Blackrock, Dundalk, Co. Louth



Urban Design & Architectural Statement of Consistency May 2019

Residential Development

SHD Lodgement to An Bord Pleanála

o^{mahony} pike



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1.Introduction

This document presents a vision for the sustainable residential development of the 13.8Ha net developable area of a 17.9Ha parcel of lands located within the townland of Haggardstown, 1.3km north of Blackrock Village Centre and approx. 3km south of the central core of Dundalk.

This document has been prepared by O'Mahony Pike Architects on behalf of Kingsbridge Consultancy Ltd as part of an Application Submission to An Bord Pleanala under the new Direct Application process for Major Housing Developments.

The proposed residential scheme comprises of 258 Houses, 225 Apartments (apt. + duplexes), childcare facility, adding to a total of 483 residential units.

In order to clearly demonstrate that best practice sustainable design strategies are being employed for this strategic site, the document follows the broad format laid down by the sustainable community development checklist outlined in the May 2009 DoEHLG document 'Urban Design- A Best Practice Guide'.

The checklist is reproduced in Section 5 for ease of reference.



SITE CONTEXT

2. Context

2.1 Settlement Context

The subject lands comprise of approximately 17.9Ha located off the Blackrock Road in the area of Blackrock, County Louth.

This site is located approximately 1.3 kilometres north of Blackrock Village Centre and approximately 3 kilometres to the south of the centre core of Dundalk.

The lands are strategically located within close proximity to established employment generating land uses:

- the Finnibiar Industrial Estate is on the opposite side of the Bóthar Maol, approximately 70 metres north of the subject lands;
- farther north, the Dundalk Retail Park is approximately 700 metres from the subject site;
- the Xerox Technology Park and Dundalk Logistics Park are both approximately 1 Kilometre to the west of the lands; and,
- the Dundalk Institute of Technology Campus is approximately 600 metres to the northwest.



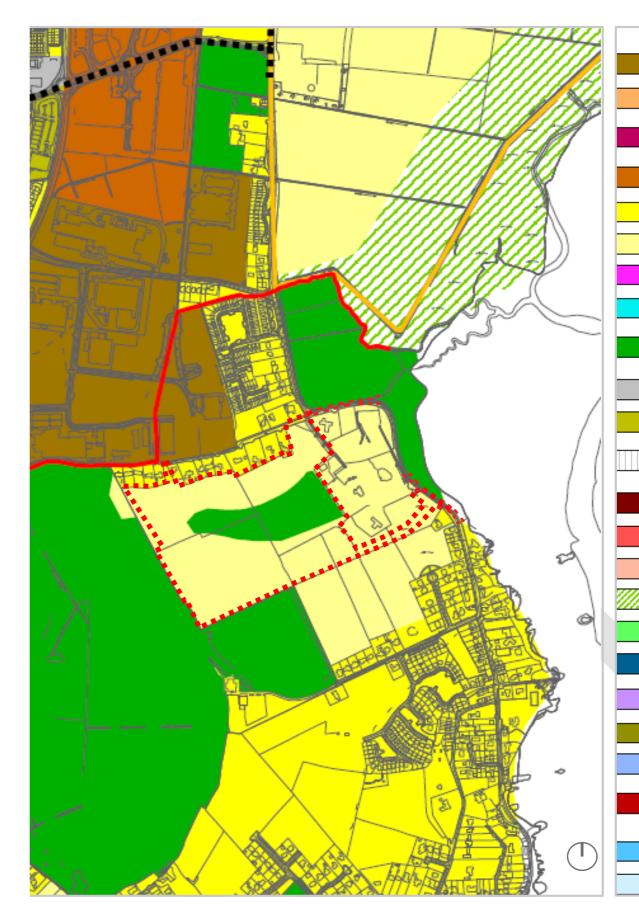
Strategic Context between two settlements

2.2 Planning Context

Under the Dundalk & Environs Development Plan 2009-2015 the area of the subject site is zoned 'Residential 2' with the objective "To provide for new residential communities and supporting community facilities subject to the availability of services" and 'Recreation, Amenity and Open Space' with the objective "To provide for the provision of public parks, open spaces, amenity and recreational facilities".

Table 2.4 'Zoning Uses' of the Plan lists those uses that are 'Permitted Uses', 'Uses Open to Consideration' and 'Not Permitted Use' under the Plan. This table lists Residential, Residential (Ancillary:), and Crèche / Childcare Facility are listed as 'Permitted Uses' on lands zoned 'Residential 2'. Allotments and Sports Facilities are 'Permitted Uses' on lands zoned 'Recreation, Amenity and Open Space'.

Of particular relevance to the framework proposed in this document is the zoned open space occupying the centre of the lands. In response to this, the framework presents a landscape led residential layout comprised of different character areas responding to open space, views and topography, and existing adjacent residential amenity.





Dundalk and Environs LandUse Plan 2009 - 2015

2.3 Site Character & Adjoining Context

The subject site is currently good quality rolling agricultural land, occupying an area of c. 179,566 sqm (17.9Ha.), generally square in plan and subdivided into a small number of relatively large field enclosures.

The Northern boundary is defined by a variety of private residential properties which front Bothar Maol, a historic route, which is only publically accessible along the eastern portion adjoining the site.

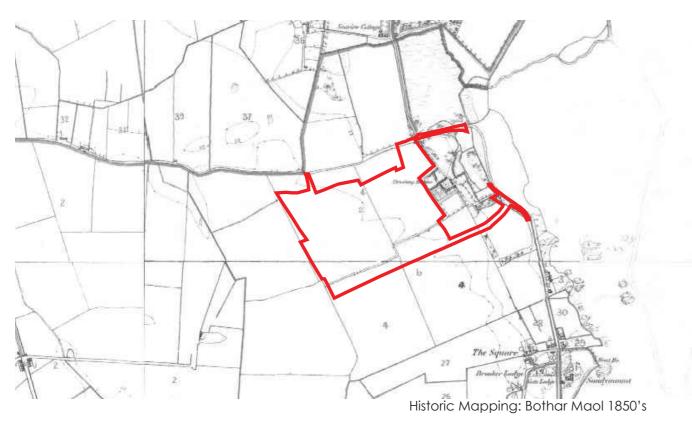
The western and part of the southern boundary of the site adjoins Dundalk Golf Course and practice range. The majority of this boundary is fenced and planted with non-native conifer.

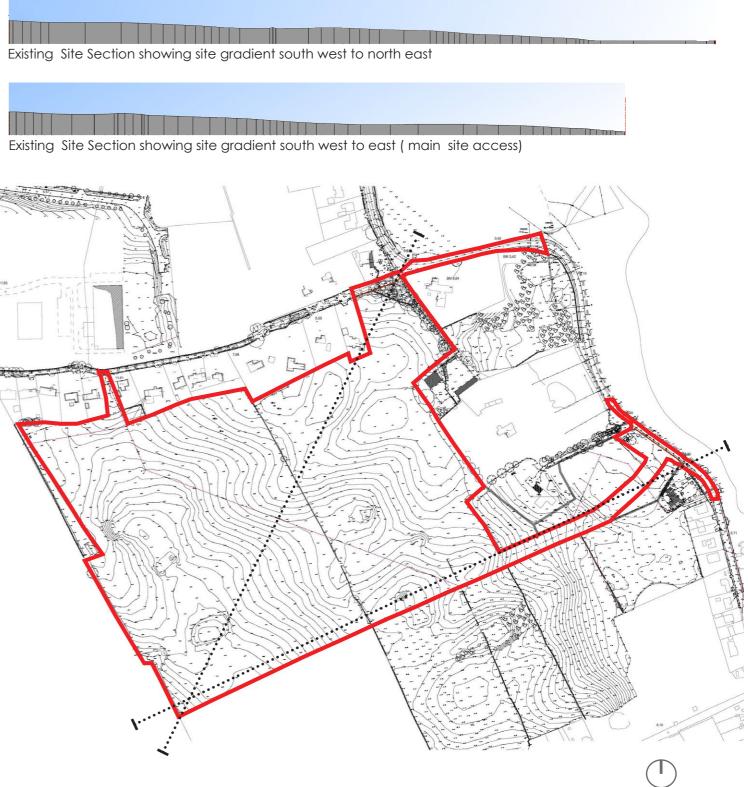
The remainder of the southern boundary joins with lands which are currently in agricultural use, but also zoned for residential use.

Along much of the eastern boundary (particularly to the north east) are mature hedgerows and trees which separate the site from two large sites which are privately owned residential properties.

As illustrated in the site topographical survey, the land undulates significantly, with a general rolling transition from the lowest point to the north east corner at c. 5mAOD (where it meets Bothar Maol) to a high point of 23.78mAOD to the south west (at the boundary with the golf course / practice area). Along the southern boundary the slope falls from south west, the highest point of 23.78AOD to the east (site main access entrance) at the lowest point of c. 3mAOD.

Bothar Maol's historic role as a connective lane/ road is confirmed by the 1850's historic mapping.









Topography-Good Quality, Rolling Agricultural

















2.4 Outline Response to Context

Urban design principles are a contextual reponse to various site specific site conditions:

1. Understanding of topography, views and adjacent dwellings to form a basic organisation of built frontages versus gabling or back to back conditions;

2. Consolidation of zoned open space with existing mature trees, hedgerows and field divisions to develop a basic organsisation of residential development parcels;

3. Basic urban design framework incorporates key connections to and across lands with specific reference to continued use of Bothar Maol as a connective lane in the wider context.



1. Site Response with regard to Views and Topography

2. Development Structure in Response to Existing and Required Open Space Features



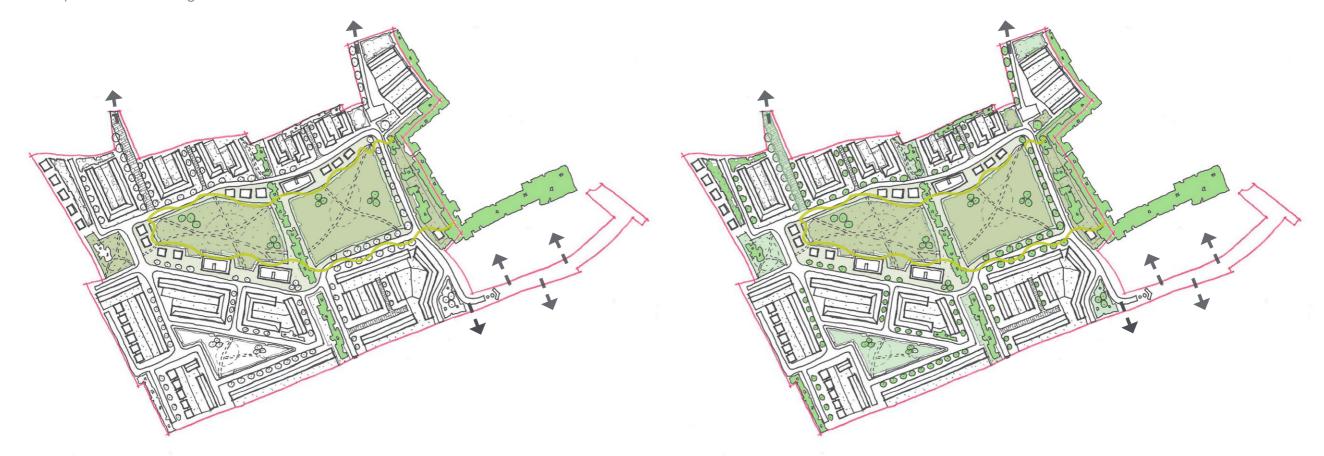
3. First Principles- Contextual Urban Design Framework / Character Areas



3. Concept Design Development

Design development prior to the iteration of the layout considered by the remainder of this document developed and refined considerations around four key themes:

- 1. Primary Landscape Structure
- 2. Secondary Landscape Structure
- 3. Primary Movement Strategy
- 4. Secondary Movement Strategies



Primary Landscape Structure: East-West Parklands

- Park developed along east-west axis of lands based on but not limited to the Zoned Open Space reservation described by the LCC Development Plan;
- East-West park incorporates retained hedgrow that informs the development of the secondary landscape structure.

Secondary Landscape Structure: North-South Link

- Secondary landscape structure develops north-south link along existing hedgerow through E-W park with southern extension to adjacent future development lands to the south;
- Secondary open space developed in south west quadrant between Character Areas 02 & 03 with north-east oriented link back to Zoned Open Space reservation described by the LCC Development Plan;
- Pocket Parks provided at Entrance and Blackrock Road link area to frame views into scheme;
- Additional north-south green links provided at connections to Bothar Maol, Blackrock Road and future development areas to south.



Primary Movement Strategy

• Primary Road Access Loop within Zoned Open Space reservation described by the LCC Development Plan.

• Secondary Road links provided to facilitate future development to the South;

Secondary Movement Strategies

3.1 Pre application consultation with ABP

The proposed development was amended following the pre-application consultation with An Bord Pleanála (ABP-303256-18). The revisions made to the site layout in response to the Bord's opinion are as follows:

-Removal of residential Car parking from the Zoned lands zoned 'Recreation, Amenity and Open Space': In total, 137 no. residential car parking spaces have been removed from the central public open space to improve the relationship between the proposed residential elements and open space areas. Under this proposal, undercroft car parking is incorporated at Blocks A, B and F, taking advantage of the natural slope of the site. These undercroft areas are accessed from lower points off the main access routes in order to minimise environmental impact and to "anchor" those buildings into the slope.

The relocation of the surface level car parking has resulted in the reduction of 2 no. house units on the overall site, with the scheme falling from 485 no. residential units to 483 no. units. This reduction does not impact on the overall site density, which remains at 35 units per hectare.

- Omission of secondary vehicular access from Bothar Maol to the Mill End Character Area: Drawing from the comments from Louth County Council, the previously proposed secondary vehicular access from Bothar Maol at the North East of the site has been removed and it is now proposed to provide a pedestrian and cycle access at this location. The 20 no. units in the Mill End Character Area are served by the main access roads through the site but retain their distinct courtyard character through the provision of an expanded open space area.





The Masterplan

4. The Masterplan

4.1 The Masterplan Layout

The proposal consists of 483 units which contains a variety of housing typologies, high quality apartment units, duplexes, terraced, semi-detached and detached dwellings. The residential units comprise 1 & 2 bed apartments, 3 bed duplexes, 3, 4 & 5 bed houses.

It is also proposed to provide exensive local amenity spaces and family orientated facilities, including playgrounds. The residential activities are further supported by a neighbourhood childcare facility.

The proposal has been developed using best practice urban design principles including permeability, legibility and connectivity.

The proposal consists of a clear and legible hierarchy of streets and spaces, accessible by all. Valuable green routes are provided for cycle and pedestrian movements from north to south and east to west connecting zoned open space parkland and various open spaces within the development and to the existing sourrounding context.

The proposal provides for a broad range of accommodation within a parkland setting. The avenues and homezones deliver a discrete and sensitive parking provision with links and visual connections to the amenity spaces.

On arrival the public is presented with one main amenity space which act as a gateway into the development - the village green. The pedestrian links and cycle ways assist in the ease of movement through the development and add a sense of permeability to the scheme.

The main distributor road looping around the zoned open space it is a major feature both in how the landscape is arranged and also how the built form and streetscape is defined.

The pedestrian and cycle routes are designed so as to enhance the feeling of family oriented residential zones and a child friendly environment. Parking spaces are located undercroft, on-curtilage or are grouped in discrete zones, delineated by surface treatments and subtle landscaping which included speed reducing measures, to provide a family safe environment.



4.2 Urban Design Approach

The proposed layout provides for 483 units arranged in a series of character areas that respond to the zoned open space and the existing landscape character of the lands. Views within and from the development are framed by legible links that supervise the space and connect to the existing landscape structure. The key urban design principles informing the proposed layout are illustrated on this page, with the resulting site layout plan on the previous page.

A developable area of 13.8Ha results from the deduction of the 3.7Ha Zoned Open Space and 0.4 Ha of road works. Sustainable residential densities of 35 dwellings per hectare are achieved through the use of a variety of housing typologies including apartments, duplex, terraced, semi-detached and detached dwellings.

Location of the various housing types, and their height and massing, is responsive to topography, landscape character, the exploitation of coastal views from higher ground, and the passive supervision of the central public park.

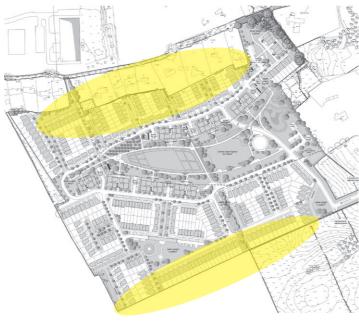
In addition to the zoned open space, 10.2% of the developable area (1.4 Ha) is provided in a series of public open spaces organised to provide more local and intimate spaces that aid placemaking in the character areas, but are each components of a legible sequence of connections to and through the zoned open space to adjacent lands. A notable connection is made to the historic Bothar Maol lane connection.

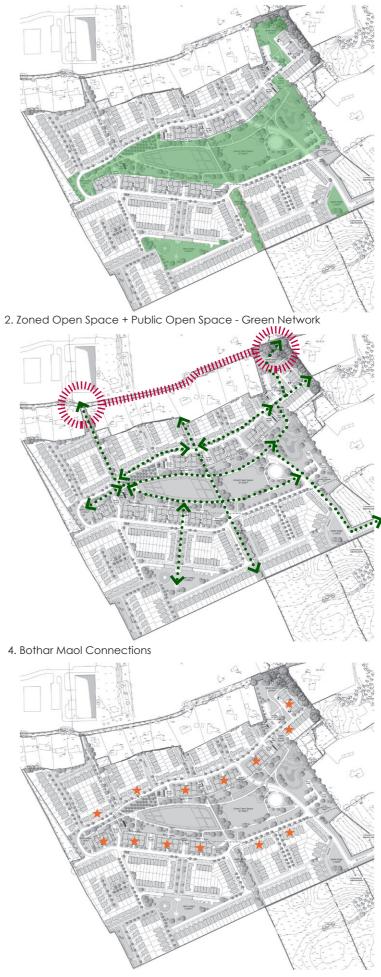


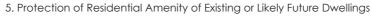
1. Connections-Legible Road Hierarchy



3. Connections- Green Network Links for Pedestrian and Cycle







6. Passive surveillance to Parkland

4.3 Massing / Scale / Height Strategy

Massing, scale and height across the development are determined in response to three key factors:

• The provision of a contextually appropriate response to existing and likely future patterns of residential development adjacent to the site;

• A response to the topografic conditions of the site and the opportunity they offer to capture views;

• A response to the scale of the zoned open space.

The general height and massing of the development is set by two storey dwellings arranged in homezone character areas to the edge of the site.

To the north, these comprise a neighbourly response to existing adjacent dwellings; to the south, they anticipate likely future patterns of development of similar two storey scale.

From this contextual response, heights rise generally towards the centre of the development to provide a four storey scale around the perimeter of the zoned open space.

The change in scale serves two purposes:

- To frame views along the open space and through the development to aid legibility and identity;
- To ensure an appropriate measure of passive supervision of the large open space from upper residential storeys in line with best practice placemaking.

At the western end of the open space, height drops to three storey to allow the view to continue beyond the parkland and to avoid a sense of over-enclosure of the space.

Further west, where existing site levels rise to a high point, a two-and-a-half storey is established. As a result of retained site topography, the visual sense of these dwellings is of an equal height to that of the apartments.

This increased scale allows the dwellings along the western edge to capture views to the east and west across the generally lower scale of housing.





Site Section C-C

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4.4 Character Areas

The layout proposes five landscape character areas, each responding to specific landscape, topographical and boundary considerations and mixing housing typologies within each of the character areas.

These character areas are:

1. Cooley View:

This character area forms the main 'Gateway' to the site.

The vehicular access road will offer excellent views in a north easterly direction of Dundalk Bay & the Cooley Mountains beyond. A forecourt open space provides a sense of place and an entrance to the new community, framed by 2 to 2.5 storey detached family homes. The siting of dwellings along the southern edge sets up a back-to-back condition with any future residential development. Landscape is envisaged as having a wetland character.

2. Meadow & Field:

The most extensive character area within the development, occupying the core central space from which the other character areas integrate. It is formed by the zoned open space compartmentalised by the pedestrian and cycle movement network and by hedges, trees and fences into a series of smaller enclosures, with amenity/play interventions throughout the space. The edges of this character area are defined by apartment buildings, offering supervision of the open space through higher densities, open up views to the estuary to the east from higher levels, and framing the public realm when viewed from the east. This character area would maintain a structured yet natural feel - taking reference from agricultural landscape such as hedges, Louth bank walls, swales & ditches. SUDs will also play an important role in this area, directing surface water through swales and landform to the north-east and creating valuable habitat.

3. The Birches & Pine:

As the land rises subtly in the direction of the Golf Course, the site character will also change. This area will respond to the existing conifer planting associated with the Golf Course and slightly higher and drier land. The golf course edge is occupied by detached dwellings taking advantage of excellent views, vistas to the west. A triangular shaped public open space is located at the heart of the south portion of this character area. This pocket park is defined by the building form of mixed house typologies to provide more local and intimate space which aid placemaking in this character area. A simple symetrical avenue connects in views and pathways ' The Birches & Pine' into the adjacent large central parkland of 'Meadow & Field'.

4. Bothar Maol:

This character area responds & respects the existing feel along Bothar Maol which is a well established low density suburban residential area.

Acting as a landscape extension to Bothar Maol, the built form provides a series of gabled relationships to existing dwellings to the north. Small streets, homezones, each street is different in size and shape, which will add to its' individuality and sense of place. This is a reasonably sheltered part of the site and will therefore accommodate a wider variety of species including flowering trees and hedges. Strong landscape buffer between the existing properties along Bothar Maol garden boundaries would be a mixture of hedging solutions.

Bothar Maol

The Birches & Pine



5. Mill End:

As the 'Cooley View', this character area will also form a 'Gateway' to the development, but of a pedestrian nature. There is valuable maturity in this area formed by mature trees and vernacular buildings on adjacent lands to the east. The built form will be an intimately scaled enclave in the form of a courtyard responding to existing mature landscape and character of the area.

Elevation Treatment - Materials:

The material treatment in each character area serve to reinforce their unique sense of identity within the site.

The principal materials of the scheme are brickwork and render. Metal cladding, glazed balustrading and small patterns of stone cladding are utilised to pick out facade details, reinforcing key design elements of the elevation.

Brick cladding for the apartment blocks in 'Meadow & Field' has been selected to give this character area a strong, consistent and coherent external identity to the building edge of the parkland - the Zoned Open Space.

The scheme contains a variety of house types and sizes, which allows for flexibility in the depth and overall shape of housing blocks, as well as variation in elevation design, proportion and language.

The elevation treatment of the houses is a contemporary response and interpretation of the suburban, vernacular residential area in the vicinity of the subject site with predominant use of rendered walls and simple pitched-roof forms.

Character areas 'Cooley View', 'The Birches & Pine' and 'Bothar Maol' are comprised mainly of houses with a render finish. Brick, stone and metal cladding details highlights the main entrances. A colour variation of material palette will be aplied to each character area to give them a sense of distinctiveness.

'Mill End' consists of a small scale enclave of Duplexes and semi-D Houses defining a formal courtyard area. Picking up on the palette of vernacular buildings on adjacent lands to the east, the front elevation of the 3 storey duplexes is a mixture of brick and render. The brick base rises from the ground forming a durable plinth to allow a greater wear and tear. The rendered top half of the facade breaks the height, softening the overall proportions.

CHARACTER AREA 1 -COOLEY VIEW

CHARACTER AREA 2 - MEADOW & FIELD



House Type A

House Type D



EXAMPLE MATERIAL PALETTE:



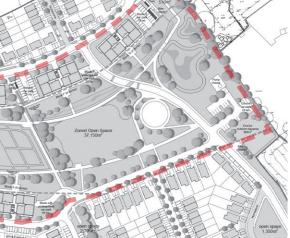
Stone Render Material combination: off white Render + light grey stone or light grey brick to entrance areas. Metal cladding to facade details: canopy, dormers etc.



Brick Brick cladding to all apartment blocks to the building edge of the parkland



Site Section B-B / Typical Street Elevation of Apartment Blocks







Metal Cladding Metal cladding utilised to pick out facade details, reinforcing key design elements of the elevation.

CHARACTER AREA 3 - THE BIRCHES & PINE



House Type I



EXAMPLE MATERIAL PALETTE:



Material combination: buff Render + brown-buff brick to entrance areas. Metal cladding to facade details: canopy, etc.

CHARACTER AREA 4 -BOTHAR MAOL



House Type C









Material combination: off white Render + light grey stone finish to entrance areas. Metal cladding to facade details: canopy, dormers etc.



Material combination: off white Render + light grey brick Metal cladding to facade details: canopy, etc.

CHARACTER AREA 5 - MILL END







Metal cladding



pidge Consultancy Ltd jeb no. (18)130 defe May. 19 scale 1:750@A0 by pjm notes For Planning

25	Holous kanatus
12	Arrenaltherum elatiks
155	Deschampsia opespitosa
n.	Phiourn Ibertoionii
8	Poo triviolis
iπ.	Alopeourus protensis
155	Trisetum flavescens
	Centurea nigra
52	Galum verum
12	Levconthemum vulgare
	Plantogo kanoeolata
52	Renunculus ocris
	Ronunculus repens
	Rumex opetosa
%	Achilea milefolum
	Agrimona eupatorium
%	Agrostis stolonitera
	Anthoxenihum ederatum
	Briza media
	Filpendula ulmaria
	Prunella vulgaris
	Trifolium protense
	Trifolium repons
	bothyris proteinsis
	Leonrodon autumnale
	tarakacum officinale
0.1%	Pulcario dysenteria

Golden Col-Gross Common Knapwe Lody: Bedition Cheve Date Risera Flankin Meadowikithero: Casemon Seeil Yarow Aginaniy Cheoping Berl Sweit Vernal Caseling Gress Meadowikeel Bed Clover White Clove Meadowikeel Bed Clover Meadowikeel Bed Clover Meadowikeel Saftwon Danbelon Cosemon Reabon



LANDSCAPE MANAGEMENT (YEAR 1-20)

GENERAL NOTES:

STING MATURE TREES

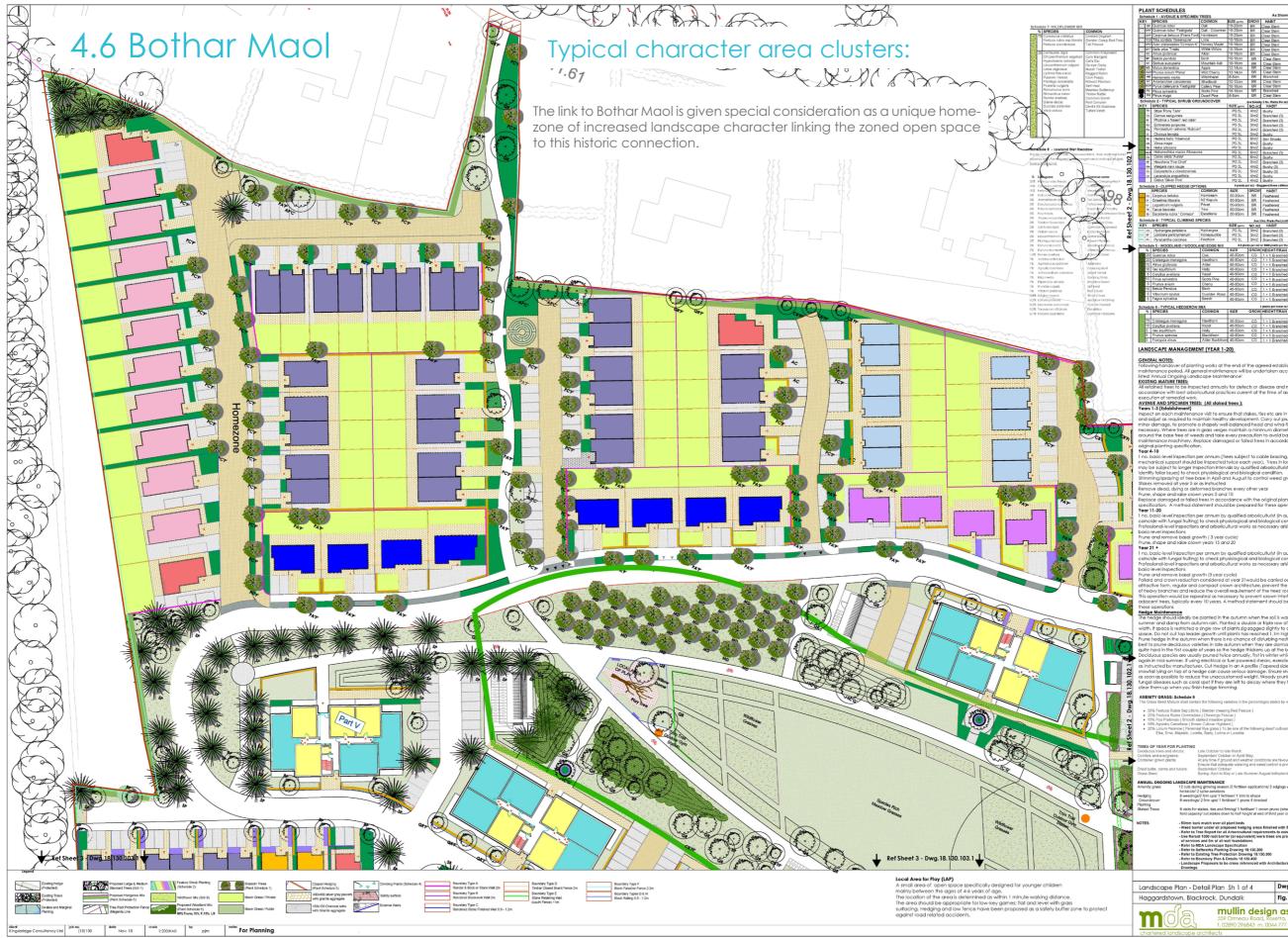
d annually for defects or a

AVENUE AND SPECIMENTRES: (All staked trees): Years 1-3 (Establishment)

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Landscape Masterplan		Dwg.18.120.100.1
Haggardstown, Blackrock		Fig. 5.18 (LVIA)
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KE		IN 1 - AVENUE & SPECIMEN ISPECIES	COMMON	SIZE (pirm)	GROW	HABIT
NE CO	OR		Oak	18-20cm	BR	
×		Quercus robur 'Fastigiata'	Oak - Columner	18-20cm	BR	Clear Stem Clear Stem
×		Carpinus betulus (Frans Font)	Hombeam	18-20cm	BR	
2	10.0		Lime	16-18cm	BR	Clear Stem
×	APC	Aper platanoides 'Crimson K'	Norway Maple	16-18cm	BR	Clear Stem Clear Stem
÷		Sala alba 'Tristis'	White Willow	16-18cm	BR	
÷	80	Alnus glutinous	Akter	16-18cm	BR	Clear Stem
×	110	Betula pendula	Birch	16-18cm	BR	Clear Stem
÷	54	Sorbus aucuparia	Mountain Ash	16-18cm	BR	Clear Stem
÷	100	Majus domestica	Apple	12-14cm	BR	Clear Stem Clear Stem
2		Prunus avium "Piena"	Wild Cherry	12-14cm	BR	Clear Stem
2		Hamamelis molis	Witchhazel	6-8cm	BR	Branched
2		Amelanchier canadensis	Shadbush	10-12cm	BR	Clear Stem
		Pyrus calleryana 'Fastigiata'	Callery Pear	16-18cm	BR	Clear Stem
10		Pinus sylvestris	Scots Pine	16-18cm	BR	Branched
	14	Pinus sylvestris Pinus mugo	Dwarf Pine	6-8cm	BR	Clear Stem
		ule 2 - TYPICAL SHRUB/ GRO	UNDCOVER			y 5 No. Plants Per
KE		SPECIES		SIZE (pirth)	NO.m2	HABIT
	50	Stipa 'Pony Tails'		PG 5L	4/m2	Bushy
	Cs	Cornus sanguinea		PG 3L	3/m2	Branched (3)
	Pf	Photinia x fraseri' red robin'		PG 3L	3/m2	Branched (3)
	69	Echinacea purpurea		PG 3L	3/m2	Branched (3)
	P2	Pennisetum-advena 'Rubrun	4	PG 3L	3/m2	Branched (3)
	α	Choisya ternata		PG 5L	3/m2	Bushy
	H01	Hedera helix 'hibernica'		PG 3L	6/m2	Sev Shoots
	Vm.	Vinca major		PG 3L	6/m2	Bushy
	На	Hebe albicans		PG 3L	6/m2	Bushy
	the?	Hakonechiba maora Alboaun	1a	PG 3L	6/m2	Branched (3)
	Ce	Carex elata 'Aurea'		PG 3L	6/m2	Bushy
	н	Heuchera "Fire Chief"		PG 3L	5/m2	Branched (3)
	uun	Weigela nain rouge		PG 3L	4/m2	Bushy (3)
	Ċε	Caryopteris x clandonensis		PG 3L	5/m2	Bushy (3)
	La	Lavandula angustifolia		PG 3L	4/m2	Bushy
		Cistus 'Silver Pink'		PG 3L	4/m2	Bushy
841	ed.	IN 3 - CLIPPED HEDGE OPTH	ONS	6 plants p	er m2 - Sta	opered Rows c40
		SPECIES	COMMON	SIZE	IGROW	HABIT
-	~	Carpinus betulus	Hombeam	60-90cm	BR	Feathered
-		Griselinia Ittoralis	NZ Kapula	60-90cm	BR	Feathered
		Lugustruim vulgaris	Privet	60-90cm	BR	Feathered
		Taxus baccata	Yenv	60-90cm	BR	Feathered
		Escalonia rubra ' Crimson'	Escallonia	60-90cm	BR	Feathered
				1 00-00cm		
		Ile 4 - TYPICAL CLIMBING SP	PECIES			No. Plants Per Li
KΕ	Y	SPECIES		SIZE (girth)	NO.m2	HABIT
•••	Ct	Hydrangea petiolaris	Hydrangea	PG 3L	3/m2	Branched (3)
-	PT	Lonicera periclymenum	Honeysuckle	PG 3L	3/m2	Branched (3)
-	Ρt	Pyracantha coccinea	Firethorn	PG 3L	3/m2	Branched (3)
2.1	e-fu	te 5 - WOODLAND / WOODLA	ND EDGE MIX	0.5 pin	nts per m2	or 5000 plants per
-		SPECIES	COMMON	SIZE	IGROW	HEIGHT/TRA
5.75		Quercus robur	Oak	40-60cm	CG	1+1 Branch
		Crataegus monogyna	Hawthorn	40-60cm	CG	1 + 1 Branch
		Alnus glutinosa	Alder	40-60cm	CG	
		Anus glutinosa Ilex aquifolium				1 + 1 Branch
	10		Holly	40-60cm	CG	1 + 1 Branch
		Coryllus aveilana	Hazel	40-80cm	CG	1 + 1 Branch
					CG	1 + 1 Branch
	10	Pinus sylvestris	Scots Pine	40-60cm		
	10 5	Pranus avium	Cherry	40-80cm	CG	1+1 Branch
	10 5					1+1 Branch
	10 5	Pranus avium	Cherry	40-80cm	CG	1 + 1 Branch 1 + 1 Branch 1 + 1 Branch

Landscape Plan - Detail Plan Sh 1 of 4 Haggardstown, Blackrock, Dundalk

Dwg.18.130.101.1 Fig. 5.19 (LVIA) mullin design associates

4.7 Existing Trees & Hedgerows

The site features many existing hedgerows, which form the boundaries between fields. Hedgerows are important habitats for wildlife, and are also part of the identity of the site.

However, as the nature of the site changes, the context for the existing hedgerows also changes.

Within the new development, different conditions will arise whereby it will sometimes be appropriate to retain hedgerows, and sometimes to remove them.

The layout recognises hedgerows as the primary land form on the site and uses them to order the development where possible.

Detailed landscape design will seek opportunity to introduce new boundary conditions between houses or development clusters, which are part of the soft, green landscape, reinforcing where appropriate the hedgerow structure. Such soft boundaries will be planted with indigenous trees and wildflowers, with a simple fence along the centreline to demarcate property boundaries.

Where an existing hedgerow runs through a proposed public open space, it is appropriate to retain the larger, good quality trees that form part of the hedgerow as focal points within the public space, and to remove the hedgerow itself. A diverse range of planting be provided to compensate for any hedgerow removal required to maintain linkages between public open spaces.

P.S. Please refer to the landscape design rationale set out in the Landscape Strategy / Design code prepared by Mullin design Associates. The retention of a single, large tree within a public open space may be more appropriate than the retention of a hedgerow. Ref: Adamstown, O'Mahony Pike Architects



An new embankment with wildflowers creates an attractive boundary to the street. Reference: Waterfall, Co. Cork, O'Mahony Pike Architects





The boundary between dwellings is demarcated by a new ditch, planted with wildflowers and native shrubs. Reference: Waterfall, Co. Cork, O'Mahony Pike Architects

4.8 Sustainable Urban Drainage

Sustainable drainage systems (SuDS) are a natural approach to managing drainage within developments. Subject to soil percolation testing, a SuDS approach is proposed for this development.

SuDS aims to deal in an integrated way with the issues of water quantity, quality and amenity. It works on the following principles:

• managing surface water run-off on-site as near to source as possible;

- slowing down run-off;
- treating it naturally; and

• releasing good quality surface water to water courses or groundwater.

The overall objective is to return excess surface water to the natural water cycle with minimal adverse impact on people and the environment. The means by which this can be achieved can be designed as an attractive integral amenity feature within the development and can achieve significant ecological enhancement compared to conventional drainage options.

SUDS measures which is quite appropriate to the subject lands include swales, bio-retention areas, wetlands, green roofs and permeable paving.



Sketch shows swale incorporated into streetscape, with biodiverse planting



Pedestrian bridge over watercourse

Wildflower planting within swale

A curved pathway runs through a landscape of grasses and water features





A depression which can attenuate water when required

4.9 Homezones

Homezones are proposed across the character areas of Cooley View (character area 1), The Birches & Pine (char-acter area 3) and Bothar Maol (character area 4). In the homezones, a shared surface is proposed for the car-riageway and the pedestrian refuge, and priority is given to pedestrians and cyclists. Trees and other planting are incor-ported as a start of the carporated so as to create an attractive streetscape.



Reference: Homezone at Somerton, Adamstown, O'Mahony Pike Architects



Reference: Grace Park Woods, Drumcondra, O'Mahony Pike Architects

carparking and old landscaping

7.5m thresh resh - 2.0m pedestrian refuge

1.2m



carraigeway 4.8m

8.5m carparking and threshold landscaping

Homezones - Typical shared surface treatment:



Haggardstown, Blackrock - Landscape Strategy / Design Code,

MDA 18



4.10 The Layout - Housing Typologies



Housing mix & Typologies:

		1		
Unit Type	Description	no. of beds	area (m²)	no. of units
HOUSES				
TA 🔲	Detached	5	196.5	22
тв 📃	Detached	5	176.5	19
тс 🔲	Detached	4	151.8	10
TC1 📃	Detached	4	153.4	7
TD	(comer unit) Detached	4	146	3
TE 🔲	Det/Semi-D	4	138.5	23
TF	Detached	4	137.4	7
TG 📃	Semi-D/Det.	4	120.8	50
тн 🔲	Detached	3	117.3	9
TH1	(comer unit) Detached	3	110	9
ті 🔲	Semi-D/Ter.	3	102	37
TJ 🔲	Semi-D/Ter./D	3	92	61
DB		4	158.5	1
	Detached (disability bungalow) ENTS + DUPLE		100.0	е —
1Bed	Block A/B/C/D	1	52/ 56	64
	Block A/B/C/D	2		149
2Bed	E/F/G	2	78/80/83 84/86	149
2Bed	GF Apt. below Duplexes	2	82	06
3Bed	Duplexes	3	117/118	06
Total:		I		483
Terra Dupl GF A Apar Tota Tota Tota Tota Tota Tota Tota	i-Detached: aced: exes: Apt. below Du tments: I Residentia I House unit I GF Apart I apartment sing typolo I 5 bed: I 4 bed: I 3 bed: I 3 bed Dupl d GF apt. w duplexes:	3 (plexes: C 2 1 units: 4 s: 258 un + Duplexe units: 213 gies: 1 1 exes:	9 units 6 units 6 units <u>13 units</u> 83 units 83 units s above: units 41 units	(8.5%) (20.9%) (24%) (1.3%)
	d Apartment d Apartment			(30.8%) (13.2%)
Tota Site Road Zone Deve Site Publ	I Residentia area: c. 179 d works: c. 4 ed open spa elopable are Density: 35 ic open space 2% of develo	l units: 44 ,566m2 / 1 ,170m2 / 1 ce: 37,150 a: c. 138,2 units per h ce provide	83 units 17.9 Ha. 0.4 Ha. 0m2 / 3.7 246m2 / 1 nectare d: 14,050	(100%) ' Ha. 13.8 Ha.
DIA				

Planning

Site Layout Plan - Housing mix (Key Plan)

Residential Development at Blackrock Dundalk, Co. Louth © 2019 O' Mahory Pike Architects **o'mahony pike**

4.11 Proposed Site Sections



Proposed Site Section A-A

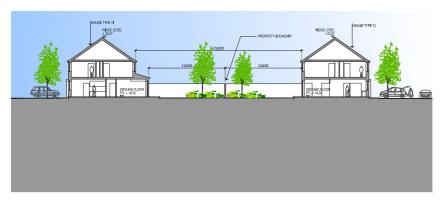


Proposed Site Section B-B



4.12 Proposed Typical Sections 1-1/2-2/8-8/9-9

Through Rear Gardens & Site Boundary



Typical Section 1-1 (through rear gardens)



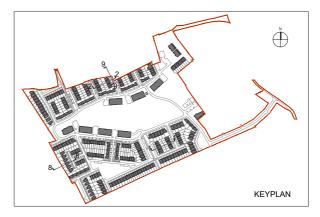
Typical Section 2-2 (through rear gardens)



Typical Section 8-8 (through Site Boundary)

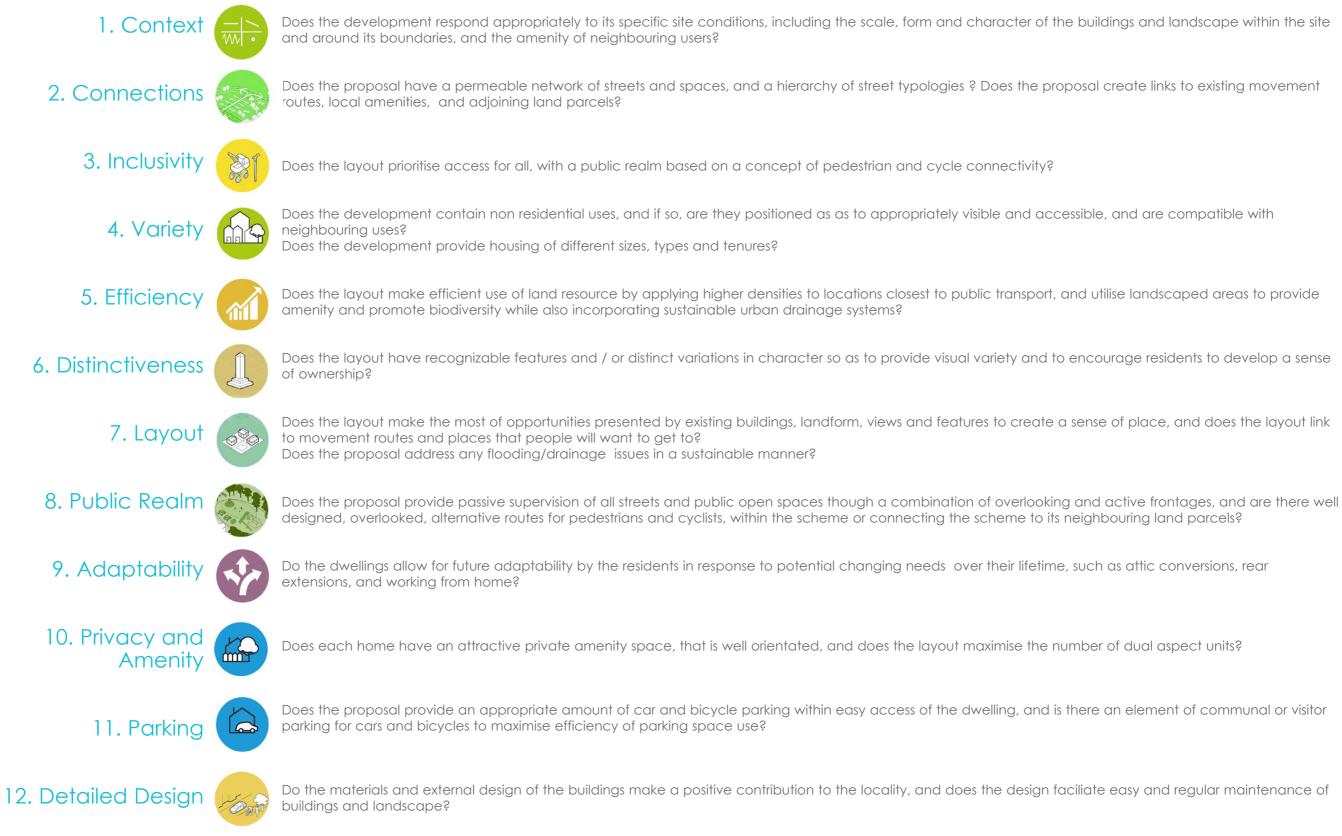


Typical Section 9-9 (through Site Boundary)





5. Urban Design Considerations - Statement of Consistency





5.1 Urban Design Considerations - Statement of Consistency

The design guide sets out a series of 12 criteria which should be used at pre-application meetings and in the assessment of planning applications. The design guide criteria provides a robust framework in which proposals for the design of residential development can be discussed at pre-application consultations and submitted to the Bord.

In this way, it is submitted that the proposed development is consistent with the provisions of the Sustainable Residential Development in Urban Areas Guidelines 2009, and the Urban Design Manual - A Best Practice Guide 2009.

The Design Team have set out below how the proposed development responds to these design criteria where they are relevant residential schemes.

1. Context: How does the development respond to its surroundings?

The Proposed development is located within the townland of Haggardstown, off the R172 coastal roadway linking the village of Blackrock to the South and the town of Dundalk to the North.

The proposal is bounded by residential dwellings to the Northern side, residential zoned lands to the Eastern side, Dundalk Golf Club to the Western side and its practice area to the South. The remainder of the southern boundary joins with lands which are currently in agricultural use, but also zoned for residential use.

The Proposed Development consists of 483 No. residential units comprising:

- 258 No. 3/4/5-bed, two/three storey houses
- 6 No. 3-bed duplex units above 6 No. 2-bed Ground Floor Level apartments
- 6 No. four storey apartment buildings: Block A/B/C/E/F/G - 32 no. units
- 1 No. three storey apartment building: Block D - 21 no. units
- 1 No. Childcare facility for 112 children

The design principles of the development are a contextual reponse to various site specific and site conditions:

• Understanding of topography, views and adjacent dwellings to form a basic organisation of built frontages versus gabling or back to back conditions:

• Responding to adjacent dwellings to north, we are proposing to gable-end onto the boundary to avoid overlooking;

• Rear gardens backing onto adjacent residential zoned lands to south to facilitate future similar development pattern along

same boundary; allowing for future access to zoned lands;

• Consolidation of zoned open space with existing mature trees, hedgerows and field divisions to develop a basic organsisation of residential development parcels;

 Basic urban design framework incorporates key connections to and across lands with specific reference to continued use of Bothar Maol as a connective lane in the wider context.

2. Connections: How well is the new neighbourhood /site connected?

The proposed Masterplan layout will allow for extensive pedestrian permeability and connectivity throughout the site and existing sorroundings. It will allow for good connection to external pedestrian facilities on the local road network. These will predominantly be provided through pedestrian and cyclist access onto both the R172 and Bothar Maol via two vehicular site entrances. A third pedestrian and cyclist only access will also be provided further west on Bothar Maol. In the first instance the proposed open space and creche facility are both within a very short walking distance of all residential units within the proposed development.

The entrance to the site will be from the R172, where there will be a new service roadway extending circa 250m in a westerly direction that will provide vehicular access to the main

development area.

The proposed Site Layout Plan facilitates future pedestrian, cyclist access and vehicular access onto the zoned lands to the south.

The proposed development is well located in terms of access to local services amenities and employment opportunities and many of these are within a 2km walking distance of the site.

There are a number of schools within 5 km of the site including St. Francis National School Blackrock, Scoil Na GCreagacga Dubha Blackrock, etc. The proposed site it is also located on the door step to Dundalk Institute of Technology.

In terms of cycling, there is an extensive area within a cycling distance of 4.8km to and from the site. All of Blackrock and a significant portion of Dundalk, including the Town Centre, DKIT and local employment opportunities to the south and east of the town, are within confortable cycling distances from the site.

The street layout of the proposed Masterplan is designed to deliver a safe place of high functionality where the streets and open spaces can be used for social interaction / congregation and play.

The key principles that has been adopted for the street design has been the creation of a defined hierarchy which as well as establishing desirable speed limits, improves leaibility through the site.

development?

The proposal's residential units, open spaces, entrances and carparking have all been designed to encourage access and use of the development, as per National Disability Authority's "Building for Everyone: A Universal Design Approach" and "Universal Design Guidelines for Homes in Ireland."

and existing sorroundings. movement.

The central zoned open space is connected with pedestrian links to all the smaller pocket parks provided in each character area. These pocket public open spaces are organised to create more local and intimate space that aid placemaking in the character areas. All public opens spaces throughout the site provides high levels of permeability for pedestrians and cyclists, encouraging connections and integrated routes.

cyclists.

The development will provide for disabled car parking spaces as well as bicycle parking in appropriate locations. All residential units and communal areas are designed to be accessible to all.

3. Inclusivity: How easily can people use and access the

The proposed Masterplan layout will allow for extensive pedestrian permeability and connectivity throughout the site

The street layout of the proposed Masterplan is being developed in accordance with DMURS and thus the appropriate measures have been considered in order to facilitate an accessible, permeable, connected and socially inclusive street network for pedestrian and cyclist

Homezones are proposed across the character areas where carriageway and the pedestrian refuge are treated as shared surface, giving again priority to pedestrians and

4. Variety: How does the development promote a good mix of activities?

The proposal consists of 483 units which contains a variety of housing typologies, high quality apartment units, duplexes, terraced, semi-detached and detached dwellings. the residential units comprise 1 & 2 bed apartments, 3 bed duplexes, 3, 4 & 5 bed houses.

It is also proposed to provide exensive local amenity spaces and family orientated facilities, including playgrounds. The residential activities are further supported by a neighbourhood childcare facility.

The provided mix of housing sizes & forms covers a great range of demographics and it is appropriate for the site context:

• House units of different types, sizes and tenures could suit families with children or older residents;

• Proposed apartment units are more suited to smaller or single-person households or residents with access difficulties.

The proposed homezones are family friendly with designed and landscaped on street parking and generous back gardens. The amenity zones are readily accessible from the residential units and are linked through a network of cycle and pedestrian routes. The proposed residential mix allows for living accommodation which appeals to a broad range of people and lifestyles.

5. Efficiency: How does the development make appropriate use of resources, including land?

The development is designed to address Louth County Development Plan 2015-2021, 2007 Quality Housing for Sustainable Communities & The Sustainable Urban Housing: Design Standards for New Apartments as regards density and residential mix. The proposed site density is 35 units per hectare, site coverage is 20%, while the varied heights, rising to 4 no. storeys give a plot ratio of 0.38

In addition the development is engineered to provide residential units which achieve high standards of energy efficiency and conservation. The landscape proposals and green areas address the sites requirements for surface water retention (SuDS measures) while providing a high quality open spaces.

Particular emphasis has been placed on the orientation of the residential units with optimum east-west orientation, addressing overheating issues while exceeding natural daylight requirements. Maximising south facing gardens and minimising north facing gardens.

6. Distinctiveness: How do the proposals create a sense of place?

The layout proposes five landscape character areas, each responding to specific landscape, topographical and boundary considerations and mixing housing typologies within each of the character areas.

Those areas can be developed to create village clusters with a clear identity and sense of place.

These character areas are:

1. Cooley View:

This character area forms the main 'Gateway' to the site. The vehicular access road will offer excellent views in a north easterly direction of Dundalk Bay & the Cooley Mountains beyond. A forecourt open space provides a sense of place and an entrance to the new community, framed by 2 to 2.5 storey detached family homes. The siting of dwellings along the southern edge sets up a back-to-back condition with any future residential development. Landscape is envisaged as having a wetland character.

2. Meadow & Field:

The most extensive character area within the development, occupying the core central space from which the other character areas integrate. It is formed by the zoned open space compartmentalised by the pedestrian and cycle movement network and by hedges, trees and fences into a series of smaller enclosures, with amenity/play interventions throughout the space. The edges of this character area are defined by apartment buildings, offering supervision of the open space through higher densities, open up views to the estuary to the east from higher levels, and framing the public realm when viewed from the east. This character area would maintain a structured yet natural feel - taking reference from agricultural landscape such as hedges, Louth bank walls, swales & ditches. SUDs will also play an important role in this area, directing surface water through swales and landform to the north-east and creating valuable habitat.

3. The Birches & Pine:

As the land rises subtly in the direction of the Golf Course, the site character will also change. This area will respond to the existing conifer planting associated with the Golf Course and slightly higher and drier land. The golf course edge is occupied by detached dwellings taking advantage of excellent views, vistas to the west. A triangular shaped public open space is located at the heart of the south portion of this character area. This pocket park is defined by the building form of mixed house typologies to provide more local and intimate space which aid placemaking in this character area.

A simple symetrical avenue connects in views and pathways ' The Birches & Pine' into the adjacent large central parkland of ' Meadow & Field'.

4. Bothar Maol:

This character area responds & respects the existing feel along Bothar Maol which is a well established low density suburban residential area.

Acting as a landscape extension to Bothar Maol, the built form provides a series of gabled relationships to existing dwellings to the north. Small streets, homezones, each street is different in size and shape, which will add to its' individuality and sense of place. This is a reasonably sheltered part of the site and will therefore accommodate a wider variety of species including flowering trees and hedges. Strong landscape buffer between the existing properties along Bothar Maol garden boundaries would be a mixture of hedging solutions.

5. Mill End:

As the 'Cooley View', this character area will also form a 'Gateway' to the development, but of a pedestrian nature. There is valuable maturity in this area formed by mature trees and vernacular buildings on adjacent lands to the east. The built form will be an intimately scaled enclave in the form of a courtyard area responding to existing mature landscape and character of the area.

The material treatment in each character area serve to reinforce their unique sense of identity within the site. Please refer to pages 21,22 for Elevation Treatment description.

The proposed residential avenues and homezones are further arranged to capture views and prospects of the amenity areas and urban landscaping, giving a unique identity to the development. The route ways allow for a permeability through the site and integration of the character areas into the overall masterplan.



7. Layout: How does the proposal create people-friendly streets and spaces?

The proposal has been developed using best practice urban design principles including permeability, legibility and connectivity.

The proposal consists of a clear and legible hierarchy of streets and spaces, accessible by all. Valuable green routes are provided for cycle and pedestrian movements from north to south and east to west connecting zoned open space parkland and various open spaces within the development and to the existing sourrounding context.

The proposal provides for a broad range of accommodation within a parkland setting. The avenues and homezones deliver a discrete and sensitive parking provision with links and visual connections to the amenity spaces.

On arrival the public is presented with one main amenity space which act as a gateway into the development - the village green. The pedestrian links and cycle ways assist in the ease of movement through the development and add a sense of permeability to the scheme.

The main distributor road looping around the zoned open space it is a major feature both in how the landscape is arranged and also how the built form and streetscape is defined.

The pedestrian and cycle routes are designed so as to enhance the feeling of family oriented residential zones and a child friendly environment. Parking spaces are grouped in discrete zones, delineated by surface treatments and subtle landscaping which included speed reducing measures, to provide a family safe environment.

8. Public realm: How safe, secure and enjoyable are the public areas?

The Masterplan layout has been designed to ensure all public streets and spaces are overlooked by surrounding built form to provide active frontages and passive surveillance.

Key Public Realm spaces include:

- Roads and entrances
- Large landscape spaces zoned open space area
- Pocket open spaces
- Street frontages & homezones areas
- pedestrian and cycle routes

These spaces combine to create an integrated network of routes, views, vistas and connections both from the proposed development to the surrounding context and internally between the various character areas.

The landscape treatments are further enhanced by the landscape lighting plan which will add security and usability to the amenity zones while not impacting on the residential units.

In addition the proposal also contains a playground and a childcare facility which addresses the need for family orientated amenities.

All open spaces have been designed to be accessible. Careful consideration of the levels has been given to the overall layout and landscape design with the objective to provide universal access wherever possible.

9. Adaptability: How will the buildings cope with change?

All of the proposed apartment and housing typologies meets or exceed the minimum standards for residential unit size. The development provides a mix of 1, 2, 3, 4 and 5 bedroom units that can be easily adapted to the changing life cycles and personal needs of the owner.

Housing typologies are 3, 4 & 5 bed houses with rear garden and mostly on curtilage parking. the residential units have adequate garden provisions and have the ability to be extended in the future if required. In addition a number of the 3 & 4 be units are capable of having their attics converted.

The nature of the residential mix allows for movement between residential types as they become available; with possibility in the future of down-sizing from a house to a apartment while keeping within the residential community.

10. Privacy/amenity: How does the scheme provide a decent standard of amenity?

Each dwelling avails of usable private open space which meets or exceeds the Development Plan standards. All of the dwellings meet or exceed unit size requirements, with apartments layout maximizing the number of dual aspect units.

The orientation and layout of the masterplan has been designed to maximize the levels of solar gain and natural light available to each dwelling. The development provides for adequate separate distances between houses and apartments. This maintains a high level of privacy and amenity obtained by residents, and reduced level of overlooking and overshadowing.

11. Parking: How will the parking be secure and attractive?

A total of 824 no. car parking spaces are proposed, including 518 no. spaces for the houses, 225 no. spaces for the apartment blocks and duplexes, 57 no. visitor's spaces and 24 no. for the childcare facility.

The majority of residential parking is accommodated on curtilage and integrated into the shared surface homezone or off street avenue parking, the residential zones are landscaped and offer an attractive and informal street scape.

The apartment car parking is accommodated partially undercroft and partially surface grouped clusters in purposely landscaped areas. Undercroft car parking is incorporated at Blocks A,B & F, taking advantage of the natural slope of the site. These undercroft areas are accessed from lower points off the main access routes in order to minimise environmental impact and to "anchor" those buildings into the slope. The combined parking solution adequately breaks down the visual impact of the car parking on the surface and enhances the quality of the Zoned Open Space around the periphery of the apartment buildings.

512 no. cycle parking spaces are provided for. The associated site and infrastructural works include foul and surface water drainage - SUDS measures, bio-retention areas, wetlands, green roofs and permeable paving - parkland open space and pocket open spaces including playgrounds and exercise units, landscaping, boundary treatment (wall, fences), internal roads, cyclepaths and footpaths.

12. Detail Design: How well thought through is the building and landscape design?

The proposed masterplan layout has been subject to a number of pre-application meetings between the design team and Local Planning Authority. A pre-application consultation with An Bord Pleanala took place on the 31st of January 2019 (ABP-303256-18) and the Bord's opinion has been incorporated into the Masterplan.

The scheme has been developed holistically, integrating disciplines of architecture, urban design and landscape architecture. Further information on the design rationale is available in the Design Statement by OMP. The landscape design rationale is set out in the Landscape Strategy / Design code prepared by Mullin Design Associates.





1 Bed Apartments

2 Bed Apartments

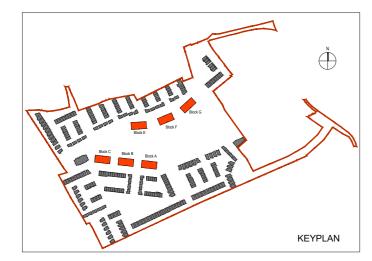
8 PER CORE TYPOLOGY / 4 STOREY

BREAKDOWN:

GIA	2,843 m2
NIA	2,391 m2
NET:GROSS	84%
No. of CORES	1 no.
DUAL ASPECT	16 units - 50 %

UNITS

1 BED	9 no. 28.2% - 56 m2
2 BED	7 no. 21.8% - 78.4 m2
2 BED	8 no. 25% - 83.3 m2
2 BED	8 no. 25% - 84 m2
TOTAL	32 no. 100%







APARTMENT TYPOLOGIES

TYPICAL BLOCK - (8 units per core) - Block A,B,C,E,F,G 1 : 200 @ A3



38

o^{mahony} pike

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH



Section A-A (Block A & Block B)

APARTMENT TYPOLOGIES

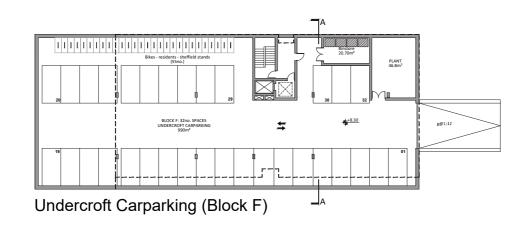
HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH

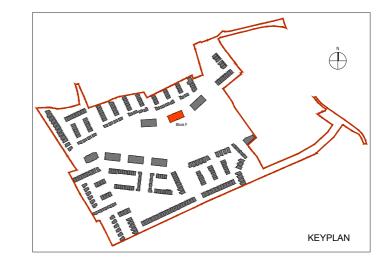




Section A-A (Block F)







APARTMENT TYPOLOGIES

BLOCK F - Undercroft Carparking



Blackrock, Co. Louth | Design Statement Document 40

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HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH

APARTMENT TYPOLOGIES Block F Undercroft carparking

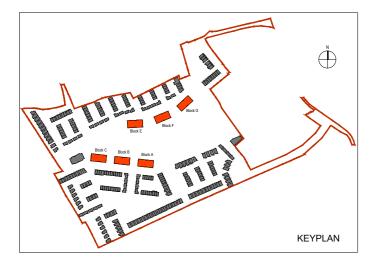
8 PER CORE TYPOLOGY / 4 STOREY

BREAKDOWN:

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UNITS

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2 BED	8 no. 25% - 84 m2
TOTAL	32 no. 100%

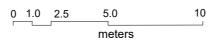






APARTMENT TYPOLOGIES - ELEVATIONS

TYPICAL BLOCK - (8 units per core) - Block A,B,C,E,F,G 1 : 200 @ A3



APARTMENT TYPOLOGIES Elevations - Block A/B/C/E/F/G

Typical Parkland Elevation

Typical Street Elevation

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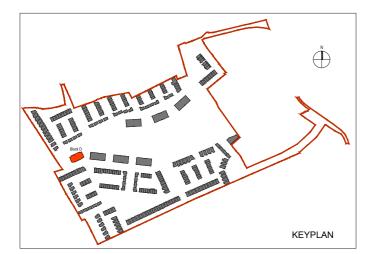
1 Bed Apartments

2 Bed Apartments

7 PER CORE TYPOLOGY / 3 STOREY

BREAKDOWN:

GIA	1,740 m2
NIA	1,433.6 m2
NET:GROSS	82.4%
No. of CORES	1 no.
DUAL ASPECT	6 units - 28.6 %
UNITS	
1 BED	10 no. 47.6% - 52 m2
2 BED	5 no. 23.8% - 80 m2
2 BED	6 no. 28.6% - 85.6 m2
TOTAL	21 no. 100%





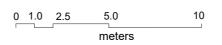
Ground Floor Plan



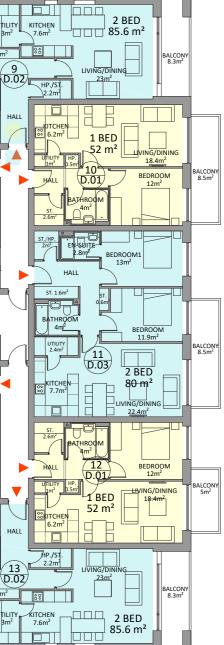
APARTMENT TYPOLOGIES

BLOCK D - (7 units per core)

1 : 200 @ A3



APARTMENT TYPOLOGIES Floor Plans - Block D

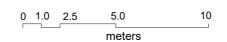


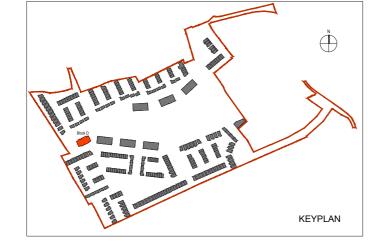
HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH

BLOCK D - (7 units per core)

APARTMENT TYPOLOGIES - ELEVATIONS

1 : 200 @ A3





DUAL ASPECT	6 units - 28.6 %
UNITS	
1 BED	10 no. 47.6% - 52 m2
2 BED	5 no. 23.8% - 80 m2
2 BED	6 no. 28.6% - 85.6 m2
TOTAL	21 no. 100%

GIA	1,740 m2
NIA	1,433.6 m2
NET:GROSS	82.4%
No. of CORES	1 no.
DUAL ASPECT	6 units - 28.6 %

7 PER CORE TYPOLOGY / 3 STOREY

BREAKDOWN:





APARTMENT TYPOLOGIES Elevations - Block D



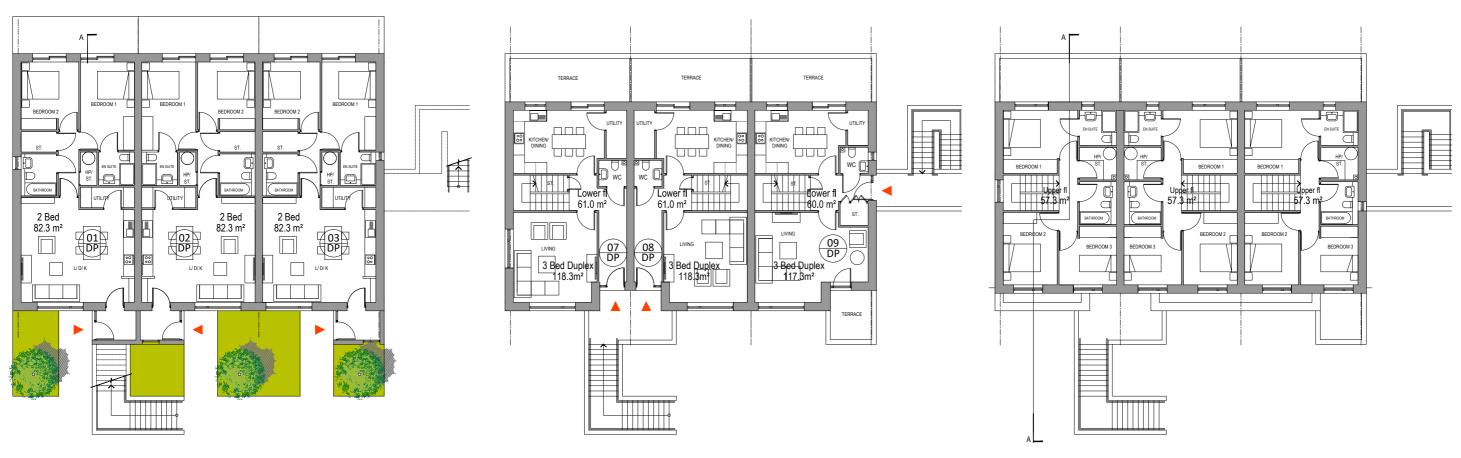
Parkland Elevation

- CLADDING PANEL TO MATCH WINDOWS

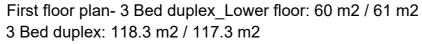


Street Elevation

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH



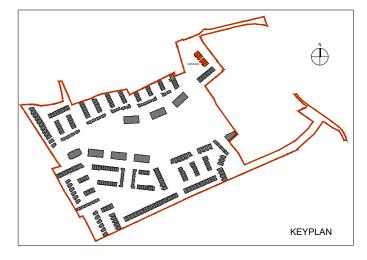
Ground floor plan - 2 Bed apartment: 82.3 m2



Second floor plan - 3 Bed duplex Upper floor: 57.3 m2



APARTMENT + DUPLEX TYPOLOGIES Floor Plans



HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH



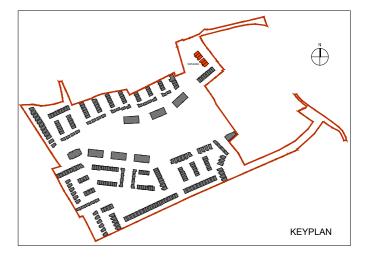
APARTMENT TYPOLOGIES

G.F. APARTMENT + DUPLEXES ABOVE

1 : 200 @ A3

10 0 1.0 2.5 5.0 meters

APARTMENT + DUPLEX TYPOLOGIES Front Elevation



HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH



HOUSE TYPE A - Detached - 22 no.5 bed units - 196.5 m2

2.5 meters 5.0

0 0.5 1.0

o^{mahony} pike

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH

HOUSE TYPOLOGIES HOUSE TYPE A



HOUSE TYPOLOGIES

HOUSE TYPE B - Detached - 19 no.5 bed units - 176.5 m2

2.5 meters 5.0

HOUSE TYPOLOGIES HOUSE TYPE B

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH



0 0.5 1.0

HOUSE TYPOLOGIES

HOUSE TYPE C - Detached - 10 no. 4 bed units - 151.8 m2 HOUSE TYPE C1 - Detached - 7 no. 4 bed units - 153.4 m2

1 : 100 @ A3

5.0

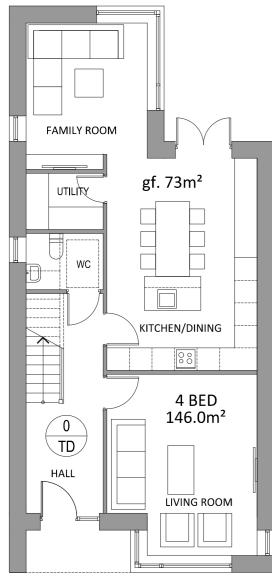
2.5

meters

o'mahony pike

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH

HOUSE TYPOLOGIES HOUSE TYPE C/C1 -WIDE FRONTAGE

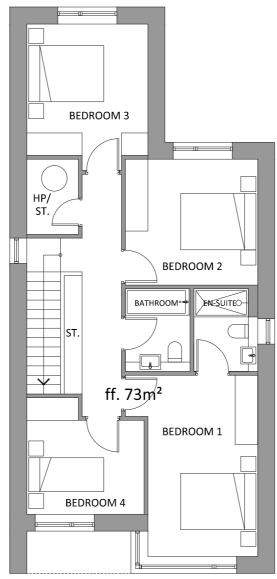


Ground Floor Plan - 73 m2

public footpath

·····*

4 BED 146m²



First Floor Plan - 73 m2

16000

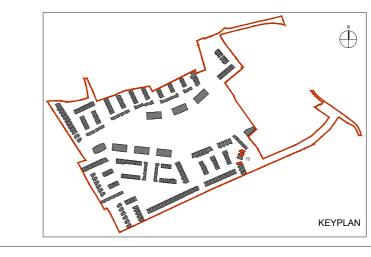
REAR GARDEN

150m²

0 0.5 1.0



Front Elevation



HOUSE TYPOLOGIES HOUSE TYPE D - Detached - 3 no. 4 bed units - 146 m2

6500

1 : 100 @ A3

9550

meters

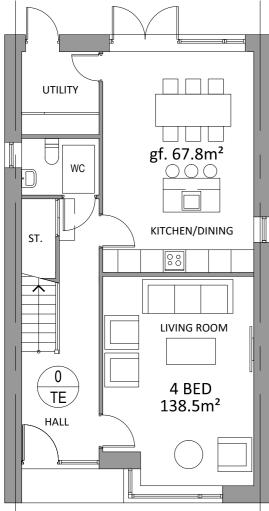
2.5

Typical Plot scale:200

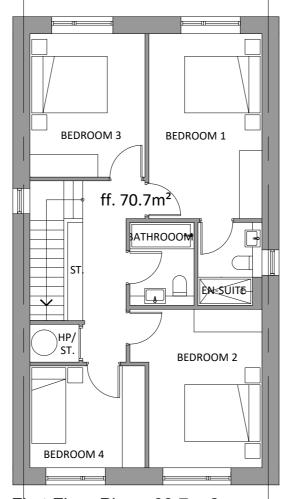
5.0

HOUSE TYPOLOGIES HOUSE TYPE D

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH



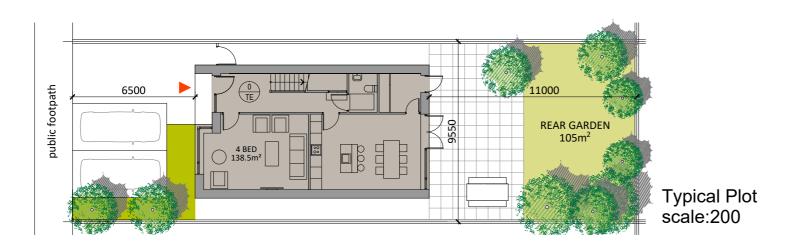
Ground Floor Plan - 69.8 m2



First Floor Plan - 68.7 m2



Front Elevation



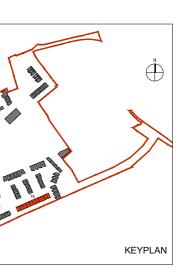
HOUSE TYPOLOGIES HOUSE TYPE E - Detached/Semi-D 23 no. 4 bed units - 138.5 m2 1 : 100 @ A3

meters

5.0

o^{mahony} pike

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH



GROUND FLOOR +0.000

FIRST FLOOR +3.000

EAVE LEVEL <u>+</u>5.500

RIDGE +9.842

HOUSE TYPOLOGIES HOUSE TYPE E



HOUSE TYPE F - Detached - 7 no. 4 bed units - 137.4 m2

1 : 100 @ A3

2.5

0 0.5 1.0

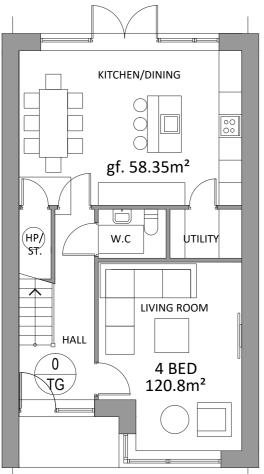
5.0

meters

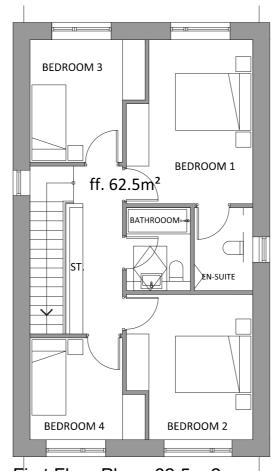
HOUSE TYPOLOGIES HOUSE TYPE F

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH

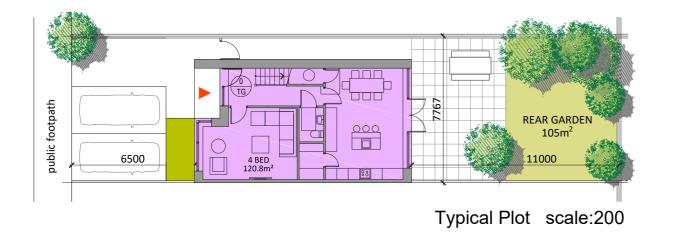
o mahony pike



Ground Floor Plan - 58.3 m2

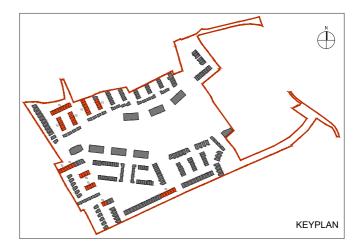


First Floor Plan - 62.5 m2

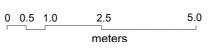




Front Elevation



HOUSE TYPE G - Semi-Detached/Detached 50 no. 4 bed units - 120.8 m2 1 : 100 @ A3



HOUSE TYPOLOGIES HOUSE TYPE G

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH



HOUSE TYPE H - Detached 9 no. 3 bed units - 117.3 m2 HOUSE TYPE H1 - Detached 9 no. 3 bed units - 110 m2

1 : 100 @ A3

0 0.5 1.0 2.5 meters 5.0

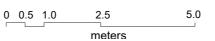
HOUSE TYPE H + H1- WIDE FRONTAGE

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH



HOUSE TYPE I - Semi-D/Terraced 37 no. 3 bed units - 102 m2

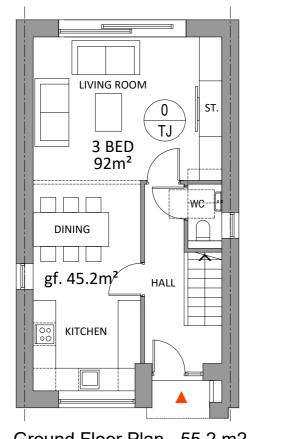




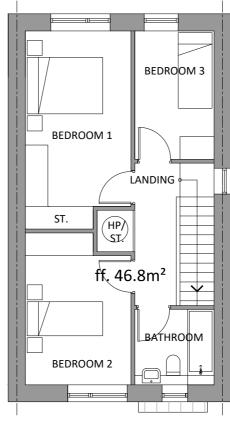
o mahony pike

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH

HOUSE TYPOLOGIES HOUSE TYPE I



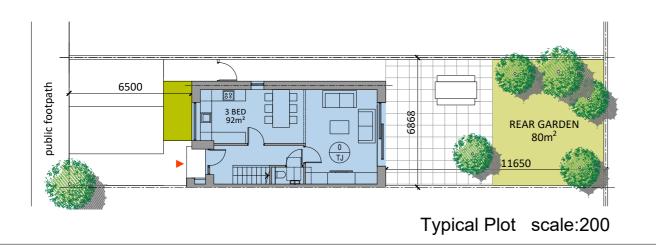
Ground Floor Plan - 55.2 m2

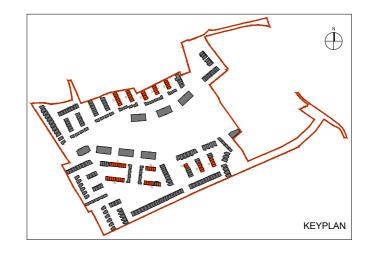


First Floor Plan - 46.8 m2



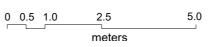
Front Elevation





HOUSE TYPE J - Semi-D/Terraced/Detached 61 no. 3 bed units - 92 m2

1 : 100 @ A3



HOUSE TYPOLOGIES HOUSE TYPE J

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH

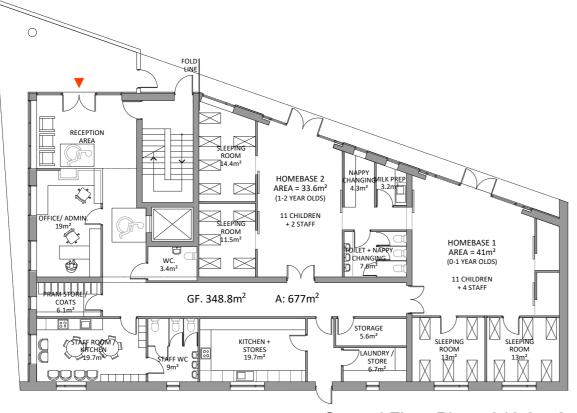
o mahony pike



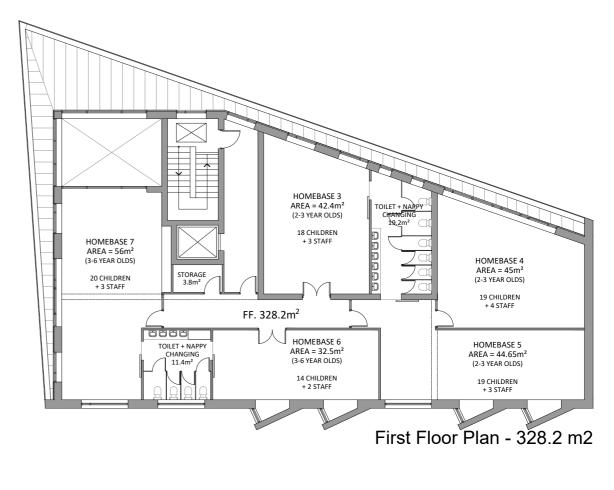
HOUSE TYPOLOGIES DISABILITY BUNGALOW (Part V) - Detached 01no. 4 bed unit - 158.5 m2 1 : 100 @ A3

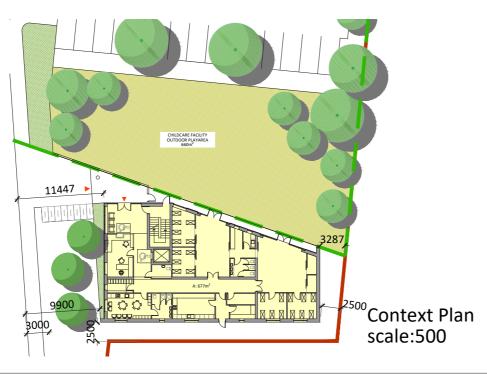
HOUSE TYPOLOGIES PART V - DISABILITY BUNGALOW

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH

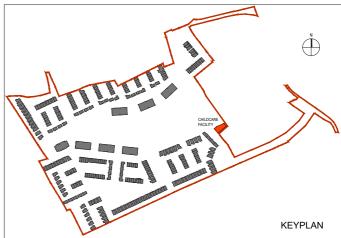


Ground Floor Plan - 348.8 m2





GFA: 677m²



CHILDCARE FACILITY - FLOOR PLANS CAPACITY: 112 children - GFA: 677 m2

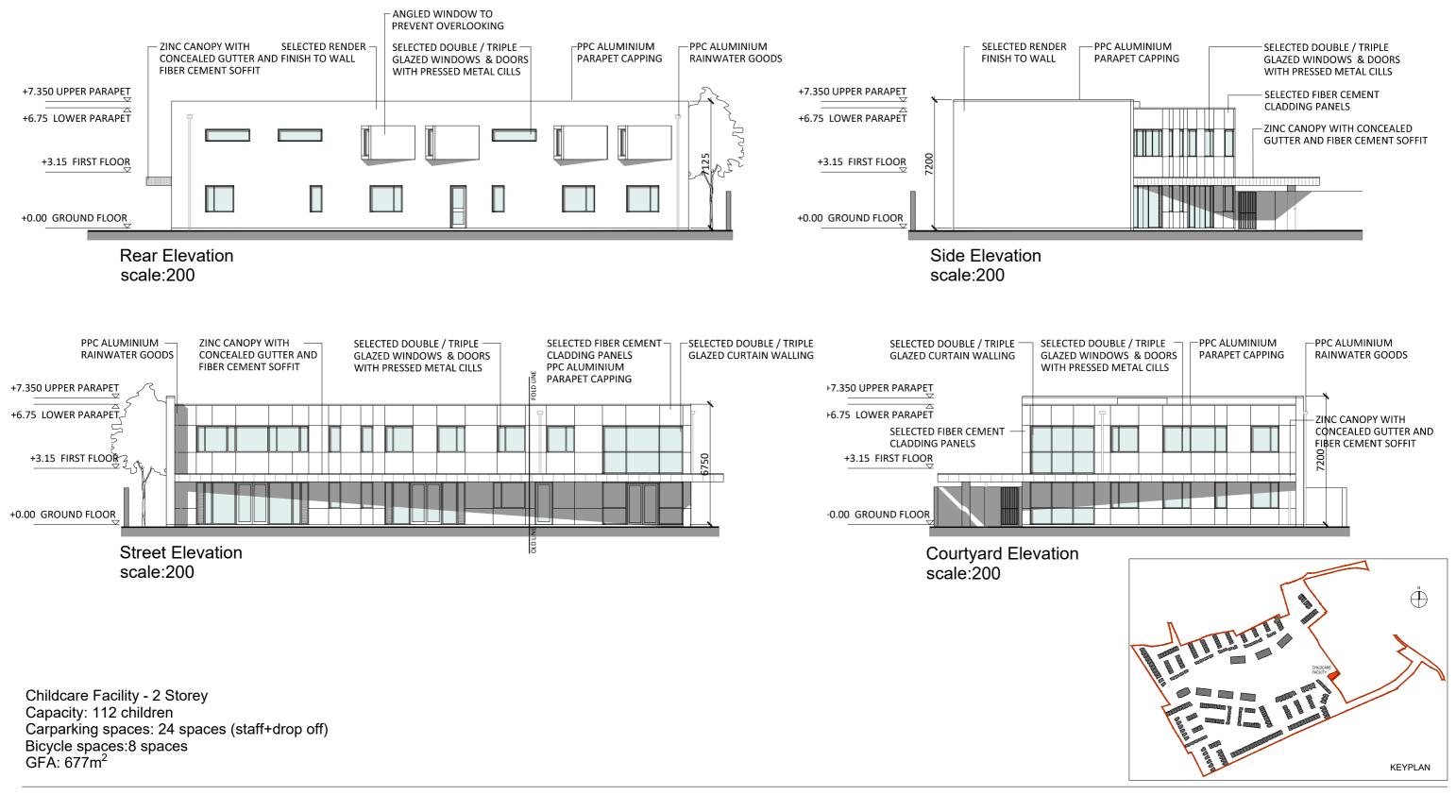
1 : 200 @ A3



CHILDCARE FACILITY FLOOR PLANS

Childcare Facility - 2 Storey Capacity: 112 children Carparking spaces: 24 spaces (staff+drop off) Bicycle spaces:8 spaces

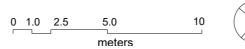
> HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH



CHILDCARE FACILITY - ELEVATIONS

CAPACITY: 112 children - GFA: 677 m2

1 : 200 @ A3



o^{mahony} pike

HOUSING DEVELOPMENT BLACKROCK-DUNDALK, CO. LOUTH

CHILDCARE FACILITY ELEVATIONS



Medium Density Low Rise Housing





WATERFAL (OMP)

This is envisaged as a low density, landscape-based and energy-conscious scheme which fully integrates with its rural village context, whilst fulfilling a demand for larger detached houses in close proximity to the city. The agricultural characteristics of the site, with its hedgerows, drainage channels and adjacent farmyard, suggested the use of traditional Irish field patterns as a model for subdivision of the lands. This resulted in an organic arrangement of housing clusters, generally comprising three to six dwellings, which are intended to create identifiable community groups. The layout is a modern response to the historical Cloghan settlement patterns of the past designed to respond to the unsustainable development of 1 off houses in the countryside. Clustering of volumes, which is a significant feature of settlement in the rural landscape, is also used to define space in the individual house plots, thus fragmenting the size of the large dwellings. The design of the buildings draws on the scale, form, language and materials of vernacular rural architecture. The pitched-roof forms and occasional barrel-vaulted roof are familiar in the Cork landscape. Walls are of painted render and roofs are of natural slate and metal (zinc). Dry stone walling and planted earthen bank boundaries complete the limited palette of materials and complement the existing hedgerows, which have been retained and used to define housing areas and public open space in the scheme.

Site Description: The site comprises three fields which were in agricultural use, with a gently sloping topography and triangular geometry, and field boundaries defined by hedgerows, trees and a stream. The site is located in the village of Waterfall, about 1km from Cork City boundary and within the Metropolitan Greenbelt. It is bounded by a public house and farmyard to the southwest, a recent suburban style development to the northwest, the village to the west and agricultural land to the south and east.









PELLETSTOWN (OMP)



GRIFFEEN (OMP)



KNOCKRABO (OMP)

Apartments



Mount Saint Anne's, Milltown (OMP)



Marianella, Rathgar (OMP)



Streetscape in Notre Dame, Dundrum (OMP)



Streetscape in Santa Sabina, Sutton (OMP)



Adamstown SDZ, Dublin