# **Martin Rogers Consulting Ltd**

Tay lane, Rathcoole Age-Friendly Development, Newcastle Road, Rathcoole, Dublin 24

**Traffic Assessment and Mobility Management Plan** 

**Client: Riverside Projects Ltd** 

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### 1.0 INTRODUCTION

The Riverside Projects Ltd have appointed Dr Martin Rogers, Transport Planning Professional, to provide a Traffic Assessment and Mobility Management Plan for a retirement housing development on Newcastle Road, Rathcoole, Dublin 24.

The development will comprise 58 No. retirement housing units in total over four floors (20 No. 1B/2P and 38 No. 2B/3P units).

30 No. car parking spaces are proposed for the retirement housing development. This equates to 0.52 car parking spaces per dwelling unit.

A bike storage facility is included within the facility.

The vehicular access is onto Tay Lane, to the west of the site of the proposed development.

A Ground Floor Plan indicating the car parking location within the development is contained within Appendix 1.

The purpose of this report is to:

- Detail the low traffic volumes generated by the proposal;
- Proposed day-of-opening modal split targets for the proposal;
- · Put forward a mobility management strategy for the proposed residential development; and
- Demonstrate significant non-car-based travel alternatives for residents at the proposed development.

Section 2 of this report contains the traffic assessment for the proposal that will estimate the volume of traffic generated by the proposed development, and will demonstrate its very limited impact on the local road network.

Section 3 of this report will estimate the car and cycle parking requirement for the overall development, together with the provision proposed. The section also utilises the 2017 Household Survey, published in December 2018 by the National Transport Authority, to derive modal splits for the residents at the proposed residential development.

Section 4 details guidance and policy documents relating to mobility management, with Section 5 outlining the travel plan pyramid.

Sections 6 contains the Mobility Management Plan (MMP) / Residential Travel Plan (RTP) for the proposal. This section contains revised modal splits for walking and cycling, together with additional measures to achieve these splits. The role of the Mobility Management Coordinator is also discussed.

A map indicating the general location of the development site within the Rathcoole are is contained within Figure 1-1.

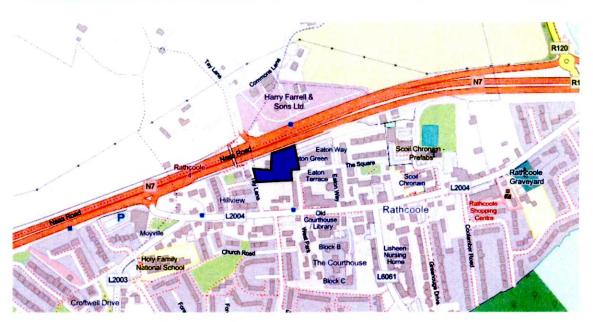


Figure 1-1: Location of site within Rathcoole area

Figure 1-1 indicates the site's central location within Rathcoole, 80 metres north of Main Street / L2004.

The site is very close to the 69 bus route linking the site to the LUAS Red line via the Teach Sagart LUAS stop in Saggart / Citywest.

### 2.0 TRAFFIC ASSESSMENT OF PROPOSED DEVELOPMENT

### 2.1 TRIP GENERATION ANALYSIS

The proposed development consists of 58 No. retirement housing units

TRICS typically gives the following weekday morning and evening peak-hour trip rates for retirement housing units:

		Weekday AM IN OUT		Weekday PM		DAILY	
				IN OUT		2-WAY	
Retirement Housing	Trips/Unit	0.087	0.096	0.079	0.086	2.051	

Table 2-1: Peak hour and daily trip rates for proposed development site

The above TRICS trip rates give rise to the following weekday morning and evening peak and daily trip volumes for retirement housing units:

		Weekday AM		Weekday PM		DAILY	
	No. of units	IN	OUT	IN	OUT	2-WAY	
Retirement Housing	58	5	6	5	5	119	

Table 2-2: Peak hour and daily flows generated by proposed development site

Daily flows occur between 7AM and 9PM, a 14-hour time period.

Appendix 2 contains details of the sites in the UK and Ireland used to deduce the above rates, together with information on the day-long flow patterns.

The above flows equate to 1 No. vehicle entering or leaving every 5.5 minutes during the morning peak hour (9AM to 10AM for the development), and 1 No. vehicle entering or leaving every 6 minutes during the evening peak hour (5PM to 6PM for the development), and, for the 14-hour time period between 7AM and 9PM, on average, during every 60-minute period, 1 No. vehicle enters or leaves on every 7 minutes.

One can thus conclude that the proposed development will be lightly trafficked, with flows relatively un-peaked, averaging 9 No. vehicles per hour over the 7AM to 9PM period.

### 2.2 RECEIVING NETWORK

All trips entering and exiting will do so via Main Street, a local road (L2004) linking the Rathcoole Area with both the Dublin South City area via the Sagart / Citywest / Clondalkin areas.

Main Street is a 2-way roadway approximately 6 metres in width providing excellent connectivity within the local road network and easy access onwards to Saggart and Citywest.

It would be reasonable to assume Main Street to be a UAP4 Road type within the Design Manual for Roads and Bridges (DMRB) - a busy high street carrying mostly local traffic with frontage activity

Assuming a minimum road width of 6.1 metres, the standard indicates a peak hour directional capacity of 750 vehicles per hour. (This capacity is extracted from TA 79/99 – Traffic Capacity of Urban Roads (Department for Transport, 1999) which details the peak hour capacities of the different road type.)

### 2.3 IMPACT OF GENERATED FLOWS

Table 2-2 indicates a maximum 2-directional peak hour flow of 11 No. vehicles (inbound plus outbound, evening peak).

Assuming a 70:30 split in the peak direction during both peak hours, this translates into a peak hour directional flow of 8 No. vehicles per hour  $(0.7 \times 11)$ .

This constitutes approximately 1% of the assumed capacity of the Main Street link as detailed within section 2.2 using DMRB.

One can therefore assume that the traffic impact of the proposed development on the local road network will be at an imperceptibly low level.

### 3.0 REQUIRED AND PROPOSED CAR PARKING PROVISION

### 3.1 INTRODUCTION

This section details the car parking requirements under the South Dublin Development Plan 2022 to 2028.

While no specific requirement for age-friendly housing is contained within the Development Plan, this report utilises the requirement for retirement homes and apartments stated in the document.

### 3.2 CAR AND CYCLE PARKING REQUIREMENTS AS PER DCC DEVELOPMENT PLAN

### Car Parking

Tables 3-1 below details the maximum car parking standards for South Dublin County Council based on the rates contained within their 2022 – 2028 Development Plan Written Statement for both retirement homes and apartment developments.

The development comprises 20 No. 1-bed housing units (maximum occupancy 2 No. persons) and 38 No. 2-bed housing units (maximum occupancy 3 No. persons).

Therefore, the above development mix provides a maximum occupancy for the overall development of 154 No. persons

Development type	Units / Residents	Maximum car parking standards	Maximum parking required
Retirement Home	154 No. residents	1 per 8 No. residents	19 No.
Apartments	58 No. units ( 20 No. 1- bed + 38 No. 2-bed)	(20×0.75)+(1×38)=53	53 No.
	58 No. units ( 20 No. 1-		

Table 3-1: Maximum Car Parking required under South Dublin County Council Development Plan Standards (The Site is in Rathcoole Village Centre which is identified as a Growth Town in the CDP Core Strategy, therefore, it is contended that Zone 2 is justified).

The proposed development will provide 30 No. car parking spaces for the proposed age-friendly housing development.

The provision of 30 No. car parking spaces is based on the following allocation:

- 24 No. spaces allocated to residents, based on 1 No. space per 4 bedrooms (96 No. beds in total within development);
- 2 No. spaces allocated to the community centre facility for hosting communal activities by the residents;
- 1 No. space for the Buildings Manager; and
- 3 No. visitor spaces

The figure of one space per 8 No. residents, yielding a requirement for 19 No. spaces, is very similar to the one space per 7 No. residents previously used by Cluid who are the ultimate end-users for the proposed development, with one space per 7 No. residents yielding a requirement of 22 No. spaces.

The overall figure of 30 No. spaces can be seen as striking a balance between apartment and retirement home standards, since no standard is provided for 'age friendly' development and the occupier profile of 'age friendly' development is markedly different to that of a standard apartment scheme, which would require 53 No. spaces for full compliance as detailed above within Table 3-1. It must be noted that residents of 'age-friendly' schemes will have a far greater degree of independence than care home / retirement home residents and so providing a higher level of car parking, relative to the care homes standard, is justified in this case. Furthermore, the majority of residents will not undertake daily work commutes which account for a high proportion of private car trips in a standard apartment development. Given that the site is within walking distance of local shops and facilities, providing a lower level of car parking relative to the standard for apartments is justified given the age profile and employment profile of the intended occupants.

Also, 2 No. spaces have been provided for the community centre. It could be argued that no extra parking requirement is generated by this facility as it will used only by the residents and local community living nearby. This would bring the effective quantum of residents' car parking to 26 No., equivalent to 1 No. space per 6 No. residents.

At a residential development in Drogheda, County Louth, which included retirement housing, and which was granted permission in 2018, 1 No. car parking space per 3 No. units were proposed and accepted by the planning authority.

This would equate to 16 No. car parking spaces for residents ( $58 \div 3=16$ ), significantly lower than the overall quantum of 30 No. spaces proposed.

The TRICS figures indicate an average of less than 5 No. vehicles entering in any given hour, with a very similar exit flow, resulting in very low accumulations. A provision of 30 No. spaces equates to 5 No. vehicles arriving per hour for 6 hours with no exiting movements. The TRICS data indicates that such is not the case, with inflows practically matching outflows, with low accumulations as a result.

Thus, on the evidence of the TRICS data, 30 No. car parking spaces will be more than adequate.

### Cycle Parking

It is proposed to provide 80 No. cycle parking spaces on site.

Table 3-2 details relevant cycle parking standards

Development type	Units / Residents	Minimum Cycle parking standards	Minimum parking required
Retirement Home	154 No. residents + 0 staff	(154÷10)+(0÷5)	16 No.
Apartments	58 No. units ( 20 No. 1-bed + 38 No. 2-bed)	(20×1)+(2×38) + (58÷2)=125	125 No.

Table 3-2: Minimum Cycle Parking required under South Dublin County Council Development Plan Standards

The overall figure of 80 No. cycle spaces aims to strike an appropriate balance between residential apartment and care retirement home parking standards bearing in mind the age profile of the intended occupants.

The proposed provision of 80 No. spaces is 64% of the required provision for apartment developments. Given the targeted age profile for the proposed development, and the consequent reduced likelihood of cycling being a viable transport option for this age-cohort, this level of provision is seen as entirely justified.

It should also be noted that the proposed provision is five times the requirement for a retirement home / nursing home development.

### 3.3 MODAL SPLITS FOR THE PROPOSED RETIREMENT HOUSING DEVELOPMENT

In order to develop a mobility strategy for the development and maximise the use of sustainable travel modes by the residents, it is essential that a set of baseline modal splits is derived for the day-of-opening of the proposed development.

Given that the trips generated by the development will be non-work-based, the National Household Travel Survey results are utilised to help derive modal splits for the proposed development.

Figure 3-1 details the modal split figures for the Greater Dublin Area for shopping, social, personal and 'other' purposes:

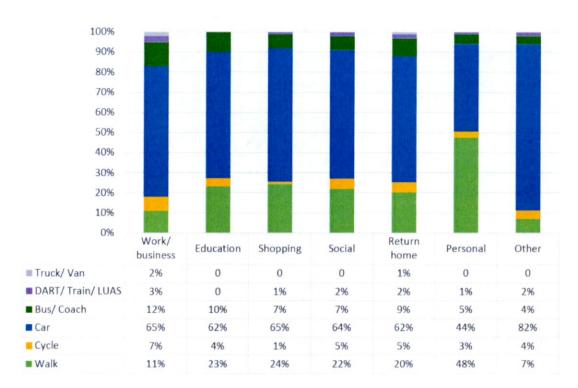


Figure 3-1: Non-work-based modal splits for the Greater Dublin Area

Table 3-3 extracts the shopping, social, personal and 'other' modal splits for the GDA and details overall average modal splits for the site:

MODE	CAR (%)	WALKING (%)	BUS (%)	CYCLING (%)	LUAS / TRAIN (%)
Shopping	65	24	7	1	1
Social	64	22	7	5	2
Personal	44	48	5	3	1
Other	84	7	4	4	2
Average	64	25	6	3	2

Table 3-3: Non-work-based modal splits for GDA and overall average values

The average values within Table 3-3 will be used for the day-of-opening splits at the proposed development.

They indicate just less than two-thirds using the car, with one-quarter walking, entirely reasonable given the proximity of Rathcoole Village. The other modes (bus / cycling / LUAS) are predicted to be used by 11% of commuters at the proposed development.

Sections 4 to 6 of this document seek to demonstrate that the above modal splits are entirely sustainable for the proposed development, and provides details of the role of the Mobility Management Co-ordinator appointed at the site to oversee a sustainable transport strategy for residents and visitors at the site.

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### 4.0 GUIDANCE DOCUMENTS ON MOBILITY MANAGEMENT PLANNING

### 4.1 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, and walking. 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 is located adjacent to 69 bus route which operates between Rathcoole and Dublin every 30-minutes during the morning peak.

MMP's are intended to bring the following benefits:

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

### 4.2 GUIDANCE AND POLICY DOCUMENTS

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

### 4.2.1 NATIONAL POLICY

### Smarter Travel A Sustainable Transport Future 2009 – 2020 (Department of Transport, 2009)

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

### Regional Spatial and Economic Strategy (Eastern and Midland Regional Assembly, 2019)

This document notes the trends within the Region that indicate an overreliance on the private car for travel to work and education, stating that approximately 46% of Dublin's population commute by private car. Regional Planning Objective 8.7 within this document aims to promote the use of mobility management and travel plans to bring about behaviour change and more sustainable transport use.

### National Cycle Policy Framework 2009 (Department of Transport, 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.

### Making Residential Travel Plans Work (Department for Transport, UK, 2007)

UK document providing a framework for residential travel plans, detailing the content to be contained within the Travel Plan. This document incorporates the structure advocated by this document.

### <u>Sustainable Urban Housing: Design Standards for New Apartments - Guidelines for Planning Authorities</u> (Department of Housing, Local Government and Heritage, December 2020)

This document details new levels of car and cycle parking provision for apartment developments in urban areas.

### 4.2.2 LOCAL POLICY

### South Dublin Development Plan 2022-2028

The development plan requires that Traffic and Transport Assessments and/or Workforce Travel Plans (also known as Mobility Management Plans) will be required to support development proposals that have the potential to generate significant traffic movements, to demonstrate that there is public transport carrying capacity and road capacity to serve the development.

### Transportation Strategy for the Greater Dublin Area 2016-2035 (NTA, 2016)

This document states that development within the existing urban footprint of the Metropolitan Area should be consolidated to achieve a more compact urban form. Policy should allow for the accommodation of a greater population than at present, with much-enhanced public transport system, with the expansion of the built up areas providing for well-designed urban environments linked to high quality public transport networks, enhancing the quality of life for both residents and workers.

### Dublin City Centre Transport Study (NTA, 2016)

The Study seeks to address major transport issues facing the core city-centre area, to facilitate the implementation of the Dublin City Council Development Plan, and to safeguard the future growth of the city, specifically in terms of new transport infrastructure. The construction and operation of Luas Cross City will require a significant reconfiguration of current transport arrangements. This study addresses these issues and proposes measures to counter long-standing constraints of the existing City Centre transport network. This will ensure that capacities are in place to meet the demands of future growth in the City, as well as optimising the use of the City Centre's limited road space to maximise the benefits for people living, working and visiting Dublin City Centre. The key objectives include increasing the capacity, reliability and use of public transport into and within the City Centre as well as improving the quality of service for cycling and walking, with particular emphasis on the 'core' City Centre;

The Study advocates significant reductions in the modal split for private cars for the journey to work over the short to medium term in the Greater Dublin Area.

The achievement of these targets requires developments such as the one proposed at the proposed development to advocate sustainable modes of transport for residents travelling to work and college. Achievement of the objectives and targets as outlined within this document. The residential travel plan framework will be entirely consistent with the aims of the Dublin City Centre Transport Study.

### Cycling Policy

The National Cycle Manual, adopted in 2011, provides local guidelines on cycle parking provision.

### 5.0 THE TRAVEL PLAN PYRAMID

The UK document 'Making Residential Travel Plans Work' details the travel plan pyramid that helps demonstrate how successful plans are built on the firm foundations of a good location and site design. A Plan should also combine hard measures – such as new bus stops and cycle ways, and soft measures – such as help with individual journey planning. The Travel Plan should integrate all measures into the design, marketing and occupation of the site. In addition, parking restraint is often crucial to the success of the plan in reducing car use.

An image of the pyramid is contained within Appendix 3.

The travel pyramid, as detailed within 'Making Residential Travel Plans Work', contains the following five key concepts that are central to a good MMP:

- Location Residents need to be within easy reach of shops and services so that walking or cycling becomes the natural choice – readily achievable given the proximity of Rathcoole Village;
- Built Environment Low-density developments are hard work to get round by bike and foot.
   Encouraging compact development that is walking and cycling friendly, with low parking allowances, is crucial in encouraging sustainable travel choices;
- Mobility Management Plan Coordinator Successful mobility management plans need people. The
  Coordinator plays a crucial role in developing the plan and working with residents and management to
  ensure the plan meets their needs for access and evolves over time;
- Services and facilities Good public transport can help reduce the need for on-site parking. Other
  measures, such as broadband internet access and home deliveries can reduce the need to travel off
  site; and
- Promotional strategy Welcome packs, public transport information and additional cycle parking facilities can all help introduce the mobility management plan to residents and build enthusiasm.

In terms of location and built environment, one can see the significant advantages of the subject site, within easy access of bus facilities, with the layout of the proposed development making cycling and walking safer and more efficient.

This report will demonstrate the central role that the Mobility Management Plan Coordinator will play in setting targets, minimising private car usage and maximising the circulation of promotional material among residents.

### 6.0 MOBILITY MANAGEMENT PLAN

### 6.1 CONTENTS

Section 6.2 of this report will summarise the existing road network, public transport, walking and cycling facilities at the subject site.

Section 6.3 takes the existing commuter travel patterns for the area and proposes 'year-of-opening' and 'year-of-opening plus 5' modal splits for the proposed development. It also contains proposed future improvements public transport and cycling facilities nearby which will assist in the attainment of the stated targets.

Section 6.4 details the objectives of the Mobility Management Plan Strategy and lists a suite of measures that aim to facilitate the achievement of these objectives.

Section 6.5 details the central role of the Mobility Management Plan Coordinator in the attainment of the objectives as set out within Section 6.4.

Section 6.6 contains some concluding comments.

### 6.2 CAR, PUBLIC TRANSPORT, WALKING / CYCLING FACILITIES AND COMMUTER TRAVEL PATTERNS

### 6.2.1 ROAD NETWORK

The development is located within Rathcoole Village, approximately 80 metres north of Main Street, with direct links to the west Dublin suburbs and the N7 / Naas Road.

### 6.2.2 EXISTING PUBLIC TRANSPORT FACILITIES

Figure 6-1 contains details of the LUAS and public transport facilities close to the proposed development.



Figure 6-1: Existing bus and LUAS transport facilities close to subject site

The 69 and 69x routes from Rathcoole to Hawkins Street runs 3 times per hour during the morning peak, with the 39A along Prussia Street running 8 times per hour during the peak.

The frequency of each of the above routes during the morning peak is detailed within Table 6-1.

Route	<u>Origin</u>	<u>Destination</u>	AM Peak time Frequency
69	Rathcoole	Hawkins Street	2 PER HOUR
69X (express, peak only)	Rathcoole	Hawkins Street	1 PER HOUR
TOTAL		-	3 PER HOUR

Table 6-1: Route origins, destinations and frequencies

Route 69 provides a direct link to the LUAS Red Line which terminates at Teach Sagard, 3 km east of the subject site.

Figure 6-2 provides a map detailing the LUAS network, and the location of the Saggart stop within it:

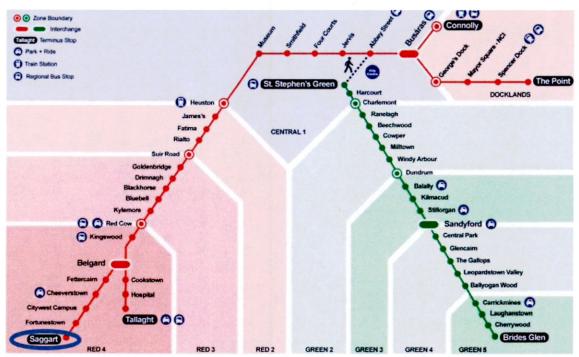


Figure 6-2: Location of the Saggart stop within the LUAS network

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### 6.2.3 EXISTING CYCLING AND PEDESTRIAN FACILITIES

There are no cycle lanes in the vicinity of the proposed development.

The good quality footpath facilities within Rathcoole Village, and along one side of Tay Lane.

### 6.3 PREDICTED POST-DEVELOPMENT TRAVEL PATTERNS

### 6.3.1 INTRODUCTION

This report will assume that the modal splits derived within section 3.3 will apply on the day of opening of the development, and details them within Table 6-2 below:

Table 6-2 below also indicates a target profile for the future residents at the Rathcoole retirement housing development for the day of opening plus five years:

Transport Mode	Commuter Usage (%) (day-of-opening)	Commuter Usage (%) (+ 5 years)	
Car	64	45 (-19)	
Walking	25	30 (+5)	
Bus	6	12 (+6)	
Cycle	3	8 (+5)	
LUAS	2	5 (+3)	

Table 6-2 - Future Target Modal Splits for proposed Blackhorse Avenue residential Development

Proposed targets for five years after the day of opening of the proposed development indicate commuting by private car decreasing to 45%, with the modal split for walking increasing to 3%, bus increasing to 12%, cycling increasing to 8% and LUAS usage increasing to 5%.

The section immediately below details future cycling and bus projects that will facilitate the planned increases in travel to work by these two modes.

### 6.3.2 FUTURE PLANNED PUBLIC TRANSPORT AND CYCLING NETWORK IMPROVEMENTS

### Greater Dublin Area Cycle Plan

Figure 6-3 details the network improvements proposed within the GDA cycle plan:

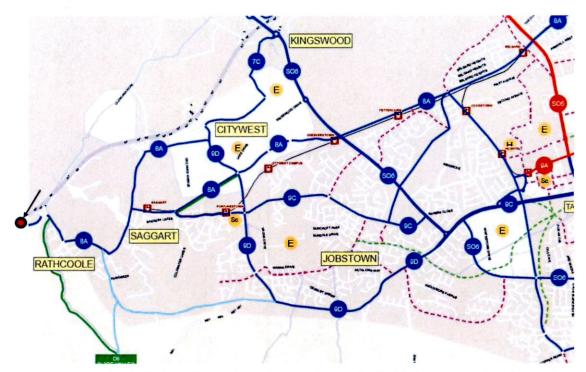


Figure 6-3: Proposed cycle facilities close to the subject site (GDA cycle plan) (primary routes in red, secondary in blue)

### **Radial Routes**

### Radial Route 8A

Route 8 runs from South Great George's Street via the Coombe area and Dolphin's Barn to the junction of Crumlin Road and Sundrive Road (Route SO2).

Route 8A follows Crumlin Road past the Children's Hospital, Bunting Road to Walkinstown, through Ballymount to cross the M50 at Junction 10 and out to Citywest / Fortunestown /Saggart via Belgard.

This route will run from the City Centre to the Navan Road via Grangegorman, Prussia Street, North Circular Road at Hanlon's Corner and Old Cabra Road

Appendix 4 contains the text from the GDA Cycle Network Plan for the Dublin South West Sector.

The day of opening plus 5 target aims to increase the modal split for cycling by 5% to 8%.

The provision of a cycle storage area within the site will assist in achieving this target.

### **Bus Connects**

In 2018, the National Transportation Agency (NTA) published the Core Bus Corridors Project Report ('Bus Connects Report'), a preliminary document outlining proposals for the delivery of a core bus corridor network within Dublin.

Figures 6-4 and 6-5 contains a map detailing the route of the proposed 93, 393 and W8 routes running close to the site.

Appendix 5 contains the text for the Newcastle and Rathcoole area from the Bus Connects report.

Route 93 runs from Rathcoole to the Dublin Port area. It will be an all-day service, running every 60 minutes.

This route would start at the existing 69 terminus in Rathcoole, and connecting to Saggart, Citywest and Clondalkin, and onwards to the City Centre.

Route 393 runs from Rathcoole to the City Centre. It will be a peak-only express service, similar to the existing Route 69x, but with a second trip added in the morning in response to observed significant levels of demand.

The eastern sector of Rathcoole village would also be near the orbital Route W8, running from Maynooth to Tallaght. It will be an all-day service, every 30 minutes, and will provide a new regular link to Maynooth, Celbridge and Hazelhatch Station to the north, and to Saggart, Citywest and Tallaght to the south.



Figure 6-4: Proposed routes to the west of Rathcoole Village



Figure 6-5: Proposed routes to the east of Rathcoole Village

The day of opening plus 5 target aims to increase the modal split for bus transport by 6% to 12%.

The provisions within the Bus Connects Strategy will assist in achieving this target.

### 6.3.3 CONCLUDING COMMENT ON MEETING FUTURE MODAL SPLIT TARGETS

The above details on the GDA Cycle Network Plan and the Bus Connects project indicate how projects are planned which will help increase modal share for public transport users and cyclists living within the proposed development.

In addition, the basic pedestrian network in the vicinity is good. The day of opening plus 5 target for walking indicates an increase in this mode of 5% over day of opening split, achievable with good information on walking routes to important destinations for residents.

The 5-year increase for LUAS of 3% is seen as achievable given ongoing trends in the increasing ue of public transport by commuters for leisure-based trips.

In order to further advance the use of non-car-based modes of travel on site, Sections 6.4 and 6.5 of this report will demonstrate how the setting of appropriate objectives and the appointment of a Mobility Management Plan Coordinator (MMPC) to oversee their implementation will ensure that the achievement of sustainable travel modes for occupants at the subject site.

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### 6.4 OBJECTIVES OF MOBILITY MANAGEMENT PLAN STRATEGY

### 6.4.1 INTRODUCTION

A Mobility Management Plan Framework is a tool that brings together site management issues relating to transportation in a coordinated manner. This document puts in place the objectives of the mobility management strategy for the subject site and the specific measures designed to achieve these objectives.

While recognising that not all car trips can be eliminated, this strategy aims to provide sustainable transport choices for both residents and visitors at the site, thus leading to a reduction in private car use for the trip to and from the site. The strategy will detail specific measures for achieving effective modal shift away from the private car.

The aim of this strategy is thus to introduce measures which will maximise the chances that the modal split targets for year of opening and 5 years thereafter are met if not exceeded.

The objectives of the Mobility Management Plan Strategy for the proposed development in order to meet the stated targets for the subject site are as follows:

- To manage the car parking resources in such a manner that generally discourages use of the private car for the journey to work and maximises the efficient use of the limited on-site spaces available (Objective No. 1);
- To encourage residents and visitors to use public transport by providing information on the services available to use public transport. New public transport schemes coming on stream will further aid the achievement of this objective (Objective No. 2);
- To encourage residents to cycle, if appropriate, by providing safe parking, enhanced support / promotion of cycling, and general information on the health benefits of cycling (Objective No. 3); and
- To encourage residents to walk to and from their destination if appropriate, by providing all necessary information on this mode of travel (Objective No. 4).

Table 6-2 assumes that measures will be taken within five years of opening to reduce the modal split for car driver travel down to 45%, to increase bus transport to 12% and LUAS to 5%, and to increase the walking modal split to 30% and cycling to 8%.

A number of the proposals listed to achieve these modal splits are easy and inexpensive to implement. Other measures require initial co-operation and co-ordination both within and between organisations.

The general morale of residents will be, to an extent, dependent on their general state of health and fitness, and increasing their use of non-car-based modes can be a significantly beneficial factor in regard to increased fitness and wellbeing.

### 6.4.2 OBJECTIVE NO. 1 - MAXIMISING THE EFFICIENT USE OF CAR PARKING FACILITIES

### INTRODUCTION

The following measures will help both to discourage use of the private car for journeys to and from the site by residents and visitors:

### **INCREASING CAR OCCUPANCY RATES**

Increasing car occupancy is a powerful tool in decreasing the volume of car trips to and from this type of development. The Mobility Management Plan Coordinator can achieve such overall trip reductions by promoting car sharing through use of a notice board within the residential development and through use of the website for the development which on-site management will set up.

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### 6.4.3 OBJECTIVE NO. 2 - ENCOURAGING GREATER USE OF PUBLIC TRANSPORT

### INTRODUCTION

The predicted increase from 8% to 17% public transport (bus + LUAS) modal split has its basis in the expected local improvements to the public transport access that will come on stream over the coming years, together with upgrades and increased efficiencies within the existing infrastructure.

### **PUBLIC TRANSPORT INFORMATION**

It is vital that timetable information is available to residents in order to encourage maximum usage of the public transport system. Dublin Bus and LUAS timetables should be posted on the notice board within the apartment complex and / or the web site to be set up by on-site management.

### 6.4.4 OBJECTIVE NO. 3 - ENCOURAGING MORE RESIDENTS TO CYCLE

Cycling will be a favoured transport option for a predicted 3% of residents at the proposed development on its day of opening, increasing to 8% five years thereafter.

It is reasonable to assume a significant increase in this modal share over values pertaining in the locality, within the first 5 years after the opening of the residential component of the facility given:

- The provision of a bike storage area within the site for residents and visitors, so that a safe parking space exists for residents and visitors if they choose to utilise this mode (this area is in addition to the assumed storage capability within each housing unit);
- The improvements detailed within the Greater Dublin Area Cycle Plan; and
- The provision of information on the development's noticeboard and website regarding optimum cycle
  routes to various nearby city centre and suburban centres of retail and recreational activity.

### 6.4.5 OBJECTIVE NO. 4 - ENCOURAGING MORE RESIDENTS TO WALK

Walking will be a favoured transport option for a predicted 25% of residents at the proposed development on its day of opening, increasing to 30% five years thereafter.

Increase in this modal share will be facilitated by noticeboard and website information on quickest / most efficient / safest routes to town, nearby districts and closest bus stops and LUAS Stations.

### 6.5 ROLE OF THE MOBILITY MANAGEMENT PLAN COORDINATOR

### 6.5.1 APPOINTMENT OF MOBILITY MANAGEMENT PLAN COORDINATOR

It will be the intention of on-site management at the proposed development' to appoint a Mobility Management Plan Coordinator to administer, implement, monitor and review the mobility plan management objectives detailed within this report. The coordinator will also liaise with the local authority, public transport companies and facility managers on issues relevant to the maximisation by commuters of non-car based journeys to work.

It is anticipated that the Buildings Manager at the proposed development will fulfil this role.

### 6.5.2 DUTIES OF THE MOBILITY MANAGEMENT PLAN COORDINATOR

This Mobility Management Plan has, as its basic aim, the minimisation of private car usage by all residents and visitors, and the maximization of travel by soft modes and public transport.

The co-ordinator will have a vital role in encouraging and enabling residents and visitors at the subject site to adopt the measures listed within the document to achieve the objectives listed above within section 6.4. Details of the duties of the co-ordinator are as follows:

- Promoting the environmental and health benefits of their travel choices;
- Promoting bike use;
- Promoting walking for at least part of their chosen journey;
- Promoting rail and bus based travel; and

 Monitoring the modal splits for resident and visitor journeys to and from the site of the proposed development on an annual basis.

### Promoting the environmental and health benefits of their travel choices

It will be the duty of the coordinator to make residents aware of the environmental and health consequences of their travel choices. The co-ordinator should employ various media to communicate this message. These could include a newsletter and a mobility website, and providing information on issues such as available public transport services, where to buy a bike, and the health benefits of cycling / walking.

### Promoting bike use

The coordinator can promote the use of this mode of travel using other measures such as the setting-up of a cycle users group so that experienced cyclists within the development can help encourage newcomers to this mode of travel. The coordinator can also help by

- Keeping tool kits and spare parts on site for cyclists to avail of;
- Using the web site and newsletter as an aid to encouraging the mode of travel, pointing out the
  potential time savings involved; and
- Keep in contact with the local authority to monitor the progress in implementation of the proposed cycle track network in the locality.

It would also be possible for coordinator at the proposed residential development to agree a group bicycle insurance scheme for residents at preferential rates in order to maximise its use as a mode of travel to work.

### Promoting walking to work

As with cycling, the coordinator should promote the health and fitness benefits of walking and its general viability as a method of getting to and from the site to local destinations. The coordinator can also liaise with the local authority on work being done close to the candidate site to make the local road network more pedestrian friendly.

### Promoting rail and bus based travel

The coordinator will promote a public transport culture among residents and visitors. The coordinator can use the newsletter and website to provide information on public transport, in particular timetable information, fares, bus and LUAS stop location and route planning, together with information on free-travel options available to residents.

### Monitoring the modal splits for the residents' journey to work

In order to maximise the effectiveness of the Mobility Management Plan, the coordinator should be responsible for the ongoing monitoring of the modal splits within the plan, including the carrying out on a regular basis of travel surveys of all on-site residents and regular visitors.

### 6.6 CONCLUDING COMMENTS ON MOBILITY PLAN

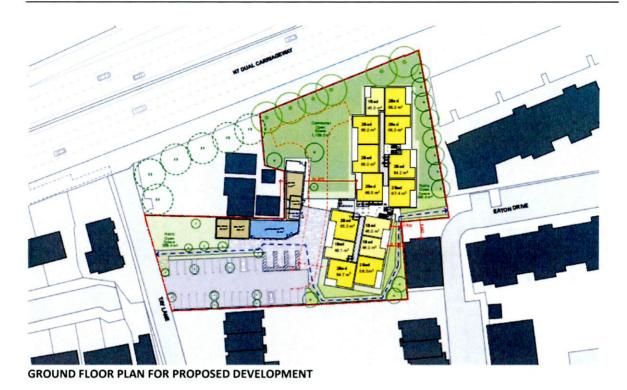
This Mobility Management Plan is required to insure the sustainability of modal choices by residents and visitors at the subject site. This plan is entirely sustainable given the availability of public transport and soft mode options for the potential residents and visitors, the proximity of the site to Rathcoole Village, Saggart, Newcastle and the Tallaght area, recreational centres, and the incentives for residents and visitors to cycle given the availability of safe cycle parking on site.

The above Mobility Management Plan for the subject site aims to achieve a sustainable travel culture for residents at the proposed apartment development by:

- Outlining a travel strategy,
- Listing measures to achieve its objectives; and
- Committing to appoint a Mobility Management Plan Coordinator to oversee and monitor progress towards the improved modal splits predicted for the site five years after opening.

### MRCL TRANSPORT PLANNING PROFESSIONAL

**APPENDIX GROUND FLOOR PLAN** / SITE **LAYOUT** 



### MRCL TRANSPORT PLANNING PROFESSIONAL

**APPENDIX** TRICS DATA TRICS 7.8.2 210621 B20.20 Database right of TRICS Consortium Limited, 2021. All rights reserved

Monday 01/11/21
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Calculation Reference: AUDIT-306901-211101-1113

### TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
Category : N - RETIREMENT FLATS
TOTAL VEHICLES

GRE	ATER LONDON	
WF	WALTHAM FOREST	1 days
SOU	TH EAST	
IW	ISLE OF WIGHT	1 days
KC	KENT	1 days
WS	WEST SUSSEX	1 days
EAS	T ANGLIA	
CA	CAMBRIDGESHIRE	1 days
NF	NORFOLK	1 days
EAST	T MIDLANDS	
DS	DERBYSHIRE	1 days
LN	LINCOLNSHIRE	1 days
WES	T MIDLANDS	
WM	WEST MIDLANDS	1 days
YOR	KSHIRE & NORTH LINCOLNSHIRE	11122 1150
NY	NORTH YORKSHIRE	1 days
WY	WEST YORKSHIRE	1 days
NOR	TH WEST	
CH	CHESHIRE	1 days
WAL	ES	
CF	CARDIFF	1 days
MM	MONMOUTHSHIRE	1 days
SCO	TLAND	
EB	CITY OF EDINBURGH	1 days
FI	FIFE	1 days
CON	NAUGHT	•
GA	GALWAY	1 days
LEIN	ISTER	
KK	KILKENNY	1 days
	GREWF SOU KC WS CA NF EAST LN WES WY NOR CH WALL MM SCO EFI CON LO CA LO CA LO CA MM	SOUTH EAST IW ISLE OF WIGHT KC KENT WS WEST SUSSEX EAST ANGLIA CA CAMBRIDGESHIRE NF NORFOLK EAST MIDLANDS DS DERBYSHIRE LN LINCOLNSHIRE WEST MIDLANDS WM WEST MIDLANDS YORKSHIRE & NORTH LINCOLNSHIRE NY NORTH YORKSHIRE WY WEST YORKSHIRE WY WEST YORKSHIRE WALES CF CARDIFF MM MONMOUTHSHIRE SCOTLAND EB CITY OF EDINBURGH FI FIFE CONNAUGHT GA GALWAY LEINSTER

This section displays the number of survey days per TRICS® sub-region in the selected set

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### Primary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: No of Dwellings Actual Range: 17 to 88 (units: ) Range Selected by User: 17 to 88 (units: )

Parking Spaces Range:

All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range:

All Surveys Included

Percentage of dwellings privately owned:

All Surveys Included

<u>Public Transport Provision:</u> Selection by:

Include all surveys

Date Range:

01/01/13 to 20/11/19

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

<u>Selected survey days:</u> Monday 3 days 5 days Tuesday Wednesday 3 days Thursday 3 days 4 days Friday

This data displays the number of selected surveys by day of the week.

Selected survey types: Manual count Directional ATC Count

18 days

0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines

3

Selected Locations: Edge of Town Centre Suburban Area (PPS6 Out of Centre)

Edge of Town Neighbourhood Centre (PPS6 Local Centre)

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

<u>Selected Location Sub Categories:</u> Residential Zone Village No Sub Category

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

### Secondary Filtering selection:

Use Class: C3

18 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range: All Surveys Included

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### Secondary Filtering selection (Cont.):

Population within 1 mile:	
1,000 or Less	1 days
1,001 to 5,000	3 days
10,001 to 15,000	2 days
15,001 to 20,000	2 days
20,001 to 25,000	2 days
25,001 to 50,000	7 days
50,001 to 100,000	1 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:	
5,000 or Less	2 days
5,001 to 25,000	1 days
25,001 to 50,000	1 days
50,001 to 75,000	1 days
75,001 to 100,000	2 days
100,001 to 125,000	3 days
125,001 to 250,000	3 days
250,001 to 500,000	4 days
500,001 or More	1 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:		
0.5 or Less	2 days	
0.6 to 1.0	5 days	
1.1 to 1.5	10 days	
1.6 to 2.0	1 days	

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:	
Yes	2 days
No	16 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:
No PTAL Present 17 days
0 None 1 days

This data displays the number of selected surveys with PTAL Ratings.

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Total No of Dwellings:
Survey date: WEDNESDAY
CH-03-N-01 RETIREMEN 60 05/10/16 Survey Type: MANUAL RETIREMENT FLATS CHESHIRE HOBSON STREET MACCLESFIELD Edge of Town Centre
Residential Zone
Total No of Dwellings:
Survey date: FRIDAY
DS-03-N-01 RETIREMENT FLATS 33 Survey Type: MANUAL DERBYSHIRE 16/09/16 DS-03-N-01 LEAPER STREET DERBY Edge of Town Centre Residential Zone Total No of Dwellings:
Survey date: WEDNESDAY
EB-03-N-01 RETIREMENT FLATS
POLWARTH GARDENS 36 25/09/19 Survey Type: MANUAL CITY OF EDINBURGH EDINBURGH MERCHISTON MERCHISTON
Edge of Town Centre
Residential Zone
Total No of Dwellings:
Survey date: FRIDAY
FI-03-N-01 RETIREMENT FLATS
ST MARGARET STREET
DUNFERMLINE 22/05/15 Survey Type: MANUAL FIFE Edge of Town Centre No Sub Category Total No of Dwellings: 47 21/03/16 Survey date: MONDAY Survey Type: MANUAL GALWAY " RETIREMENT VILLAGE GA-03-N-01 BRIDGESTREET BALLINASLOE Edge of Town Centre Residential Zone Total No of Dwellings: Survey date: THURSDAY
3-N-01 RETIREMENT FLATS 27/10/16 Survey Type: MANUAL ISLE OF WIGHT IW-03-N-01 CHURCH ROAD BEMBRIDGE Edge of Town Residential Zone Total No of Dwellings: 40 27/06/19 Survey date: THURSDAY Survey Type: MANUAL

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KK-03-N-01 RETIREN Survey Type: MANUAL KILKENNY 26/09/17 RETIREMENT FLATS DONOUGHMORE BALLYRAGGET Neighbourhood Centre (PPS6 Local Centre) Village
Total No of Dwellings:
Survey date: THURSDAY
LN-03-N-01
RETIREME
NEWPORT ROAD 55 26/10/17 Survey Type: MANUAL RETIREMENT FLATS LINCOLNSHIRE LINCOLN Suburban Area (PPS6 Out of Centre) Residential Zone Total No of Dwellings: 39 Survey date: FRIDAY
MM-03-N-01 RETIREMENT FLATS
BRYNGWYN ROAD 28/06/19 Survey Type: MANUAL MONMOUTHSHIRE NEWPORT Neighbourhood Centre (PPS6 Local Centre) Residential Zone
Total No of Dwellings:
Survey date: FRIDAY
NF-03-N-02
YARMOUTH ROAD
NODWICK! 65 27/09/19 Survey Type: MANUAL RETIREMENT FLATS NORFOLK NORWICH THORPE SAINT ANDREW Neighbourhood Centre (PPS6 Local Centre)
Residential Zone
Total No of Dwellings:
Survey date: WEDNESDAY Survey Type: MANUAL NORTH YORKSHIRE 20/11/19 NY-03-N-01 RETIREMENT FLATS EASTGATE PICKERING Edge of Town Residential Zone Total No of Dwellings: Survey date: MONDAY 26/09/16 Survey Type: MANUAL WF-03-N-01 F SEWARDSTONE ROAD RETIREMENT FLATS WALTHAM FOREST 15 WALTHAMSTOW Edge of Town Residential Zone Total No of Dwellings: 40 Survey date: TUESDAY WM-03-N-01 RETIREN 05/11/19 Survey Type: MANUAL WEST MIDLANDS RETIREMENT BUNGALOWS SHORT STREET STOURBRIDGE Edge of Town Centre Residential Zone Total No of Dwellings: 25 Survey date: TUESDAY 21/11/17 Survey Type: MANUAL RETIREMENT FLATS WS-03-N-02 WEST SUSSEX 17 FITZALAN ROAD LITTLEHAMPTON Edge of Town Centre Residential Zone Total No of Dwellings: Survey date: TUESDAY 18/0
WY-03-N-01 RETIREMENT BUNGALOWS Survey Type: MANUAL WEST YORKSHIRE 18/06/19 GROVE AVENUE HALIFAX WHEATLEY WHEATLEY
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total No of Dwellings:
Survey date: TUESDAY

34 23/10/18

Survey Type: MANUAL

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Monday 01/11/21

OFF-LINE VERSION Martin Rogers Consulting Limited 7 Butterfield Avenue Rathfarnham, Dublin 14 TRIP RATE for Land Use 03 - RESIDENTIAL/N - RETIREMENT FLATS

TOTAL VEHICLES

Calculation factor: 1 DWELLS

Estimated TRIP rate value per 58 DWELLS shown in shaded columns BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES				TOTALS				
	No. Days	Ave. DWELLS	Trip Rate	Estimated Trip Rate	No. Days	Ave. DWELLS	Trip Rate	Estimated Trip Rate	No. Days	Ave.	Trip Rate	Estimated Trip Rate
00:00 - 01:00												
01:00 - 02:00												
02:00 - 03:00												
03:00 - 04:00												
04:00 - 05:00												
05:00 - 06:00												
06:00 - 07:00												
07:00 - 08:00	18	42	0.028	1,605	18	42	0.022	1.299	18	42	0.050	2.904
08:00 - 09:00	18	42	0.074	4,279	18	42	0.069	3.974	18	42	0.143	8.253
09:00 - 10:00	18	42	0.087	5,043	18	42	0.096	5.578	18	42	0.183	10.621
10:00 - 11:00	18	42	0.111	6.419	18	42	0.109	6.343	18	42	0.220	12,762
11:00 - 12:00	18	42	0.104	6.037	18	42	0.090	5.196	18	42	0.194	11.233
12:00 - 13:00	18	42	0.096	5.578	18	42	0.091	5.273	18	42	0.187	10.851
13:00 - 14:00	18	42	0.100	5.808	18	42	0.097	5.655	18	42	0.197	11.463
14:00 - 15:00	18	42	0.130	7.565	18	42	0.132	7.642	18	42	0.262	15.207
15:00 - 16:00	18	42	0.084	4.891	18	42	0.088	5.120	18	42	0.172	10.011
16:00 - 17:00	18	42	0.079	4.585	18	42	0.070	4.050	18	42	0.149	8.635
17:00 - 18:00	18	42	0.079	4.585	18	42	0.086	4,967	18	42	0.165	9.552
18:00 - 19:00	18	42	0.058	3.362	18	42	0.071	4.126	18	42	0.129	7.488
19:00 - 20:00	1	40	0.000	0.000	1	40	0.000	0.000	1	40	0.000	0.000
20:00 - 21:00	1	40	0.000	0.000	1	40	0.000	0.000	1	40	0.000	0.000
21:00 - 22:00												
22:00 - 23:00												
23:00 - 24:00												WI - W
otal Rates:			1.030	59.757		Marie Control	1.021	59.223			2.051	118.980

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP\*FACT. Trip rates are then rounded to 3 decimal places.

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### Parameter summary

Trip rate parameter range selected: Survey date date range: Number of weekdays (Monday-Friday): Number of Saturdays: 17 - 88 (units: ) 01/01/13 - 20/11/19 18 Number of Sundays: Surveys automatically removed from selection: Surveys manually removed from selection:

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

### MRCL TRANSPORT PLANNING PROFESSIONAL

**APPENDIX** TRAVEL PLAN **PYRAMID** 

### The travel plan pyramid



Services & Facilities public transport; car clubs; parking management; sub-site travel plans etc.

Coordinator
To develop further measures and oversee the plan on an ongoing basis

Built Environment
Site design; public transport infrastructure; facilities to reduce the need to travel; parking provision; off-site measures

Location
Proximity to existing facilities and services

### MRCL TRANSPORT PLANNING PROFESSIONAL

**APPENDIX GDA CYCLE** PLAN -**SOUTH WEST SECTOR** 

De age

### 3.6. Dublin South West Sector

National Transport Authority

Cantrassil Street in the oty centre, through the inner suburbs of Rathmines and Harold's Cross, to serve the areas of Terenure, Kimmage, Walkinstown, Tallaght, Filmouse and Rathfamham. There is considerable overlap between the West and South West sectors, with Interconnecting routes between the two. Some radial cycle routes originate in one sector at the city centre but end up in the The Dublin South West Sector extends outward from the twin comdons of Camden

Refer to Maps E1, E6 and E7 in Part 2 for illustration of the existing main cycle routes in this sector. The existing cycle traffic flows in this sector are shown on Map DD3 in Part 7.

# 3.6.1 Dublin South West - Proposed Cycle Route Network

The cycle route hierarchy is shown on Maps N1, N6 & N7 in Part 4a.

### Radial Routes in the Dublin South West Sector

Due to the peculiarities of the general road network in this sector, which lacks high capacity main traffic arteries unlike most of the rest of the city, the cycle route network is quite compliex. The main cycle routes in this sector form a web of criss-crossing routes, with various spurs and cross links, as follows: Route 7 Route TE is a cross-link from the Wiest sector into the South West sector. It branches off Route 7D on the Nass Road at Kylenore and foliows Robinhood Road brough the Ballymount industrial area to crose the M50 on a new bridge between Junctions 9 and 10 at Ballymount Cross, and then outward through the areas of Kingswood, Begard, Cookstown, Fettercailm and Cheeverstown at the northern edge of the Tallaght suburbs.

Route 8 from South Great George's Street via the Coombe area and Dolphin's Barn to the junction of Crumin Road and Sundtive Road (Route SO2);

Route 84 follows Crumin Road past the Children's Hospital, Bunting Road to Walkinstown, Irrough Ballymount to cross the MSD at Junction 10 and out to Citywest / Fortunestown via

slightly meandering route mainly along minor reslocintal streets through Crumiin Cross and Greenhils to Tymon Part and orward to Tallaght wat the outer and or the Greenhils Road. It is a much before allemative to the existing notife via the very busy and intimicating Walkinstown. Roundabout and the narrow section of Greenhils Road along the edge of the Ballymount. Route 8B branches off Route 8A midway along Crumin Road at Windmill Road and follows a ndustrial area; and

Route BC from Donore Avenue south of Cork Street via Clogher Road and Kildare Road through the heart of the Crumin residential district to Our Lady's Children's Hospital on Crumin Road where it crosses Route BA, then along Dirmopph Road and Long Min Road to gross the Nass Road (at a very difficult junction), and then via Narigor Road to the Park West area, with two branches towards Palmersbown to the north and to older Clondalkin further west.

Route 9 towards Tailaght along Clanbrassii Street and through Harold's Cross, where it branches into two main sours;

<u>Route 34</u> tolows kinmage Road to the kinmage Cross Roads (KCR), then Forthed Road and Wannion food to look the N81 Templeoge Road and known and to Talagott bown centre. (The section of this route through kinmage and Handids Cross is poor for cyclists with minimal and part-time advisory cycle laines. There is no scope for improvement due to the narrowness of the road dose proximity of buildings. A before alternative is available with an proposed Rover Poodle Greenway as described lailer, which follows closely parallel to the west of the road. West of the KCR the route improves considerably for cyclists with better cycle laines or cycle

<u>Route 95</u> spits from Route 9A at Haroid's Cross and follows Terenure Road through Terenure Cross and then Templeogue Road through Templeogue Village to re-join Route 9A at Templeogue Bridge. This route provides inter-connection with Route 10 towards the southeast ofly centre via Rathmines;

Stannaway Road west of Kimmage and then along Wellington Lane to join Route 9A at Spawell to connect to Tallaght. It also provides a continuation from Route 9A west of Tallaght via Fortunestown and Citywest to Saggart; Route 90 is an alternative to the Harold's Cross route from Route 80 at Clogher Road via

Route 9D would provide a traffic-free option branching off Route 9A at Kimmage Cross Roads and following the River Pooche Greenway to Tymon Park where a new bridge is required over the MSO in the centre of the part to connect with Castelymon Road and rejoin Route 9A. West of Tailaght it provides a loop through Jobstown along the NS1 and then northward into Chywest,

<u>Route 10</u> from Camden Street through Rathmines, Rathgar and Terenure to Rathfamham, where it splits into several branches. South of Rathfamham there are 3 branch routes that extend southward through the surrounding suburban area to connect with Orbital Route SO6 along Grange Road and Taylor's Lane

SO6. Knootkyon Road and Ballycullen Road are local secondary routes that branch off southward at various points. There are also northward links across the River Dodder to Radial Route 9 at Spawell and Templeogue Bridge; <u>Route 10A</u> turns south-westward along Butlerfield Avenue (also on Route SO4) and runs paraliel to the River Dodder to Fintouse and Oldcourt beside Old Bawn Bridge on Orbital Route SO6. Knocklyon Road and Ballycullen Road are local secondary routes that branch off

Route 10B follows Wilbrook Road and Ballyboden Road southward

Route 10C along Grange Road; and

Roufe 100 along Nutgrove Avenue for a short section and then turns south via Stonemason's way to Bailinteer.

Route 10 at Rathmines Road, nearly 700 cyclists on Route 9 at Clandrassil Street and 150 cyclists on both Route 6.2 at Cognet Road and Route 8.4 at Churilin Road. Further out in the subbrins, the cycle buffor Road and Route 8.4 at Churilin Road. Further out in the subbrins, the cycle buffor model indicates moderately strong demand of 200 to 400 cyclists on Routes 9 and 10 out to tust beyond Rathfamham and Templeogue. Otherwise there are fathy low hows in the range of 100 to 200 Traffic data for the radial routes indicates peak period volumes ranging from about 800 cyclists on on the various secondary routes in the South West sector, and also on Primary Route 9 to Tallaght, which is about 10km from the edge of the city centre. There are likely to be more local trips on the various routes that are not reflected in the model

### Orbital Routee in the Dublin South West Sector

There are six orbital routes in this sector that provide cross-links between the radial routes and give access to destinations within this sector, and in the adjoining West and South Central sectors: Route 901; Grand Canal Route linking from Riatio eastwards via Harold's Cross Bridge and Portobello Bridge to the Dublin 2 and Dooklands office district; Route 502: From Kilmainham in the northwest through Crumin, Kimmage, Haroid's Cross and

Route 903: From Rathgar and Dartry to Miltown, Clonskeagh and Ballsoridge, mostly along the proposed. Dodder Valley Greenway. This route links to UCD at Clonskeagh. There is a connection from Tallaght via Route 9A at Oldbridge Road in Templeogue; Rathmines to Ranelagh and Balisbridge via Sundrive Road, Kentiworth Road, and Castlewood

Route 904: from Dundrum, Churchtown and Nutgrove through Rathfamham and Templeogue to Greenhils and Walkinstown;



<u>Boute SOS.</u> Dundrum to Tailaght via Bailyboden and Knocklyon and Fithouse. It will require new permeability links between Nufgrove, Bailyboden and Tempieroan. Otherwise the route could overlap with SO6 for a short section along Taylor's Lane; and

Mattonal Transport Authority

Route SO6: Dun Laoghaire to Talaght via Ballycullen and Old Bawn

# Other Secondary Cycle Routes in the Dublin South West Sector

In addition to the numbered radial and orbital cycle routes named above, there are also several other local secondary cycle routes that extend the network across the wide suburban area. Examples are Cookstown Road with a link to Fortunestown Way in the Tallagrit area. Route numbers are not proposed for these routes as they are of local function only and do not form part of the long distance Ballytoan Road in the Rathfamham area, Knocklyon Road, Ballycullen Road, Kiltipper Road and cycle routes that extend across the wider city area.

# Extering Permeability for Cyclists in the Dublin South West Sector

network by using quief streets and roads that do not require cycling facilities due to the low volume and goed of traffic. Most residential areas in the southwest are quite permeatelle with a donese network of local roads that provide many convertient route cyclosis. This feature did give rise to some difficulties of inappropriate through traffic and traffic cainting has been installed on many roads in areas The cycle network maps N5 and N7 show where cyclists can permeate through blocks within the road such as Crumlin and Templeogue. Where there are obstacles to permeability, there are several good examples of pedestrian and cycle links as follows:

- Cowper Link from Darby to Sandford: This crosses the Luas Green line at the Cowper stop and follows quiet residential streets for form an orbital connection between the Darby-Rathgar area at Highfield Road and Sandford Road in the southern part of Raneiagh;
  - River Poddle crossing at Bangor Road. There is a footbridge that provides a link between the Crumin area and Kimmage Road Lower,
    - Templeogue Woods link to Templeogue Road and Cypress Grove Road; and
- In the outer areas of this sector, there are many open public green areas that enable walking and cycling links between housing estates. Good examples are in the areas of Cookstown and Fortunestown as shown on Map N6. Formal cycle tracks are proposed through these green areas with dished kerb accesses and toucan crossings of main roads such as shown in the roliowing photograph.

# Existing Greenways in the Dublin South West Sector & Problems at Public Parks

scope to provide an extensive network of such traffic-free cycle routes through public parks and less forms open green spaces. South Dubin Courty Council has provided barriers at most entry points to certain parks in the county, which in some cases little typicis' access to an extensive network of parks with potential for plessant and safe cycling away from traffic. The situation is similar in the other parts of this sector within the Dubin City Council area, such as at Eamonn Ceannt Park and Stannaway Park. There are no formal greenways at present in the Dublin South West sector, although there is great



Route 90: Barrier at Entrance to Eamonn Ceannt Park on Sundrive Road

The proposed cycle route network includes a suggested feeder cycle route along Stannaway Road and through Eamonn Ceannt Park to link to Secondary Radiai Route 8C at Clogher Road. This would pass through the gate shown in the photo above. A good example of cycle-friendly access is shown in the following photograph of the edge of Bushy Park alongside Templeogue Road where there is a formally designated shared footpath and cycleway.



Shared Waltway/Cycleway at Bushy Park, Templeogue Road, Terenure

### 3.6.2 Dublin South West - Proposals for Cycle Route Network Additions and Improvements

National Transport Authority

A cycle network study for the Tallaghit area was previously prepared by South Dublin County Council (SDCC) in 2011. This study addressed the cycle access routies to the central county town of Tallaght and links towards Dublin City Centre. These proposals include the following key routes:

- New cycle facilities along parts of Radial Cycle Route 9A from Templeoque to Tailaght, and the N81 Blessington Road dual cartiageway adjoining westward to the R136 Cookstown Road unction (F)
  - Dodder Valley Greenway from Templeogue to Bohemabreena: a joint study (along with NTA. DCC and DLRCCI was completed in late 2012:

0

- Wellington Lane cycle route from Spawell to Templeville Road at Greenhills (Route 9C); 9
- Taliaght to Ballyboden cycle route along Old Bawn Road and via the Dodder Valley Part and Knockiyon with a new bridge across the River Dodder (Route SOS); 0
  - Upgrades to Orbital Cycle Route 306 between Scholarstown and Old Bawn via the Ballycullen Œ.
    - Upgrades to Orbital Cycle Route SOS along the Belgard Road between Tallaght and Clondalkin 8
- Road becomes very narrow and bendy with increasing frontage constraints nearer to Walkinstown. This section of road is proposed as a feeder route only, with a better through route 88 available to the south that avoids the very busy Walkinstown Roundabout, Upgrades to Greenhills Road, which forms part of Radial Cycle Route 88 from Taliaght towards the city centre via Tymon Park and Greenhills. North of the M50 bindge crossing Greenhils. 6
  - Upgrades along Whitestown Way and Cookstown Way, a local Secondary Cycle Route that passes just west of Tailaght Town Centre; Ē
    - Jobstown Stream Greenway from Sean Walsh Park on Old Bawn Road through the Killnarden area to Jobstown, 8
- New cycle facilities and upgrades along the Route 9C at Fortunestown Way/Lane towards Saggart, and 8
- Improvements on Orbital Route SO6 at Kingswood Interchange on the N7 Naas Road crossing (Infining to Radial Routes 7C and 7D). 8

current proposals by Dublin City Council for additional or improved cycle routes in this sector consist of the following: He

- Grand Canal Greenway extension westward from Portobello Bridge to Blackhorse.
- New cycling facilities along Radial Cycle Route 8C from South Circular Road along Clogher Road and Kildare Road to Crumiin Hospital: (T) ê
- Improvements to cycle lanes along Bunting Road (Route 8A) from Crumlin Hospital to Walkinstown Roundabout: 9
- New cycle facilities along Orbital Route SO4 from Walkinstown Roundabout to Kylemore and Ballyfermot Đ

Upgrades to Radial Cycle Route 96 along Harold's Cross Road, Terenure Road and

(a)

- Templeoque Road, and
- Upgrades to Radial Cycle Route 10 along from Portobello Britige on the Grand Canal along Rathmines Road and Rathgar Road to Terenure Cross. ε

### Additional Cycle Route Network Proposals

A gap analysis has confirmed that the existing local authority proposals are quite comprehensive and there is limited need for significant additions to the proposed cycle network in this sector as follows:

- Missing section of Radial Route 10A along Butterfield Avenue to Rattramham as an extension of the existing cycle tracks along Filmouse Road; P
- Radial Route 9D along the Biessington Road from Jobstown westwards to Citywest;

(Q)

(i)

0

- Radia Route 84 from Fortunestown to Walkinstown: Complete missing sections and upgrade this route that crosses the MSO at Junction 10, Ballymount, for access to the major employment area.
- New traffic-free cycle crossing of the M50 on route 7E from Bailymount to Clondalkin and Belgard,
  - Radial Route 8B from Tallaght to Greenhills and Crumlin via Tymon Park (New radial route to Dypass Walkinstown Roundabout); (u)
- Tallaght Town Centre Cycle Network; and

E

- Local route permeability in Tallaght through large blocks of industrial estates: 0
- Mayberry Road Link to Broomhill Road, which connects to Airton Road, into the grounds of I.T. Tallaght and through to Tallaght Village centre; (1)
- Belgard through Cookstown Industrial Estate to Tallaght Hospital and onward to Tallaght Town Centre at Belgard Square North, plus an eastward spur to Airton Road via the Belgard Refall Party, and 8
  - Kingswood to Ballymount Link across the MS0 on a new bridge =

### New Greenways in Dublin South West Sector

The following new greenway routes are proposed in the Dublin South West Sector so as to avail of the natural comforts for a mix of amenity and commuter cycling:

- Dodder Valley way: This major greenway will extend for a distance of 18km from the City Centre at the Doddands south-westwards to the Dublin Mountains at Bohernabreena. River Poddle way & Tymon Park Greenways P (a)
- Alternative for Radial Route 9A/9D that is severely constrained in the Harold's Cross and idmmage areas due to the narrow road comfor. The river comfor is mostly open and Tallaght. At Tymon Park there are numerous possibilities for link routes into the surrounding residential areas, with crossings of the M50 on two existing footbridges and one new bridge. accessible between Mount Argus in Haroid's Cross and Tymon Park between Greenhills and



River Podale at Kimmage Manor

Jobotovan Stream Greenway: along a Intoldary of the River Dodder just west of the M50 at Junction 11 and excluding westwards for Skm through the southern part of the Tallaght areas of Kullination and Jobotovan Fortunestown.

12 150.50

Ü



- (d) Western Parkway Greenway: Orbital greenway for cycling along the M50 motorway comdor from the Dodder Valley way at the southern end to the Grand canal way at the northern end. This route would also provide a second connection between the Tailaght area and the Clondarkin area as an alternative to the busy traffic route of Belgard Road.
- (e) Stade Valley Trait: a potential route southward from the vitages of Rathcoole and Saggart along the upper reaches of the Camac River to Britisa at the edge of the Dubin Mountains. This route is an alternative to the very busy N31 Biessington Road and opens up access to a network of quiet rural roads in West Wicklow.

# Bike & Ride to Public Transport Corridors in the Dublin South West Sector

The main radial public transport comfoor in the western part of this sector is the Luas Red Line light rall service that extends from the dty centre to Talloght, with a branch from Belgard westwards to Saggart. This light rall line runs generally paralled in Radial Cycle Routes 7B, 7D and 7E. There is a small number of cycle parting stands at each light call stop, but these last shelter. Each light rall stop is comfortably accessible by bloycle with cycle tracks along busy access routes, or quief local roads to stops like fingewood and Cookstown. At all locations, cycle parting quantum and security will need to be accessed.

In the eastern part of this sector, the main public transport services are bus routes through Terenure and Kimmage. Cycle parting is not provided at bus stops along these routes. Consideration should be given to provision of a few cycle parting stands at key stops along these routes close to intersections with designated main cycle routes.

### Rural Cycle Links from the Dublin South West Sector

# National Cycle Network Routes in the Dublin South West Sector

Long-distance National Cycle Route No.10 will link Dubin to Cort, and Walerford via Killieniny as doubled in the National Cycle Network (NCN) Sooping Study published in 2010. While no formal route selection studies have yet been undertaken for this route. It is reasonable to assume that it may follow the Grand Canal towpath in the Dubin and north kildare area because of the very high quality existing challed in a lineady in place from the city out to Adamstown, which will concide with Dubin Radial Cycle Route 7B.

## Cycle Routes to Rural Towns and Wilages in Southwest Dublin

The nearest large towns beyond the Dubin area in this sector are Naas in County Kildare and Blessington in County Wicklow. There are several villages between these towns and the edge of Dubin and Lallaght. Two main routes extend in a south-westerly direction from the dry towards these towns as

Nase Routis: From Nase, cyclists have a choice of two fouries to get to Dublin. The most attractive route in letters of Quality of Service will be along the Grand Caral way at Sallins, once it is paved for National Cycle Routie's, even though this is slightly the longer of the two options. The more direct route is generally along the confloor of the existing N7 Nase Road, the main traffic route to the city. This main road is currently unsuitable for cyclists as, apart from the M50 motoway, it is the busiest national route in the country with a high-speed dual 3-lane camageway and mostly grade-esparated junctions.

Cyclets are currently better off following an alternative route via parallel local roads from Nass through the villages of Johnstown and Nill, where there is a good quality shared cycleway/fookway provided between the urban areas. East of Kill the local road network is of a local coad network is of a local coad network is of a local coad by whole cyclet tracks, and deviates southward away from the Nass Road. Traffic volumes are low, however, and cyclets can follow these rural roads towards the Dublin suburb of Rathoode via the Killea Road. This route is shown on the proposed inter-Urban Cycle Routes RNS as K4K14 from Kill to the Dublin County Boundary and then on Map RNI as Din Rathoode and Saggari, where it connects with Route 84 towards Dublin orly via Ballymount, and Route 9C towards Tallaght and the city via Terenure.

- (b) Bleesington Route: The direct route from Tailaght to Bleesington is along the N81 national secondary nad, which is a very poor route to cycle becase of heady traffic and last of hard secondary the must of the distance in the section between Joostown and Bittas. A large amount of construction material is supplied from the Bleesington area to the Dublin market and there is a significant number of huds halling gavel and concrete products along the N81 noute. A better route to Blessington is proposed via the R114 regional road that extends from Fimouse via Bohemabreena and over the Bailinascomey Gap. This route is shown on the proposed inter-una to PCHE RNIO as B DB into Oktawn and Filmouse, where it connects with the Dodder Greenway or Route 10A towards Dublin city via Rathfamham.
- gown substantiary in recent decades and now form moderately significant domittones. There is also a large logistics and warehouse part at disensoing between Rathoole and Newcastle that also a large logistics and warehouse part at disensoing between Rathoole and Newcastle that affects tips by staff as well as numerous tuck movements. Futual cycle route DS is shown on Nap RN10 as a link between these 3 satellite settlements along the R120 road and conward via city. Route BA to the greater Tailaght area af Fortunestown. This route continues north-westward along the R425 road from Newcastle to Hazelhatch railway station on the Dubin to Conk line, and from these connects into Celendge in County Kidae. Route DS links Newcastle north-eastward along the R120 road to Grange Castle and onward to either Clondakin via Route BC2 or to Lucian via Route BC7. These two regional roads (R120 and R405) are not confortable for cycle gour to narrow cartiageway. Dendy alignment and busy traffic including many trucks. Segregated cycle tracks would be required.

### Cycling Access Routes to the Dublin Mountains

This sector is bounded to the south by the Dubin Mountains and includes the area of hothills at the northern and north-western side of the mountains. The mountains attract arge numbers of recreational cyclists, especially at weeklends, who enjoy the challenges of the steep climbs, quiet roads and nagged weather conditions. Access for cyclists to the mountains is principally available on 3 routes in addition to the Biessington Route at Ballinascomey Gap:

Upper Dodder Valley, Glenasmole;

m

- (b) The AMXary Road from Rathfamham along the spine of the Dubin and Wicklow Mountains through the Sally Gap to Laragh and beyond. This is shown as Route D2 on Map RN10, and
- The Rockbrook Route is a variation on the Route D2 Military Road that is less direct and carries less traffic. There is a branch eastwards to Glenculien that allows a shorter return route to the city via Kitteman or Slepaside in the South East sector. This is shown as Route D2a on Map RN10.

These routes can be combined as a parallel Dublin Mountain Cycleway that follows roughly the same line as the Quibin Mountain Way walking troute. It could form a great loop for a cycling day trip from Dublin city to the mountains wall the Dodder Valley (18km), across the northern edge of the mountains to the sea at Shankill (3km) and then back to the day along the East Coast Trail (18km) to make an overall trip of roughly 70km. This is shown as Route D403056 on Map RVII0, in the westward direction Route D5 extends from the mountains towards kildare and the village of Rathoorie.

# 3.6.3 Dublin South West Sector - Existing Quality of Service

The existing Quality of Service (QoS) was assessed for the primary cycle routes and a sample of the expondary notices in the Dublin South West sector. The GoS is mostly in the trange of D and C in the assetime and older parts of this sector. There are extensive lengths of GoS level B on the newer roads in the southern and western area, mostly along the lightly used orbital routes.

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### MRCL TRANSPORT PLANNING PROFESSIONAL

**APPENDIX** BUS **CONNECTS** – **NEWCASTLE AND RATHCOOLE** 

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### Maps E11, P11: Newcastle and Rathcoole

### RATHCOOLE

Rathcoole would be served by both a peak and all-day radial route, similar to existing Routes 69 and 69x:

- Route 93 from Rathcoole to Dublin Port. All-day service, every 60 minutes. This route would start at the existing 69 terminus in Rathcoole, and head from there to Saggart, Citywest and Clondalkin on the way to City Centre.
- Route 393 from Rathcoole to City Centre. Peak-only express service, similar to Route 69x, but with a second trip added in the morning in response to observed loads.

The eastern half of Rathcoole would also be near the orbital **Route W8**, described below.

### NEWCASTLE AND GREENOGUE

Newcastle would be served by two all-day routes and one peakonly express:

- Route W8 from Maynooth to Tallaght. All-day service, every 30 minutes. This route would provide a new regular link to Maynooth, Celbridge and Hazelhatch Station to the north, and to Saggart, Citywest and Tallaght to the south.
- Route 256 from Greenogue Business Park to Red Cow.
   All-day service, every 60 minutes. This route would replace
   existing Route 68, but would terminate at Red Cow instead
   of City Centre.
- Route 356 from Greenogue Business Park to City Centre.
   Peak-only express service, similar to existing Route 68x, but with a new evening return trip added.

