BARRETT MAHONY CONSULTING ENGINEERS CIVIL & STRUCTURAL

























PARKING AND MOBILITY STUDY

PROPOSED MIXED USE RESIDENTIAL DEVELOPMENT,
THE CONCORDE INDUSTRIAL ESTATE, NAAS ROAD, WALKINSTOWN, DUBLIN 12

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DOCUMENT LEAD SHEET PAGE 1 OF 41

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PROJECT: PARKING AND MOBILITY STUDY FOR MIXED USE RESIDENTIAL

DEVELOPMENT AT CONCORDE INDUSTRIAL ESTATE, NAAS

ROAD, WALKINSTOWN, DUBLIN 12

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PARKING AND MOBILITY STUDY
FOR MIXED USE RESIDENTIAL DEVELOPMENT AT
THE CONCORDE INDUSTRIAL ESTATE, NAAS ROAD, WALKINSTOWN, DUBLIN 12

Document No.: 18.232-PMS-05 Page: 2 of 41

Proposed mixed use, commercial and residential development, Concorde Industrial Estate, Naas Road, Walkinstown, Dublin 12

Parking and Mobility Study

Client: Development Ocht Limited

Barrett Mahony Consulting Engineers

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November 2018

Document No.: 18.232-PMS-05 Page: 3 of 41

TABLE OF CONTENTS

1.0	ITRODUCTION	4
2.0	USTAINABILITY OF CAR PARKING PROVISION AT THE PROPOSED DEVELOPMENT	6
2.	INTRODUCTION	6
2.	CAR AND CYCLE PARKING REQUIREMENTS AS PER DUBLIN CITY COUNCIL DEVELOPMENT PLAN	
	2.1 Provision versus maximum requirements	
	2.2 Provision of dedicated Car Club parking spaces	7
2.	CAR PARKING REQUIREMENTS FOR THE RESIDENTIAL COMPONENT BASED ON NEW APPARTMENT	
G	DELINES	8
2.	PROJECTED CAR USAGE IN GENERAL PROXIMITY TO PROPOSED DEVELOPMENT	9
2.	MODAL SPLITS FOR THE PRIVATE CAR - 2017 CANAL CORDON COUNTS DOCUMENT	10
2.	MODAL SPLIT FOR THE PRIVATE CAR – 2016 CENSUS RESULTS FOR ELECTORAL DISTRICTS IN THE VICINITY OF THE PROPERTY.	POSED
DE	LOPMENT	11
2.	CONCLUDING COMMENT	11
3.0	IOBILITY MANAGEMENT PLAN	12
3.	INTRODUCTION	
3.	GUIDANCE AND POLICY DOCUMENTS	
3.	STRATEGIC ACCESSIBILITY ASSESSMENT	
	3.1 INTRODUCTION	
	3.2 NAAS ROAD LOCAL AREA PLAN	
	3.3 MOVEMENT AND ACCESS	
3.	CONCORDE DEVELOPMENT MOBILITY STRATEGY	
	4.1 INTRODUCTION	
	4.2 WALKING MOBILITY	
	4.3 CYCLING MOBILITY	
	4.4 PUBLIC TRANSPORT MOBILITY	
	4.5 TRAVEL DISTANCE	
3.	CONCLUDING COMMENTS ON MOBILITY PLAN	29
4.0	VERALL CONCLUSIONS	30

APPENDIX 1 – SITE LAYOUT

APPENDIX 2 – CYCLE NETWORK PLAN

APPENDIX 3 – BUS CONNECTS ROUTE 9

APPENDIX 4 – BLEEPER BIKE LETTER OF INTENT

APPENDIX 5 – GO CAR LETTER OF INTENT

Document No.: 18.232-PMS-05 Page: 4 of 41

1.0 INTRODUCTION

Development Ocht Limited has commissioned Barrett Mahony Consulting Engineers to provide a Mobility Management Plan for the mixed-use Concorde Residential Development at Concorde Industrial Estate, Naas Road, Walkinstown, Dublin 12. The proposed development will consist of 8 No., above ground floor, levels extending across most of the site along with a single level basement. 492 no. apartments with a total of 31,024 m² and 3,327 m² of commercial space. A total of 238 no. car parking spaces will be provided, with 200 no. provided in the basement car park allocated to the residential units. 38 no. surface car parking spaces will be provided for the commercial units and this shall include 10 spaces allocated to a car club scheme. The development includes 516 no. bicycle parking spaces for the apartments and commercial units, located at basement and ground floor level. The apartment will be a "Build-To-Rent" (BTR) scheme with management on site. Appendix 1 has a full site layout and a permeability plan.

The apartment breakdown is as follows;

•	Studios	104
•	1 Bedroom	136
•	2 Bedroom (3 person)	21
•	2 Bedroom (4 person)	231

The purpose of the report is as follows:

- Propose a restricted car parking provision for the residential component of the development, arguing
 that the proposed provision is entirely sustainable given the current car ownership and modal splits for
 the journey to work for existing residents living close to the subject site, and
- Given this restricted parking provision, demonstrate the sustainability in transportation terms of residents utilising non-car based forms of travel by demonstrating the high level of service that is provided by the transport infrastructure in place at the site with regards to, walking, cycling, public bus services, LUAS, national rail, and other Services (taxis, Car-club)
- Identify both physical elements and strategies to be incorporated within the proposed new development
 which will facilitate and create incentives for both residents of and visitors to the development to use the
 available modes of public transport along with walking and cycling in preference over private car use.

Section 2 of this report will estimate the car and cycle parking requirement for the overall development, proposing that, for the commercial component, full effective compliance with the car and cycle parking requirements will be achieved. For the residential component, while the cycle parking requirements in accordance with DCC guidance will be achieved, a restricted car parking provision will be proposed. The sustainability of this level of car parking provision will be demonstrated using census and canal cordon survey data.

Section 3 contains the mobility management plan for the proposed development.

Section 4 makes some overall concluding comments.

The site is located at Concorde Industrial estate, adjacent to the Naas Road. To the south of the site is the Long Mile Road and to the west of the site is Walkinstown Avenue which runs onto the Kylemore Road. There are no major roads to the east of the site. The site and all notable landmarks can be seen in Figure 1-1 below.

Document No.: 18.232-PMS-05 Page: 5 of 41



Figure 1-1 – Site Location Map

Document No.: 18.232-PMS-05 Page: 6 of 41

2.0 SUSTAINABILITY OF CAR PARKING PROVISION AT THE PROPOSED DEVELOPMENT

2.1 INTRODUCTION

This section of the report will detail the car and cycle parking requirements for the proposed development based on the Dublin City Development Plan 2016-2022 and the Sustainable Urban Housing: Design Standards for New Apartments (Guidelines for Planning Authorities) was published by the Department of Housing, Planning and Local Government in March 2018.

The proposed car and cycle parking provision on site will then be detailed, highlighting in particular the intended low level of provision in relation to car parking for the residential component of the proposed development.

It will be argued that the proposed residential parking provision is entirely sustainable given the current car ownership and modal splits for the journey to work / college for existing residents living close to the subject site.

This low level of provision is also seen as being completely consistent with the mobility targets for Dublin city as detailed within the Dublin City Transport Plan and also consistent both with minimising the traffic impact of nearby already congested junctions (as detailed within the accompanying traffic impact assessment) and with maximising patronage of the extensive public transport and soft mode options (as detailed within this mobility plan).

2.2 CAR AND CYCLE PARKING REQUIREMENTS AS PER DUBLIN CITY COUNCIL DEVELOPMENT PLAN

2.2.1 Provision versus maximum requirements

Tables 2-1 and 2-2 below detail the maximum car and bicycle parking standards for Dublin City Council based on the rates contained within their 2016 - 2022 Development Plan Written Statement for the residential and mixed use / commercial components of the proposed development respectively. It is noted that the bicycle parking standard in the design guidelines for apartments specifies 1 bicycle space per bedroom and 1 bicycle space per visitor. However, this requirement has been acknowledged by DCC as excessive and the proposed bicycle parking provision for this development is based on DCC guidelines as noted below.

Development type	Area / units	Maximum car parking standards	Maximum parking required
Apartments	492 No.	1.0 per unit	492
		Bike parking standards	Parking required
Apartments	492 No.	1 per unit	492

Table 2-1: Parking required under Dublin City Council Development Plan Standards for residential component

Development type	Area / units	Maximum car parking standards	Maximum parking required
Crèche	347 m ²	1 per 200 m ² plus 2 drop off	4
Office	723 m ²	1 per 200 m ²	4
Retail	1410 m ²	1 per 275 m ²	6
Medical Clinic	518 m ²	2 per consulting room (12 No.)	24
TOTAL			38

Document No.: 18.232-PMS-05 Page: 7 of 41

		Bike parking standards	Parking required
Creche	347 m ²		
Office	723 m ²	1 per 100 m ²	8
Retail	1410	1 per 150m²	10
Medical Clinic	518 m ²	1 per 2 consulting room (12 rooms)	6
TOTAL			24

Table 2-2: Parking required under Dublin City Council Development Plan Standards for mixed use / commercial component

It is proposed to provide 200 No. car parking spaces for the residential component, equating to 0.41 car spaces per residential unit.

This level of provision is 41% of the quantum required under the Dublin City Development Plan maximum standards. However, this provision must also be viewed in relation to the New Apartment Guidelines, the level of compliance with which is detailed within the section immediately below.

It is proposed to provide 38 No. car parking spaces for the mixed use / commercial component of the proposed development. This level of provision is 100% of the quantum required under the Dublin City Development Plan maximum standards (38 No. spaces). This level of provision is seen as entirely sustainable given that a significant proportion of the trips to the mixed use / commercial component will be made by the residents of the apartment development (termed multi-purpose trips). Given the scale of the residential development, the proportion of multi-purpose trips will be substantial. Multi-purpose trips will also result from generated trips resulting in use of more than one of the mixed use / commercial outlets, say for example retail plus restaurant or retail plus gym. Multi-purpose trips at such developments can constitute up to 25% of total trips. The 100% provision is thus more than sufficient.

10 of the 38 No. ground level parking spaces will be dedicated for car club use only.

In terms of cycle parking provision, it is intended to provide 516 No. cycle parking spaces, 100% of the maximum requirement under the Dublin City Development Plan.

2.2.2 Provision of dedicated Car Club parking spaces

Use of private car is seen within this report as relating to its use for the journey to and from work during the morning and evening peaks. However, in many cases, residents require access to a parking space in order to have a car available to make non-work related trips for shopping and leisure purposes. Such trips can be very infrequent, therefore, the provision of dedicated car parking spaces for such usage constitutes an inefficient use of such resources.

Therefore, an alternative approach is proposed in order to cater for the non-trip-to-work-related car demand of residents at the proposed development. It is proposed to initially provide 10 No. car club vehicle spaces at ground floor level for communal use.

The demand will be monitored on an ongoing basis by those managing the development, and the number of spaces can be increased as required.

Car clubs typically operate with residents signing up to the service being able to reserve the use of the vehicle at certain times / days, paying a rental fee to do so, but saving the user the necessity of owning either a car or a parking space at the development.

Document No.: 18.232-PMS-05 Page: 8 of 41

The developer has discussed the potential for a car club base at the subject site with GoCar, an established car club operator in the Dublin area. Go Car have confirmed the feasibility of such a facility. A letter of Intent from Go Car for this development is included in APPENDIX 5.

Results of surveys carried out by GoCar indicate that use is predominantly for private rather than business use, with just less than 60% using the service to replace a private car. The average car is rented out for 1 hour per day. Shopping and leisure related trips were listed as top uses for GoCar.

The provision of 10 No. car club spaces will result in a number of benefits for residents at the proposed development:

- Elimination of the necessity to own a car (and the associated expense) where use of it will be relatively infrequent
- Access to car transport for those using a car infrequently

The provision of car club spaces is also consistent with section 4.23 of the 2018 Design Standards for New Apartments which states that 'for all types of location, where it is sought to eliminate or reduce car parking provision,' ... 'provision is to be made for alternative mobility solutions including facilities for car sharing club vehicles.'

2.3 CAR PARKING REQUIREMENTS FOR THE RESIDENTIAL COMPONENT BASED ON NEW APPARTMENT GUIDELINES

Sustainable Urban Housing: Design Standards for New Apartments (Guidelines for Planning Authorities) was published by the Department of Housing, Planning and Local Government in March 2018.

Section 2.2 of this report refers specifically to revised car parking requirements for new apartment developments.

Its recommendations can be summarised as follows:

The quantum of car parking is dependent primarily on the location of the subject site. Three categories of location are defined:

Central and/or Accessible Urban Locations:

Apartments in central locations that are well served by public transport, in which situation car parking provision to be wholly eliminated or substantially reduced. These locations are most likely to be in cities, within 15 minutes walking distance of city centres or centrally located employment locations. These locations include sites within 10 minutes walking distance of DART, commuter rail or Luas stops or within 5 minutes walking distance of high frequency (min 10 minute peak hour frequency) bus services.

Intermediate Urban Locations

This applies to apartments in suburban/urban locations served by public transport or close to town centres or employment areas and particularly for housing schemes with more than 45 dwellings per hectare. For this category, planning authorities may consider a reduced overall car parking standard.

Peripheral and/or Less Accessible Urban Locations

Apartments in relatively peripheral or less accessible urban locations will require one car parking space per unit, together with an element of visitor parking, such as one space for every 3-4 apartments.

It is reasonable to assume that the subject site comes within the second category – an intermediate area, 6 km from the city centre, located directly on the LUAS Red Line and the Naas Road Quality Bus Corridor, the sites designation within the second classification is entirely appropriate.

On the basis of this classification, it was concluded that a provision of between 0 and 1.0 parking spaces in total would be appropriate for the proposed development.

The actual car parking provision, at 200 No. spaces, equates to 0.41 No. car parking spaces per residential unit.

Document No.: 18.232-PMS-05 Page: 9 of 41

The section immediately below uses mobility information from the 2016 Census to justify this level of car parking provision at the proposed development.

2.4 PROJECTED CAR USAGE IN GENERAL PROXIMITY TO PROPOSED DEVELOPMENT

Car ownership levels and modal split data from the 2016 Census for Electoral Districts close to the subject site can assist in providing a case for the sustainability in transportation terms of only 41% of residents having access to a car space.

Such evidence can help demonstrate that potential overspill onto the local road network will not occur with the proposed level of car parking provision in place.

In order to demonstrate that the proposed quantum of car parking is sustainable and will not result in overspill, this report will assess existing demand for car ownership and car travel within the general environs of the subject site using 2016 Census data.

This data enables the proportion of households in the general vicinity of the subject site who do not own a car to be established as well as the proportion of commuters presently living in the area using the private car for their journey to work.

Data from individual electoral districts, overall figures for Dublin City and Canal Cordon Counts are utilised to support the proposed level of car parking provision.

Data has been obtained for the following 5 No. Electoral Districts in the general vicinity of the subject site:

- Walkinstown A (ED containing the Concorde development)
- Crumlin A
- Crumlin B
- Crumlin E
- Inchicore A
- Inchicore B

Table 2-3 below indicates the percentage of households in each of these ED's with no car.

Figure 2-1 contains a map showing the location of the 5 No. Electoral Districts close to the subject site.

Electoral District	Total No. of households	No. of households with no car	% households with no car
Walkinstown A	1043	299	30
Crumlin A	1439	471	33
Crumlin B	1183	395	33
Crumlin E	1070	382	36
Inchicore A	1025	337	33
Inchicore B	815	307	38
AVERAGE			33

Table 2-3: Car ownership levels in ED's close to proposed development

Document No.: 18.232-PMS-05 Page: 10 of 41

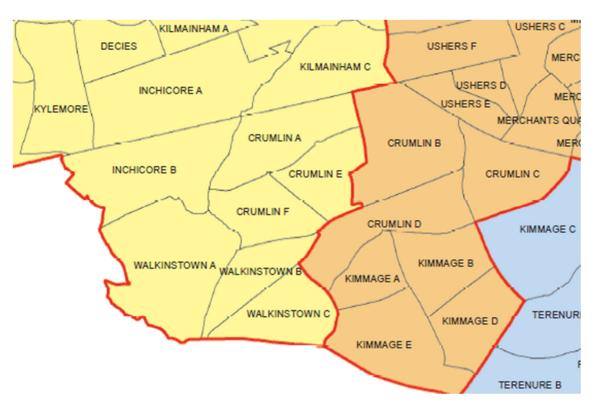


Figure 2-1: Electoral Districts in proximity to proposed development

Thus, the above figures demonstrate that one-third of the existing inhabitants of the area close to the proposed development do not own a car. Thus only 70% are in a position to make the journey to work by this mode of travel.

In order to analyse in detail the travel behaviour of commuters in the vicinity of the proposed development, let us look first at modal splits for commuters within the Dublin city area.

2.5 Modal splits for the private car - 2017 Canal Cordon Counts document

The results within this document detail the volume of vehicles and people crossing the Canal Cordon into Dublin city centre in the morning peak between 7am and 10am. The purpose of collecting this data is to track trends in the modes of travel people are using to travel to the city centre. It indicates the degree of success of various transport management measures / policies in changing commuter travel behaviour.

A comprehensive picture of the modes of travel of commuters was compiled for the period 2008 to 2017.

Table 2-4 below details the modal splits compiled for the 10 year period from 2008 to 2017:

		Percentage for each mode								
Mode	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Private car users	33.9	37.7	39.8	38.0	37.0	35.4	33.3	32.6	31.8	29.2
Pedestrians	9.2	7.8	8.3	7.9	9.2	9.1	10.2	9.4	10.5	11.8
Cyclists	3.1	3.4	3.3	3.7	4.3	4.7	5.4	5.4	5.9	5.9
Public transport	51.1	48.1	45.9	47.5	46.4	47.9	48.4	49.8	49.1	50.7

Table 2-4: Modal share for commuters crossing canal cordon 2008 to 2017.

It can be seen that car usage has gradually reduced over the past 10 years, with the modal split for private car usage now below 30%, with public transport at just above 50%.

Document No.: 18.232-PMS-05 Page: 11 of 41

The 2016 census figures for Dublin City indicates a modal split for the private car in the region of 32%, slightly higher than the 2017 canal Cordon results. This is entirely consistent with the ongoing reduction of this modal split on a year-on-year basis.

2.6 Modal split for the private car – 2016 Census results for Electoral Districts in the vicinity of the proposed development

Table 2-5 contains the modal splits for car, bus and LUAS / Rail travel for the 6 No. Electoral Districts close to the subject site whose car ownership levels were detailed within Table 2.4.

Mode	CAR DRIVER (%)	BUS (%)	LUAS/TRAIN (%)	CYCLING (%)	WALKING (%)
Walkinstown A	42	17	8	8	9
Crumlin A	41	13	15	8	10
Crumlin B	38	13	10	11	14
Crumlin E	38	16	9	9	13
Inchicore A	32	14	16	11	11
Inchicore B	31	8	17	5	11
Average	37	14	13	9	11

Table 2-5: Modal splits for electoral districts in vicinity of subject site

Thus, for the existing inhabitants in 6 No. Electoral Districts close to the subject site, 37% commute by private car as detailed within the 2016 Census, with 25% commuting by bus, train or LUAS and 20% cycling or walking.

These figures are critical in two respects. Firstly it demonstrates that providing car parking for 41% of occupants of the proposed development is entirely sustainable, given that the 2016 census indicated a modal split for provide car use for the journey to work for the general area of 37%, and given that, as indicated by the year-on-year canal cordon counts, this figure has, in all probability, reduced in the intervening two years to 2018.

Also, it would be reasonable to assume that improving access to the bus, LUAS, and cycle greenways from the subject site, as proposed within this report, will result in increased usage of public transport and soft modes, presently at 27% and 20% respectively for the Electoral Districts close to the subject site, and a consequent decrease in the use of the private car for the journey to work.

2.7 CONCLUDING COMMENT

This section of the report demonstrates that, given existing travel patterns close to the subject site, and its designation within the New Apartment Guidelines as an 'intermediate area' within close proximity to a high frequency major rail line, a parking provision of 0.41 No. car parking spaces per dwelling unit is sustainable. The allocation of 10 No. dedicated car club spaces will further aid the sustainability of this parking provision.

This low provision will have the effect of minimising the traffic impact of the proposal, an effect referred to in detail within the accompanying traffic assessment. This is very significant given the levels of congestion at the major junctions in proximity to the proposed development.

However, providing a limited number of car parking spaces places an onus on the applicant to demonstrate that the site is configured in such a manner that enables all residents at the proposed development to commute to work by means of a sustainable mode of travel other than the private car.

The remaining sections of this document seek to demonstrate that such is the case for the proposal at Concorde Industrial estate.

Document No.: 18.232-PMS-05 Page: 12 of 41

3.0 MOBILITY MANAGEMENT PLAN

3.1 INTRODUCTION

A Mobility Management Plan (MMP) is a long term management strategy covering a selected location with the aim to promote and deliver sustainable transport objectives. A Mobility Management Plan consists of a package of measures put in place by an applicant in order to encourage and support more sustainable travel patterns among both residents and visitors at the proposed development.

The package usually includes measures to promote and improve attractiveness of using public transport, cycling, walking, car-sharing / car clubs. It should be considered a dynamic process where a package of measures are identified, piloted and monitored on an ongoing basis.

A MMP prepared at planning stage, before the development is built and occupied, can only highlight potential issues to be included in a subsequent MMP to be prepared once the development has obtained a grant of planning permission and is built and occupied.

The environmental and congestion impacts of car-based transport has resulted in policy changes where the priority of more sustainable forms of travel has increased. The MMP helps to encourage use of modes of travel other than the private car.

The proposed development at the Concorde Industrial Estate both benefits and suffers from its location on the major traffic artery of the Naas Road which carries heavy traffic volumes, a Luas line and a quality bus corridor (QBC). As highlighted in the Naas Road Lands Local Area Plan, no additional capacity can, or will be, made available to private vehicles and, as a result, a major objective of the Local Area Plan and subsequently, this Mobility Management Plan, is to encourage as much movement as possible by public transport, cycling and walking.

MMP's are intended to bring the following benefits:

- Greater accessibility of the site.
- Encouraging safe and viable alternatives for accessing the site.
- Pragmatic initiatives based on appraisal of residents' and visitors travel patterns.
- Reduced overall vehicle mileage and trip volumes.

As noted, the proposed scheme is a BTR scheme. The advantage of such a scheme is that the apartments are managed on site and the availability and the use of car alternatives can be more easily highlighted to residents and visitors alike. A member of staff can be appointed as a mobility manager to encourage residents and visitors away from car usage and towards sustainable transport alternatives.

3.2 GUIDANCE AND POLICY DOCUMENTS

This report was developed with guidance from the documents listed below;

NATIONAL POLICY

Smarter Travel A Sustainable Transport Future 2009 – 2020

- The governments transport policy for the future which targets transportation. It promotes greater integration between spatial planning and transport policy. The aim is to reduce car based commuting from 65% to 45% by 2020.

National Cycle Policy Framework 2009

- The National Cycle Policy Framework NCPF sets out a national policy for cycling to create a stronger cycling culture and a friendlier environment for cyclists. Dublin City Council aims to increase mode shares by cycling to reach a minimum target of 25% by 2020.

Regional Planning Guidelines for the Greater Dublin Area

- Transport policy and prioritised infrastructure investment are critical to the success of the Greater Dublin Area in terms of connectivity to international and indigenous markets, the movement of

Document No.: 18.232-PMS-05 Page: 13 of 41

people and goods and providing a range of transport modes to ensure efficient and sustainable travel patterns and which provide value for money.

LOCAL POLICY

Dublin City Development Plan 2016-2022

- Movement and Transport Policy 13 (MTP13) states that Dublin City Council will promote best practice Mobility Management and Travel Planning.
- Movement and Transport Objective 24 (MT024) states that Dublin City Council will review and monitor plans.

Greater Dublin Area Draft Transport Strategy 2011 - 2030 : 2030 Vision

The goal of the strategy is to support the greater Dublin area in meeting its potential as a competitive, sustainable city region with a good quality of life for all.

Cycling Policy

- The Council Cycling Policy, adopted in June 2010, provides local guidelines on the delivery of the aims and objectives of the National Cycle Policy Framework 2009-2020.

National Transport Authority's Transport Strategy for the Greater Dublin Area 2016–2035

 This sets out the integrated long-term strategy for the area and includes new proposals such as DART and LUAS extensions.

Naas Road Lands – Local Area Plan

The Naas Road Lands Local Area Plan outlines several objectives to encourage a greater use of public transport as well upgrading the pedestrian and cycling experience by provision of more direct routes, upgrading the quality of existing routes, provision of additional pedestrian crossings and upgrades to key road junctions to improve pedestrian and cycling viability.

3.3 STRATEGIC ACCESSIBILITY ASSESSMENT

3.3.1 INTRODUCTION

This section of the report assesses the existing transport infrastructure within the confines of Naas Road Local Area along with a review of the policies and objectives of the Local Area Plan, which will be used to inform the design of The Concorde Industrial Estate development, with respect to mobility, for residents, visitors and the wider community.

Figures 3-1 and 3-2 detail the extent of the lands covered by the Naas Road LAP.

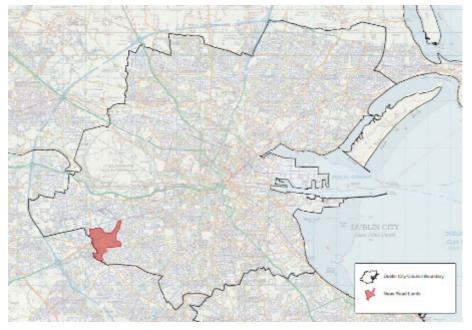


Figure 3-1 - Dublin Land Area Extract

Document No.: 18.232-PMS-05 Page: 14 of 41

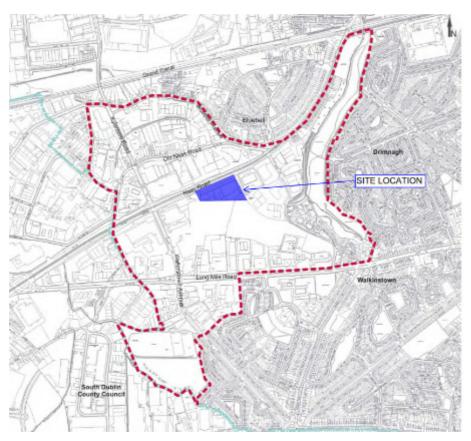


Figure 3-2 - Naas Road Local Area Plan - Site Location

3.3.2 NAAS ROAD LOCAL AREA PLAN

The Naas Road Local Area Plan was formally adopted in 2013 by Dublin City Council. This plan builds upon the initial strategic plan for the area published in 2009 and the content contained within the Dublin Development Plan 2011-2017 (currently 2016-2022). On the 6th of November 2017 the city council voted to extend this plan to January 2023.

Vision for the Naas Road Lands:

"To create a great place to work and live and create a new urban identity for the Naas Road lands area plan by regenerating existing development lands as a sustainable mixed use area, capitalising on the area's locational advantages and improving the relationship of the lands to their immediate surroundings through improved linkages, green infrastructure and permeability. As part of this transformation there will be an increase in the range of land-uses, and improvements in the visual environment, resulting in an increase in street level activity and general revitalisation of the area".

3.3.3 MOVEMENT AND ACCESS

EXISTING ACCESSIBILITY

As can be seen from Figure 3-3 below, the permeability of the Naas Road area is restricted by the presence of predominantly large land holdings with impermeable boundaries. Road crossings for pedestrians and cyclists are generally limited to major road junctions. While the Naas Road provides a major arterial route to and from the city, containing extensive public transport facilities in both the Luas Red line and a Quality Bus Corridor (Figure 3.4), the area is at or near capacity for private car vehicles and the accessibility to those public transport options is restricted by the aforementioned impermeable boundaries and limited crossings. On the whole, the current environment for pedestrians, cyclists and those availing of public transport is difficult and unattractive.

Document No.: 18.232-PMS-05 Page: 15 of 41

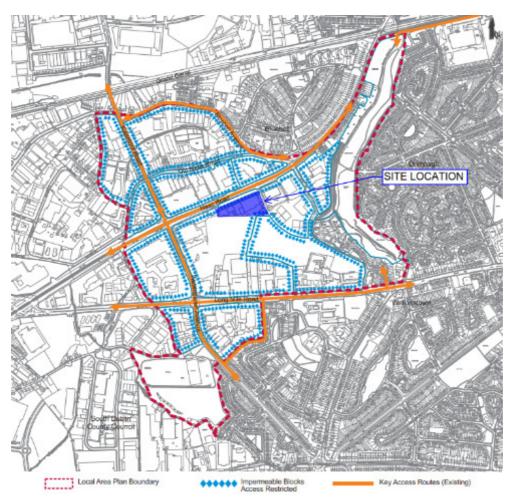


Figure 3-3 – Local Area Plan Extract – Existing Accessibility

Document No.: 18.232-PMS-05 Page: 16 of 41

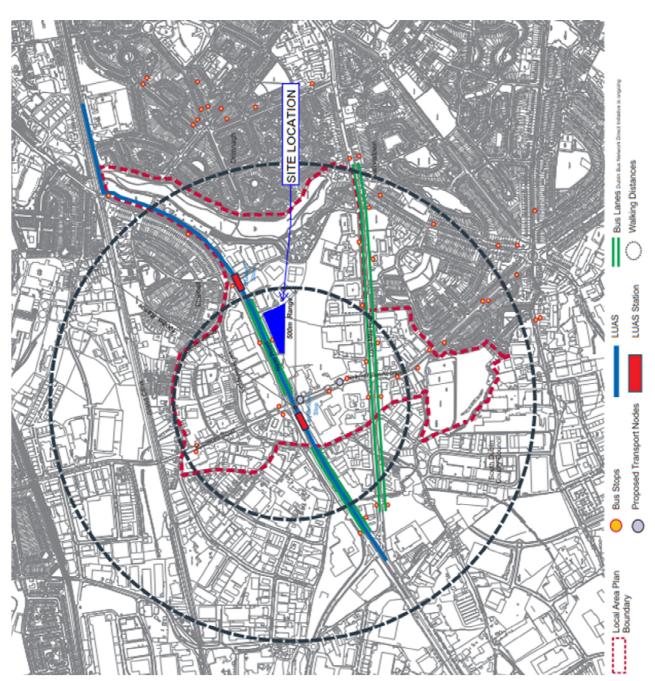


Figure 3-4 – Local Area Plan Extract – Existing Public Transport Provisions Measured from the Naas Rd/Walkinstown Ave Junction

LOCAL AREA PLAN POLICIES AND OBJECTIVES

The policies and objectives of the Local Area Plan in relation to movement and access are contained in Figure 3.5 while the proposed pedestrian linkages and green infrastructure strategy maps are contained in Figures 3.6 and 3.7 below, respectively. The over-riding objective of the Local Area plan is to deliver quality movement and access infrastructure that prioritises public transport, cyclists and pedestrians, while managing an appropriate role for the car. To achieve the objectives and policies of section 4.4 of the Local Area Plan, significant improvements to permeability and accessibility in and around Naas Road lands development sites are required.

In order to comply with the requirements of the Local Area Plan, the Mobility Management Plan for the proposed the Concorde Industrial Estate Development must address the specific measures which can be incorporated into the development, within the confines of the areas forming part to the development, which can positively contribute to achieving the objectives contained in the Local Area Plan.

Movement and Access Policies

- MAT. To provide for a new high quality perbettion and cycle network within the LAP time which will connect existing and new committee and rectifier the channels of the LAP area including (i) creation of new appropriate green realize within the LAP area; (ii) improvement and upgrading of existing outside LAP area; (iii) improvement and increased number of personal installation of existing outside crossings on main mosts, and (iv) connect into existing and phoned networks, surrounding the LAP area.
- MA2. Increase permeability to existing public transport mutes by providing attractive, logitile and direct waiting and cycling links to bus and Lucre stops.
- ARA. To protect the role of the key strategic roads within the LAP area as that they certinual to serve and bands, the city operance by whilst also sending visual improvements to these notices so that they are more orban in chanacter and proceed batter reservent for the public but envises will any them. Near vehicular appearance points onto the Napa-Road cannot be accommodated as this would impact on the athelegic role of this important house.
- WA4. Ensure that sustainable development within the LAP area is cognition of the planning of the plan area to the play centre and to existing and future public transport information and that respectful densities, access points, layouts, are consulted with first.
- MAS. To insure integration between the LAPIants with initiatives such as "Smarter Trans" and smalegie cycle males correcting South Dublin Clay and to develop improved correction; to servanding continuation including "Nutlimations. Biolightmost, Committee Collection."

Movement and Access Objectives

- NAD1. To create a poult-resident-most linkeges from Long Mée Poud and Landschown Wiley Pair to the Nase Road and it the Chard Care to provide cycling connections to the Care Mey and to provide chiral links through the LAP area to the Lises and bus services on the Macs Road.
- NADZ. To create new podestrian and cycle linkages on an seal west zold connecting Robinhood Road through the key siles to Landadown's Valley, Nasa Food and Denmagh, Isaa Chapter's forderally.
- NAOS. To seek the delivery of improved pedestrian and cycle endocrateria, with green influetracture along Kylemore Road, Waldestown Avenue and Long Wile Road. (see Section 4.8 for further delibb).
- NAG4. To implement pedecirian infractructure improvements along the Nasa Road to facilitate and increase apportunities for crossing
- NAOS. To identify fainting for key movement and access or hancements through the Sustainable Transport Measures Grant's epidem and other measures opported by the Matienal Transport Guindrify with a view to protrately a number of improvements proposed in that IAP that all introduce with nacking projects.
- NAOS. To provide good quality and of trip facilities to encourage welking and cycling ruch as secure and weather proof blas stands, lockers, showers changing and drying rooms.
- NADT. To ensure that all new routes, inclusive of those excommedating traffic, shall be designed and constructed in a manner that will fee itself the safe and days recoverant of packabinans and cycleta.
- NACE. To work with all relevant providers to facilitate a quality bus, pedestrian and cycling link on a north-scath wate (Sphanour Recoll Walderstown Avenue), who could capability and associated interchange potential between bus, heavy sail and Luas.
- WAGS. To create a through access in Landedowne Veiley Park, linking Dovid Road in the north with the Long Mile Road in the south and after creating a western access to link to Drinnigh Ceatle and Workshowen Avenue.

- WA019. To facilitate works along the Nass Reacht at will reduce traffic insists and interest softly for pedestran and open users and facilitate and interest insight in the analysis consists brinded pay works, pubblicated in enhancement, reconfiguration of the companyon and provides on it when the provides and in design provides of the companyon and provides on it when the provides and the provides of the companyon of the provides of its design provides crossing among the Nass Road.
- MAOTI. Can perforg provision whall reflect the accomplife reduce of the area of a stable transport, both existing and proposed, with the example observation or constitution with the paramage authority through a Transport Assessment prepared as part of the planning accomplish.
- MAC12. To locar and support a pro-active mobility management approach and a outque of sustainable travel in new and existing developments.

Figure 3-5 - Local Area Plan Extract - Movement and Access Policies and Objectives

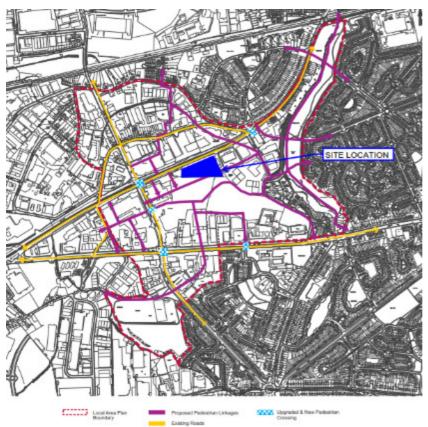


Figure 3-6 - Local Area Plan Extract - Proposed Pedestrian Linkages

Document No.: 18.232-PMS-05 Page: 18 of 41

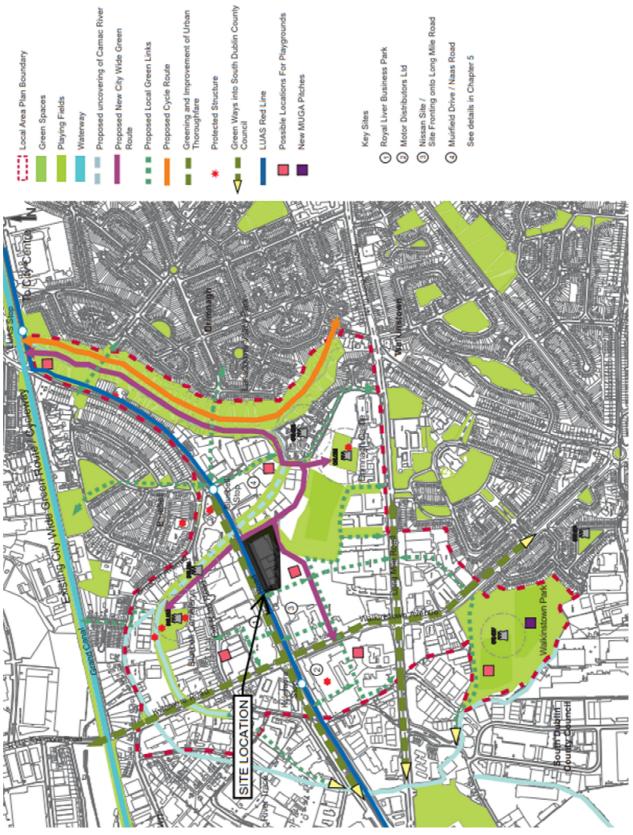


Figure 3-7 – Local Area Plan Extract - Proposed Accessibility

Document No.: 18.232-PMS-05 Page: 19 of 41

3.4 CONCORDE DEVELOPMENT MOBILITY STRATEGY

3.4.1 INTRODUCTION

Having regard to the guidance documents list above in section 3.2, in particular the policies and objectives of the Naas Road Lands local area plan and following discussion with Dublin City Council and Transport Infrastructure Ireland, the following list of measures, which are discussed in detail below, have been incorporated into the proposed development (Refer to Figure 3-8 below)

- Signalised pedestrian crossing to be provided across the un-named public access road to the east boundary of the site at the junction with the Naas Road.
- Signalised pedestrian crossing to be provided across the Naas Road and Luas track at the junction to the north east corner of the site.
- 2-way cycle lane around the full perimeter to the site and extensive provision for continuation of proposed City Wide Green Route through the site and into the adjacent development site to the south.
- Several access and egress points into and through the development for pedestrians and bicycles, with pedestrian priority at internal road crossings.
- Provision of extensive landscaping throughout the development, including the full length of the Naas Road elevation.
- Provision of 516no. easily accessible, covered and secure bicycle parking spaces dispersed throughout the site, including the basement car park, including the provision for shared bike club stands.
- Provision of 200no. resident car parking spaces within a single level basement.
- Provision of 38no. on grade car parking spaces directly opposite the commercial areas of the development, including a 10no. Club Car spaces for communal use.
- Incorporation into the Build to Rent facility management, an information guide to all residents on all locally accessible transport modes and routes (private/public and pedestrian) within the vicinity of the development.

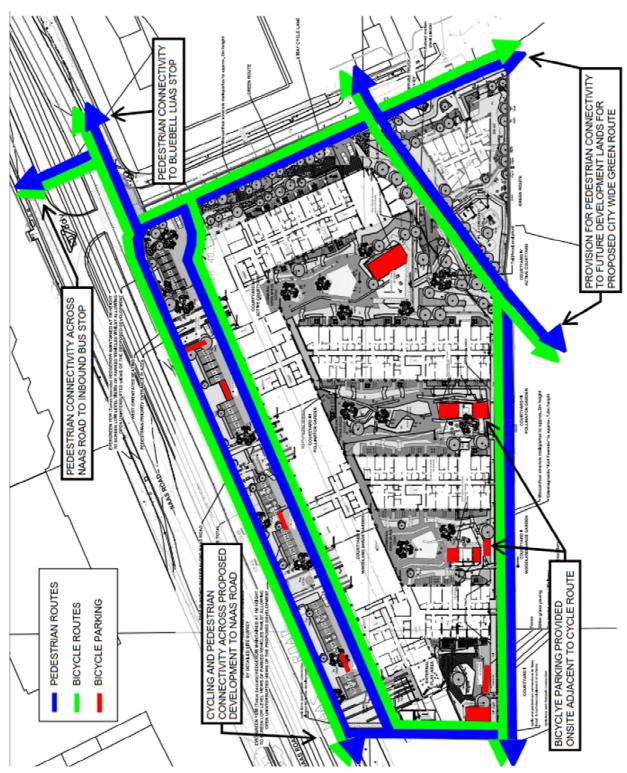


Figure 3-8 - Movement through Site

3.4.2 WALKING MOBILITY

Existing pedestrian movement through the site is non-existent due to the impermeable fencing which surrounds the site (Figure 3-3). This is a function of the current land usage, which is primarily an industrial estate and its lack of connectivity with the adjacent surrounding areas.

Most of the pedestrianised areas that surround the site are hostile to pedestrian users as can be seen in Figure 3-99 below. The footpath has no barriers between the pedestrians and the traffic on the road, and the roads in the area such as the Naas Road and Kylemore Road, which are main routes out of the city, have high volumes of

Document No.: 18.232-PMS-05 Page: 21 of 41

traffic including cars, buses and trucks; particularly at peak times. Crossing the Naas road at the site is potentially dangerous as there is no dedicated pedestrian crossing outside the site. Navigating from one side of the road to the other is challenging as there are multiple lanes of traffic and a Luas line to contend with when crossing. The quality of the pedestrian environment and connections for pedestrians at major junctions is poor.

By providing a pedestrian route, as shown in Figure 3-10 across the Naas Road and the road adjacent to the site, a significantly improved and safer pedestrian facility is provided to both the Luas line and inbound public bus service. This new pedestrian route will also link in with "City Wide Green Route" shown in Figure 3-11 to promote permeability throughout the site and allow continuity through to the adjacent strategic development sites.



Figure 3-9 – Google Image – Naas Road Existing Facilities



Figure 3-10 - Proposed New Pedestrian Crossings

Document No.: 18.232-PMS-05 Page: 22 of 41

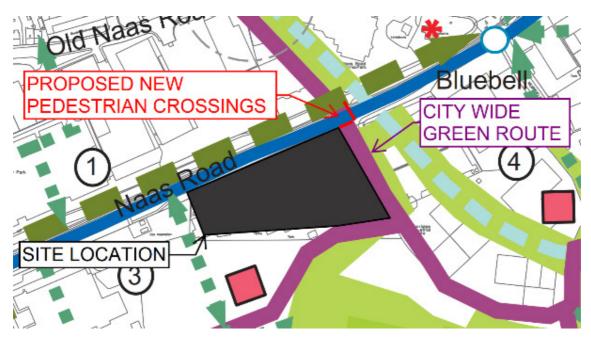


Figure 3-11 - Local Area Plan Extract - Pedestrian Crossing

3.4.3 CYCLING MOBILITY

Dublin City Council has an overall target of increasing journeys by bicycle in the city by 25% by the year 2020. Permeability and direct safe routes are therefore critical in achieving this goal. As previously stated, the majority of infrastructure for cyclists exist along major strategic roads where cyclists have to share their space with buses and large volumes of traffic.

This is currently the situation along the Naas Road at the proposed development site location. In Figure 3-9 it can be seen that there is no provision for cyclists along the route. This means cyclist using the route must share the road with the cars, buses and trucks that occupy the road.

The "Cycle Network Plan for the Greater Dublin" area has produced an overall plan for providing safe cycle routes in and out of the city, this plan aligns with the Naas Road Local Area Plan and an extract of the Cycle Network Plan can be seen in Figure 3-12, with the full plan in Appendix 2. To the immediate north of the site location is the new cycleway along the Grand Canal connecting the city with Lucan and which on completion, will form part of the Canal Way Cycle route, connecting along the Grand Canal to the Royal Canal through the city and docklands and integrating with other strategic cycle routes planned for the city. The proximity of this route to the site presents an opportunity to deliver new connections to this strategic cycle route and integrate the site into this growing network.

Providing easy access to this main cycle route into the city will entice residents of the development to use the route and cycle along the canal where they will not have to share their space with other road users such as cars, buses or trucks. Residents of the proposed development can choose to gain access to this main cycle route via the "7D" route or alternatively along the "River Carmac Greenway" which they will able to access via the Local Area Plan City Wide Green Route, (Figure 3-7).

To accommodate this proposed usage of bicycles to travel in and out of the city centre, 516no. bicycle parking locations have been provided at a variety of easily accessible locations throughout the site, which can be seen in the landscaping plans in Appendix 1. Included in this total number will be shared bike club spaces. The developer has been in consultation with Bleeper Bikes, an established bike club operator in the Dublin area. Bleeper Bikes have confirmed they would provide their service at the subject site. A letter of Intent from Bleeper bikes is included in APPENDIX 4.

Document No.: 18.232-PMS-05 Page: 23 of 41

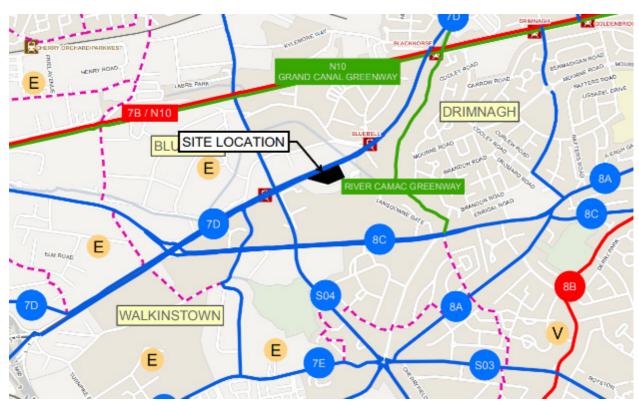


Figure 3-12 – Cycle Network Plan for the Greater Dublin Area Extract

3.4.4 PUBLIC TRANSPORT MOBILITY

BUS SERVICES

As no additional capacity on the roads surrounding the site can be made available to private vehicles, the role of public transport in accommodating the movement requirements of the area now and into the future is crucial. Buses have the greatest potential to increase public transport capacity and decrease the number of private vehicles on the road. The main focus of the Mobility Management Plan is to improve connectivity to existing public transport services and promote the usage sustainable transport services.

The Naas Road area is currently connected by public transport services such as Dublin Bus and the Luas Red Line. These services are predominantly radial in nature however, providing good links between the city centre and the west but not to other areas of the city. The full array of public transport can be seen in Figure 3-13.

The Dublin Bus services in the area provide direct linkage to the city, both Route 13 and 151. The frequency of each bus can be seen in Table 3-1, with an approximate 12 minute waiting time between buses. There is an inbound Route 13 stop situated directly outside the site, however accessing the inbound route is difficult as there is no dedicated pedestrian crossing across the Naas Road and Luas line which results in a 7 minute walk, indicated in the dashed blue line in Figure 3-13, to reach the stop. If residents choose to use the 151 bus service on the Long Mile Road, due to the lack of permeability through the site and lands between the stop, pedestrians need to walk down the Naas Road and Walkinstown Avenue which results in a 12 minute walk, indicated in a dashed orange line in Figure 3-13.

Table 3-1 – Dublin Bus Route Frequencies

<u>Route</u>	<u>Origin</u>	<u>Destination</u>	<u>Frequency (07:00 – 08:00)</u>
Route 13	Grange Castle	Harristown	5 per hour
Route 151	Foxborough Rd.	Docklands	5 per hour

With the new pedestrian crossing on the Naas Road, accessing the inbound Route 13 will be much simpler and similarly the proposed secondary green routes through the currently unused lands, will reduce the 12 minute

Document No.: 18.232-PMS-05 Page: 24 of 41

walk to the 151 bus stop to a 5 minute walk. This new route will also take pedestrians away from the busy Naas Road and Walkinstown Avenue, Figure 3-14.



Figure 3-13 - Existing Public Transport Services



Figure 3-14 – Local Area Plan Green Route Extract – New Walking Route

Future bus plans involve the "Dublin Area Bus Network Redesign" which is an attempt to overhaul the current bus system in the Dublin region by developing new bus corridors, new bus routes, increasing services and new buses.

Figure 3-15 and Figure 3-16 give an overview of the overall provision of services which will make up the overhaul of the current Dublin bus service. Preparing the site for this new bus service is an important part of designing the proposed development for the future. In both of these figures we can see that our site is located close to both of the proposed types of routes, radial and orbital. The radial routes will provide quick and efficient access to the city centre along designated routes from the extremities of Dublin. The orbital route will provide access to the other parts of Dublin city without the need to travel through the city centre which can be heavily congested.

Document No.: 18.232-PMS-05 Page: 25 of 41

An extract of the proposed route 9 can be seen in Figure 3-17, with the full overview attached in Appendix 3. The proposed development will link up perfectly with the proposed green routes in this area which will enable the residents of the apartment to avail of this new high-level bus service with an approx. 7-10 min walk from the site to either the radial or orbital bus routes.



Figure 3-15 - Bus Connects Extract - Dublin Radial Overview



Figure 3-16 – Bus Connects Extract – Dublin Orbital Overview



Figure 3-17 - Bus Connects Route 9 Extract - Green Route Access

LUAS SERVICE

The Luas service is a form of public transport which travels along the Naas Road and is both a reliable and sustainable transport option. The frequency of service is a train every 5/6 minutes, which is twice the regularity of the bus service in the area. There are two Luas stops in the Naas Local Area Plan, although the Bluebell Luas Stop, a 4 minute walk, would be the stop of choice for residents in the proposed development, Figure 3-18. Although the Luas service is well maintained, reliable and has a higher frequency of service, according to the Naas Road Local Area Plan, "there is a relatively low patronage of these stops comparative to other stops".

This low patronage of the service could be due to the isolated nature of the stops currently, as there is limited residential or commercial units in their vicinity. However, it could also be down to the position of the stops along the route. The Luas stops are not easily accessed. There is no dedicated crossing point outside the site and the stops themselves are in the centre of the Naas Road, which acts as a barrier. Traversing across the road to the Luas line island where the stops are located can be difficult with the volume of traffic and the lack of pedestrian crossways. The only pedestrian crossings in the area are at the Luas stops themselves, with little pedestrian access provided along the Naas road across secondary roads.

With the proposed development, the amount of commuters in the area will increase significantly and it is important to have infrastructure in place to promote the usage of the Luas stop. The introduction of the pedestrian crossing directly outside the site, as shown in Figure 3-10 and Figure 3-11 will promote the use of the service to residents of this and potential future developments.

Currently there is no provision to increase the number of trams for the red line, however the current frequency of one train every 5/6 minutes should be adequate for residents of the proposed development.



Figure 3-18 – Luas Stop Locations

RAIL TRANSPORT SERVICES

Mainline rail services are in the area but they are currently outside the walking distance of the site. The rail connection to the site area is located 2.5 km to the north east at the Cherry Orchard & Park West stop on the Kildare commuter service which can be seen in Figure 3-19. There is currently a dedicated shuttle service from the Kylemore Luas stop to Parkwest station. The "861 Express Bus" provides a limited number of trips from the Luas stop in the morning and a limited amount in the evening, Figure 3-20. As noted in the Naas Road Local Area Plan, there is the potential in the long term for an additional station near the Kylemore Road, to the North of the site, Figure 3-21. Such development would also support and be benefited by an orbital bus route serving both the rail service and a set down/hub area along the Kylemore Road/ Walkinstown Avenue serving the Luas.



Figure 3-19 - Current Train Station Location

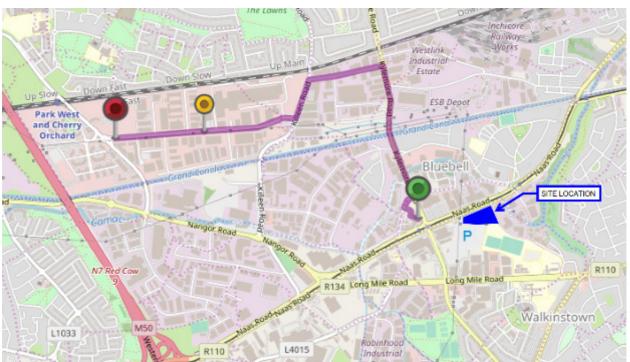


Figure 3-20 – Luas to Parkwest Shuttle Bus Route

Document No.: 18.232-PMS-05 Page: 28 of 41

FUTURE RAIL SERVICE



Figure 3-21 - Proposed New Train Station

3.4.5 TRAVEL DISTANCE

These travel distances were taken at 08:00am starting from Concorde Industrial Estate and heading to either The Spire on O'Connell street used to represent the City Centre and Citywest. The modes of transport which have been listed above where calculated using google maps. Items 1-5 represent travel to the city centre and 6-10 represent travel to Citywest. In some cases, modes of transport between the locations is not provided and therefore no estimation could be ascertained. Modes of transport may include walking distances (i.e. walking to and from the Luas stop). These times have been added to the overall travel duration. For example, no. 8 below (Concorde to Citywest) has a total travel duration of 43min. This is comprised of a 4min walk, 21 min Luas journey and an 18 min walk.

No.	MODE	START	LOCATION	DURATION
1	Walking	Concorde	City Centre	1h 19 min
2	Cycling	Concorde	City Centre	25 min
3	Bus Service	Concorde	City Centre	45 min
4	Luas Service	Concorde	City Centre	29 min
5	Car	Concorde	City Centre	45 min
6	Walking	Concorde	City West	2 h
7	Cycling	Concorde	City West	35 min
8	Bus Service	Concorde	City West	1 h
9	Luas Service	Concorde	City West	43 min
10	Car	Concorde	City West	25 min

Document No.: 18.232-PMS-05 Page: 29 of 41

3.5 CONCLUDING COMMENTS ON MOBILITY PLAN

The development shall contain a single level basement with a total of 200 residential parking spaces. Given the number of apartments (492 No.), the ratio of car spaces to residential units is low, compared to traditional requirements, but is considered sufficient for this development for the following reasons:

- This development, addressing the policies and objectives of the Local Area Plan, incorporates significant
 measures to promote and incentivise the use of available public transport modes along with walking and
 cycling.
- Strong public transport facilities in the Luas and a Quality Bus Corridor are located directly in front of the
 development and the additional pedestrian crossings proposed as part of the development will increase
 the incentives for it use.
- The proposed development will be a Build to Rent Scheme. The Department of Housing, Planning and Local Government document "Design Standards for Planning Authorities" makes specific provision for this type of development:
 - "A default policy of minimal car parking provision shall apply on the basis of shared accommodation development being more suitable for central locations and/or proximity to public transport services. The requirement for shared accommodation to have a strong central management regime is intended to contribute to the capacity to establish and operate shared mobility measures"
- As a Build to Rent Scheme, the facility's management hold control over parking allocation within the development. They have the capacity to ensure residents with private car needs can be accommodated prior to occupancy. Full time management will be present at the site. The management will have responsibility and, more importantly, the ability to ensure that illegal parking does not occur.
- In addition to the 200 resident car spaces, there will be a minimum of 10 Car Club spaces. Club car sharing has proven benefits to traffic volumes, parking volumes (both private and public), the environment, consumer cost and social inclusivity.
- According to Zipcar, who operate club car operations in both Berlin and London:
 - "Every car club car removes up to 17 private cars from the roads, reducing traffic congestion, noise and air pollution.
 - Car club members are nearly twice as likely to cycle or take the train than private car owners.
 - Car club produces 7 times fewer short trips than car owners.
 - A much higher proportion of car club cars are either low emission or fully electric than the general car population.
 - Car club allows those who cannot afford a car the opportunity to drive, encouraging social inclusivity."

LONDON'S CAR CONUNDRUM



Figure 3-22 - Zip Car London Extract

Document No.: 18.232-PMS-05 Page: 30 of 41

4.0 OVERALL CONCLUSIONS

1. This report has demonstrated that the proposed restricted car parking provision for the residential component of the development is entirely sustainable based on current car ownership and modal splits for the journey to work for existing residents living close to the subject site

- 2. Given the restricted car parking provision, this report has demonstrated the sustainability in transportation terms of residents utilising non-car based forms of travel by demonstrating the high level of service that is provided by the transport infrastructure in place at the site with regards to, walking, cycling, public bus services, LUAS, national rail, and other Services (taxis, Car-club)
- 3. The proposed Concorde Residential Development is demonstrated to have been designed to integrate and connect the local authority plans for the overall area, which have been developed in an effort to reduce the amount of privately owned vehicles on the road, promote the use of alternative sustainable transport services and improve the environment for pedestrians and cyclists policies further enhanced by the construction of the proposed scheme.
- 4. The report has demonstrated the existence of a full range of good alternative transport options available from the site utilising both public transport and soft modes Luas, Bus, Bicycle, Walking
- 5. The central management of a "Build-To-Rent" scheme like Concorde will offer the opportunity for a dedicated "Mobility Manager" appointed to encourage residents and visitors away from car usage and towards the other more sustainable modes of travel as outlined within this report.

Document No.: 18.232-PMS-05 Page: 31 of 41

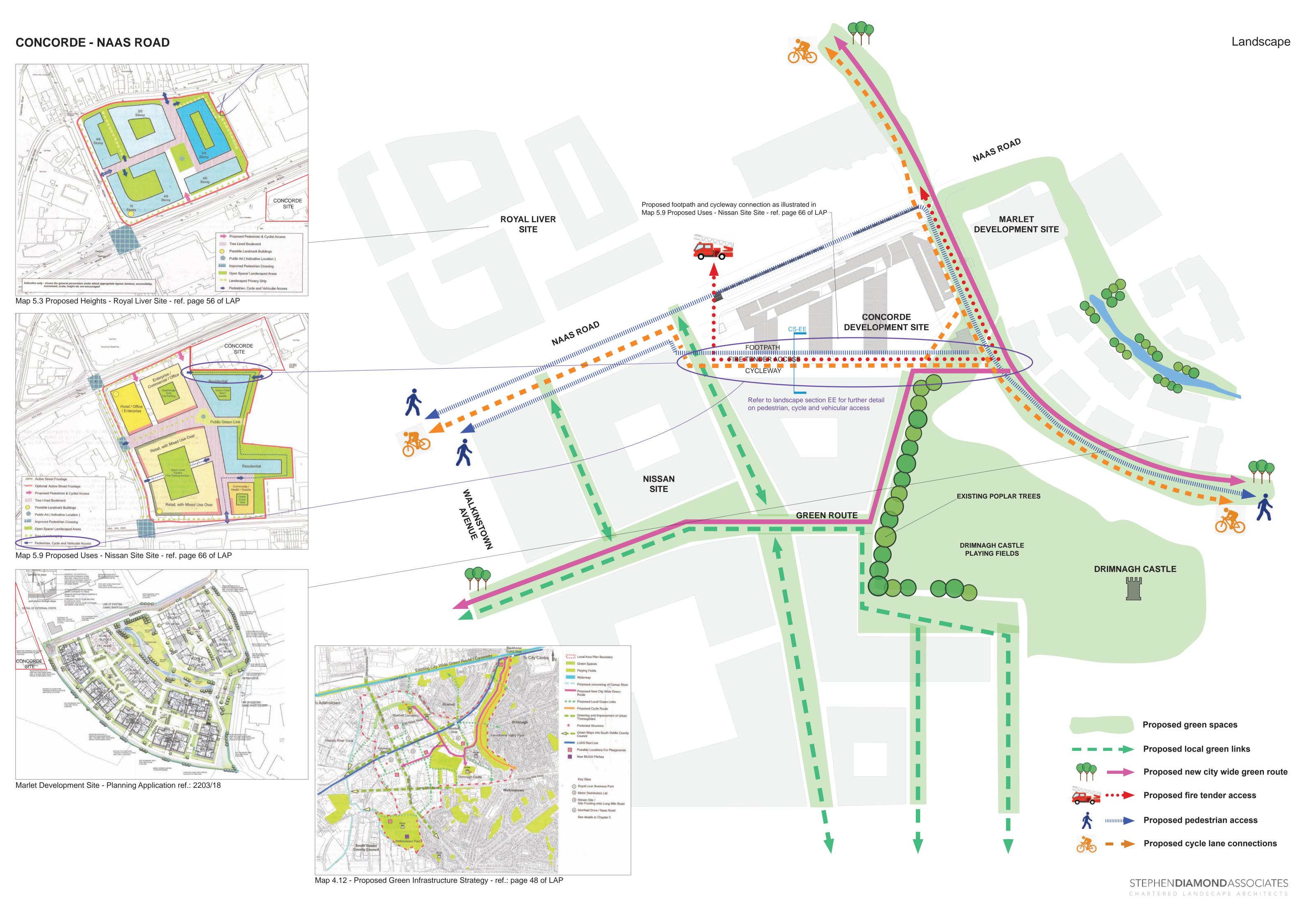


APPENDIX

SITE LAYOUT







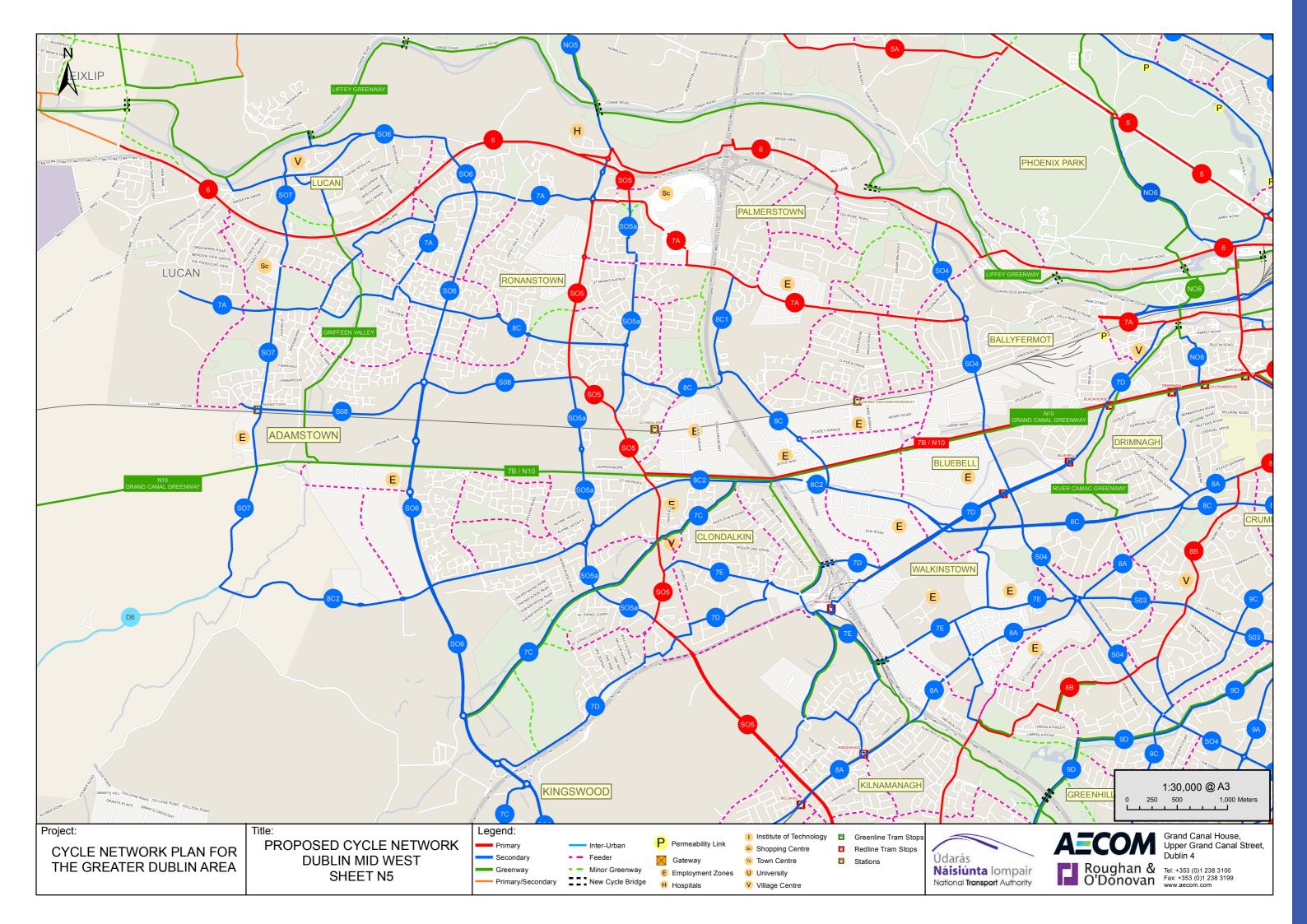
Document No.: 18.232-PMS-05 Page: 34 of 41



APPENDIX

CYCLE NETWORK PLAN





Document No.: 18.232-PMS-05 Page: 36 of 41



APPENDIX

3
BUS CONNECTS
ROUTE 9



Greenhills > City Centre

Core Bus Corridor (bus & cycle infrastructure)



Key Facts

- Route length 11kms
- Current bus journey time up to 80mins
- BusConnects journey time 35-40mins
- Future bus journey time without BusConnects 100mins+

Potential Impacts

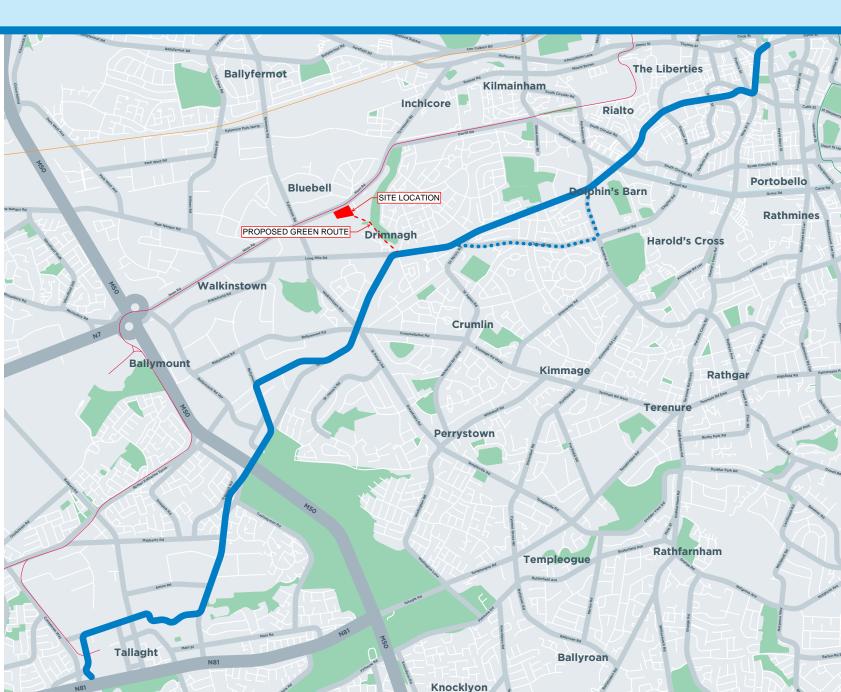
- Parts of front gardens removed
- Loss of parking spaces
- Changes to traffic movements
- Loss of trees

Additional Specific Challenges on Route

- Restricted width on many roads along this route requiring road widening.
- Walkinstown Roundabout is challenging for both bus and cycle movements.
- A proposal is to construct new link roads to divert all traffic via Calmount Avenue and Calmount Road while still maintaining access to the old section of Greenhills Road.
- A proposal is to realign a section of the Greenhills Road adjoining Castletymon Road junction.

Bus Route

•••• Alternative Cycle Route

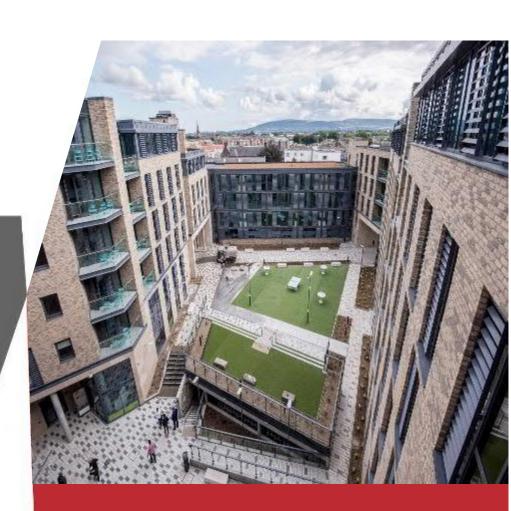


Document No.: 18.232-PMS-05 Page: 38 of 41



APPENDIX

BLEEPER BIKE LETTER





BleeperBike Rear of 24 South Richmond Street Portobello Dublin 2 D02 HF29

14 March 2019

Re: Concorde Industrial Estate,

Naas Road, Walkinstown, Dublin 12.

To Whom It May Concern,

Thank you for registering and interest in integrating Bleeper Bikes into the Mobility Plan for the proposed development at the Concorde Industrial Estate. We would be delighted to work with Development Ocht Ltd to ensure the sustainable cycle needs of the residents and others living nearby are met, with the provision of Bleeper Bike stands either on site or close by.

BleeperBike currently runs a fleet of 700 shared bicycles throughout the administrative areas of Dun Laoghaire Rathdown and Dublin City. The bicycles are available to use 19hrs per day (5am-12am) and are used primarily for short journeys (1-5km distances), with a typical journey time averaging 10-15 minutes. The bicycles are equipped with a 'smart lock' system utilising GPS and 3/4G technology, which works in tandem with our bespoke App. To unlock a bike, a user simply downloads the app, selects a payment plan and provides basic personal information. Once this is complete they open the App and scan the unique QR code on the bicycle lock to unlock the bike.

BleeperBike offers residents easy access to a fleet of bicycles that can be used for short to middle distance trips, which can **significantly reduce their dependency on car ownership**.

Regards.

Hugh Cooney

CEO

BleeperBike Ireland Opco Limited

Document No.: 18.232-PMS-05 Page: 40 of 41



APPENDIX

5 GO-CAR LETTER OF INTENT





Padraig Kehoe

Development Ocht Ltd.

88 Harcourt St,

Saint Kevin's, Dublin 2

This is a letter to confirm that GoCar intends to provide ten shared car club vehicles in the proposed residential development at the Concorde Residential Development, on the Naas Road, with final terms to be agreed.

GoCar is Ireland's leading car sharing service with 40,000 members and over 600 cars and vans across 18 counties in Ireland. Each GoCar which is placed in a community has the potential to replace the journeys of up to 15 private cars.

The Department of Housing's Design Standards for New Apartments - Guidelines for Planning Authorities 2018 outline: "For all types of location, where it is sought to eliminate or reduce car parking provision, it is necessary to ensure... provision is also to be made for alternative mobility solutions including facilities for car sharing club vehicles."

GoCar members sign up online and can book cars or vans via the website or mobile app. Rates start from €4 for half an hour, with fuel, insurance and maintenance included. As such, it is both convenient and cost effective. It allows individuals to have the benefits of a private car, without having the large costs and hassle associated with car ownership. GoCar is ideal for people or organisations who only need occasional access to a car, for families who need a second car sometimes, and for others who would like occasional access to a vehicle of a different type than they use day-to-day.

Carsharing is a sustainable service. By allowing multiple people to use the same vehicle at different times, car sharing reduces car ownership, car dependency, congestion, noise and air pollution. It frees up land which would otherwise be used for additional parking spaces. Most GoCar users only use a car when necessary, and walk and use public transport more often than car owners.

By having GoCar car club vehicles in a residential development such as this, residents will have access to pay-as-you-go driving, in close proximity to their homes, which will increase usership of the service.

I trust that this information is satisfactory. For any queries, please do not hesitate to contact me.

Regards,

Rob Kearns Head of Growth GoCar Carsharing Limited M: 083 822 3924

E: rob.kearns@gocar.ie

