

Volume 1: Written Statement incl. Non-Technical Summary

Mixed-Used Development at Dublin Central

For Dublin Central GP Limited

Prepared By: -



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In Association with: -

ACME Architects, MOLA Architects, Waterman Moylan Consulting Engineers, Waterman Structures Ltd., Gross Max Landscape Architects, Scott Cawley Ltd., BDP M&E Consultants, AWN Consulting, Molly & Associates Conservation Architects, ARC Architectural Consultants, Courtney Deery Heritage Consultants

**MAY 2021** 

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#### 1 INTRODUCTION

This Environmental Impact Assessment Report (EIAR) presents the assessment of environmental impacts and applicable mitigation measures associated with the mixed-use development on a 2.2 Ha site referred to as the Dublin Central Masterplan located in Dublin City Centre. This EIAR also provides an assessment of lands labelled Site 3, 4 & 5 – Dublin Central (hereafter, for the purposes of this EIAR, referred to as 'the Proposed Development'). The phrase 'Proposed Development' is used here to describe the entire of the proposed development within 3no. separate and concurrent planning applications for each of Site 3, 4 & 5. This use of the phrase 'Proposed Development' within the EIAR should not be confused with the separate proposed development that is the subject of each of the 3no. separate and concurrent planning applications.

This EIAR has been prepared on behalf of Dublin Central GP Limited ('the Applicant'). This EIAR accompanies 3no. separate and concurrent planning applications made to Dublin City Council (DCC) for Site 3, Site 4 and Site 5 of the Dublin Central Masterplan respectively.

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# 1.1 Summary of the Proposed Development

Chapter 3: Description of Proposed Development of this EIAR sets out the detailed description of the Proposed Development.

### **Dublin Central Masterplan**

The Dublin Central project is an expansive (c. 2.2 Ha) and complex regeneration project. It needs to be delivered in stages to overcome site and project constraints.

A site wide cumulative masterplan has been prepared by Dublin Central GP Limited ('the Applicant') to set out the overall development vision for the Dublin Central project.

The Masterplan area encompasses almost entirely three urban blocks. The area is bounded generally by O'Connell Street Upper and Henry Place to the east, Henry Street to the south, Moore Street to the west, and O'Rahilly Parade and Parnell Street to the north. Moore Lane extends south from Parnell Street through the centre of the masterplan area, as far as its junction with Henry Place.

The Dublin Central Masterplan ('the Masterplan') represents the full development envisaged by the Applicant for the entire of these urban blocks. Those elements outside the planning application site boundaries for Dublin Central Site 3, Site 4 and Site 5 are not as yet fixed and remain subject to detailed design development as part of the Masterplan overall vision at this time.

'The Masterplan' area has been divided into six identifiable sites for the purpose of making separate planning applications. The only development 'proposed' at this time is that subject of 3no. concurrent planning applications for Site 3, Site 4 and Site 5.

Sites 3, 4 and 5 are primarily located adjacent to Henry Street and Moore Street, and contained also by Henry Place, Moore Lane and O'Rahilly Parade.

For the purpose of making the planning applications for Site 3, Site 4 and Site 5, and considering the cumulative effect of the proposed and planned project, the Masterplan represents the interim design for Site 1, Site 2AB and Site 2C (March 2021). This is notwithstanding that further progress on planning design continues to be worked up in the meantime and is ongoing.

#### **Proposed Development**

The description of Proposed Development can be summarised as: -

#### Site 3

The proposed development comprises a mixed-use scheme (c. 15,842.4 sq. m gross floor area) accommodated in 2no. blocks, ranging in height from 1 – 9 storeys over 2no. new independent single level basements. A proposed new Passageway separates the 2no. blocks (Block 3A & Block 3B), connecting Henry Street and Henry Place. The proposed blocks comprise: -

**Block 3A** (Eastern Block) (c. 7,806.3 sq. m gfa), fronting Henry Street, Henry Place and the new Passageway, with modulating building height at 4, 5, 7 and 9 storeys, over single storey basement. Block 3A accommodates: -

- An hotel (c. 7,175.3 sq. m gfa) with 150no. bedrooms from 1<sup>st</sup> to 7<sup>th</sup> floor and ancillary facilities at ground floor and basement, including: hotel reception addressing Henry Place.
- 1no. licensed hotel restaurant / cafe with takeaway / collection facility (c. 138.1 sq. m) at ground floor on the new Passageway and Henry Place; and, 1no. licensed hotel restaurant / cafe with takeaway / collection facility (c. 194.2 sq. m) and 2no. associated external terraces (c. 38.8 sq. m in total) at 8th floor of the proposed hotel.
- 1no. retail unit for use as a 'shop' or 'licensed restaurant / café unit with takeaway / collection facility' (Unit 1 c. 127.2 sq. m) at ground floor on the new Passageway.
- 1no. retail unit for use as a 'shop' (Unit 2 c. 326.5 sq. m) at basement, ground floor and first floor level on the new Passageway and Henry Street.

**Block 3B** (Western Block) (c. 8,036.1 sq. m gfa), fronting Henry Street, Moore Street, Henry Place and the new Passageway, with modulating building height at 1, 3, 5, 6 and 7 storeys, with top storey set back, over single storey basement. Block 3B accommodates: -

- 79no. 'Build-to-Rent' apartment units (c. 6,451.5 sq. m gfa), including 14no. 1-bed studios, 56no. 1-bed apartments and 9no. 2-bed apartments from 1<sup>st</sup> to 5<sup>th</sup> floor, with access from residents' lobby at ground floor on Henry Place.
- Internal residents' amenity areas at ground and 6th floors (c. 325 sq. m in total) and external terrace areas (c. 517.7 sq. m in total) at 6<sup>th</sup> floor.
- Private residential balconies and 'wintergardens' from 1<sup>st</sup> to 5<sup>th</sup> floor inclusive on elevations facing into the open courtyard areas and facing east to the new passageway. Balconies / terraces at 4<sup>th</sup> floor on west elevation to Moore Street and at 5<sup>th</sup> floor on south elevation to Henry Street.
- 5no. retail units, each for use as a 'shop', including: Unit 6 (c. 245.2 sq. m) at ground and 1st floor on new Passageway and Henry Street, Unit 7 (c. 382.4 sq. m) at ground and 1st floor on Henry Street and Moore Street, and Unit 8 (c. 182.2 sq. m), Unit 9 (c. 57.2 sq. m) and Unit 10 (c. 52.5 sq. m) at ground floor on Moore Street.
- 4no. retail units, each for use as 'shop' or 'licensed restaurant / café units with takeaway / collection facility', including: Unit 3 (c. 148.9 sq. m), Unit 4 (c. 53.5 sq. m) and Unit 5 (c. 55.1 sq. m) at ground floor on the new Passageway, and Unit 11 (c. 160 sq. m) at basement and ground floor on Moore Street and Henry Place; 1no. 2-storey building for cultural / gallery use with restaurant / café (c. 123.4 sq. m) replacing No. 10 Henry Place.

All associated and ancillary site development, conservation, demolition, landscaping, site infrastructure and temporary works, including: -

- Conservation, repair, refurbishment and adaptive reuse of part of the existing building fabric, including: -
  - Retention of Nos. 36 37 Henry Street, with modifications, a vertical extension and new shopfronts; Retention of No. 39 – 40 Henry Street (upper floor façade).
  - Retention of Nos. 8 9 Moore Street, with internal and external modifications and new shopfronts.

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- Retention of Nos. 11 13 Henry Place, with internal and external modifications and new shopfronts.
- Works to include repair and upgrade works (where required) of existing masonry, external and internal joinery, plasterwork and features of significance.
- New Passageway linking Henry Street and Henry Place.
- Demolition of all other existing buildings and structures on site (c. 6,701 sq. m), including No.
   38 Henry Street to form new passageway linking Henry Street to Henry Place.
- Demolition of boundary wall onto Moore Lane at the rear of properties at Nos. 50 51 and Nos. 52 – 54 (a protected structure) Upper O'Connell Street.
- 160no. bicycle parking spaces within secure bicycle facility (24no. within Block 3A, 126no. within Block 3B and 10no. in the public realm).
- 1no. external residential courtyard at ground floor in Block 3B.
- Plant at basement and roof level.
- 2no. ESB sub-stations.
- Building signage zones and retractable canopies.
- Removal of existing boundary fence at junction of O'Rahilly Parade / Moore Lane within that part of the site including No. 13 Moore Lane, No. 14 Moore Lane (otherwise known as Nos. 1 3 O'Rahilly Parade and Nos. 14 15 Moore Lane or Nos. 1 8 O'Rahilly Parade and Nos. 14 15 Moore Lane).

#### Site 4

Site 4 comprises a mixed-use scheme (c. 3,290 sq. m gross floor area) in 2no. parts located north and south of the Nos. 14-17 Moore Street (a National Monument / Protected Structures) ranging in height from 1-3 storeys including retained independent single storey basements comprising 15no. apartment units (c. 1,454 sq. m gfa), café / restaurant use (c. 864 sq. m gfa), retail use (c. 617 sq. m gfa), cultural use (c. 60 sq. m gfa) and office use (c. 295 sq. m gfa).

The proposed development to the north of Nos. 14 – 17 Moore Street consists of: -

- Nos. 20 21 Moore Street are refurbished and adapted to provide 1no. café / restaurant / licenced premises with takeaway / collection facility (c. 80 sq. m in total) at ground floor addressing both Moore Street and proposed new public plaza to the rear and 1no. 1-bed apartment and 1no. 2 bed apartment located at 1st and 2nd floor level 4no. in total (cycle and bin storage at ground floor level).
- No terraces or balconies are proposed to the residential units.
- Provision of a new 3 storey extension at the side of No. 17 Moore Street (National Monument / Protected Structure) to act as an extension for ancillary use to the National Monument – a cultural facility (c. 60 sq. m gfa).
- Provision of an archway between the gable of No. 20 Moore Street and the new 2 storey
  extension to No. 17 Moore Street (National Monument / Protected Structure) to form an
  entrance to a new public plaza off Moore Street.
- Provision of a 2 storey building with profiled roof consisting 1no. licenced restaurant / café unit
  with takeaway / collection facility (c. 250 sq. m gfa). This building sits independently of the
  northern boundary of No. 9 Moore Lane at the rear of Nos. 14 17 Moore Street.
- Provision of part of a new public plaza (1,085 sq. m) and associated temporary works pending completion of the combined plaza with the concurrent planning application for the adjoining Site 5 immediately to the north (1,253 sq. m public plaza overall).

The proposed development to the south of Nos. 14 - 17 Moore Street consists of: -

- 11no. apartment units (7no. 1-bed apartments and 4no. 2-bed apartments), accessed from proposed central courtyard from Henry Place in 2 3 storeys buildings (1 storey to rear) contained above ground floor within No. 10 Moore Street (refurbished and adapted), Nos. 11 13 Moore Street (replacement buildings with party wall of No. 12 and No. 13 Moore Street retained) and No. 5A Moore Lane (also known as Nos. 15 16 Henry Place replacement building) and Nos. 17 18 Henry Place (also known as Nos. 4 5 Moore Lane ground floor façade retained) with associated resident storage area at basement level of No. 10 Moore Street.
- 5no. retail units at ground floor: Unit 6 (c. 149 sq. m gfa) and Unit 7 (c. 128 sq. m gfa) on Moore Lane, Unit 10 (c. 69 sq. m gfa), Unit 11 (c. 149 sq. m gfa including basement level) and Unit 12 (c. 58 sq. m gfa) on Moore Street; 2no. licenced restaurant / café units with takeaway / collection facility at ground floor: Unit 4 (c. 250 sq. m gfa including basement level) onto Moore Lane and Unit 7 (c. 130 sq. m gfa including basement level) onto Moore Street.
- 1no. office unit at first floor (c. 221 sq. m gfa) of 6 7 Moore Lane with access from ground on Moore Lane.
- A new courtyard is proposed between the rear of Moore Street buildings and Moore Lane buildings to provide communal open space (c. 155 sq. m) for the residential units.
- All apartment served by terraces / balconies with exception of Unit 13, No. 10 Moore Street.

All associated and ancillary site development, conservation, demolition, landscaping, site infrastructure and temporary works, including: -

- Conservation, repair, refurbishment and adaptive reuse of part of existing building fabric including: -
  - Retention of the buildings facing Moore Street at Nos. 20 21 Moore Street with internal and external modifications and new shopfronts.
  - Retention of the building facing Moore Street at No. 10 Moore Street with internal and external modifications and new shopfront.
  - $\circ$  Retention of Nos. 6 7 Moore Lane with internal and external modifications and new shopfronts.
  - Works to include repair and upgrade works (where required) of existing masonry, external and internal joinery, plasterwork and features of significance.
- Demolition of rear boundary wall onto Moore Lane at the rear of Nos. 50 51 and Nos. 52 54 (a protected structure) Upper O'Connell Street, Dublin 1.
- Demolition of all other existing buildings and structures on site (c. 4,525 sq. m); 44no. bicycle
  parking spaces serving residential, retail and office.
- Plant at basement and roof level; 1no. ESB sub-station onto Henry Place; Building signage zone and retractable canopies.
- Ancillary temporary works at No. 13 Moore Lane and No. 14 Moore Lane (otherwise known as Nos. 1 3 O'Rahilly Parade and Nos. 14 15 Moore Lane or Nos. 1 8 O'Rahilly Parade and Nos. 14 15 Moore Lane), Dublin 1.

#### Site 5

The development is set out as follows: -

A mixed-use scheme in a single building (c. 6,478 sq. m gross floor area) ranging in height from 2 – 6 storeys (top floor set back) over single storey localised basement. The building includes office space (c. 5,753 sq. m) from 1<sup>st</sup> to 5<sup>th</sup> floor with office lobby at ground floor level, with 3 no. terraces at 2nd, 3rd and 5th floor respectively (c. 401 sq. m in total) addressing Moore Street and 3no. licenced restaurant / café units with takeaway / collection facility at ground floor (Unit 1 on Moore Lane & O'Rahilly Parade – c. 228 sq. m, Unit 2 on the proposed new public plaza – c. 271 sq. m and Unit 3 on Moore Street, O'Rahilly Parade and the proposed new public plaza – c. 179 sq. m), together with provision of a 'delivery hub' unit at ground floor level (c. 46 sq. m).

All associated and ancillary site development, demolition, landscaping, site infrastructure and temporary works, including: -

- Demolition of all existing buildings and structures on site (c. 2,312 sq. m).
- Provision of part of a new public plaza (168 sq. m) and associated temporary works pending completion of the combined plaza with the concurrent planning application for the adjoining Site 4 immediately to the south (1,253 sq. m public plaza overall).
- 58no. bicycle parking spaces at ground floor level with associated cycling welfare facilities.
- Plant at basement and roof level.
- Building signage zone and retractable canopies.
- A surface water drainage pipe will be laid between Site 5 and existing services in Parnell Street and will be laid in O'Rahilly Parade and Moore Street.

#### 1.2 Aim of the EIAR

An EIAR is defined in the Draft Guidelines on the Information to be contained in Environmental Impact Statements (EPA, 2017) as: -

"A statement of the effects, if any, which proposed development, if carried out, would have on the environment."

The preparation of this EIAR is in accordance with Directive 2011/92/EU as amended by Directive 2014/52/EU (the Directive), the Planning and Development Act 2000, as amended and the Planning and Development Regulations 2001, as amended. It is also in accordance with the guidelines listed at paragraph 1.3 below.

The prescribed range of environmental factors are as follows: -

"The environmental impact assessment shall identify, describe and assess in an appropriate manner, in the light of each individual case, the direct and indirect significant effects of a project on the following factors: -

- a) population and human health.
- b) biodiversity, with particular attention to species and habitats protected under Directive 92/43/EEC and Directive 2009/147/EC.
- c) land, soil, water, air and climate.
- d) material assets, cultural heritage and landscape.
- e) the interaction between the factors referred to in points (a) to (d)"

In addition, the guidelines quote Article 5(1) of the Directive when describing the contents of an EIAR, as follows: -

"the developer shall include at least: -

- a description of the project comprising information on the site, design, size and other relevant features of the project.
- b) a description of the likely significant effects of the project on the environment.
- a description of the features of the project and/or measures envisaged in order to avoid, prevent or reduce and, if possible, offset likely significant adverse effects on the environment.
- d) a description of the reasonable alternatives studied by the developer, which are relevant to the project and its specific characteristics, and an indication of the main reasons for the option chosen, taking into account the effects of the project on the environment.
- e) a non-technical summary of the information referred to in points (a) to (d); and
- f) any additional information specified in Annex IV relevant to the specific characteristics of a particular project or type of project and to the environmental features likely to be affected."

Article 94 of the Planning and Development Regulations 2001, as amended, provides for the information to be contained in an EIAR as follows: -

"94. An EIAR shall take into account the available results of other relevant assessments under European Union or national legislation with a view to avoiding duplication of assessments and shall contain—

- a) the information specified in paragraph 1 of Schedule 6,
- b) any additional information specified in paragraph 2 of Schedule 6 relevant to the specific characteristics of the development or type of development concerned and to the environmental features likely to be affected,
- c) a summary in non-technical language of the information required under paragraphs (a) and (b),
- a reference list detailing the sources used for the descriptions and assessments included in the report, and
- e) a list of the experts who contributed to the preparation of the report, identifying for each such expert—
  - the part or parts of the report which he or she is responsible for or to which he or she contributed,
  - (ii) his or her competence and experience, including relevant qualifications, if any, in relation to such parts, and
  - (iii) such additional information in relation to his or her expertise that the person or persons preparing the EIAR consider demonstrates the expert's competence in the preparation of the report and ensures its completeness and quality."

### 1.3 EIAR Guidance

This EIAR has been completed in accordance with the requirements as set out in the EIA Directive (2014/52/EU) and relevant guidelines and documentation, including: -

- Draft Guidelines on the Information to be contained in Environmental Impact Statements (EPA, 2017).
- Guidelines for Planning Authorities and An Bord Pleanála on carrying out environmental impact assessment (Department of Housing, Planning and Local Government, August 2018),
- Department of Housing, Planning and Local Government (2018) Circular PL 05/2018 Transposition into Planning Law of Directive 2014/52/EU amending Directive 2011/92/EU on
  the effects of certain public and private projects on the environment (the EIA Directive) and
  Revised Guidelines for Planning Authorities and An Bord Pleanála on carrying out
  Environmental Impact Assessment.
- Advice Notes for Preparing Environmental Impact Statements Draft (EPA, 2015).
- Guidance on the preparation of Environmental Impact Assessment Report (Directive 2011/92/EU as amended by 2014/52/EU) (European Commission, 2017).

- EU Commission's SEA Implementation Guidance from 2003 (Paragraphs 5.25 and 5.26) refer to HH chapter.
- Circular PL 1/2017 Implementation of Directive 2014/52/EU on the effects of certain public and private projects on the environment (EIA Directive).
- Circular PL 8/2017 Implementation of Directive 2014/52/EU Advice on Electronic Notification Requirements.

#### 1.4 The EIAR Process

#### 1.4.1 Introduction

This section demonstrates the process that has been carried out by the Applicant and Design Team in the preparation of this EIAR. As described and shown Figure 1.1, the EIAR forms a part of the EIA process.

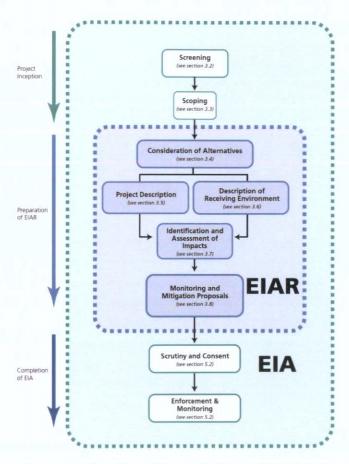


Figure 1.1: EIA Process - Extract taken from Figure 2.2, page 11 of the Draft EPA Guidelines 2017.

Further explanation of the terms referred to in Figure 1.1 is provided below: -

#### Screening: -

"The process of assessing the requirement for a project to be subject to Impact Assessment based on project type and scale as well as the significance or environmental sensitivity of the receiving environment."

### Scoping: -

"The process of identifying the significant issues which should be addressed by a particular Impact Assessment as well as the means or methods of carrying out the assessment."

### Environmental Impact Assessment Report (EIAR): -

"A statement of the effects, if any, which proposed development, if carried out, would have on the environment."

## Environmental Impact Assessment (EIA): -

"The process of examining the anticipated environmental effects of proposed project - from consideration of environmental aspects at design stage, through consultation and preparation of an Environmental Impact Assessment Report (EIAR), evaluation of the EIAR by a Competent Authority, the subsequent decision as to whether the project should be permitted to proceed, encompassing public response to that decision."

#### **Competent Authority Decision**

If, during the review, the Competent Authority determines that the information presented in an EIAR is not sufficient for it to make a determination, then the developer may be asked to provide further information.

If granting permission, the Competent Authority may attach conditions to the consent. The conditions will typically seek to ensure adherence to mitigation and monitoring measures presented in the EIAR. These may be augmented and modified by the Competent Authority.

If refusing the Competent Authority may cite specific evidence from the EIAR such as the non-conformity of potential impacts with official standards, impractical mitigation measures or uncertainty about environmental interactions.

## 1.5 Need for this EIAR

The revised EIA Directive (Directive 2011/92/EU, as amended by Directive 2014/52/EU) uses the term environmental impact assessment report (EIAR) rather than the previous environmental impact statement (EIS). Where current national guidelines and regulations refer to an Environmental Impact Statement or EIS, this can be taken to mean an Environmental Impact Assessment Report (EIAR).

Section 172 of Part X of the Planning and Development Act, 2000, as amended by regulation 17 of the European Union (Planning and Development) (Environmental Impact Assessment) Regulations 2018 (S.I. No. 296 of 2018) sets out the requirement for an EIA as follows: -

"172 (1) An environmental impact assessment shall be carried out by the planning authority or the Board, as the case may be, in respect of an application for consent for proposed development where either—

- (a) the proposed development would be of a class specified in—
- (i) Part 1 of Schedule 5 of the Planning and Development Regulations 2001, and either—
  - (I) such development would equal or exceed, as the case may be any relevant quantity, area or other limit specified in that Part, or
  - (II) no quantity, area or other limit is specified in that Part in respect of the development concerned, or
- (ii) Part 2 of Schedule 5 of the Planning and Development Regulations 2001 and either—
  - (I) such development would equal or exceed, as the case may be any relevant quantity, area or other limit specified in that Part, or
  - (II) no quantity, area or other limit is specified in that Part in respect of the development concerned, or
- (b)
- (i) the proposed development would be of a class specified in Part 2 of Schedule 5 of the Planning and Development Regulations 2001 but does not equal or exceed, as the case may be, the relevant quantity, area or other limit specified in that Part, and
- (ii) the planning authority or the Board, as the case may be, determines that the proposed development would be likely to have significant effects on the environment."

The Fifth Schedule of the Planning and Development Regulations lists classes of development where an EIA is mandatory under Part 1 and where an EIA may be required under Part 2. Where a project falls within a criterion for a type of development and / or exceeds a threshold as listed in Part 1 or Part 2, then it must be subjected to EIA.

Under Schedule 7 & 7A of the Planning and Development Regulations the Proposed Development can be considered sub-threshold given the nature and scale of the proposals.

However, Site 3, Site 4 and Site 5 sit within the broader context of the Masterplan which will see the redevelopment of the urban block between Parnell Street, O'Connell Street Upper, Henry Street and Moore Street. The combined site area for the Masterplan is c. 2.2 Ha within Dublin City Centre. This falls under Classes 10(b)(iv) of Part 2 of the Fifth Schedule of the Regulations, namely: "Urban development which would involve an area greater than 2 hectares in the case of business district".

As such, having concluded a screening exercise, whilst it is acknowledged that the Proposed Development is sub threshold, it is concluded an Environmental Impact Assessment Report is required to be submitted to the Planning Authority with this Planning Application to consider the potential impacts of the Masterplan and the Proposed Development.

# 1.6 EIAR Layout & Structure

The composition of this EIAR has been prepared to respect the EPA Draft Guidelines (2017) and the screening and scoping stages described above. The layout and structure of this EIAR is laid out under 2 volumes, each containing specific sections as follows: -

- Volume 1: Written Statement, including Non-Technical Summary.
- Volume 2: Appendices.

Following on from the layout, the structure of the EIAR is shown in Table 1.1 below.

Chapter No.	EIAR Chapter Name	Consultant  Stephen Little & Associates Chartered Town Planners 8 Development Consultants	
1	Introduction		
2	Non-Technical Summary	Stephen Little & Associates Chartered Town Planners 8 Development Consultants with input from the consultants outlined below.	
3	Description of Proposed Development	Stephen Little & Associates Chartered Town Planners & Development Consultants.	
4	Main Alternatives	Stephen Little & Associates Chartered Town Planners & Development Consultants.	
5	Population & Human Health	AWN Consulting Ltd.	
6	Biodiversity Scott Cawley Ltd.		
7	Land, Soil & Geology Waterman Moylan Consulting Engineers		
8	Water	Waterman Moylan Consulting Engineers	
9	Climate (Air Quality & Climate Change)	) AWN Consulting Ltd.	
10	Climate (Sunlight & Daylight)	BDP M&E Engineers	
11	Air (Noise & Vibration)	AWN Consulting Ltd.	
12	Landscape and Visual Impact	ARC Architectural Consultants	
13	Material Assets (Transportation)	Waterman Moylan Consulting Engineers	
14	Material Assets (Waste)	AWN Consulting Ltd.	
15	Cultural Heritage (Architectural)	Molloy & Associates Conservation Architects	
16	Cultural Heritage (Archaeological)	Courtney Derry Archaeology & Cultural Heritage	

Chapter No.	EIAR Chapter Name	Consultant
17 Risk Management		Stephen Little & Associates Chartered Town Planners & Development Consultants.
18	8 Summary of Mitigation Measures Stephen Little & Associates Chartered T Development Consultants.	
19	Summary of Cumulative Impacts & Interactions	Stephen Little & Associates Chartered Town Planners & Development Consultants.
20	Summary of Residual Impacts	Stephen Little & Associates Chartered Town Planners & Development Consultants.
21	Bibliography Stephen Little & Associates Chartered Town Pl Development Consultants.	
-	Overall Co-ordination and Management of the EIAR Stephen Little & Associates Chartered To Development Consultants.	

 Table 1.1: Environmental Impact Assessment Chapters.

The relevant experts involved in the preparation of this EIAR can be found in Table 1.2 below.

Name	Years Exp.	Professional Qualifications	Professional Affiliations	Role
	Stephe	en Little & Associates Chartered	Town Planners & Developme	nt Consultants
Stephen 29 Dip. Env. Mgmnt, BA (Hons), Dip. TP, Dip. EIA MRTPI, MIPI Mgmnt		MRTPI, MIPI	EIAR Manager Editorial Responsibility	
Michael O' 7 Sullivan 7		Masters in Planning and Sustainable Development (MPlan)	MIPI	EIAR Co-ordinator. Introduction, Non-Technical Summary, Description of Development, Examination of Alternatives, Risk Managemen (Major Accidents).
Naoise O'Connor	>1	Masters in Urban and Regional Planning	-	EIAR Assistant
Conor Owens	>1	Planning and Development (MSc)	-	EIAR Assistant
		AWN	l Consulting	
Paul Conaghan	9	BSc. (Hons), MSc	IAH	Population & Human Health
Ciara Nolan 4		BSc (Hons), MSc (Hons)	AMIAQM, AMIEnvSc	Climate (Air Quality & Climate Change)
Aoife Kelly	7	BSc (Hons) PhD PgDip	MIOA	
Leo Williams 5.5		BAI, MAI Mechanical & Manufacturing Engineering - Trinity College Dublin Diploma in Acoustics and Noise Control – Institute of Acoustics	MIOA	Air (Noise & Vibration)
Stephen Smyth	18	BAI, PhD Mechanical & Manufacturing Engineering - Trinity College Dublin	MIOA MIEI	
Chonaill Bradley	7	BEnvSc	GradMCIWM	Waste Management
	31143	ARC Archite	ectural Consultants	

Bill Hastings	50	B.Arch UCD 1970, 1st Honours Fellow of the RIAI RIAI accredited Grade 1 Conservation Architect Former Lecturer in Architecture, University College Dublin	Member of ICOMOS Ireland Member of the ICOMOS National Scientific Committee on Cultural Tourism	DCC PLAN NO. 28 RECEIVED: 01/0 Landscape & Visual impact Assessment
		BDP M&E	Consulting Engineers	
Patrick Kavanagh	10	C Eng MIEI, BE Building Services Engineering 1st Honours BREEAM AP, LEED GA, WELL AP, BER Assessor, DEC Assessor, SEAI Energy Auditor, External Examiner TUD	Member Engineers Ireland, SEAI Energy Auditor, BRE, USGBC	Climate Daylight and Sunlight
		Courtney Derry Archa	eology & Heritage Consultancy	
Lisa Courtney	25+	BA, MSc, Dipl. Bus. Mgt., Adv. Dipl. in Planning & Env. Law, MIAI	Archaeologist and Cultural Heritage Consultant Member of the Institute of Archaeologists of Ireland (IAI) Member of the International Council of Monuments and Places (ICOMOS)	Cultural Heritage
Siobhan Deery	22+	BA, MA, H-Dip (Ed.), Adv. Dip. in Planning and Env. Law, MIAI	Archaeologist and Cultural Heritage Consultant Member of the Institute of Archaeologists of Ireland (IAI) Member of the International Council of Monuments and Places (ICOMOS)	(Archaeology)
		Molloy & Associat	tes Conservation Architects	
Maoliosa Molloy	22	B.Arch., BSc.Arch., MUBC, Dip.Arb., MRIAI, RIBA, MCI.Arb., RIAI accredited Grade 1 Conservation Architect B.Arch., MUBC, MRIAI,		
Michael O'Boyle	28	RIAI accredited Grade 1 Conservation Architect		
Shelly O' Donovan	18	B.Arch P.Grad.Dip RIAI accredited Grade 2 Conservation Architect		Cultural Heritage (Architectural)
Dr. John Olley	37	BEng, PhD		
Rob Goodbody	17	BA(Mod), DipEP, DipABRC, MA, MUBC, MIPI		
Sunni Goodson	12	BA, Msc Conservation of Historic Buildings, HNC Interior Design		
		Scot	t Cawley Ltd.	
Siofra Quigley	3	Masters in Wildlife Biology and Conservation Zoology		
Niamh Burke	12	BSc Natural Sciences with Environmental Science PhD Salmonid Ecology	Chartered Environmentalist (CEnv) with the Society for the Environment (Soc Env) and a Full Member of the CIEEM	Biodiversity
Meave Maher- McWilliams	9	Biological Sciences Masters in Evolutionary and Behavioural Ecology	Associate member of CIEEM	

Stephen Dent-Neville	8	BA BAI in Civil, Structural & Environmental Engineering	MIEI CEng – Chartered Engineer with Engineers Ireland	Land, Soils & Geology & Water	
Joe Gibbons	35	Dip Eng (Civil) CEng, MICE	Chartered Engineer		
Brian McCann	38	BE, MSc(Eng), DIC,CEng, EurIng	Chartered Engineer Fellow Engineers Ireland Fellow Institution of Civil Engineers Member Association Consulting Engineers of Ireland.	Material Assets (Transport)	
Fernando Silva	7	BEng (Environmental)	MIEI, CREA-SP		

Table 1.2: List of EIAR Experts.

## 1.7 Structure of Each Environmental Topic

Each environmental topic (Chapters 5-16) of this EIAR has been structured in accordance to the EPA Draft Guidelines 2017, under the headings below.

In the first instance, within each chapter the Masterplan is assessed based on the design / layout at the time of submission (March 2021). As such, this considers the redevelopment of the entire urban block including the works required to facilitate the provision of the future Metro Station being proposed separately by TII.

Subsequently, each chapter will assess the Proposed Development (Site 3, Site 4 and Site 5) which are the subject of 3no. concurrent planning applications to Dublin City Council.

#### 1.7.1 Introduction

All of the relevant introductory text and descriptions for the Chapter are located under this Section.

### 1.7.2 Methodology

An outline of the methodology employed in the assessment, including where possible a reference to the EPA guidelines.

### 1.7.3 Receiving Environment (Baseline Situation)

Existing Environment relevant to the environmental factor being assessed for this project.

A dynamic description of the specific environment into which the proposal will fit, taking account of other developments likely to occur. The particular aspects of the environment, for each topic, are discussed in terms of their context, character, significance and sensitivity.

### 1.7.4 Characteristics of the Proposed Development

Detailed descriptions / descriptions outside the scope of the relevant environmental factors being assessed should be removed. These may be referred to the main project description under Chapter 3: Description of Proposed Development.

The characteristics relevant to the environmental factors being assessed should be considered for the Demolition and Construction and Operational Phases.

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#### 1.7.5 Potential Impacts of the Proposed Development

The potential impact of the proposed development includes a general description of the possible types of impacts that projects of this kind would be likely to produce, for Demolition, Construction and Operational Phases.

This includes a consideration of the 'Do-Nothing' impact. The 'Do-Nothing' impact describes the environment, as it would be in the future if no development of any kind were carried out.

Potential impacts without mitigation measures are considered in this section: -

- Construction and Operational Phase Impacts.
- Operational Phase Impacts.
- Do-nothing impacts.

#### 1.7.6 Mitigation Measures

A description of any specified remedial or reductive measures considered necessary, resulting from the assessment of potential impacts.

A description of any post development monitoring of effects on the environment which might be necessary, covering the monitoring methods and the agencies responsible for their implementation.

Where required, a description of reinstatement measures and the agencies responsible for their implementation.

All of the proposed mitigation measures of this EIAR are grouped into Chapter 18: Summary of Mitigation Measures.

#### 1.7.7 Predicted Impact of the Proposed Development

An assessment of the specific impacts of the subject proposal on the environment, as found by expert analysis and judgment, having regard to the receiving environment, the characteristics of the proposal, the potential impacts and any mitigation measures.

The predicted impacts, for both demolition and construction and operational stages, are assessed having regard to their character, magnitude, duration, consequences and significance.

A 'Worst Case' impact is also considered for both the construction and operational phases of the development: -

- Construction Phase.
- Operational Phase.
- Worst Case impact.
- Interactions.
- Cumulative.

All of the Predicted Impacts measures of this EIAR are grouped into Chapter 19: Summary of Mitigation Measures.

Interactions and Cumulative Impacts are examined under Chapter 20: Summary of Cumulative Impacts & Interactions.

#### 1.7.8 Monitoring

Required where impact pre-mitigation is potentially significant. Allows for assessment of effectiveness of mitigation measures.

#### 1.7.9 Difficulties Encountered

Required where impact pre-mitigation is potentially significant. Other difficulties include access to site to carry out surveys during restriction in place due to Covid-19.

#### 1.7.10 Bibliography

A list of reference material used in compiling the chapter. This will feed into Chapter 22: Bibliography.

#### 1.7.11 Consultations

A list of consultations held in the course of the preparation of the EIAR, including the following details: -

- Agency / Body.
- Date of Consultation.
- Nature of Consultation (i.e. meeting, email, phone call).

The EIAR team has engaged in consultations, where necessary, with the relevant authorities. It has also engaged with the Design Team. The outcome of this engagement has been identified where relevant in the preparation of each EIAR Chapter.

We refer also to Section 1.9: Public & Stakeholder Public & Stakeholder Consultation, below.

## 1.8 Assessment of Impacts

Clarity of method, language and meaning are vital to accurately explain the full range of effects. Adherence to a systematic method of description can be of considerable assistance in this matter.

The relevant terms listed in the table below can be used to consistently describe specific effects. All categories of terms do not need to be used for every effect.

#### 1.8.1 Quality of Effects

With regards to the 'Quality of Effects', it is important that any such effects are clearly identified, especially to non-specialist readers.

These effects which may occur can be characterised into 3 types: positive, negative or neutral.

Firstly, if the proposed element of the project improves the quality of the receiving environment it is seen as a Positive Effect.

Secondly, where such a change does not affect the quality of the receiving environment it can be described as a Neutral Effect.

Finally, Negative /Adverse Effects can be described as a change, which reduces the quality of the environment.

## 1.8.2 Describing the Significance of Effects

In terms of 'Describing the Significance of Effects', it is outlined under the EIAR Guidelines that such effects are specific to each different environmental topic. Interactions between factors are considered at Chapter 19: Summary of Interactions and Cumulative Impact.

The EIAR Guidelines state that in the absence of specific definitions, there are 7 potential useful definitions set out under Table 1.3.

Type of Effects	Description of Effect	
Imperceptible	An effect capable of measurement but without noticeable consequences.	
Not significant  An effect which causes noticeable changes in the character of t environment but without noticeable consequences.		
Slight Effects	An effect which causes noticeable changes in the character of the environment without affecting its sensitivities.	
Moderate Effects	An effect that alters the character of the environment in a manner that is consistent with existing and emerging trends.	
Significant Effects	An effect which, by its character, magnitude, duration or intensity alters a sensitive aspect of the environment.	
Very Significant	An effect which, by its character, magnitude, duration or intensity alters the majority of a sensitive aspect of the environment.	
Profound Effects An effect which obliterates sensitive characteristics.		

Table 1.3: Describing the Significance of Effects.

### 1.8.3 Describing the Extent and Context of Effects'

When 'Describing the Magnitude of Effects', the EIAR will address the: Extent (i.e. Describe the size of the area, the number of sites, and the proportion of a population affected by an effect), Duration (i.e. time period, please refer to Section 5 below for more detail), Frequency (i.e. its recurrence) and Context (i.e. whether the foregoing magnitudes will conform or contrast with established baseline conditions).

### 1.8.4 Describing the Probability of Effects'

In 'Describing the Probability of Effects', a clear description of effects as outlined above enables the Competent Authority (Dublin City Council and / or An Bord Pleanála) to decide the balance of risk over advantages when making a decision. The probability is broken into 2 no. types: -

- The Likely Effects in so far as: The effects can reasonably be expected to occur as a result of the planning project if all mitigation measures are properly implemented.
- The Unlikely Effects in so far as: The effects that can reasonably be expected not to occur because of the planned project if all mitigation measures are properly implemented.

### 1.8.5 Describing the Duration and Frequency of Effects

In describing the Duration of Effects, it is important to acknowledge that different environmental topics have varying concepts of 'Duration'. Therefore, it is acknowledged under EIAR Draft Guidelines 2017, that the following timescales as shown under Table 1.4 below provides a broad definition of useful times: -

Description of Effect	Timescale for each effect	
Momentary Effects	Seconds to Minutes	
Brief Effects	Less than a day	
Temporary Effects	Less than a year	
Short-term Effects	Lasting 1 to 7 years	

Medium-term Effects	Lasting 7 to 15 years	
Long-term Effects	Lasting 15 to 60 years	
Permanent Effects	Lasting over 60 years	
Reversible Effects	Effects that can be undone, through remediation or restoration	
Frequency of Effects	Describe how often the effect will occur (once, rarely, occasionally, frequently, constantly – or hourly, daily, weekly, monthly, annually)	

Table 1.4: Describing the Duration and Frequency of Effects.

### 1.8.6 Describing the Types of Effects

Under the Guidelines, describing the Types of Effects are identified into 8 different types of, and interrelated effects: -

- 'Indirect Effects' (also referred to as Secondary Effects) impacts on the environment, which
  are not a direct result of the project, often produced away from the project site or because of
  a complex pathway.
- 'Cumulative Effects' The addition of many minor or significant effects of other projects, to create larger, more significant effects.
- 'Do Nothing Effects' The environment as it would be in the future should no project of any kind be carried out.
- 'Worst case Effects' The effects arising from a project in the case where mitigation measures substantially fail. It can also be a worst case assumption where there is uncertainty in the assessment or in the effectiveness of mitigation measures.
- 'Indeterminable Effects' When the full consequences of a change in the environment cannot be described.
- 'Irreversible Effects' When the character, distinctiveness, diversity or reproductive capacity of an environment is permanently lost.
- 'Residual Effects' The degree of environmental change that will occur after the proposed mitigation measures have taken effect.
- 'Synergistic Effects' Where the resultant effect is of greater significance than the sum of its constituents, (e.g. combination of SOx and NOx to produce smog).

#### 1.8.7 Determining Significance

The above Sections 1.8.1 - 1.8.6 above provide a helpful guide in determination of the significance of the impact. The language described in the above Sections has been used in the preparation of this EIAR.

Figure 1.2 taken from the EPA Draft Guidelines (2017) illustrated how the character of a predicted impact to the sensitivity of the receiving environment can determine the significance of the impact.

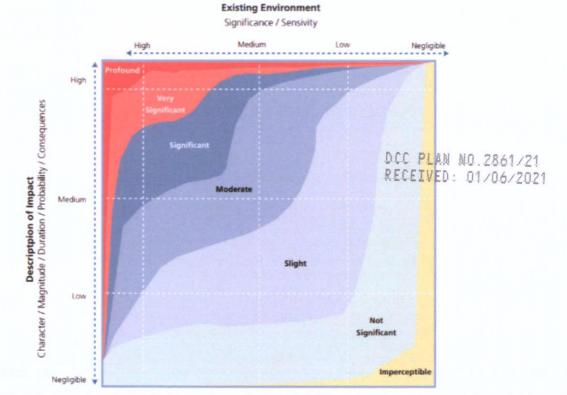


Figure 1.2: Chart showing typical classifications of the significance of impacts (Figure 3.5, Draft EPA Guidelines 2017, page 53).

### 1.9 Public & Stakeholder Consultation

The structure, presentation and the non-technical summary of the EIAR document, as well as the arrangements for public access, all facilitate the dissemination of the information contained in the EIAR. The core objective is to ensure that the public and local community are aware of the likely environmental impacts of projects prior to the granting of consent.

#### 1.9.1 Submissions in relation to the EIAR

#### **Statutory Consultation**

This EIAR and application will be available for inspection free of charge or purchased on payment of a specified fee (which fee shall not exceed the reasonable cost of making such a copy) during public opening hours excluding Bank Holidays at the following location: -

The Offices of Dublin City Council, Civic Offices, Wood Quay, Dublin 8.

## **Prescribed Bodies**

Prior to submitting the 3no. separate and concurrent planning applications for Site 3, Site 4 and Site 5, the Applicant has engaged with the following Prescribed Bodies: -

- Transport Infrastructure Ireland.
- Irish Water.
- Irish Aviation Authority.
- Department of Housing, Local Government and Heritage.
- National Monument Service.

#### **EIAR Portal**

As of the 1 September 2018, there is an obligation on the applicant, where an EIAR has been prepared, to submit the relevant information to the EIA Portal.

The Applicant has submitted an application form, a copy of the public notice and a site location plan to the Department of Housing Planning and Local Government.

A copy of this submission and acknowledgement receipt issued by the Department of Housing Planning and Local Government accompanies the planning application.

#### 1.10 Statement of Difficulties Encountered

No exceptional difficulties were experienced in compiling the necessary information for the proposed development.

Although not a particular difficulty, the Covid-19 restrictions created difficulties in terms of access to all buildings / the Masterplan area to conduct surveys. This was noted as difficulty as part of the preparation of the Chapter 6: Biodiversity.

In preparation of Chapter 13: Material Assets (Transportation) the Covid-19 restrictions created difficulties in terms observing local traffic conditions.

In preparation of Chapter 15: Cultural Heritage (Architectural) as some units with the Sites and the wider Masterplan are occupied access to carry out physical investigations and recording limited compounded further due to the Covid-19 restrictions. Furthermore, due to the Covid-19 restrictions research of the site in public archives has not been possible.

Where any specific difficulties were encountered these are outlined in the relevant chapter of the EIAR.

#### 1.11 Forecasting Methods Used

The methods employed to forecast the effects on the various aspects of the environment are standard techniques used by each of the particular individual disciplines.

The general format followed is to identify the receiving environment, to add to that the 'loading' of the proposed development on the various aspects of the environment considered, to put forward amelioration measures as necessary to lessen or remove a potential impact, and thereby to arrive at a net predicted impact.

# 1.12 Quotations

EIAR's by their nature contain statements about the proposed development, some of which are positive and some less than positive. Selective quotation or quotations out of context can give a misleading impression of the findings of the study.

Therefore, the study team urge that quotations should, where reasonably possible, be taken from the conclusions of specialists' section or from the non-technical summary and not selectively.

#### 1.13 Errors

While every effort has been made to ensure that the content of this EIAR document is error free and consistent there may be instances in this document where typographical errors and / or minor inconsistencies do occur. These typographical errors and / or minor inconsistencies are unlikely to have any material impact on the overall findings and assessment contained in this EIAR.

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#### 2 NON-TECHNICAL SUMMARY

This Environmental Impact Assessment Report (EIAR) presents the assessment of environmental impacts and applicable mitigation measures associated with the mixed-use development on a 2.2Ha site referred to as the Dublin Central Masterplan located in Dublin City Centre. This EIAR also provides an assessment of lands labelled Site 3, 4 & 5 – Dublin Central (hereafter, for the purposes of this EIAR, referred to as 'the Proposed Development'). The phrase 'Proposed Development' is used here to describe the entire of the proposed development within 3no. separate and concurrent planning applications for each of Site 3, 4 & 5. This use of the phrase 'Proposed Development' within the EIAR should not be confused with the separate proposed development that is the subject of each of the 3no. separate and concurrent planning applications.

This EIAR has been prepared on behalf of Dublin Central GP Limited ('the Applicant'). This EIAR accompanies 3no. separate and concurrent planning applications made to Dublin City Council (DCC) for Site 3, Site 4 and Site 5 of the Dublin Central Masterplan respectively.

The EU Directive requires the production of a Non-Technical Summary as part of the production of an EIAR. The Non-Technical Summary ensures that the public is made aware of the environmental implications of any decisions on new developments to take place. The Non-Technical Summary is laid out in a similar, but summarised format to the main EIAR, describing the project, exiting environment, impacts and mitigation measures.

Assessments have been conducted in an integrated, collaborative and analytical process in accordance with the Guidelines on the environmental topics to be examined. This seeks to identify the potential for significant adverse environmental impacts arising from the proposed project. Where significant adverse environmental impacts have been identified as potentially occurring during the construction and operational phases of the development, specified ameliorative, remedial or reductive measures are identified.

### 2.1 Purpose of the EIAR

The objective of this EIAR is to identify and predict the likely environmental impacts of the Dublin Central Masterplan and the Proposed Development as well as to describe the means and extent by which they can be reduced or ameliorated, to interpret and communicate information about the likely impacts; and to provide an input into the decision making and planning process.

#### 2.2 A Note on Quotations

Environmental Impact Assessment Reports by their nature contain statements about the proposed development, some of which are positive and some less positive. Selective quotation or quotations out of context can give a misleading impression of the findings of the study.

Therefore, the study team urge that quotations should, where reasonably possible, be taken from the overall conclusions of specialists' section or from the non-technical summary, and not selectively from the body of the individual chapters.

# 2.3 The Requirement for an EIAR

The process to determine whether an EIA is required for a proposed development is called Screening. This is dependent on the mandatory legislative threshold requirements or the type and scale of proposed development and significance or environmental sensitivity of the receiving environment.

Annex I of the EIA Directive 85/337/EC requires as mandatory the preparation of an EIA for all development projects listed therein. Schedule 5 (Part 1) of the Planning & Development Regulations 2001-2018 brought Annex 1 of the EIA Directive directly into Irish planning legislation. The Directive prescribes mandatory thresholds in respect to Annex I projects. Annex II of the EIA Directive provides EU Member States discretion in determining the need for an EIA on a case-by-case basis for certain

classes of project having regard to the overriding consideration that projects likely to have significant effects on the environment should be subject to EIA.

Schedule 5 (Part 2) of the Planning & Development Regulations 2001 – 2018 set mandatory thresholds for each project class. Sub-section 10(b)(iii) and (iv) addresses 'Infrastructure Projects' and requires that the following class of project be subject to EIA: (b)(i) Construction of more than 500 dwelling units. Category 10(b)(iv) refers to 'Urban development which would involve an area greater than 2 hectares in the case of business district, 10 hectares in the case of other parts of a built-up area and 20 hectares elsewhere.'

Under Schedule 7 & 7A of the Planning and Development Regulations the Proposed Development can be considered sub-threshold given the nature and scale of the proposals.

However, Site 3, Site 4 and Site 5 sit within the broader context of the Masterplan which will see the redevelopment of the urban block between Parnell Street, O'Connell Street Upper, Henry Street and Moore Street. The combined site area for the Masterplan is c. 2.2 Ha within Dublin City Centre. This falls under Classes 10(b)(iv) of Part 2 of the Fifth Schedule of the Regulations, namely: "Urban development which would involve an area greater than 2 hectares in the case of business district".

As such, having concluded a screening exercise, whilst it is acknowledged that the Proposed Development is sub threshold, it is concluded an Environmental Impact Assessment Report is required to be submitted to the Planning Authority with this Planning Application to consider the potential impacts of the Masterplan and the Proposed Development.

#### 2.4 Description of Proposed Development

### **Dublin Central Masterplan**

As noted above, the Proposed Development sits within the context of the Dublin Central Masterplan which extends to c. 2.2 ha.

The Dublin Central project is an expansive (c. 2.2 Ha) and complex urban regeneration project. It needs to be delivered in multiple separate projects to overcome site and project constraints.

A site wide cumulative masterplan has been prepared by the Applicant to set out the overall development vision for the Dublin Central project.

ACME Architects are the Masterplan Architect for the Dublin Central regeneration project. ACME has prepared a detail Masterplan Design Statement, which set out the design framework for the wider envisaged redevelopment at this significant, strategic location within the heart of Dublin city centre. The Dublin Central Masterplan is accompanied by a suite of documents which help to explain how the combined Masterplan will be built and function.

The Dublin Central Masterplan represents the full development envisaged by the Applicant for the entire of these urban blocks. Those elements outside the planning application site boundaries for Dublin Central Site 3, Site 4 and Site 5 are not completely fixed and remain simply an aspirational part of the Dublin Central Masterplan overall vision at this time.

For the purpose of making the planning applications for the Proposed Development (Site 3, Site 4 and Site 5), and considering the cumulative effect of the proposed and planned project, the Dublin Central Masterplan represents the interim design for Site 1, Site 2AB and Site 2C (March 2021). This is notwithstanding that further progress on planning design continues to be worked up in the meantime and ongoing.

#### **Proposed Development**

The description of Proposed Development can be summarised as: -



#### Site 3

The proposed development comprises a mixed-use scheme (c. 15,842.4 sq. m gross floor area) accommodated in 2no. blocks, ranging in height from 1-9 storeys over 2no. new independent single level basements. A proposed new Passageway separates the 2no. blocks (Block 3A & Block 3B), connecting Henry Street and Henry Place. The proposed blocks comprise: -

**Block 3A** (Eastern Block) (c. 7,806.3 sq. m gfa), fronting Henry Street, Henry Place and the new Passageway, with modulating building height at 4, 5, 7 and 9 storeys, over single storey basement. Block 3A accommodates: -

- An hotel (c. 7,175.3 sq. m gfa) with 150no. bedrooms from 1<sup>st</sup> to 7<sup>th</sup> floor and ancillary facilities at ground floor and basement, including: hotel reception addressing Henry Place.
- 1no. licensed hotel restaurant / cafe with takeaway / collection facility (c. 138.1 sq. m) at
  ground floor on the new Passageway and Henry Place; and, 1no. licensed hotel restaurant /
  cafe with takeaway / collection facility (c. 194.2 sq. m) and 2no. associated external terraces
  (c. 38.8 sq. m in total) at 8th floor of the proposed hotel.
- 1no. retail unit for use as a 'shop' or 'licensed restaurant / café unit with takeaway / collection facility' (Unit 1 c. 127.2 sq. m) at ground floor on the new Passageway.
- 1no. retail unit for use as a 'shop' (Unit 2 c. 326.5 sq. m) at basement, ground floor and first floor level on the new Passageway and Henry Street.

**Block 3B** (Western Block) (c. 8,036.1 sq. m gfa), fronting Henry Street, Moore Street, Henry Place and the new Passageway, with modulating building height at 1, 3, 5, 6 and 7 storeys, with top storey set back, over single storey basement. Block 3B accommodates: -

- 79no. 'Build-to-Rent' apartment units (c. 6,451.5 sq. m gfa), including 14no. 1-bed studios, 56no. 1-bed apartments and 9no. 2-bed apartments from 1<sup>st</sup> to 5<sup>th</sup> floor, with access from residents' lobby at ground floor on Henry Place.
- Internal residents' amenity areas at ground and 6th floors (c. 325 sq. m in total) and external terrace areas (c. 517.7 sq. m in total) at 6<sup>th</sup> floor.
- Private residential balconies and 'wintergardens' from 1<sup>st</sup> to 5<sup>th</sup> floor inclusive on elevations facing into the open courtyard areas and facing east to the new passageway. Balconies / terraces at 4<sup>th</sup> floor on west elevation to Moore Street and at 5<sup>th</sup> floor on south elevation to Henry Street.
- 5no. retail units, each for use as a 'shop', including: Unit 6 (c. 245.2 sq. m) at ground and 1st floor on new Passageway and Henry Street, Unit 7 (c. 382.4 sq. m) at ground and 1st floor on Henry Street and Moore Street, and Unit 8 (c. 182.2 sq. m), Unit 9 (c. 57.2 sq. m) and Unit 10 (c. 52.5 sq. m) at ground floor on Moore Street.
- 4no. retail units, each for use as 'shop' or 'licensed restaurant / café units with takeaway / collection facility', including: Unit 3 (c. 148.9 sq. m), Unit 4 (c. 53.5 sq. m) and Unit 5 (c. 55.1 sq. m) at ground floor on the new Passageway, and Unit 11 (c. 160 sq. m) at basement and ground floor on Moore Street and Henry Place; 1no. 2-storey building for cultural / gallery use with restaurant / café (c. 123.4 sq. m) replacing No. 10 Henry Place.

All associated and ancillary site development, conservation, demolition, landscaping, site infrastructure and temporary works, including: -

- Conservation, repair, refurbishment and adaptive reuse of part of the existing building fabric, including: -
  - Retention of Nos. 36 37 Henry Street, with modifications, a vertical extension and new shopfronts; Retention of No. 39 – 40 Henry Street (upper floor façade).
  - Retention of Nos. 8 9 Moore Street, with internal and external modifications and new shopfronts.

- Retention of Nos. 11 13 Henry Place, with internal and external modifications and new shopfronts.
- Works to include repair and upgrade works (where required) of existing masonry, external and internal joinery, plasterwork and features of significance.
- New Passageway linking Henry Street and Henry Place.
- Demolition of all other existing buildings and structures on site (c. 6,701 sq. m), including No.
   38 Henry Street to form new passageway linking Henry Street to Henry Place.
- Demolition of boundary wall onto Moore Lane at the rear of properties at Nos. 50 51 and Nos. 52 – 54 (a protected structure) Upper O'Connell Street.
- 160no. bicycle parking spaces within secure bicycle facility (24no. within Block 3A, 126no. within Block 3B and 10no. in the public realm).
- 1no. external residential courtyard at ground floor in Block 3B.
- Plant at basement and roof level.
- 2no. ESB sub-stations.
- Building signage zones and retractable canopies.
- Removal of existing boundary fence at junction of O'Rahilly Parade / Moore Lane within that part of the site including No. 13 Moore Lane, No. 14 Moore Lane (otherwise known as Nos. 1 3 O'Rahilly Parade and Nos. 14 15 Moore Lane or Nos. 1 8 O'Rahilly Parade and Nos. 14 15 Moore Lane).

#### Site 4

Site 4 comprises a mixed-use scheme (c. 3,290 sq. m gross floor area) in 2no. parts located north and south of the Nos. 14-17 Moore Street (a National Monument / Protected Structures) ranging in height from 1-3 storeys including retained independent single storey basements comprising 15no. apartment units (c. 1,454 sq. m gfa), café / restaurant use (c. 864 sq. m gfa), retail use (c. 617 sq. m gfa), cultural use (c. 60 sq. m gfa) and office use (c. 295 sq. m gfa).

The proposed development to the north of Nos. 14 - 17 Moore Street consists of: -

- Nos. 20 21 Moore Street are refurbished and adapted to provide 1no. café / restaurant / licenced premises with takeaway / collection facility (c. 80 sq. m in total) at ground floor addressing both Moore Street and proposed new public plaza to the rear and 1no. 1-bed apartment and 1no. 2 bed apartment located at 1st and 2nd floor level 4no. in total (cycle and bin storage at ground floor level).
- No terraces or balconies are proposed to the residential units.
- Provision of a new 3 storey extension at the side of No. 17 Moore Street (National Monument / Protected Structure) to act as an extension for ancillary use to the National Monument – a cultural facility (c. 60 sq. m gfa).
- Provision of an archway between the gable of No. 20 Moore Street and the new 2 storey
  extension to No. 17 Moore Street (National Monument / Protected Structure) to form an
  entrance to a new public plaza off Moore Street.
- Provision of a 2 storey building with profiled roof consisting 1no. licenced restaurant / café unit with takeaway / collection facility (c. 250 sq. m gfa). This building sits independently of the northern boundary of No. 9 Moore Lane at the rear of Nos. 14 17 Moore Street.
- Provision of part of a new public plaza (1,085 sq. m) and associated temporary works pending completion of the combined plaza with the concurrent planning application for the adjoining Site 5 immediately to the north (1,253 sq. m public plaza overall).

The proposed development to the south of Nos. 14 – 17 Moore Street consists of: -

- 11no. apartment units (7no. 1-bed apartments and 4no. 2-bed apartments), accessed from proposed central courtyard from Henry Place in 2 3 storeys buildings (1 storey to rear) contained above ground floor within No. 10 Moore Street (refurbished and adapted), Nos. 11 13 Moore Street (replacement buildings with party wall of No. 12 and No. 13 Moore Street retained) and No. 5A Moore Lane (also known as Nos. 15 16 Henry Place replacement building) and Nos. 17 18 Henry Place (also known as Nos. 4 5 Moore Lane ground floor façade retained) with associated resident storage area at basement level of No. 10 Moore Street.
- 5no. retail units at ground floor: Unit 6 (c. 149 sq. m gfa) and Unit 7 (c. 128 sq. m gfa) on Moore Lane, Unit 10 (c. 69 sq. m gfa), Unit 11 (c. 149 sq. m gfa including basement level) and Unit 12 (c. 58 sq. m gfa) on Moore Street; 2no. licenced restaurant / café units with takeaway / collection facility at ground floor: Unit 4 (c. 250 sq. m gfa including basement level) onto Moore Lane and Unit 7 (c. 130 sq. m gfa including basement level) onto Moore Street.
- 1no. office unit at first floor (c. 221 sq. m gfa) of 6 7 Moore Lane with access from ground on Moore Lane.
- A new courtyard is proposed between the rear of Moore Street buildings and Moore Lane buildings to provide communal open space (c. 155 sq. m) for the residential units.
- All apartment served by terraces / balconies with exception of Unit 13, No. 10 Moore Street.

All associated and ancillary site development, conservation, demolition, landscaping, site infrastructure and temporary works, including: -

- Conservation, repair, refurbishment and adaptive reuse of part of existing building fabric including: -
  - Retention of the buildings facing Moore Street at Nos. 20 − 21 Moore Street with internal and external modifications and new shopfronts.
  - Retention of the building facing Moore Street at No. 10 Moore Street with internal and external modifications and new shopfront.
  - $\circ$  Retention of Nos. 6 7 Moore Lane with internal and external modifications and new shopfronts.
  - Works to include repair and upgrade works (where required) of existing masonry, external and internal joinery, plasterwork and features of significance.
- Demolition of rear boundary wall onto Moore Lane at the rear of Nos. 50 51 and Nos. 52 54 (a protected structure) Upper O'Connell Street, Dublin 1.
- Demolition of all other existing buildings and structures on site (c. 4,525 sq. m); 44no. bicycle
  parking spaces serving residential, retail and office.
- Plant at basement and roof level; 1no. ESB sub-station onto Henry Place; Building signage zone and retractable canopies.
- Ancillary temporary works at No. 13 Moore Lane and No. 14 Moore Lane (otherwise known as Nos. 1 3 O'Rahilly Parade and Nos. 14 15 Moore Lane or Nos. 1 8 O'Rahilly Parade and Nos. 14 15 Moore Lane), Dublin 1.

#### Site 5

The development is set out as follows: -

A mixed-use scheme in a single building (c. 6,478 sq. m gross floor area) ranging in height from 2 – 6 storeys (top floor set back) over single storey localised basement. The building includes office space (c. 5,753 sq. m) from 1<sup>st</sup> to 5<sup>th</sup> floor with office lobby at ground floor level, with 3 no. terraces at 2nd, 3rd and 5th floor respectively (c. 401 sq. m in total) addressing Moore

Street and 3no. licenced restaurant / café units with takeaway / collection facility at ground floor (Unit 1 on Moore Lane & O'Rahilly Parade - c. 228 sq. m, Unit 2 on the proposed new public plaza - c. 271 sq. m and Unit 3 on Moore Street, O'Rahilly Parade and the proposed new public plaza - c. 179 sq. m), together with provision of a 'delivery hub' unit at ground floor level (c. 46 sq. m).

All associated and ancillary site development, demolition, landscaping, site infrastructure and temporary works, including: -

- Demolition of all existing buildings and structures on site (c. 2,312 sq. m).
- Provision of part of a new public plaza (168 sq. m) and associated temporary works pending completion of the combined plaza with the concurrent planning application for the adjoining Site 4 immediately to the south (1,253 sq. m public plaza overall).
- 58no. bicycle parking spaces at ground floor level with associated cycling welfare facilities.
- Plant at basement and roof level.
- Building signage zone and retractable canopies.
- A surface water drainage pipe will be laid between Site 5 and existing services in Parnell Street and will be laid in O'Rahilly Parade and Moore Street.

# 2.5 Examination of Alternatives (Chapter 4)

Potential alternatives to the Proposed Development were considered as the scheme progressed. The 'Do-Nothing' alternative was explored, with a conclusion that a do-nothing approach would be contrary to the Development Plan objectives for the redevelopment of this underutilised, brownfield city centre site to deliver mixed-use development at this highly accessible location.

A number of site layout and alternative designs were considered during the iterative design process in consultation with Dublin City Council. The site's planning history was also considered.

The development as now proposed is considered to have arrived at an optimal solution in respect of making efficient use of zoned, serviceable lands whilst also addressing the potential impacts on the environment relating to residential, visual, natural and environmental amenities and infrastructure.

It is considered that the proposed development is wholly consistent with relevant national and local planning policy, regenerate a key city centre site and minimises the potential for environmental impacts.

### 2.6 Population & Human Health (Chapter 5)

Chapter 5: Population & Human Health of the EIAR evaluates the impacts if any, of the proposed development on human health, the potential receptors within the environs of the site include commercial businesses, residents and tourists in the area.

The relevant factors where potential human health impacts may occur are due to emissions to air, noise emissions, water, soil, sunlight, material assets, traffic, risk of natural disaster.

The construction of the proposed development will last 15 years and during that time there will be an overall positive impact on local businesses. Local Amenities and businesses will experience greater use by construction employees. With the use of specified mitigation measures access to the O'Connell Street, Parnell Street, Henry Street, and Moore Street areas will be unimpeded, and tourism should not be significantly impacted.

Once operational there will be Positive, Significant, Long-Term Impacts to local businesses, tourism and amenity. The proposed development will provide public open spaces, community meetings areas, and cultural facilities, all of which will have a significant and positive impact on local amenities.

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The proposed development will improve tourism resources in Dublin City Centre City, providing increased tourism accommodation (150no. bed hotel) which will be augmented by the provision of retails, cafes, restaurants, and community and cultural provisions.

The development is not predicted to give rise to any material impacts (potable water, sewerage, electricity, gas supply) on the resident populations in the site environs, there is sufficient capacity to absorb this proposed development.

As demonstrated in Chapter 9: Climate (Air Quality & Climate Change) emissions from both the construction and operation of the proposed development for all scenarios will be compliant with all National and EU ambient air quality limit values and, therefore, will not result in a significant impact on human health.

The noise levels that are encountered at the nearest noise sensitive locations are predicted to be within relevant noise criteria that have been adopted here for the operation of the proposed development and associated infrastructure. These criteria have been selected with due consideration to avoid any potential for human health to avoid both sleep disturbance and normal day to day resting and concentration. The resultant impact on human health is not significant.

The proposed development will not generate any perceptible levels of vibration during operation and therefore is not predicted impact from vibrations on human health.

Traffic Assessments have shown that once operational that any increases in traffic associated with the proposed development will be insignificant in terms of the projected downturn in traffic use in this area.

The impact of the proposed development on sunlight access to the adjacent properties is defined as Not Significant. This is the second lowest definition of impact taken from the Guidelines on the Information to be Contained in Environmental Impact Statements prepared by the Environmental Protection Agency (2017 Draft).

### 2.7 Biodiversity (Chapter 6)

The assessment considered the potential direct, indirect and cumulative impacts on biodiversity within the zone of influence of the proposed development. The proposed development consists in the construction of offices, hotels, cultural use in the form of an extension to the National Monument, café/restaurants, residential units, retail units, the inclusion of open space, site development and landscape work, completed across six Sites, on O'Connell Street Upper, Dublin 1. The assessment was undertaken in line with a number of guidance documents including the *Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine* (CIEEM, 2018 as updated September 2019).

Baseline ecology surveys were undertaken at the proposed development site in June and July 2020 and included: -

- Habitat and flora surveys.
- Breeding bird surveys.
- Mammal surveys; and
- Bat surveys.

Breeding birds were the only key ecological receptors identified within or occurring within the zone of influence of the proposed development site.

In addition, European and Nationally designated sites were identified as key ecological receptors. The proposed development site does not overlap with any European or nationally designated sites. The nearest European site is South Dublin Bay and River Tolka Estuary SPA, located c. 2.3km to the north east of the proposed development site in Dublin Bay. Surface water drains from the site into the River Liffey, ultimately discharging into Dublin Bay and subsequently South Dublin Bay SAC, North Dublin Bay SAC, North Bull Island SPA, South Dublin Bay pNHA, Dolphins, Dublin Docks pNHA, and North Dublin Bay pNHA. During construction, contaminated surface waters could potentially be transferred

to downstream European and National sites via this drainage connection. Despite this viable connection, as concluded in the Hydrological and Hydrogeological qualitative risk assessment (AWN, 2021), Appropriate Assessment Screening (submitted alongside the planning documents) and Chapter 6: Biodiversity contained in the EIAR, there will be no likely significant effects on any European or National sites arising from this linkage during construction or during the operation of the proposed development.

Potential impacts arising from the proposed development during the construction phase are considered to be; disturbance and displacement of fauna species, and loss of potential nesting/roosting sites. Potential impacts arising from the proposed development during the operational phase are considered to be: disturbance and displacement of fauna species.

The proposed landscape plan has been developed in order to enhance the site as much as possible and provide opportunities for biodiversity in an urban, city centre development. Landscaping elements will include replacement/new tree, hedge, and bulb planting across various levels of the buildings, including on balconies, podiums, courtyards, and roof terraces. As the majority of these areas will be heavily shaded at times, this is echoed in the species proposed for planting. Perimeter planting of evergreen hedges along roof terraces, will offer screening to the residents, whilst also providing nesting opportunities for birds. Green and blue roofs which are proposed, will benefit invertebrate species, birds and the overall biodiversity value of the site, whilst also filtering rainfall before discharging to the local surface water drains.

Mitigation measures have been proposed, in addition to the design considerations summarised above. All of the mitigation measures will be implemented in full and are industry standard, and tried and tested, effective control measures to protect biodiversity and the receiving environment. Considering the elements included within the design of the proposed development, and the implementation of the mitigation measures in the associated planning application documents to avoid or minimise the effects of the proposed development on the receiving environment, no likely long-term significant residual effects on biodiversity are predicted.

## 2.8 Land, Soil & Geology (Chapter 7)

A desktop study was carried out to assess existing data from the Geological Survey of Ireland (GSI). This information was supplemented by a review of geotechnical Site Investigations carried out within the Dublin Central site by IGSL in 2008. This comprehensive ground investigation assessed the soil, rock and groundwater conditions across the site.

The subject development is located in Dublin City Centre. Topographic survey data shows that the subject site and the surrounding roads are generally flat, at a level of between 4.85m OD Malin and 5.40m OD Malin.

The site is a brownfield site, comprising of numerous buildings including various retail units, restaurants, offices, and derelict buildings. The baseline conditions associated with the Dublin Central Masterplan area are considered to be the same for the individual sites which are subject to this planning application (i.e. Site 3, Site 4 and Site 5). The groundwater vulnerability in the vicinity of the site is low.

Intrusive ground investigations carried out at the site in 2008 by IGSL. Waste Acceptance Criteria (WAC) testing was carried out on soil samples . There was no evidence of significant contamination in any of the samples and the tested parameters, where detected, are at levels generally below the inert WAC.

The removal of topsoil during earthworks and the construction of roads, services and buildings, in particular basements and foundations, will expose subsoil to weathering and may result in the erosion of soils during adverse weather conditions. Surface water runoff from the surface of the excavated areas may result in silt discharges to the River Liffey. Excavations for foundations, remaining



roadworks and services will result in a surplus of subsoil. Surplus subsoil will be used in fill areas where applicable.

Dust from the site and from soil spillages on the existing road network around the site may be problematic, especially during dry conditions. Accidental oil or diesel spillages from construction plant and equipment, in particular at refuelling areas, may result in oil contamination of the soils and underlying geological structures.

During the operational stage of the development it is not envisaged that there will be any ongoing impacts on the underlying soil as a result of the proposed development.

Building and road levels are designed to minimise the cut and fill balance. Nonetheless, given the proposed new basement areas it is anticipated that there will be a significant surplus of soil to be removed from the site. Surplus subsoil and rock that may be required to be removed from site will be deposited in approved fill areas or to an approved waste disposal facility.

Where contaminated soils are encountered during the works, they will be excavated and disposed of off-site in accordance with the Waste Management Acts, 1998-2006, and associated regulations and guidance. Wheel wash facilities at the construction entrances and regular cleaning of the adjoining road network will prevent the build-up of soils from the development site on the existing public roads. Dampening down measures with water sprays will be implemented during periods of dry weather to reduce dust levels arising from the development works.

Measures will be implemented throughout the construction stage to prevent contamination of the soil and adjacent watercourses from oil and petrol leakages. During excavation works, temporary sumps will be used to collect any surface water run-off thereby avoiding of standing water within the basement and other excavations. Silt traps, silt fences and tailing ponds will need to be provided by the contractor where necessary to prevent silts and soils being washed away by heavy rains during the course of the construction stage.

After implementation of the above measures, the proposed development will not give rise to any significant long term adverse impact. Moderate negative impacts during the construction stage will be short term only in duration.

With the protective measures noted above in place during excavation works, any potential impacts on soils and geology in the area will be minimised.

The proposed development will result in a surplus of excavated material, which may contain contaminants. Any contaminated material will be exported to an approved licensed waste facility.

No significant adverse impacts on the soils and geology of the subject lands are envisaged.

Monitoring during the construction stage is recommended, including monitoring surface water discharging to the existing drainage network, monitoring cleanliness of the adjoining road network and to ensure prevention of oil and petrol spillages.

Trenches opened during construction will be backfilled with subsoil to reinstate existing ground levels. Upon completion no impact is foreseen.

# 2.9 Water (Chapter 8)

Research for this section included a review of Ordinance Survey and Topographical surveys of the subject site and surrounding area and a review of the existing water supply and drainage layouts from Irish Water / Dublin City Council records for the area.

There are a number of existing interconnected water supply mains in the vicinity of the Dublin Central Masterplan site. Existing buildings at the subject site are currently fed water by various connections to this existing network.

The drainage network surrounding the Dublin Central Masterplan site consists of combined foul and surface water sewers. Foul and surface water currently run uncontrolled / unattenuated from the Dublin Central Masterplan site, discharging to the existing combined network via several connections.

In addition to the combined drainage network, there is a 225mm concrete surface water sewer in Parnell Street and there is a 375mm concrete surface water sewer in Henry Street approximately 110m west of the Dublin Central site's southern boundary.

The site is generally flat, at a level of approximately 5m OD Malin.

During the construction of the new foul sewers there is the potential for surface water to be discharged to the existing public foul sewer system due to pipes and manholes being left open.

There is a risk of pollution of groundwater and water courses by accidental spillage of foul effluent during connections being made to live sewers.

There will be a net peak foul water flow of 56l/s discharging to the foul water system serving the Dublin Central Masterplan site. Foul and surface water currently flow uncontrolled / unattenuated from the Dublin Central Masterplan site to the existing combined network. The proposal will result in a net reduction in flows to the network.

The development of the Dublin Central Masterplan will result in a net reduction in the runoff volume through the introduction of SuDS devices and in a reduction in the runoff rate through the introduction of flow control devices and attenuation storage.

Mitigation measures will be implemented on a site by site basis in line with best practice standards. A method statement setting out in detail the procedures to be used when working in the vicinity of existing watermains will be produced by the contractor for any construction works within the vicinity of watermains and for roads or services crossing watermains.

All new foul sewers will be tested by means of an approved air test during the construction stage in accordance with Irish Waters Code of Practice and Standard Details. All private drainage will be inspected and signed off by the design Engineer in accordance with the Building Regulations Part H and BCAR requirements. The connection of the new foul sewers to the public sewer will be carried out under the supervision of Irish Water and will be checked prior to commissioning.

Surface water will be attenuated privately within each site of the Dublin Central Masterplan, and will discharge to the public network at a controlled rate limited to 2l/s from each site. The SuDS treatment train will treat the surface water discharging to the public network, removing pollutants form the surface water runoff. Maintenance of these SuDS devices will be required to ensure that they continue to treat the surface water as designed.

No significant adverse impacts are expected to arise during the construction stage if the proposed remedial and reductive measures are implemented.

There will be a water demand for the completed Dublin Central Masterplan of approximately 800m³ per day. Through the introduction of SuDS measures and by removing surface water flows for Site 5 from the combined network, the implementation of the Dublin Central Masterplan will result in a net decrease in the wastewater flows discharging to the existing combined drainage system.

Monitoring will be implemented on a site by site basis in line with best practice standards. Water usage and potential leakage will be monitored by Irish Water using the water meters which will be installed on the supply pipes so that the development can be monitored in sections. The location of

these meters will be agreed with Irish Water and the meters will be linked to Irish Water's monitoring system via telemetry. The surface water network (drains, gullies, manholes, AJs, SuDS devices, attenuation systems) will need to be regularly maintained and where required cleaned out. A suitable maintenance regime of inspecting and cleaning shall be incorporated into the safety file/maintenance manual for the Dublin Central Masterplan.

Any existing roads and footpaths that are opened to facilitate water supply, foul water drainage and surface water drainage connections will be reinstated.

## 2.10 Climate (Air Quality and Climate Change) (Chapter 9)

AWN Consulting Limited has been commissioned to conduct an assessment of the likely impact on air quality and climate associated with the proposed mixed-use Dublin Central development at O'Connell Street, Dublin.

In terms of the existing air quality environment, baseline data and data available from similar environments indicates that levels of nitrogen dioxide, particulate matter less than 10 microns and less than 2.5 microns are generally well below the National and European Union (EU) ambient air quality standards.

The existing climate baseline can be determined by reference to data from the EPA on Ireland's total greenhouse gas (GHG) emissions and compliance with European Union's Effort Sharing Decision "EU 2020 Strategy" (Decision 406/2009/EC). The EPA state that Ireland had total GHG emissions of 59.9 Mt CO2eq in 2019. This 6.98 Mt CO2eq higher than Ireland's annual target for emissions in 2019. Emissions are predicted to continue to exceed the targets in future years.

Impacts to air quality and climate can occur during both the construction and operational phases of the proposed development. With regard to the construction stage the greatest potential for air quality impacts is from fugitive dust emissions impacting nearby sensitive receptors. Impacts to climate can occur as a result of vehicle and machinery emissions as well as embodied carbon in construction materials. In terms of the operational stage air quality and climate impacts will predominantly occur as a result of the change in traffic flows on the local roads associated with the proposed development.

The UK Institute of Air Quality Management guidance was used to assign a high level of sensitivity to dust soiling impacts to the area in the immediate vicinity of the proposed development. The local area is considered of low sensitivity to human health impacts from dust emissions. The scale and nature of the construction works were reviewed, and it was determined that a high level of dust control was required for the demolition and construction phases of the proposed development. Once the dust mitigation measures outlined in Appendix 9.2 of Chapter 9: Climate (Air Quality & Climate Change) are implemented, dust emissions are predicted to be short-term, negative and imperceptible and will not cause a nuisance at nearby sensitive receptors. Construction phase traffic can also impact air quality, particularly due to the number of HGVs accessing the site. Construction phase traffic emissions were modelled as part of the air quality assessment and are predicted to have a short-term, negative, localized and imperceptible impact on air quality. It is not predicted that significant impacts to climate will occur during the construction stage, impacts to climate are predicted to be short-term, neutral and imperceptible.

Potential impacts to air quality and climate during the operational phase of the proposed development are as a result of increased traffic volumes on the local road network. The changes in traffic flows were assessed against the UK Design Manual for Roads and Bridges (DMRB) screening criteria for an air quality assessment. As the changes in traffic did not meet the screening criteria no air quality or climate assessment was required, and it can be determined that the operational phase of the proposed development will have an imperceptible, neutral and long-term impact on air quality and climate. In addition, the proposed development has been designed to minimise the impact to climate where possible during operation.

The best practice dust mitigation measures that will be put in place during construction of the proposed development will ensure that the impact of the development complies with all EU ambient

air quality legislative limit values which are based on the protection of human health. Therefore, the impact of construction of the proposed development is likely to be short-term, localised, negative and imperceptible with respect to human health. Operational phase predicted concentrations of pollutants are predicted to be significantly below the EU standards, the impact to human health is predicted to be imperceptible, neutral and long term.

No significant impacts to either air quality or climate are predicted during the construction or operational phases of the proposed development.

## 2.11 Climate (Sunlight & Sunlight) (Chapter 10)

This chapter of the Environmental Impact Assessment Report (EIAR) provides an assessment of the impact that the proposed mixed-use developments at Site 3, Site 4 and Site 5 of Dublin Central will have on the surrounding environment in relation to daylight, sunlight and overshadowing.

This chapter was completed by Patrick Kavanagh of Building Design Partnership. Patrick is a Chartered Engineer with a BE Hons degree in Building Services Engineering. Patrick is an SEAI Energy Auditor, BER Assessor, LEED Green Associate, BREEAM and WELL Accredited Professional.

The assessment of daylight was prepared using the methodology outlined in BS 8206-2: 2008 'Lighting for Buildings Part 2', whilst the impact of overshadowing was prepared using the methodology set out in BRE 209, 'Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice', Second Edition 2011, by P. J. Littlefair. This is the non-statutory guide referred to in the Dublin City Council Development Plan 2016 – 2022, and sets out guidelines that are most commonly used in Ireland and the UK to assess the impacts of development on daylight, sunlight and overshadowing.

A Daylight, Sunlight and Overshadowing assessment is normally carried out with particular regard to potential impacts on the living spaces and private open spaces of residential properties. In the case of the proposed development, there are no existing residential properties impacted by overshadowing due to the site location and orientation to other existing buildings. This is illustrated in the shadow plans included within the body of the technical report.

The BRE 209 guide recommends that in all relevant amenity spaces; at least half of the area should receive at least **two hours** of sunlight on 21<sup>st</sup> March. The amenity space within Site 3 is at roof level and receives well in excess of 2 hours of direct sunlight on over 50% of the area. In fact the space receives almost 6 hours on 80% of the amenity space on the 21<sup>st</sup> March. The proposed development will have a slight overshadowing impact on the new Dublin Central Site 4 amenity space. The residential amenity space within Site 4 is at 1st floor level in a courtyard and receives at least 2 hours of direct sunlight on over 80% of the designated amenity area for residents. The new public squares created in Dublin Central south of Site 5 and Site 2AB also receive high levels of sunlight throughout the year with over 90% and 70% of the spaces respectively achieving 2 hours of direct sunlight on the 21<sup>st</sup> March and the existing Moore Street Public Streetscape still meets the BRE 209 guidelines post developments.

It is therefore demonstrated that new and existing amenity spaces will receive high levels of sunlight and the BRE 209 guidelines are met.

The extent of the impact of a development is usually proportional to the extent to which that development is large in scale and/or height and its proximity to the location. This proportionality may be modified by the extent to which the development is seen as culturally or socially acceptable, and on the interaction between the proposed development, the character of the existing shadow environment and the land use pattern of the receiving environment.

The impact of the proposed development on sunlight access to the adjacent properties is therefore defined as **Not Significant**: An effect which causes noticeable changes in the character of the environment but without significant consequences. This is the second lowest definition of impact taken from the Guidelines on the Information to be Contained in Environmental Impact Statements prepared by the Environmental Protection Agency (2017 Draft).



The definition is chosen because the scale of the development at Sites 3, 4 & 5 will have a minor impact on the shadow environment but the consequences of this will not be noticeable due to the site orientation and existing urban density of the area.

No mitigation measures are proposed as the impact of Sunlight and Daylight is relatively insignificant and considered consistent with development within a city centre environment.

The residual impact on the development is minor as the scale of the development at Sites 3, 4 & 5 will have a minor impact on the shadow environment but the consequences of this will not be noticeable due to the site orientation and existing urban density of the area.

## 2.12 Air (Noise & Vibration) (Chapter 11)

Chapter 11: Air (Noise & Vibration) of the EIAR provides information on the assessment of noise and vibration impacts on the surrounding environment during the construction and operational phases of the proposed mixed-use Dublin Central development at O'Connell Street, Dublin.

When considering the potential impacts, the key sources will relate to the short to medium term construction and the long-term impacts associated with the development as a whole once operational.

The existing noise and vibration environments across the development site and in the vicinity of the nearest existing NSLs are dictated by transportation sources in the study area including the existing surrounding road network and luas line.

In the proposed development the nearest existing residential NSLs to the proposed development are those located at Greeg Court Apartments, to the northwest site boundary along Moore Street. The Rotunda Hospital is located to the north of the site boundary on Parnell Street. Apart from the receptors identified above, there are protected buildings identified at 14 to 17 Moore Street to the northwest of the site boundary. Commercial NSLs include Jurys Inn Hotel Parnell Street and Lynams Hotel, which are located beyond the northern boundary on O 'Rahilly Parade and eastern boundary on Henry Place respectively. Other hotels in close proximity to the eastern site boundary are Holiday Inn Express and The Gresham Hotel on O'Connell Street. The existing noise climate in the vicinity of the proposed development has been surveyed. The prevailing noise levels at roadside positions are mainly contributed by traffic on the busy main road and pedestrian activity, while at positions further from main roads, individual vehicle movements and pedestrian activity are the dominant noise sources.

During the construction stage of the proposed development, the construction activities will involve intrusive works, utilities and structural works and general site works. The assessment has determined that there is the potential for the recommended construction threshold value (75 dB LAeq) to be exceeded when instructive works and utilities and structural works are undertaken respectively within 20m and 15m of the immediate site boundary, for commercial and clinical receptors. At residential receptors there is the potential for the recommended construction threshold value (70 dB LAeq) to be exceeded when instructive works and utilities and structural works are undertaken within 30m and 15m respectively of the immediate site boundary. The only significant source of vibration is expected to be due to excavations, piling and foundation activities. Due to the distance between the aforementioned works, the vibration transmission would be expected to be below the recommended guidelines criteria.

The use of best practice noise control measures including screening, hours of operation, scheduling of works within appropriate time periods, strict construction noise limits, liaising with the public and noise monitoring during this phase will aim to minimise impact of construction noise experienced at nearby receivers. Similarly, vibration impacts during the construction phase will be well controlled through the use of low impact equipment and adherence to strict limit values which will be subject to monitoring at the nearest sensitive buildings.

Following implementation of mitigation measures the residual construction noise impact will be negative, moderate to significant and short-term when intrusive site works are undertaken within 10m of commercial and clinical receptors, and within 15m of residential receptors. At distances

between 10m to 15m of the commercial receptors the residual noise impacts are negative, slight to moderate and short-term noise impact. At distances greater than 20m, the residual noise impacts are neutral, not significant and short-term. When utilities and structural construction works are within 10m of commercial receptors the residual construction noise impact will be negative, slight to moderate and short-term. At distances greater than 15m, the residual noise impacts are neutral, not significant and short-term. There will be a neutral, not significant and short-term noise impact during general construction work activities at the closest noise sensitive receptors. Furthermore, these occurrences at closest boundaries will only be short-term and the vast majority of the construction works will take place at distances from the receptors where no significant impacts are predicted and the construction noise and vibration criteria will be below the recommended construction threshold value.

During the operational stage of the proposed development the outward noise impact to the surrounding environment will be include any servicing traffic on surrounding roads and plant noise from the residential and commercial buildings as part of the development.

The impact assessment has concluded that additional servicing traffic associated with the proposed development on local roads will have an insignificant impact on the surrounding noise environment.

Mechanical plant items will be designed to ensure any noise and vibration impacts during this phase will not exceed the recommended limit values at receptors outside the proposed development. The resulting impact is of neutral, permanent and imperceptible impact.

The impact of noise on the development itself has been assessed. Traffic noise along the surrounding roads is the primary noise source making up the noise levels across the development site. Mitigation measures have been recommended to facades overlooking the local road network so that appropriate internal noise levels are achieved.

### 2.13 Landscape and Visual Impact Assessment (Chapter 12)

Recently approved developments in the area of the Dublin Central site are very large in scale, including developments on O'Connell Street, Parnell Square, Parnell Street, Henry Street and Abbey Street; demonstrating that the surrounding area has a high capacity to absorb development. The scale and height of the approved development at the Jervis Centre is much greater and much taller than anything proposed as part of the Dublin Central Project, and existing developments along Parnell Street West, taken together, are far greater in extent that the whole of the Dublin Central Project.

ARC Consultants carried out an analysis of the potential visibility of development on Sites 3, 4 and 5 from the surrounding urban area, including from 22 representative view locations, and found that from 7 of the locations there was no potential for development on these sites to be visible; and that from only 7 of the representative locations would development on these sites be openly visible.

From the remaining 8 view locations, ARC has assessed that the likely landscape and visual effects arising from the existence of development on Sites 3, 4 and 5 would range from imperceptible to moderate. From the 7 locations where development would be openly visible, along Moore street and Henry Street, ARC has assessed that the likely landscape and visual effects as ranging from moderate to significant.

### 2.14 Material Assets (Transportation) (Chapter 13)

The Transport Assessment is a comprehensive review of all the potential transport impacts of the development including a detailed assessment of the transportation systems provided and the impact of the proposed development on the surrounding environment and transportation network.

The site for the proposed development comprises four city blocks. The blocks include a number of discreet buildings some of which are partly or totally vacant, a number of vacant plots, a number of car parks, van parks and depots and a diverse collection of 3 - 6 storey buildings accommodating a

mix of land uses including convenience shops, retail outlets, financial institutions, offices, and other non-retail uses.

The surrounding area is a well-established city centre with a high provision of public transport including bus services and the LUAS Green Line.

Construction of the Parnell Square Contraflow Cycle Facility is in progress in March 2021.

Public transport improvements proposed include the Bus Connects upgrade of the city network and the provision of a Metrolink station under the proposed development.

The development will also include Metro Enabling Works for the future underground station at O'Connell Street Upper envisaged or planned at Sites 2AB and 2C as part of the Dublin Central Master Plan and to be undertaken by DCGP Ltd on behalf of TII / NTA in advance of tunnelling and station construction works.

The National Transport Agency (NTA) and Transport Infrastructure Ireland (TII) approached the Applicant in 2018 with a view to locating a future MetroLink Station serving O'Connell Street Upper within the Dublin Central site, in an effort to avoid locating the Station within the central median of O'Connell Street Upper. TII is in the process of finalizing the design of the MetroLink project. TII is expected to make an Application for a Railway Order for the MetroLink project, including the O'Connell Street Upper Station, in Q2 / Q3 2021.

The Applicant has agreed a Memorandum of Understanding with the NTA/TII to complete the enabling works that would accommodate the future station, but which would also ensure that the Applicant's project was structurally independent of, and not prejudicial to, the MetroLink project. These enabling works comprise the provision of a structural 'box' positioned below ground, within which the MetroLink project can be positioned and above which the Applicant's project can be constructed. The provision of this structural box (sometimes referred to as the "Station Box") and its ancillary works below ground are known collectively as the Metro Enabling Works (MEW) in the context of the Applicant's overall Dublin Central project.

The provision of the MetroLink O'Connell Street Upper Station and its associated tunnel works would be completed by the NTA/TII once ready to do so and subject to the required consents being in place. It is envisaged that the MEW works would be completed in advance of the NTA/TII tunnel boring machines reaching the area.

The overall development of Dublin Central is programmed to commence in 2022 with completion some ten years in 2032.

During the Construction and Operational Stages, the trips expected to be generated by the proposed development will not exceed the 5% of the traffic on the adjoining roads which is the traffic threshold for a Transport Assessment. As a result, there will be minimal traffic impact on the surrounding road network during and post construction.

Servicing and deliveries will be managed during the Operational Stage under the *Servicing Strategy* for Dublin Central.

Traffic and other movements on the road network during the Construction Stage will be managed under the *Construction Traffic Management Plan* and by carrying out the works in a number of stages to a sequence to be prepared in conjunction with Dublin City Council and implemented by the main Contractor.

During the Operational Stage, transportation movements will be managed by the Travel Plan promoting best practise mobility management and travel planning to provide for the necessary mobility via sustainable transport modes.

The residual impact of the Construction Stage on the transportation environment in the area of the subject site is predicted to be temporary, short-term, slight, and negative.

The residual impact of the Operational Stage on the transportation environment in the area of the subject site is predicted to be permanent, long-term, slight, and positive.

### 2.15 Material Assets (Waste) (Chapter 14)

AWN Consulting carried out an assessment of the potential impacts associated with waste management during the construction and operational phases of the proposed development. The receiving environment is largely defined by Dublin County Council as the local authority responsible for setting and administering waste management activities in the area through regional and development zone specific policies and regulations.

During the demolition and construction phase, typical C&D waste materials will be generated which will be source segregated on-site into appropriate skips/containers, where practical and removed from site by suitably permitted waste contractors to authorised waste facilities. Where possible, materials will be reused on-site to minimise raw material consumption. Source segregation of waste materials will improve the re-use opportunities of recyclable materials off-site. Construction of basements, construction of new foundations and the installation of underground services will require the excavation of estimated 163,490m³ of material. There is limited chance for reuse of material onsite and it is envisaged that all material, will need to be removed offsite due to the limited opportunities for reuse on site. Excavated material which is to be taken offsite will be taken for offsite reuse, recovery, recycling and/or disposal.

A carefully planned approach to waste management and adherence to the site-specific Construction and Demolition Waste Management Plan (Appendix 14.1) during the construction phase will ensure that the effect on the environment will be short-term, neutral and imperceptible.

During the operation phase, waste will be generated from the residents as well as the commercial tenants. Dedicated waste storage areas have been allocated throughout the development for residents and commercial tenants. The waste storage areas have been appropriately sized to accommodate the estimated waste arisings in both residential and commercial units. The waste storage areas have been allocated to ensure a convenient and efficient management strategy with source segregation a priority. Waste will be collected from the designated waste collection areas by permitted waste contractors and removed off-site for re-use, recycling, recovery and/or disposal.

An Operational Waste Management Plan has been prepared which provides a strategy for segregation (at source), storage and collection of wastes generated within the development during the operational phase including dry mixed recyclables, organic waste, mixed non-recyclable waste, glass, cardboard and plastic, as well as providing a strategy for management of waste batteries, WEEE, printer/toner cartridges, chemicals, textiles, waste cooking oil, furniture and abandoned bicycles (Appendix 14.2). The Plan complies with all legal requirements, waste policies and best practice guidelines and demonstrates that the required storage areas have been incorporated into the design of the development.

Provided the mitigation measures outlined in Chapter 14: Material Assets (Waste) are implemented and a high rate of reuse, recycling and recovery is achieved, the predicted effect of the operational phase on the environment will be long-term, neutral and imperceptible.

## Site 3, 4 and 5

AWN Consulting carried out an assessment of the potential impacts associated with waste management during the construction and operational phases of the proposed development. The receiving environment is largely defined by Dublin County Council as the local authority responsible for setting and administering waste management activities in the area through regional and development zone specific policies and regulations.