHERWISE

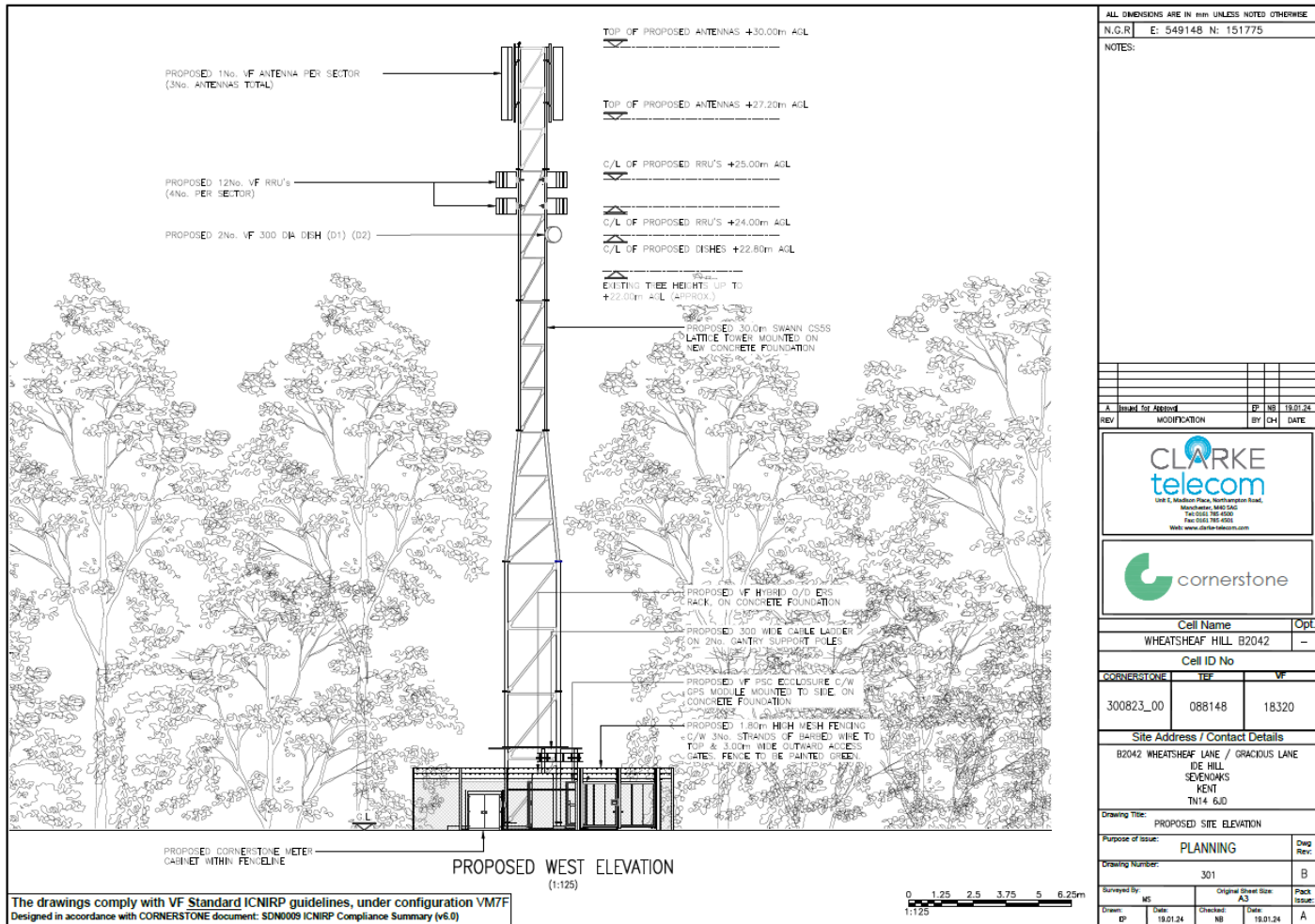
N.G.R | E 549148 N: 151775

REV	DESCRIPTION	BY	CHK	DATE
A	Initial Site Approval	EP	NR	19.01.24

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B2042 WHEATSHAF LANE / GRACIOUS LANE IDE HILL SEVENDENS RENT TN14 6JD			
Drawing Title:	EXISTING SITE ELEVATION		
Purpose of Issue:	PLANNING	Dev Rev:	
Drawing Number:	301	A	
Surveyed By:	Original Sheet Size:	Pack Issue:	
MS	A3	A	
Drawn:	Date:	Checked:	Date:
EP	19.01.24	NR	19.01.24

# PARISH COUNCIL OF SUNDRIDGE WITH IDE HILL





## **RADIO PLANNING AND PROPAGATION (V.4 November 2019)** **An introduction to how radio networks are planned and the limitations associated with the technology**

When planning cellular telecommunications networks engineers use specialist software to predict, with a high degree of confidence, the behaviour of cellular transmissions. This then enables the operator to calculate how many cell sites are needed to provide the level of coverage and capacity required by their customers.

Radio signals at the frequencies used for cellular radio propagate in a manner that is broadly similar to light. Generally anything that casts a shadow to light will attenuate radio waves. The strength of radio signals detected at a receiving device naturally reduces the further away it is from the transmitter. In general, the attenuation (or decay) in signal power is affected by a number of variables. The main factors are:

- signal frequency (attenuation increases with frequency),
- distance (from the transmitter),
- terrain (such as hills),
- clutter (such as buildings, foliage, vehicles, and water) and
- atmospheric conditions (such as rain).

A reduction in the strength of the radio signal increases the likelihood of dropped calls and reduced data rates for internet browsing, for example.

### **Clutter**

Any physical object obstructing the propagation of radio signals causes a reduction in the signal strength reaching a customer's device. A common term for these objects is 'clutter'. The more obvious examples are buildings and geographical terrain such as hills and trees.

Buildings cause a varying amount of signal reduction depending on their height, construction, thickness of walls, number of windows etc. Glass causes a lower reduction in signal than brick/concrete walls.

Customers will inadvertently be aware of this by finding that sometimes they need to go near windows, a higher floor of a building or even outside in order to achieve a stronger signal for their mobile devices.

Generally, the higher the signal frequency the more it will be impacted by clutter.

### **Tree Clutter**

The effects of trees on signal degradation can be significant. Signal absorption and shadowing effects vary according to vegetation and density, and are caused by the main tree trunk, branches, and leaves.





Cell sites located in or near trees will have signals significantly reduced. As a result, a number of extra sites may need to be built locally in order to counter-effect this.

Signal variation throughout the seasons is also a practical concern. Leaves on trees in the spring and summer can cause shadowing and reduce radio voice quality and increase the number of dropped calls.

As a result, the bottom of an antenna should a) be above the top level of the trees, b) allow greater height due to the antenna downtilt at build or for future requirements and c) allow some room for future growth of the trees.

When a cell site utilises point-to-point microwave dishes to communicate with other cell sites in the network any obstruction between these dishes will result in failed line of sight communications. As a result, dishes need to be placed above the top level of the trees.

## Propagation Models

In essence these are mathematical formulae used to characterise radio wave propagation, in order to determine the signal strength at a receiving device.

## Coverage Planning Tools

Radio planning engineers plan cellular networks using highly sophisticated computer programs that incorporate propagation models. Armed with data on cell site location, cell site configuration, maps, terrain etc. they are used to *predict* areas of coverage deficiency (so called 'coverage holes'), new site requirements and configurations.

## Network Changes

Over time the topography and clutter in an area may change. For example, building developments, housing and tree growth can all change. As the signals received from local phone masts can degrade, as they are dependent on these factors. These reasons along with increased usage of mobile devices, customer complaints, network consolidation (mast sharing) and new technologies (5G) require a re-evaluation of a network operator's telecommunications infrastructure.

Mast sharing can result in some masts no longer being needed. As a result, they are decommissioned and physically removed. Mast sharing will however sometimes result in the need for a taller more substantial structure.

Technical surveys undertaken for reasons above may highlight that antenna height increases are required – this is more likely for sites with low antenna heights around 15m AGL, particularly street furniture sites. More details on these reasons below.

*While thus far this document is generic to mobile telephony masts it should be noted that each mast has to be dealt with on a case-by-case basis.*



### Site Height increases

There are a number of reasons why an operator may request a height increase on existing structures. The main ones are described below.

#### *Maintaining existing coverage*

The antennas inside, for example, street furniture sites are generally of 2 physical build designs – ‘Single Stack’ and ‘Dual Stack’. The former describes when the set of antennas are all at the same height. The latter describes a site with 2 sets of antennas one above the other.

The ‘Dual Stack’ is by far the preferred option. This is due to a number of factors including greater flexibility & control for different technologies and providing optimum service performance to customers.

Site upgrades such as network consolidation between Vodafone and Telefonica and/ or new 5G technologies facilitate a Single Stack structure being upgraded to a Dual Stack structure. In a straight swap scenario at equal height the new lower aperture antennas would be lower than they were originally - resulting in significantly reduced coverage. To ensure existing coverage is maintained the whole structure needs to be increased in height.

### Clutter changes

A more extreme example is when the local clutter or tree lines have changed, or are such that the mobile signals are blocked, resulting in lower quality calls and downloads for mobile device users. To provide sufficient services to customers height increases on existing masts or additional new masts are required. The former is the preferred option in many cases.

### 5G Technologies

5G New Radio technologies operate in higher frequency bands than older technologies. Since it operates at higher frequencies where attenuation of the radio signal is naturally higher, and the effects of clutter are greater it will normally require a higher structure to achieve the same coverage footprint. Furthermore, unlike traditional technologies 5G uses adaptive beamforming technologies to increase capacity and data speeds to the user. For effective beamforming the antenna will normally need to be mounted higher than conventional antennas. These factors drive a require for an increase in antenna height in 5G

#### *International Commission on Non-Ionizing Radiation Protection (ICNIRP) Compliance*

The addition of new technologies and mast sharing affects ICNIRP compliance, one of the health and safety requirements for a cell site, a higher minimum mast height is required in some cases.



# Shared Rural Network – Explanatory Note.

## What is the Shared Rural Network?

The Shared Rural Network (SRN) is a collaboration between Mobile Network Operators (MNOs) and the Government to improve 4G coverage for people living, working and travelling in poorly served rural areas.

The network will ensure geographic coverage from at least one operator to 95% of the UK by the end of 2025, broadening consumer choice for mobile services in rural areas.

Across the UK, there will be a significant increase in the areas where all four operators deliver coverage, from 66% in 2020 to 84% by the end of 2025.

MNOs are collectively investing £532 million to extend their coverage by upgrading their existing networks, working together on shared infrastructure and building new sites. The Government is investing a further £500 million to build new masts in areas with no 4G coverage from any operator.

Cornerstone is delivering the Shared Rural Network on behalf of the MNOs and will be submitting applications to your Council Planning Department imminently.

The project utilises infrastructure – this is planning policy compliant – delivering improved service while minimising environmental impact via reduced proliferation and minimised site numbers.


## What are the benefits of the Shared Rural Network?

- The SRN will deliver reliable 4G mobile connectivity allowing rural businesses to prosper and thrive.
- The new infrastructure is guaranteed to bring mobile coverage and economic benefits to areas of the UK currently missing out. Even more significant with post-Covid economic recovery.
- It will promote inward investment, creating jobs to assist in retaining skilled young people in rural areas.
- Address the urban-rural digital divide.
- Provide social benefits, including staying in touch with isolated or vulnerable friends/family and having access to learning materials and remote learning – a necessity and dependence demonstrated by the pandemic.
- Offer better services like booking GP appointments online, using apps to communicate with friends and family, boosting tourism and agriculture and having reliable access to emergency services.
- 4G can provide a means to connect to superfast broadband where fibre broadband is not yet available.

## The Shared Rural Network will help deliver the economic and digital aspirations of Government and Local Authorities.

### Further reading:

- Future Telecoms Infrastructure Review
- Mobile Action Plans for Scotland and Wales
- National Infrastructure Commission for Wales
- A Changing Nation: How Scotland Will Thrive in a Digital World, 2021
- Local Council Economic Strategy
- Northern Ireland Mobile Action Plan

 Cornerstone  
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10. Playgrounds

10.1 Goathurst Common Playground Project

An update from Cllr Fribbens on the current fund raising efforts of the Committee.

11. Highways

11.1 Update from Kent Highways

Awaiting update from Nigel Rowe, Highways Steward, Kent Highways.

12. Date of next meetings

Full Council Meeting	22 April 2024	7.45pm Sundridge Village Hall
Ide Hill Information Evening	19 April 2024	6pm Ide Hill Village Hall
Annual Parish Meeting	29 April 2024	7pm Sundridge Village Hall

