

Carmanhall Road Residential Development

Carmanhall Road
Sandyford
Dublin 18



Utilities report
IN2 Project No. D2005
25th January 2021
REV00

Revision History

Date	Revision	Description
25/01/2021	00	Initial issue for client review

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1.0 Executive Summary

This report summarises the existing Engineering Services infrastructure to the proposed development at Carmanhall Road Residential Development

The existing infrastructure connections have been identified. Existing connections to the building shall be disconnected and removed where applicable.

New infrastructure connections have been considered in the design of the proposed residential development and there are no issues with Infrastructure to supply the new development.

1 No. new ESB Double sub-station and 1 No. new ESB Single sub-station have been proposed within the footprint of the development.



Fig 1.1 ESB substation in new development

A comms frame room has been included in the basement for incoming Telecoms connections to incoming telecoms service provider city network infrastructures this includes EIR and Virgin.

The development will be served via a centralised plant room which will require a gas connection.

2.0 ESB Infrastructure

The site is well located with regards to ESB infrastructure. The ESB Networks drawing below indicates the network distribution capacity to Carmanhall Road.



Fig 2.1 ESB Networks Map of Site Surrounds

Initial contact has been made with the ESB and there are currently no issues with the provision of the required power to the proposed development.

An existing LV ESB underground connection shall need to be removed from the site.

1 No. new ESB Double sub-station and 1 No. new ESB Single sub-station have been proposed within the footprint of the development. These shall cater for all the electricity supplies required for the new development.

4.0 Telecoms - EIR

EIR infrastructure to the surrounding area is sufficient to service the development subject to final agreement with EIR.

There are a number of Ø100mm ducts running within the pavement either side of Blackthorn road. The same is true of Carmanhall road with a number of existing Ø100mm ducts running within the pavement on either side of the road.

There is currently a 1 No. Ø100mm duct serving the site which shall need to be removed to commence the construction phase of project.

It is proposed to provide a new Landlord comms room in the basement where all incoming Telecoms providers shall terminate their incoming cables. All existing EIR Cable connections shall be removed from the site and a new fibre cable connection shall be provided.

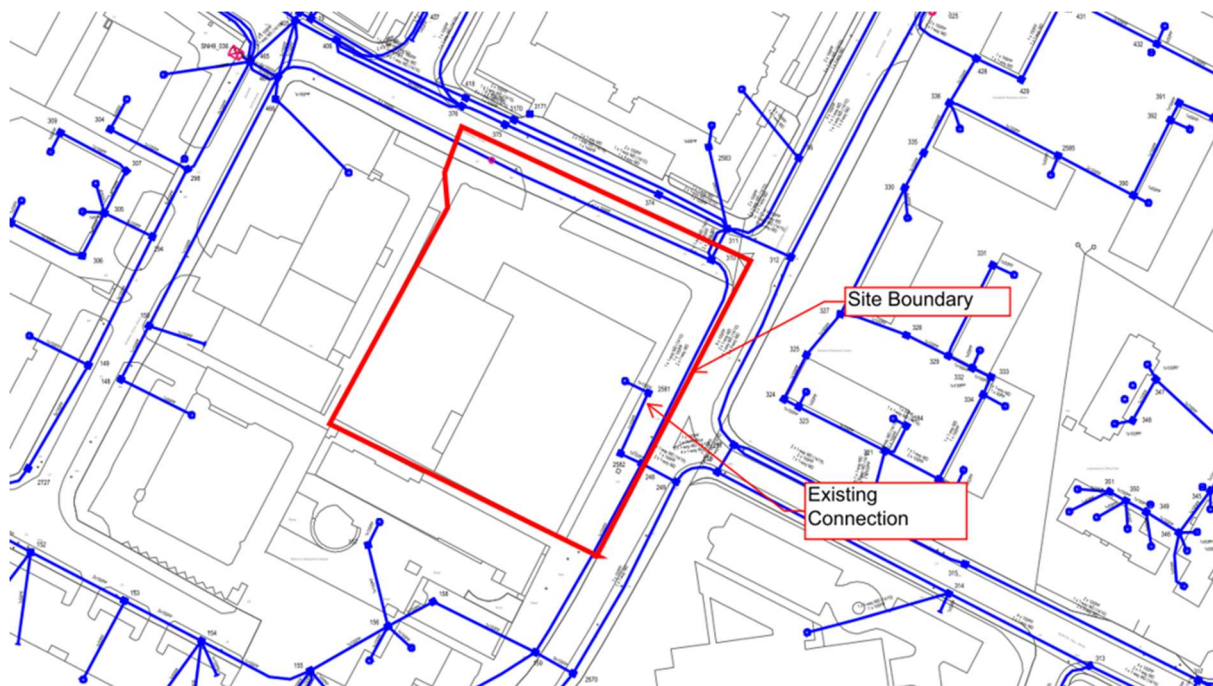


Fig 4.1 EIR Networks Map of Site Surrounds

5.0 Telecoms - Virgin Media

Virgin Media infrastructure to the surrounding area is sufficient to service the development subject to final agreement with Virgin Media.

There is currently a connection to the site that will be disconnected and removed prior to construction on the new development commencing.

There appears to be Virgin Media network ducting in the pavement to the east and west of the proposed development.

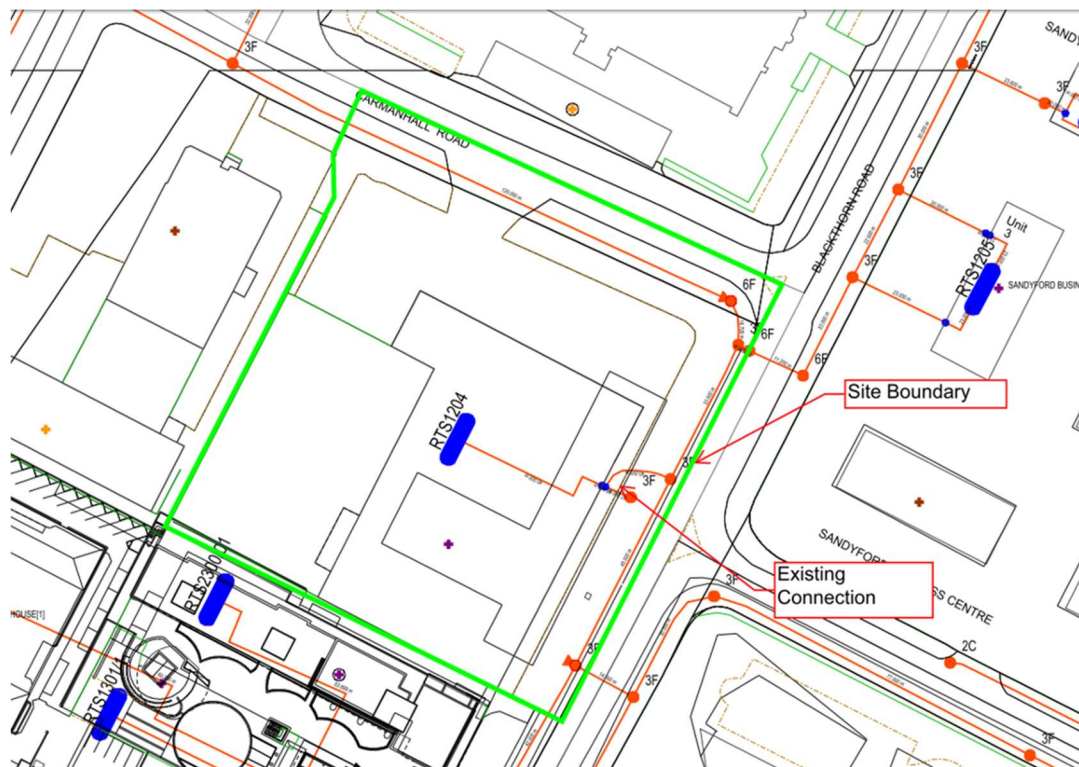


Fig 5.1 Virgin Media Network Map of Site Surrounds

It is proposed to provide a new Landlord comms room in the basement where all incoming Telecoms providers shall terminate their incoming cables. A new Virgin media chamber shall be required. This will be connected with a new duct to the basement for future incoming telecom services.

6.0 Public Lighting

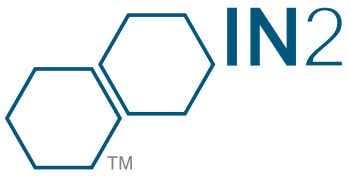
There are existing DLRCOCO Public lighting light standards located on the Carmanhall road and Blackthorn road. The Existing lighting columns may need to be relocated or replaced as part of new development, any changes will be agreed with Dun Laoghaire Rathdown Public Lighting department (DLRCOCO).



Fig 6.1 Existing DLRCOCO Public Lighting column on Blackthorn road



Fig 6.2 Existing DLRCOCO Public Lighting columns on Carmanhall road



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