

SUPPLEMENTARY INFORMATION

1. Site details

Site Name	Renaissance Way SW	Site Address	Renaissance Way, Halewood, Knowsley, Liverpool, Merseyside, L24 9JW
NGR	E 343980 N 384391		
Site Ref Number	32943	Site Type	Greenfield

2. Pre-Application Check list

Site selection

Was the mast register of the authority responsible for planning used to check for suitable sites by the operator or the authority?	Yes	
Was the industry site database checked for suitable sites by the operator?	Yes	

Annual roll out consultation with the authority² responsible for planning

Date of last annual rollout information/ submission	N/A	
Name of contact	N/A	
Summary of outcome/Main issues raised	N/A	

Pre-application consultation with the authority² responsible for planning

Date of written offer of pre-application consultation	07 th September 2022
Was there pre-application contact	No
Date of pre-application contact	-
Name of contact	-
A generic auto-response was received from the local planning authority. Otherwise, as of submission no response has been received.	

Ten Commitments Consultation

Rating of Site under Traffic Light Model	Green
Outline Consultation carried out: The proposed site has been rated as Green, as such the following individuals were sent correspondence: • Knowsley Metro Borough Council • Knowsley Highways Department	
Summary of outcome/main issues raised (include copies of relevant correspondence): As of submission no further responses have been received.	

School/College

Location of site in relation to school/college (include name of school/college): N/A
Outline of consultation carried out with school/college (include evidence of consultation): No consultation was carried out given the distance from the proposed site.
Summary of outcome/main issues raised (include copies of main correspondence): N/A

Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator consultation (only required for an application for prior approval)

Will the structure be within 3km of an aerodrome or airfield?	☒ Yes	☐ No
Has the Civil Aviation Authority/Secretary of State for Defence/Aerodrome Operator been notified?	☒ Yes	☐ No
Details of response: Not applicable		

Developer's Notice

Copy of Developer's Notice enclosed?	☒ Yes	☐ No
Date served:	30 th September 2022	

3.0 Proposed Development

The Proposed Site
The proposed 20-metre-high Phase 8 pole street pole will be located at above address. The purpose of this site is to provide EE Ltd customers new 4G (and at a later date 5G) service when utilising rail services along this section of the West Coast Main Line track as it passes through Knowsley, in addition this apparatus will provide the wider area with coverage and supply fast 4G data to the area. Avanti West Coast also utilise EE's 4G network for the connectivity of the on board wi-fi on their services, so it is vital that there is continuity of coverage in order for the wi-fi to operate. The site will also provide improved coverage to the immediate surrounding area as further benefit. There are existing tall trees situated in close proximity which would provide a degree of natural backdrop against which the proposal would be viewed against as well as the contextual setting within an industrial area.

Type of Structure (e.g., tower, mast, etc.): Telecommunications lattice tower
Description: The installation of 1No. 20-metre-high Phase 8 street pole, 6No. antennas, 2No. 0.6m dishes, and 4No. ground-based equipment cabinets and ancillary development thereto.
Overall, Height: 20 Metres

Equipment Housing: 1No. MK5B Link AC cabinet	
Length:	0.5 Metres
Width:	1.2 Metres
Height:	1.5 Metres
Equipment Housing: 1No. RBS6130 cabinet	
Length:	0.70 Metres
Width:	0.6 Metres
Height:	0.95 Metres
Equipment Housing: 1No. Wiltshire cabinet	
Length:	1.65 Metres
Width:	2.0 Metres
Height:	0.75 Metres
Materials (as applicable):	
Equipment Housing: Phase8 Wrap Around Cab	
Length:	1.8 Metres
Width:	0.75 Metres
Height:	1.57 Metres
Tower/mast etc – type of material and external colour:	
Galvanised metal / steel – finished in Fir Green (RAL 6009)	
Equipment housing – type of material and external colour:	
Galvanised metal / steel - finished in Fir Green (RAL 6009)	

Reasons for choice of design

The height of the mast has been decided by EE's Radio engineer as the lowest capable of providing the required coverage and thus any reduction of height would render the apparatus redundant.

In this regard, the size and design has been carefully chosen in order to minimise the visual impact of the proposal, with the slim line street pole considered the least visually intrusive structure readily found within urban areas, which over time become a part of the landscape setting as with all street furniture.

Technical Information

International Commission on Non-Ionizing Radiation Protection Declaration attached (see below) International Commission on Non-Ionizing Radiation Protection public compliance is determined by mathematical calculation and implemented by careful location of antennas, access restrictions and/or barriers and signage as necessary. Members of the public cannot unknowingly enter areas close to the antennas where exposure may exceed the relevant guidelines. When determining compliance, the emissions from all mobile phone network operators on or near to the site are taken into account. In order to minimise interference within its own network and with other radio networks, EE Ltd.'s operates its network in such a way the radio frequency power outputs are kept to the lowest levels commensurate with effective service provision As part of EE Ltd.'s network, the radio base station that is the subject of this application will be configured to operate in this way. All operators of radio transmitters are under a legal obligation to operate those transmitters in accordance with the conditions of their licence. Operation of the transmitter in accordance with the conditions of the licence fulfils the legal obligations in respect of interference to other radio systems, other electrical equipment, instrumentation or air traffic systems. The conditions of the licence are mandated by Ofcom, an agency of national government, who are responsible for the regulation of the civilian radio spectrum. The remit of Ofcom also includes investigation and remedy of any reported significant interference. The telecommunications infrastructure the subject of this application accords with all relevant legislation and as such will not cause significant and irremediable interference with other electrical equipment, air traffic services or instrumentation operated in the national interest.	<u>Yes</u>
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4. Technical Justification

Enclose predictive coverage plots if appropriate, e.g., to show coverage improvement. Proposals to improve capacity will not generally require coverage plots.

Reason(s) why site required e.g., coverage, upgrade, capacity:

The proposal has been sited and designed to provide greater mobile phone coverage and greater capacity for railway users, local residents, visitors, and businesses alike from an installation at this location. Should the proposed not proceed, this sector of rail and individuals residing in close proximity will have no or very little coverage. There are no available masts or building rooftops in this area that could be utilised in order to achieve the coverage into the required area. It must be noted that Emergency Services will also utilise this particular mast at a later date.

The submitted train survey results clearly show the lack of coverage in this area and the install of the site will rectify the problem.

GSM Coverage:

A mobile phone transmitter is designed to cover a specific area and links its coverage to the next site in the network, creating a patchwork of overlapping coverage 'cells' across the county. So, if a person is on the move, the network will transfer their calls from one site to the next. However, in certain areas there will be gaps between these cells, resulting in a loss of coverage. This can be for a variety of reasons, the most common being topography or buildings which block the path of the signal. Our network rollout programme is designed to identify and address these gaps within our coverage and ensure that people can use their phones whenever and wherever they are.

The distances between transmitter sites will depend on many factors, including the geography of the area, the number of buildings, the number of people living in the area and the growing demand for mobile services. As a result, the distance between sites can range from less than 1 kilometre in large urban areas to 8 kilometres in rural areas.

There is currently very limited provision of EE Ltd service in this area; As such, in order to provide greater mobile coverage to customers, including the Emergency Services, this application is submitted in order to improve coverage in this location.

3G/4G Rollout:

Data traffic is increasing and is forecast to continue to grow, as technology is developed to facilitate this. Services such as direct access to the Internet from a handset, downloading files from the office to a mobile laptop computer and videophones are now offered and expected by subscribers. These data services are commonly known as third generation or 3G services and fourth generation or 4G services.

These services are provided using a combination of UMTS and new generation GSM equipment. UMTS will provide very fast data rates, however for the network to work effectively we also need to provide an "umbrella" GSM network which is also capable of providing high speed data albeit at slower rates than UMTS. In addition, EE Ltd are soon to be responsible for the rollout of the new Emergency Services Network and the obligation is to provide the latest 4G services for data transfer, video footage and communications throughout the country. Such services can only be provided with an effective rollout of upgraded and new telecoms base stations and this site forms an integral aspect within the wider network provision.

Social Benefits:

Modern mobile communications aid social progress, which recognises the needs of everyone. These improvements manifest themselves in a number of ways:

- People are now just as likely to access the internet using a mobile connection as they are to have just a landline or to access the web through a fixed connection.
- Connecting to the Internet via a mobile device allows people to access a wide range of central and local government services; to do research for a school project or apply to university; to manage their bank account and pay bills; to apply for a job; or to buy groceries as well as a multitude of additional functions.
- Most Local Authorities' services are now available online. Most councils have recognised the growth of smartphone use and introduced mobile phone applications to provide instant access to services, or to allow residents to report litter, dumped rubbish, potholes and road repairs, or anti-social behaviour.
- Mobile devices enable flexible forms of working that provide opportunities to working parents or carers and help them achieve a better work life balance with both family and community benefits. By providing means of communication that improve convenience and enhance personal safety and security. This is especially important to vulnerable groups who may otherwise feel unable to participate in certain activities.

Customer Usage:

Overall, 94% of adults personally own/use a mobile phone with 52.4 million 4G mobile subscriptions. The proportion of adults in the UK with a smartphone has now reached 76% (as of 2017), with 18% of adults living in a mobile phone only home. Increasing coverage and take-up of higher speed 4G services is driving data use. The average volume of data consumed per subscriber per month is now 1.9GB.

This installation will provide essential services for users of the rail, residents and businesses within the immediate vicinity and the Emergency Services.

6.0 Site selection process – alternative sites considered and not chosen

Alternative sites were investigated and details provided within the accompanying supporting statement.

Contact Details

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Signed



Date

30/09/2022