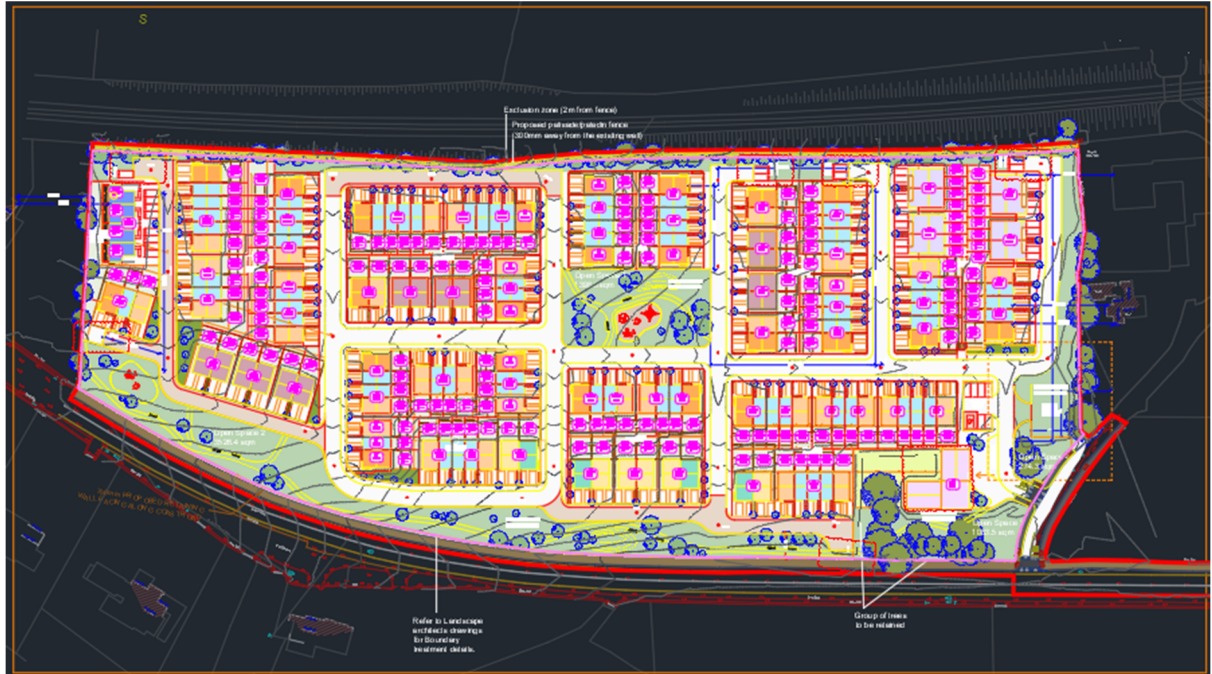


UTILITY SERVICES REPORT CARTRON, ORANMORE, GALWAY.



PL2345 UTILITY SERVICES REPORT

James Molloy

08/05/2024

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1. Introduction

This utility report was prepared to accompany the planning application for the proposed development at Cartron, Oranmore, Co. Galway. This report will outline the existing infrastructure and how the Cartron developments energy needs shall be serviced.

2. Development Description

Planning permission for the following Large Scale Residential Development (LRD) comprising the demolition of the existing shed and associated structures on site and the construction of 171 no. residential units, 1 no. creche and all associated development works including the provision of pedestrian/cyclist facilities along the R338 public road connecting to Oranmore rail station, 1 no. ESB substation, 1 no. pumping station, the undergrounding of the existing ESB sites traversing the site, footpaths, lighting, parking, drainage, bicycle and bin stores and landscaping/amenity areas at Cartron (townland), Oranmore, Co. Galway. Access will be via a new entrance on the L-71051 to the east.

3. ESB – Existing Electrical Infrastructure

The proposed development will be supplied by the existing ESB MV/LV cabling and the MV cabling infrastructure in the Cartron area.

Molloy Consulting Engineers Ltd. have engaged with ESB Networks, developed a load schedule for the scheme and mapped out a site substation scheme design.

There is an existing ESB Networks overhead LV line crossing the site to be diverted during the site works to the development which will be delivered as part of the project.



TITLE:

20240418-062_A0

COLOUR CODE:

- BLACK - 38KV & HIGHER VOLTAGE OVERHEAD LINES
- GREEN - MV(10KV/20KV) OVERHEAD LINES
- BLUE - LV (400V/230V) OVERHEAD LINES
- CYAN - 38KV & HIGHER VOLTAGE UNDERGROUND CABLE ROUTES
- RED - MV/LV (10KV/20KV/400V/230V) UNDERGROUND CABLE ROUTES

DATE: 18-Apr-2024

** SCALE: 1:1000

** SCALE WHEN PRINTED ON AN A0 PAGE
XY COORDINATES DISPLAYED IN IRISH GRID COORDINATE
SYSTEM

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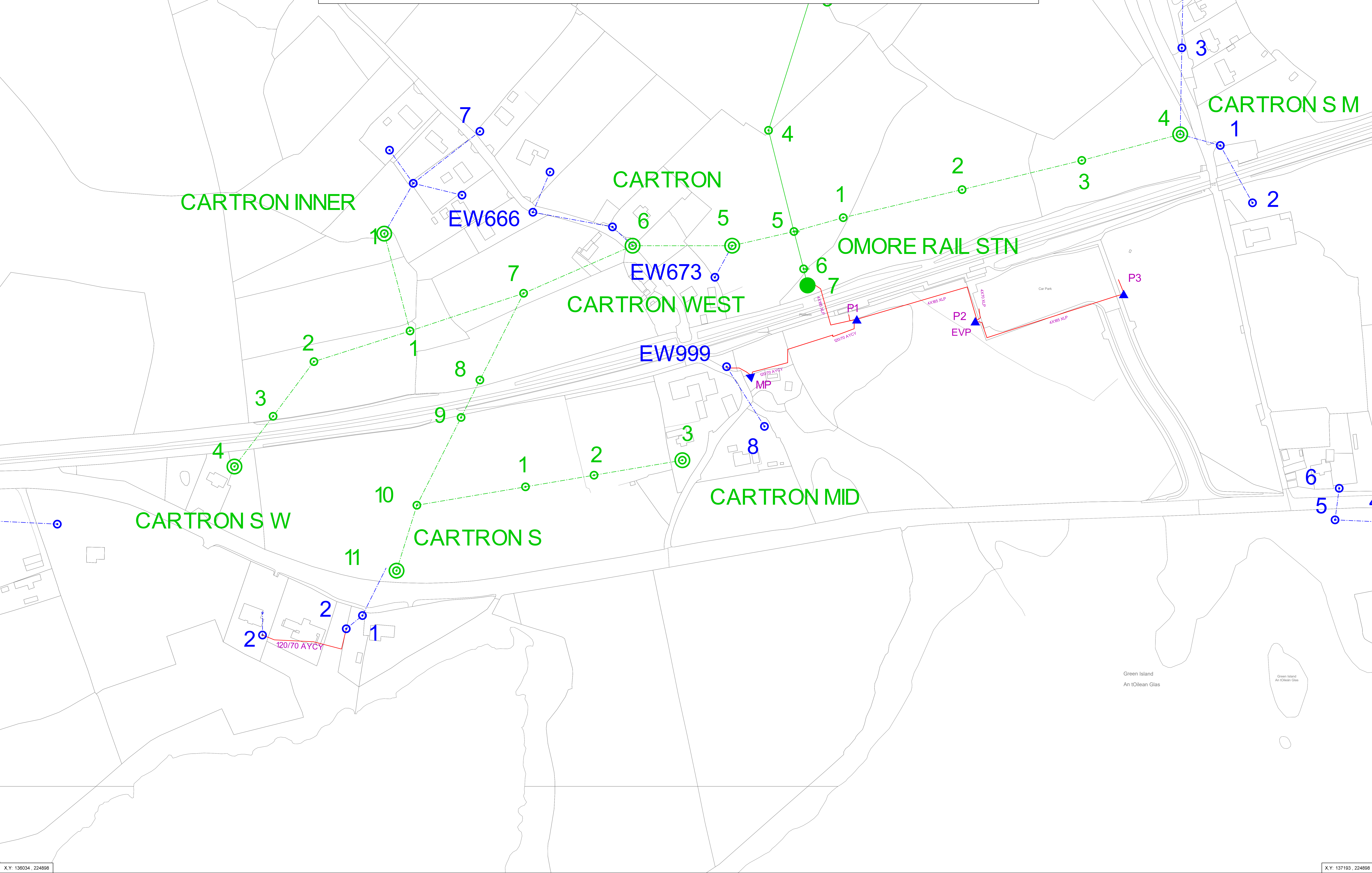
WARNING

THIS MAP INDICATES THE APPROXIMATE LOCATION OF ESB TRANSMISSION (400KV, 220KV, 110KV, 38KV) AND DISTRIBUTION (20KV, 10KV, 230V/400V) UNDERGROUND CABLES AND OVERHEAD LINES IN THE GENERAL AREA OF THE PROPOSED WORKS. ESB NETWORKS TAKES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE MAP. IT IS THE USER'S RESPONSIBILITY TO INDEPENDENTLY VERIFY THE INFORMATION AND THE LOCATION OF UNDERGROUND CABLES AND OVERHEAD LINES. LOW VOLTAGE (230V/400V) SERVICE CABLES (E.G. HOUSE SERVICES, FACTORY/SHOP SERVICES, PUBLIC LIGHTING LAMP SERVICES, ETC.) ARE NOT INCLUDED BUT THEIR PRESENCE SHOULD BE ANTICIPATED. THE DEPTHS OF UNDERGROUND CABLES MUST NEVER BE ASSUMED. ADDITIONAL MORE DETAILED INFORMATION IS AVAILABLE FOR HIGH VOLTAGE TRANSMISSION UNDERGROUND CABLES (38KV, 110KV, 220KV, 400KV) FROM THE LOCAL ESB NETWORKS TRANSMISSION REPRESENTATIVE. SEE ATTACHED LIST FOR CONTACT DETAILS OR CALL 1800 372 757. NO WORK SHOULD BE CARRIED OUT IN THE VICINITY OF 38KV OR HIGHER VOLTAGE UNDERGROUND CABLES WITHOUT PRIOR CONSULTATION WITH ESB NETWORKS. BEFORE ANY MECHANICAL EXCAVATION IS UNDERTAKEN, THE ACTUAL LOCATION OF ALL UNDERGROUND ELECTRICITY CABLES MUST BE ESTABLISHED AND VERIFIED ON THE SITE USING: (A) UP-TO-DATE MAP RECORDS; (B) CABLE LOCATOR EQUIPMENT OPERATED IN BOTH POWER AND RADIO MODES; (C) CAREFUL HAND DIGGING OF TRIAL HOLES USING 'SAFE DIGGING PRACTICE'. REFER ALSO TO 'HSA CODE OF PRACTICE FOR AVOIDING DANGER FROM UNDERGROUND SERVICES'. ESB TAKES NO RESPONSIBILITY FOR AND SHALL BEAR NO LIABILITY, HOWSOEVER ARISING, IN RELATION TO ANY DAMAGE, INJURY/DEATH OR LOSS OF SUPPLY AS A RESULT OF DAMAGE OR INTERFERENCE WITH ITS NETWORKS.

X,Y: 136034 , 225666

ESB NETWORKS HAS ISSUED THIS MAP AS A PDF DOCUMENT. IF VIEWING A PAPER VERSION OF THIS MAP, THE VIEWER MUST ENSURE THAT IT HAS BEEN PRINTED IN COLOUR TO FIT TO AN A0 (OR LARGER) PAGESIZE AND THAT EACH OF THE COLOURS INDICATED ON THE COLOUR CODE LEGEND ABOVE ARE CLEAR AND DISTINCT FROM EACH OTHER TO MAINTAIN A CORRECT REPRESENTATION OF THE ELECTRICAL NETWORK INFORMATION.

X,Y: 137193 , 225668



X,Y: 136034 , 224898

X,Y: 137193 , 224898

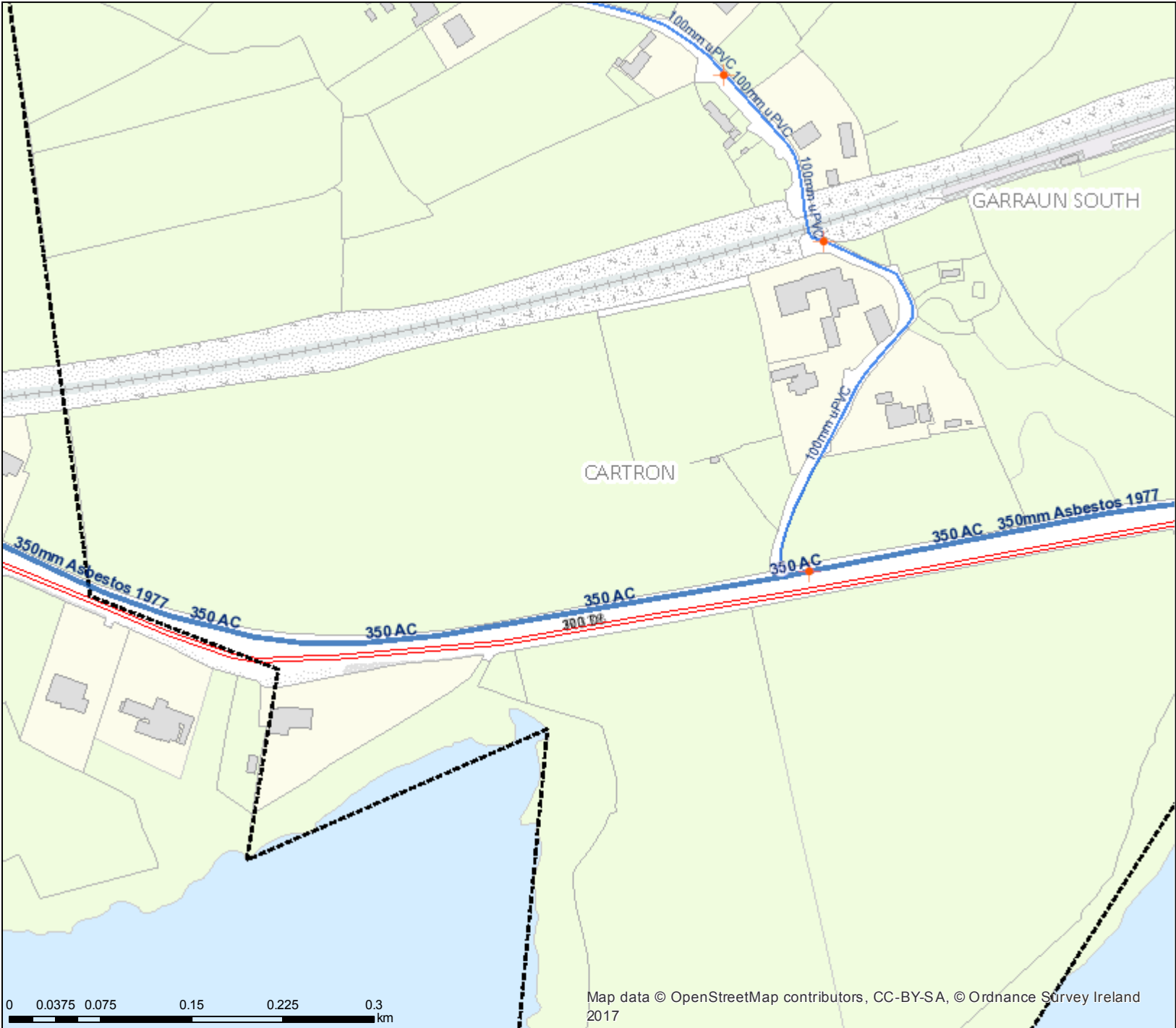
4. Bord Gais – Existing Gas Infrastructure

The houses are to be heated with air-source heat pumps, which use electricity. Furthermore, the kitchens of the units will be fitted with electric ovens and stoves. Thus, there is no need for the proposed development to be connected to the existing gas network infrastructure.

Molloy Consulting Engineers has engaged with Gas Networks Ireland.

There is no existing gas infrastructure in the area to be diverted or altered as part of the project.

Irish Water Web Map



Print Date: 20/03/2023

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NOTE: DIAL BEFORE YOU DIG Phone: 1850 427 747 or e-mail dig@gasnetworks.ie - The actual position of the gas/electricity distribution and transmission network must be verified on site before any mechanical excavating takes place. If any mechanical excavation is proposed, hard copy maps must be requested from GNI re gas. All work in the vicinity of gas distribution and transmission network must be completed in accordance with the current edition of the Health & Safety Authority publication, 'Code of Practice For Avoiding Danger From Underground Services' which is available from the Health and Safety Authority (1890 289 389) or can be downloaded free of charge at www.hsa.ie.

Water Distribution Network <ul style="list-style-type: none">Water Treatment PlantWater Pump StationStorage Cell/TowerDosing PointMeter StationAbstraction PointTelemetry KioskReservoir<ul style="list-style-type: none">PossibleRaw WaterWater Distribution Mains<ul style="list-style-type: none">Irish WaterPrivateTrunk Water Mains<ul style="list-style-type: none">Irish WaterPrivateWater Lateral Lines<ul style="list-style-type: none">Irish WaterNon IWWater CasingsWater Abandoned Lines<ul style="list-style-type: none">Boundary MeterBulk/Check MeterGroup SchemeSource MeterWaste MeterUnknown Meter - Other MeterNon-ReturnPRVPSVSluice Line Valve Open/ClosedButterfly Line Valve Open/ClosedSluice Boundary Valve Open/ClosedButterfly Boundary Valve Open/ClosedScour ValvesSingle Air Control ValveDouble Air Control ValveWater Stop ValvesWater Service ConnectionsWater Distribution ChambersWater Network JunctionsPressure Monitoring PointFire HydrantFire Hydrant/WashoutWater Fittings<ul style="list-style-type: none">CapReducerTapOther Fittings	Sewer Foul Combined Network <ul style="list-style-type: none">Waste Water Treatment PlantWaste Water Pump StationSewer Mains Irish Water<ul style="list-style-type: none">Gravity - CombinedGravity - FoulGravity - UnknownPumping - CombinedPumping - FoulPumping - UnknownSyphon - CombinedSyphon - FoulOverflowSewer Mains Private<ul style="list-style-type: none">Gravity - CombinedGravity - FoulGravity - UnknownPumping - CombinedPumping - FoulPumping - UnknownSyphon - CombinedSyphon - FoulOverflowSewer Lateral Lines<ul style="list-style-type: none">Sewer CasingsSewer Manholes<ul style="list-style-type: none">StandardBackdropCascadeCatchpitBifurcationHatchboxLampoleHydrobrakeOther; UnknownDischarge Type<ul style="list-style-type: none">OutfallOverflowSoakawayOther; UnknownCleanout Type<ul style="list-style-type: none">Rodding EyeFlushing StructureOther; UnknownSewer Inlets<ul style="list-style-type: none">CatchpitGullyStandardOther; UnknownSewer Fittings<ul style="list-style-type: none">Vent/ColOther; Unknown	Storm Water Network <ul style="list-style-type: none">Surface Water Mains<ul style="list-style-type: none">Surface Gravity MainsSurface Gravity Mains PrivateSurface Water Pressurised MainsSurface Water Pressurised Mains PrivateInlet Type<ul style="list-style-type: none">GullyStandardOther; UnknownStorm Manholes<ul style="list-style-type: none">StandardBackdropCatchpitBifurcationHatchboxLampoleHydrobrakeOther; UnknownStorm Culverts<ul style="list-style-type: none">Storm Clean OutsStormwater ChambersDischarge Type<ul style="list-style-type: none">OutfallOverflowSoakawayOther; UnknownGas Networks Ireland<ul style="list-style-type: none">Transmission High Pressure GaslineDistribution Medium Pressure GaslineDistribution Low Pressure GaslineESB Networks<ul style="list-style-type: none">ESB HV Lines<ul style="list-style-type: none">HV UndergroundHV OverheadHV AbandonedESB MVLV Lines<ul style="list-style-type: none">MV Overhead Three PhaseMV Overhead Single PhaseLV Overhead Three PhaseLV Overhead Single PhaseMVLV UndergroundAbandonedNon Service Categories<ul style="list-style-type: none">ProposedUnder ConstructionOut of ServiceDecommissionedWater Non Service Assets<ul style="list-style-type: none">Water Point FeatureWater PipeWater StructureWaste Non Service Assets<ul style="list-style-type: none">Waste Point FeatureSewerWaste Structure
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Important Safety Notice: Damage to gas pipelines can result in serious injury or death. Gas network information is provided as a general guide. The exact location and depth of medium or low pressure distribution gas pipes must be verified on site by carrying out necessary investigations, including, for example, hand digging trial holes along the route of the pipe. Service pipes are not generally shown but their presence should always be anticipated.

High pressure transmission pipelines are shown in red. If a transmission pipeline is identified within 10m of any intended excavations then work must not proceed before GNI has been consulted. The true location and depth of a transmission pipeline must be verified on site by a representative of GNI. Contact can be made through 1800 427 747.

All work in the vicinity of the gas network must be completed in accordance with the current edition of the Health and Safety Authority publication, 'Code of Practice For Avoiding Danger From Underground Services' which is available from the Health and Safety Authority (0818 289 389) or can be downloaded at www.hsa.ie.

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Aurora Telecom Duct

Aurora Telecom Sub Duct

Aurora Telecom Inserted Gas Pipe

Aurora Telecom Queries - 01-8926166 (Office Hours)
Aurora_Network_Queries@gasnetworks.ie
Aurora Telecom Emergency Only 1800 427399 / 01 2030120

Transmission Pipe (High Pressure)

Transmission Pipe (Construction Issue)

Distribution Pipe (Medium Pressure)

Distribution Pipe (Low Pressure)

Service Pipe (Medium Pressure)

Service Pipe (Low Pressure)

Strategic Pipe (Medium Pressure)

Strategic Pipe (Low Pressure)

Inserted

Abandoned Pipe

C=?

Cover (depth in metres)

Pressure Monitor

CP

CP Test Point

Protection (Slabbing)

End Cap

Protection (Sleeve)

Hot Tap

Reducer

Installation

Service Terminator

Valve

Tee

Mains Verification**

Transition

** Please contact GNI on 1800-427747 for specific information

DIAL BEFORE YOU DIG
1800 42 77 47
In Emergency call 1800 20 50 50

GAS NETWORK INFORMATION

Description: test

Location: 536449,725225

Plot Date: 15/04/2024 10:47

Plotted By: 7552

Scale: 2500 @ A3

Ref ID: 7552_15042024104724

5. Media & Communication Providers – Existing Infrastructure

The proposed Cartron development is currently enabled with six way media and communication ducting layout to bring all the major utility providers into the scheme. Please see drawing PL2345-E-102.