

# IX WIRELESS LIMITED

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## 1. Site Details

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|-------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Reference         | Scheme 1 Pole 1                                                                                                                 |
| Location          | Adjacent to 39 Seddon Street, Manchester<br> |
| Type of equipment | 15m monopole, fibre cable, cabinet and feeder pillar                                                                            |

## 2. Site Selection

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| Has the area been explored for existing buildings to erect the equipment on?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes |  |
| Has the area been explored for masts or other structures to erect the equipment on?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes |  |
| <b>Site Selection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |  |
| <p>The National Planning Policy Framework clearly states that authorities should not question the need for the service, nor seek to prevent competition between operators. Notwithstanding this fact, the Applicant considers it to be important to explain the technical justification for the site and how the facility fits into the overall network.</p> <p>The site is required to supply hybrid, fixed wireless gigabit capable broadband, that utilises radio frequencies in the 5GHz spectrum to this area of Manchester. The overriding objective is to deploy the minimum number of masts to achieve the required coverage. In</p> |     |  |

accordance with that overriding objective, mast locations are chosen carefully within a highly constrained search area with only an extremely limited number of options. This particular location has been chosen based on network requirements for optimal coverage, consideration of access to power and footway width.

The siting is located in predominantly residential terraced housing offering similar potential locations. The chosen siting complies with the Cabinet and Pole Siting Guidelines and been located at the gable end of a terraced property, with no windows. There are street lighting columns of at least 8m in high already in situ in this area that are similar in structure to the proposed pole.

#### **Discounted options -**

In accordance with the sequential approach outlined in the National Planning Policy Framework (NPPF) following search criteria have been utilised. Firstly, consideration is always given to sharing any existing telecommunication structures in the area, secondly consideration is then given to utilising any suitable existing structures or buildings and thirdly sites for freestanding ground-based installations are investigated.

#### **Summary:**

IXW are in the process of rolling out its hybrid fixed wireless gigabit capable broadband that utilises radio frequencies in the 5GHz spectrum. Unlike mobile technology, our fixed wireless network requires line of sight and has signal limitations of up to 1km therefore cannot travel as far as the mobile frequencies currently in use. Antennae need to be installed at a height of at least 12m and achieve a 360 degree coverage.

IXW has no existing ground sites or structures in this area and cannot use any third party existing structures that provide installations for mobile operators given their positioning (which satisfies the technical requirements for mobile technologies but not fixed wireless technologies - radio frequencies used in 4G networks can pass through structures and do not require line of sight) and utilisation of any available space on any masts in appropriate areas for the deployment by the operator of 5G technologies.

There are no suitable tall buildings within the constrained search area.

#### **Other ground based locations**

The subject street pole location has been chosen carefully within a highly constrained search area (from a network coverage perspective) where there are only an extremely limited number of options.

Sites were considered and discounted at the following sites –

- 1 Randolph Street, discounted due to existing services in the footway and gable end windows
- 2 Brook Avenue, discounted due to existing services in the footway
- 42 Seddon St, discounted due to gable end windows

16 Matthew's Lane, discounted due to existing street furniture and air vents

### 3. Proposed site

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|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Does the siting adhere to the Cabinet Siting and Pole Siting Code of Practice, Issue 2, 2016?</b> | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| <b>Does the location have other vertical street furniture in the vicinity?</b>                       | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| <b>Does the location have other cabinets in the vicinity?</b>                                        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| <b>Summarise the impact on the locale</b>                                                            | <p>The proposed works on this site would qualify as a visual change to the area but are necessary to ensure full coverage and delivery of the service.</p> <p>The pole is slender in design that tapers towards the top and given the size and height of the antennae, positioned at least 12m high, they would be barely visible from the street. There are other existing vertical structures in the area.</p> <p>The works would respect and continue to maintain the appearance of the area, with the public benefits outweighing any perceived harm.</p> |  |