Phases 4&5B, Heyford Park, Upper Heyford, Bicester

> Statement of Compliance to support an application for Reserved Matters

HEYFORD PARK, BICESTER PHASES 4&5B Statement of Compliance

produced by

Focus On Design The Old Brewery, Lodway, Pill, Bristol, BS20 0DH

On behalf of Dorchester Living

Project Number	0521-PH4-PH5B	
Revisions		
Document Status	Issue 1	
Date	06-08-2015	
Author	JG	
Checked by	ОС	

Contents	1 Intr	oduction	03
	1.1	Purpose of Document	
	1.2	Site Location	
	1.3	Purpose of the Design Codes	
	1.4	Use and Amount of Development	
	Stre	eet, Movement & Network Codes	07
	2.1	Street Codes	
	2.2	Pedestrian & Cycle Movement	
	2.3	Parking Strategies	
	2.4	Bus Routes & Refuse Collection	
	2		
	. Ne	w Built Environment Codes	19
	3.1	General Urban Design Principles	
	3.2	Character Areas	
	3.3	Building Types	
	1		
	Puk	olic Realm Codes	42
	4.1	Landscape Strategy & Placemaking	
	4.2	Play Areas	
	4.3	Boundary Treatments & Street Furniture	
-	<b>5</b>		
	Sus	tainable Design & Infrastructure	46
	5.1	Drainage Infrastructure	
	5.2	Building Construction	

## Introduction

### 1.1 Purpose of Document

1.1.1 This Statement of Compliance is submitted on behalf of Dorchester Living in support of an application for the approval of Reserved Matters following Outline Planning Approval (Ref 10/01642/OUT) for the following proposal:

"Outline - Proposed new settlement of 1075 dwellings including the retention and change of use of 267 existing military dwellings to residential use Class C3 and the change of use of other specified buildings, together with associated works and facilities, including employment uses, a school, playing fields and other physical and social infrastructure."

The Outline Permission defined the development form and principle of development, set out as a series of parameter plans. These were then used as the basis of the subsequently approved Heyford Park Design Code V5.2 (Ref Pegasus B.0286\_21).

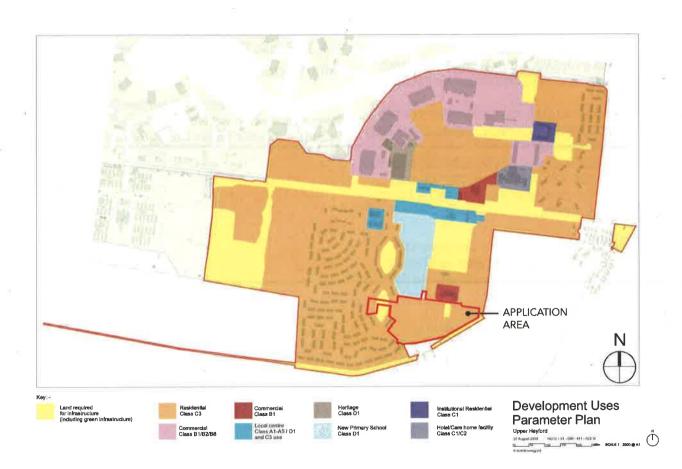
This document sets out to demonstrate compliancy with the performance criteria for each development area as set out in this Design Code for the development parcel identified within Section 1.2.

### 1.2 Site Location

- 1.2.1 The site is located at Heyford Park, Camp Road, Upper Heyford, Bicester, Oxfordshire, OX25 5HD.
- 1.2.2 This Statement of Compliance is for the development area identified in the plan below.

The development area identified includes the following two character areas as defined in the Design Code:

- CA6 Rural Edge
- CA8 Core Housing East



OPA - Parameter Plan - Development Uses

## 1.3 Purpose of the Design Codes

### 1.3.1 The purpose of the Code is defined in Para 1.26 - 1.29 of the Design Code, as follows:

"1.26 The objective of producing Design Codes is not to add another layer of complexity to the planning process, but to provide a clear framework for development that is supported by all parties. This is particularly important on a strategic development site such as this which may be developed by several developers / house builders over the life of the scheme.

The Design Codes are proposed in order to:

- ESTABLISH A LONG TERM VISION FOR THE SITE AND DESIGN LED FRAMEWORK FOR THE SITE
- BUILD UPON THE WORK ESTABLISHED BY THE OUTLINE PLANNING APPLICATION AND THE DESIGN AND ACCESS STATEMENT FOR THE AREA
- ENSURE OVERALL COORDINATION AND CONSISTENCY BETWEEN DEVELOPMENT SITES
- PROVIDE A LEVEL OF CERTAINTY TO THE LANDOWNER, COUNCIL, DEVELOPER AND THE COMMUNITY
- PROVIDE A CLEAR GUIDE FOR DEVELOPERS WORKING ON INDIVIDUAL PLOTS AND SETS THE CONTEXT FOR MORE DETAILED DESIGN WORK.

1.28 The code establishes clear performance criteria for each development area, setting out the level of prescription alongside desired and mandatory requirements.

1.29 There may be circumstances where a designer working up proposals in accordance with the Code feels that a design proposal could better contribute to the quality and identity of the development by localised deviation from the Code. In these circumstances, a rationale for the approach being proposed is recommended in conjunction with early discussions with CDC."

## 1.4 Use and Amount of Development

### 1.4.1 Residential

The Planning Application provides 86 no dwellings.

The planning application complies with the density guidance set out in the Design Code. Refer to Section 3.1.5 Building Density & Heights.

There will be a range of sizes and tenures across the site. The planning application includes detached, semi-detached and terraced forms and include open market and affordable properties.

### 1.4.2 Affordable Housing

Affordable housing will be provided in a series of clusters and will include rented and affordable (rented and intermediate) properties.

## 1.4.3 Public Open Space & Green Infrastructure

The planning application will contain 0.314ha of open space which will include one LAP. Refer to Section 4.0 Public Realm Codes for further details.

# Street, Movement & Network Codes

### 2.1 Street Codes

### 2.1.1 Hierarchy of Streets and Spaces

The Planning Application includes Secondary Streets - Bus Routes (ST1), Tertiary Streets (ST3), Shared Surface / Community Streets (ST4) and Lanes and Drives (ST5).

- ✓ The design of the streets provides continuity across the character areas Refer to Street Hierarchy Table.
- ✓ The movement network has been designed to be pedestrian and cyclist friendly.





Design Code - Indicative Street Hierarchy Plan





Street Hierarchy

### 2.1.2 Infrastructure

Refer to Street Hierarchy Table.

### 2.1.3 Secondary Streets ST2

✓ Secondary Streets provide the key bus route to the south of Camp Road. Refer to Street Hierarchy Table.

### 2.1.4 Tertiary Streets ST3

✓ Tertiary Streets will provide the main access into development parcels from Primary and Secondary Streets. They will be formal in design. Refer to Street Hierarchy Table.

### 2.1.5 Shared Surface (ST4) / Lanes (ST5)

- ✓ Shared Surface / Community Streets will be more informal and provide access to smaller groups of dwellings. Their design has been informed by Manual for Streets. Refer to Street Hierarchy Table.
- Lanes / Drives will be more informal and provide access to smaller groups of dwellings. Their design will be informed by Manual for Streets. Refer to Street Hierarchy Table.

## 2.1.6 Traffic Calming Beyond Primary Street ST.1

✓ Secondary and Tertiary Streets will be designed to discourage higher traffic speeds. This will be done through horizontal deflection / raised block paved tables at junctions / having an informal alignment.

### 2.1.7 LAPs & Street Integration

- ✓ The LAP will be located where traffic movement is at relatively low levels and the design speed is below 30mph. Refer also to Section 4 -Public Realm Codes.
- ✓ Shared surface streets have been designed to encourage community use and will offer opportunities for casual play space over and above dedicated facilities.

### 2.1.8 Adoption Arrangements

✓ All streets will be built to adoptable standards, subject to condition surveys of existing streets (para 3.25).

	SECONDARY STREET ST2	COMPLIANCY
DESIGN SPEED	20 mph	<b>✓</b>
FOOTWAY	1.8m both sides	✓
CYCLEWAY	On Road	
VERGE	Staggered	✓
BUS ACCESS	Yes	✓
MAX PROPERTIES	Up to 300	<b>√</b>
CARRIAGEWAY WIDTH	6.1 m	✓ Generally minimum 6.1m
ACCESS TO PROPERTIES	100% direct access	<b>✓</b>
CARRIAGEWAY SURFACING	Asphalt (HRA) with block paved junctions	✓
VERGE SURFACING	Grass	✓ Grass & planting
FOOTWAY SURFACING	As carriageway	✓
KERBING	PCC Half Batter Kerb 125mm upstand	✓
A	Horizontal deflection (left or right build out)	✓ Refer to Dwg 0521-PH4-PH5B-104
TRAFFIC CALMING B OPTIONS C D	Horizontal deflection (central pinch point) Raised table (gentle approach ramp)	✓ ✓ ✓
SWEPT PATHS	Buses, refuse vehicle and Emergency Service Vehicles	✓ Larger service vehicles
ON STREET PARKING	On street parking bays 2.5 by 6m	✓ Refer to Dwg 0521-PH4-PH5B-104
FORWARD VISIBILITY	33m	✓
JUNCTION SIGHTLINES	2.4 x 33m	✓
JUNCTION SPACING	Site Specific	✓
JUNCTION RADII	6m	✓ Increased to suit service vehicle
STREET LIGHTING (to be agreed at detailed stage with OCC)	Column mounted	✓ To be determined
STATUTORY SERVICES	In footway	<b>✓</b>
ÖRAINAGE.	Gully or permeable paving	✓
LANDSCAPE/TREE PLANTING	Regular tree planting on alternating sides of road.	✓ Refer to landscape design

Design Code - Street Hierarchy Table - Secondary Street ST2

<b>以来的"我儿子"</b>	TERTIARY STREET ST3	COMPLIANCY
DESIGN SPEED	20 mph	✓
FOOTWAY	1.8m both sides	✓
CYCLEWAY	On Road	✓
VERGE	None	✓
BUS ACCESS	No	✓
MAX PROPERTIES	Up to 50	✓
CARRIAGEWAY WIDTH	5.5 – 6.5 m	✓ Generally minimum 5.5m
ACCESS TO PROPERTIES	100% direct access	✓
CARRIAGEWAY SURFACING	Asphalt (HRA) with block paved junctions	✓
VERGE SURFACING	Grass	✓ Grass & planting
FOOTWAY SURFACING	As carriageway	✓
KERBING	PCC Half Batter Kerb 125mm upstand	✓
A	Horizontal deflection (left or right build out) calming at 100–150m	✓ Refer to Dwg 0521-PH4-PH5B-104
TRAFFIC CALMING OPTIONS C	Horizontal deflection (central pinch point) Raised table (gentle approach ramp) Informal alignment (calming	✓ ✓ ✓ ✓ ✓ *
	method D)	<b>✓</b>
SWEPT PATHS	Refuse vehicle and Emergency Service Vehicles	✓ Larger service vehicles
ON STREET PARKING	On street parking bays 2.5 by 6m	✓ Refer to Dwg 0521-PH4-PH5B-104
FORWARD VISIBILITY	10m	✓
JUNCTION SIGHTLINES	2.4 x 25m	✓
JUNCTION SPACING	Site Specific	<b>✓</b>
JUNCTION RADII	4m	✓ Increased to suit service vehicle
STREET LIGHTING (to be agreed at detailed stage with OCC)	Column mounted	✓ To be determined
STATUTORY SERVICES	In footway	✓
DRAINAGE	Gully or permeable paving	<b>✓</b>
LANDSCAPE/TREE PLANTING	Regular tree planting on alternating sides of road.	✓ Refer to landscape design

Design Code - Street Hierarchy Table - Tertiary Street ST3

	SHARED SURFACE ST4
DESIGN SPEED	10 mph
FOOTWAY	Shared surface
CYCLEWAY	Shared surface
VERGE	None
BUS ACCESS	No
MAX PROPERTIES	Up to 25
CARRIAGEWAY WIDTH	4.5 – 5.0 m (6m opposite parking/garaging)
ACCESS TO PROPERTIES	100% direct access
CARRIAGEWAY SURFACING	Block paving
VERGE SURFACING	Shrub Planted
FOOTWAY SURFACING	
KERBING	Flush kerb and/or PCC Bull Nosed Kerb 25mm upstand where drainage required
A	Server and The
TRAFFIC CALMING B	
C	× 1
D	
SWEPT PATHS	Refuse vehicle and Emergency Service Vehicles
ON STREET PARKING	On street informal bays 2.5 by 6m
FORWARD VISIBILITY	10m
JUNCTION SIGHTLINES	2.4 x 25m
JUNCTION SPACING	Site Specific
JUNCTION RADII	4m
	Column mounted
STATUTORY SERVICES	In carriageway (see note below)
DRAINAGE	Gully or permeable paving
LANDSCAPE/TREE PLANTING	Intermittent tree planting.

Design Code - Street Hierarchy Table - Shared Surface ST5

	COMPLIANCY
<b>✓</b>	
\[   \lambda   \]   \[   \lambda   \]	
<b>✓</b>	
<b>✓</b>	
<b>✓</b>	
✓	
✓	
✓	
✓	Block Paving & HRA
<b>√</b>	
n/a	
√.	
n/a	
n/a	
n/a	н —
n/a	
II/a	
<b>√</b>	Larger service vehicle
✓	Yes 2.5m x 6m
✓	-
✓ ✓	
✓	
Χ	Increased to suit larger service vehicles
<b>✓</b>	To be determined
✓ ✓	
✓	
✓	Refer to landscape design

		LANES ST5
DESIGN SPEED		10 mph
FOOTWAY		Shared surface
CYCLEWAY	-10	Shared surface
VERGE		None
BUS ACCESS		No
MAX PROPERTIES		Up to 25
CARRIAGEWAY WIDTH		3.5 – 6.0 m
ACCESS TO PROPERTI	ES	100% direct access
CARRIAGEWAY SURFACING	Ţ	Asphalt (HRA)/Block Paving
VERGE SURFACING		Shrub Planted
FOOTWAY SURFACING		
KERBING		PCC Bull Nosed Kerb 25mm upstand
	Α	en Silvery, was 6 priores. Joseph quicken, mil'es h.S.
TRAFFIC CALMING	В	10.15 1 1911
OPTIONS	С	
	D	To your think The
SWEPT PATHS		Refuse vehicle and Emergency Service Vehicles
ON STREET PARKING		Visitor parking bays
FORWARD VISIBILITY		10m
JUNCTION SIGHTLINES	S	2.4 x 25m
JUNCTION SPACING		Driveway Crossovers
JUNCTION RADII		4m
STREET LIGHTING Ito be agreed at detailed stage with OCC)		Column mounted
STATUTORY SERVICES		In carriageway(see note below)
DRAINAGE		Gully or permeable paving / Over edge
LANDSCAPE/TREE PLANTING		Intermittent tree planting.

Design Code - Street Hierarchy Table - Lanes ST5

er 24	COMPLIANCY
✓	
✓	
$\checkmark$	
✓	
✓ ✓	
$\checkmark$	
✓	
✓	Block Paving & HRA
<b>√</b>	
n/a	
<b>~</b>	<i>5</i> 6
n/a	
n/a	
n/a	
n/a	
<b>~</b>	Larger service vehicle
<b>√</b>	
✓	
<b>√</b>	
✓	
X	Increased to suit larger service vehicles
✓	To be determined
<b>✓</b>	F
<b>✓</b>	
- ✓	Refer to landscape design

## 2.2 Pedestrian & Cycle Movement

### 2.2.1 Routes and Linkages

- ✓ All routes will be direct, barrier free routes.
- ✓ All routes will be attractive, well lit and safe.
- All routes will be designed to be used by everyone.
- ✓ All routes will be overlooked by properties with good levels of natural surveillance.

PEDESTRIAN ROUTES



Design Code - Routes & Linkages Plan

### 2.3 Parking Strategies

### 2.3.1 Parking Strategy

✓ Overall, parking will be provided on plot and / or adjacent to properties.

Parking will be provided as a mix of on street parallel parking, on plot / on street perpendicular parking and on plot as a mix of attached / integral garage, hard standing and detached garage.

### 2.3.2 Parking and Garages

Para 3.39 of the Design Code states: "CDC are yet to adopt the Oxfordshire County Council parking standards, and the unique constraints of the site require a site specific variation (as noted at item 2.6 of the parking standards). However it should be noted that garages of 3x6m internal dimension will be required if garages are to count towards parking standards."

Following the completion of the Design Code, Oxfordshire County Council published its latest Parking Guidance (ref Parking Standards for New Residential Development v1 2011). The planning application therefore follows this more current guidance.

Visitor parking will be provided on street in the form of parallel parking spaces in line with Oxfordshire County Council Parking Guidance.

Refer to the "Parking Matrix" submitted as part of the Reserved Matters Application.

PERPENDICULAR: EG.ON DRIVEWAYS AND PARKING COURTS	MINIMUM LENGTH (M)	MINIMUM WIDTH (M)
SPACE FOR PEOPLE WITH MOBILITY DIFFICULTIES	5.5	2.9+1.0
STANDARD SPACE (UNOBSTRUCTED)	5.0	2.5
STANDARD SPACE (OBSTRUCTED ON ONE SIDE)	5.0	2.7
STANDARD SPACE [OBSTRUCTED ON BOTH SIDES, INCLUDES CAR PORTS AND UNDERCROFTS]	5.0	2.9
INSIDE GARAGE [GARAGES BELOW THIS WILL NOT COUNT AS A PARKING SPACE ]	6.0	3.0

Design Code - Minimum Space Size

CAR PARKING	PROVISION AT	HEYFORD PAR	RK
NUMBER OF BEDROOMS PER DWELLING	MAXIMUM NUMBER OF ALLOCATED SPACES		
		MINIMUM ALLOCATED SPACES	
1	1.5	1	0.25
2	2	1	0.25
3	3	2	0.25
4+	4	2	0.5

Design Code - Parking Provision

On plot parking

### COMPLIANCY

n/a	No mol	oility units	are	provided.

- Refer to Dwg 0521-PH4-PH5B-109

### COMPLIANCY

- n/a
- Refer to Parking Matrix
- Refer to Parking Matrix
- Refer to Parking Matrix



On street visitor parking

Planning Layout Extracts (Dwg 0521-PH4-PH5B-102)

	Name	Туре	Allocated	Description	Comments:
1	PARKING SQUARE	On/Off-plot	Optional	Group(s) of Parking bays located adjoining the main carriageway providing convenient access to dwellings.	Convenient access to the parking.  Good surveillance from neighbouring properties.
2	LANDSCAPED PARKING COURT	On/Off-plot	Optional	Group(s) of parking bays and/or garages located within a shared countyard	Generally limited to up to 8 dwellings.
3	PARALLEL	On street	Optional	Parking located parallel along the roadside. Accessed directly off the road.	Can be marked or unmarked. Easily accessible.
4	PERPENDICULAR	On plot/On street	Optional	Parking located perpendicular along the roadside. Accessed directly off the road.	Can be marked or unmarked. Easily accessible. Generally suited to streets where speeds are kept to a minimum. Parking to be separated by landscaping and/ or footways into maximum rows of 4N°, bays.
5	MEWS COURT- HOUSE/ COVERED PARK- ING	On/Off-plot	Yes	Terraced garages with residential uses above. Serving dwellings in the vicinity.	Allows enhanced natural surveillance over parking and offers efficient use of land.
6	ATTACHED/ INTEGRAL GARAGE	On-plot	Yes	Private garage adjoining the dwelling, often allowing access into the house.	Can be located against the road or set back to allow parking in front. Convenient access to dwelling. Can be joined to neighbouring garage and allows for room above.
7	DRIVE THROUGH	On-plot	Yes	Parking bay and/or garage accessed through an archway on the street.	Helps avoid a car-dominated street scene whilst providing secure on-plot parking.
8	HARD STANDING	On-plot	Yes	Parking bay located next to the dwelling.	Can be located against the road or set back to allow additional parking in front. Can be joined to neighbouring parking bay.
9	DETACHED GARAGE	On-plot	Yes	Private Garage often located next to the dwelling. Garages to be set back from prominent frontages. Careful design required to mitigate impact of parked cars on the streetscene.	Can be located against the road or set back to allow parking in front. Can be joined to neighbouring garage and allows room above.

Design Code - Parking Typology Table

Character Area	Street type	Design Approach
CA1/CA2/CA3	N/A	The Principal and the Control of the
CA3/CA7/CA8	N/A	Landscaped court encouraged in ca3 edged with tow formal hedge.
CA1/CA2/CA3/ CA5/CA7/	572/5T3/ 512/5T3/	Not allowed on majority of camp road hence excluded from CA4 where away from Village Centre. Parallel parking Is allowed in the Village Centre itself.
CA1/CA2/CA3/ CA5/CA7/CA7/	STACTAL	
CA2	ST3/ST4	
CA2/CA4/CA5/	ST1/	Garages to be set back behind building line with tandem parking allowed in this instance camp road ca4 to serve 2 dwell- ings where possible.
CA2	ST1/ST4	May.have accommodation over access. If not habitable residential then enough depth to provide the appearance of habitable space.
(A)		44
ownerski	SVEZE	Garages to be setback from prominent frontages.

Ų.	COMPLIANCY	
<b>✓</b>	CA6 / CA8	
<b>✓</b>	CA6 / CA8	
<b>√</b>	CA6 / CA8	
<b>√</b>	CA6 / CA8	-
<b>✓</b>	CA6 / CA8	

Design Code - Parking Typology Table

## 2.4 Bus Routes & Refuse Collection

### 2.4.1 Bus Routes and Bus Stops

A bus route will run along the Secondary Street between Phases 4 and 5b.

There are no bus stops within this application.

## 2.4.2 Recycling and Refuse Collection Strategy

The Refuse Storage Plan shows the location of areas for the storage of refuse and recycling. These will be positioned at a maximum distance of 30m from the furthest dwelling curtilage and positioned a maximum of 25m from the nearest adoptable road.

### 2.4.3 Dwelling Refuse

✓ The Planning Layout provides rear access to each dwelling to allow residents to store containers away from frontages and within the dwelling curtilage.

## 2.4.4 Apartments and Village Centre Refuse

There are no apartments proposed within this application.



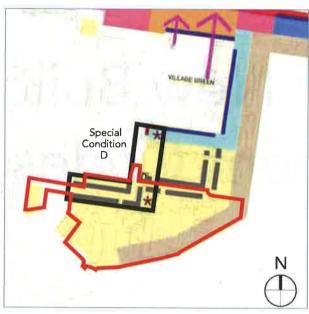
REFUSE STORE LOCATIONS

## New Built Environment Codes

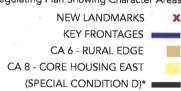
## 3.1 General Urban Design Principles

### 3.1.1 Key Frontages

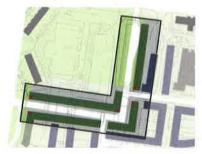
There are no Key Frontages within this Planning Application.



Design Code - Regulating Plan Showing Character Areas



\* The extent of Special Condition Areas D - "Secondary Street Bus Route Through CA7 and CA8" is shown incorrectly on the Regulating Plan and should be as shown below. Refer to Section 3.2.4. Special Condition Areas.



Design Code - Special Condition D

### 3.1.2 Existing & New Landmarks

✓ This Planning Application contains a new landmark within Character Area 8 - Core Housing East.

### 3.1.3 Key Spaces (Gateways)

There are no Key Gateways within this Planning Application.

### 3.1.4 Key Corners

Prominent development parcel corners that turn key corners will become focal points. Refer to Section 3.2 Character Areas - Framework Plans.

### 3.1.5 Building Density & Heights

✓ The Planning Layout complies with the indicative Building Density Plan and the indicative Building Heights Plan.





Design Code - Indicative Building Density Plan



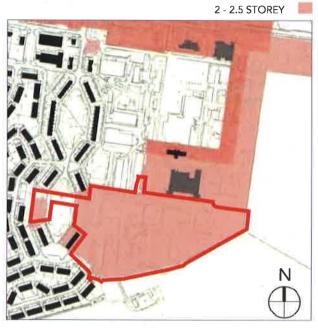
Density

### 3.1.6 Urban Form & Morphology

The way the buildings relate to one another is one of the most important aspects that can be used to define an area's character. These key aspects are addressed for each character area, and include:

- urban form including edge types
- building typology
- density
- building lines
- height / enclosure
- roofscape
- scale and proportion including fenestration
- building detail
- building materials
- landscape design
- parking

The character areas also provide more detail in relation to building heights.



Design Code - Indicative Building Heights Plan



Storey Heights Plan

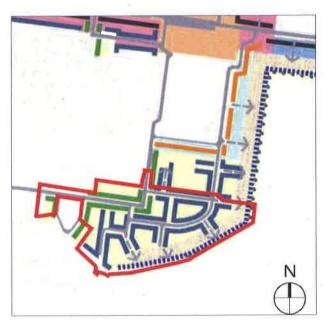
### 3.1.7 Built Form - Plot Structure

- $\checkmark$  Buildings are arranged for the most part in perimeter blocks.
- ✓ Dwellings are terraced, semi-detached linked or detached, according to location.
- ✓ The design of the new areas retains and exploits the pattern of existing east-west axis development (within 30 degrees) to exploit the benefits of solar energy.

### 3.1.8 Edge Types

The application area includes the following Edge Treatments:

- E3 Landscaped Frontages to promote and extend verdant character;
- E4 Park Streets generally core residential areas CA7 CA8;
- E7 Rural Edge is the most irregular frontage, CA6 only.

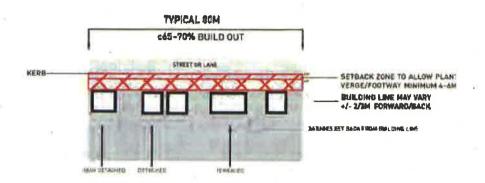


Design Code - Frontages and Edge Treatments

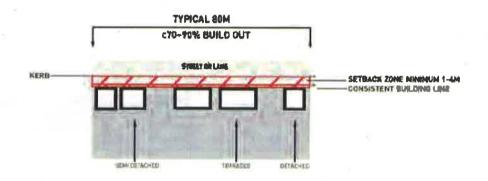
E3 - LANDSCAPED FRONTAGE

E4 - PARK STREETS

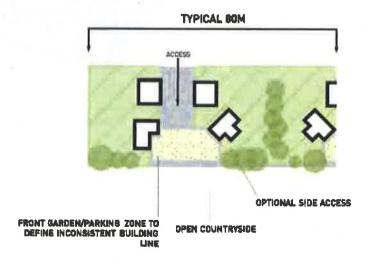
E7 - RURAL EDGE



Design Code - E3 Edge Treatment - Landscaped Frontage



Design Code - E4 Edge Treatment - Park Streets



Design Code - E7 Edge Treatment - Rural Edge

### The Planning Application shows

- E3: 65 70% build out with a building line varying between +/- 2-3m comprising a mix of semi-detached, detached and terraced and a 4-6m min setback zone to allow for a planted verge / footway.
- E4: 70 90% build out with a consistent building line comprising a mix of semi-detached, detached and terraced forms and a 1-4m min setback from back edge of kerb.
- E7: an inconsistent building line defined by front garden / parking zone.



E3 Landscaped Frontage



E4 Park Streets



E7 Rural Edge

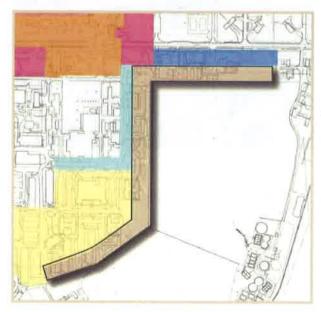
### 3.2 Character Areas

3.2.1 The following sections demonstrate compliance of the Planning Application with the Design Codes for CA6 - Rural Edge and CA8 - Core Housing East.

### 3.2.2 CA6 - Rural Edge

The Planning Application shows:

- Detached dwellings, generally served off private landscaped drives.
- ✓ A more open form with a greater landscape emphasis and increased tree cover.
- ✓ A less formal character that fits with its more rural context.
- A lower density of detached and semidetached dwellings with some smaller terraces, forming loose clusters.
- ✓ Informal layout with less adherence to specific building lines.
- ✓ Greater variety of roof and ridge lines to create a more informal character.
- Development to maximise views over open countryside.



Design Code - Character Area 6 - Rural Edge



Design Code - CA 6 Rural Edge Framework Plan



Character Area CA6 - Rural Edge

#### CA6 - RURAL EDGE

CA6	CODE CATEGORY	DEFINITION IMANDATORY!	
1	URBAN FORM	Adjoining countryside dispersed built form: The area will have an informal character, made up of largely detached and semi-datashed units which will form loose clusters. There should be landscaped areas between groups of dwellings.	
2	BUILDING TYPOLOGY	Heyford Farmhouses     Detached and semi-detached to be dominant built form     Dwellings mit typically be detached or semi-detached.     Short rows of terraces witt also be supported.	
3	DENSITY	•Will generally be low up to 24dph	
4	BUILDING LINES	Irregular with spaces between buildings allowing landscape to dominate     An empirase on informal approach will be required     There will be no formal building line and he informal configuration of dwellings needs to be considered as a whole.	
5	HEIGHT / ENCLOSURE	2-2.5 Storeys (predominantly 2 blurey).	harry seem in
6	ROOFSCAPE	Overhang creating pronounced eaves will be required     Varied eave height and gable ends to animate sides     A variety of roof types are encouraged	
7	SCALE AND PROPORTION	•Asymmetric buildings with either an 'U' or 'T' shaped footprint	
8	BUILDING DETAIL	Door canopies to be simple pitched.     Traditional details, chimneys to act as prominent building feature.     Houses should be all brick or all render only.	
9	BUILDING MATERIALS	Wells - Brick with render Roof - State/State effect/cloy trie:	
10	LANDSCAPE DESIGN	Informal tree planting will soften the urban adge and break up the built form, typically semi-native species and a range of sizes, a areas provide visual transition. Residential frontages to be bounded by soft landscaping.  Development should be landscape led and buildings should "feather" into the rural edge.  The existing site boundary stone wall is to be retained.	shapes and colours. Larger landscape
13	PARKING	Parking will be informally located on plot, or garages or in informal parellet/perpendicular groups in front et idwellings.	

Design Code - CA6 - Rural Edge - Residential - Mandatory & Desired Requirements

### COMPLIANCY

Planning application external building materials reflect Design Code. Refer to Dwg 0521-PH4-PH5B-108- Materials Plan.

### CA6 - RURAL EDGE - MATERIALS (OR SIMILAR APPROVED)

### PREDOMINANT BUILDING WALL MATERIAL



predominantly Red with necasional brown

### SECONDARY BUILDING WALL MATERIAL JUSED TO BREAK UP AND DETAIL ELEVATION



Rander - Instylor Sand Colour

ROOF MATERIALS



### WINDOW COLOUR







## COMMENTS See eage type E7

See building typology table more than 50% of units to be detached.

Opportunity for larger units and wide frontage properties are encouraged.

### See edge type E7

Pronounced eaves may be created by use of exposed rafter feet

No single pitch roof on individual stand alone buildings.

Occasional bay windows to be at least one bay per 5 dwellings encouraged

Materials for garages to be agreed at RMA stage

General planting to be informal with flowering herbaceous and shrub planting in a mix of colours and textures, mature species encouraged with decorative planting of individual 'cottage style' species adjoining houses.

### COMPLIANCY

- Refer to Section 3.1.8 Edge Types
- Refer to Section 3.3.6 Building Typology.
- Refer to Section 3.1.5 Building Density & Heights.
- Refer to Section 3.1.1 Key Frontages & Section 3.1.8 Edge Types.
- $\checkmark$ Refer to Section 3.1.5 Building Density & Heights.
- Refer to Housetype Booklet 0521-PH4-PH5B-200-229 & Dwg 0521-PH4-PH5B-103 - Street Scenes.
- Refer to Planning Layout, Housetype Booklet 0521-PH4-PH5B-200-229 & Dwg 0521-PH4-PH5B-103 - Street Scenes.
- Refer to Housetype Booklet 0521-PH4-PH5B-200-229.
- Refer to Dwg 0521-PH4-PH5B-108 Materials Layout.
- Refer to Section 4.0 Public Realm Codes.
- Refer to Section 2.3 Parking Strategies.

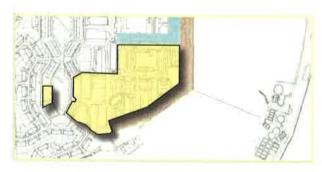
### 3.2.3 CA8 - Core Housing East

The Planning Application shows:

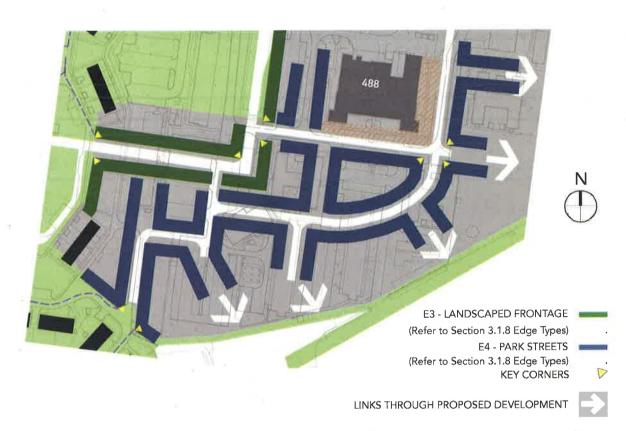
- Simple and formal "perimeter block" housing with a strong sense of public and private realm relationship with fronts facing onto the shared public realm and private backs in the gardens.
- A maximum of 2.5 storey dwellings, with similar, but subtle differences to the form, detailing and range of materials and colours proposed within CA7.

The design approach of the Planning Application is:

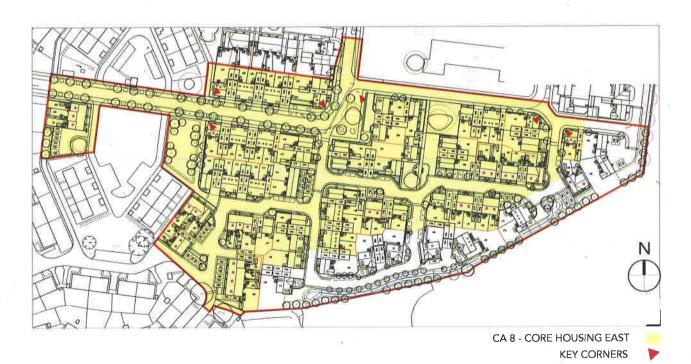
- Character is inspired by simple Arts and Crafts form of Carswell Circle and Officers housing.
- ✓ A mix of formal and informal streets with dwellings providing clear presence and frontage onto streets and public realm.
- Eaves and ridge lines consistent within groups of buildings but may vary along length of street.



Design Code - Character Area 8 - Core Housing East



Design Code - CA 8 Core Housing East Framework Plan



Character Area CA8 - Core Housing East

CA8	CATEGORY	DEFINITION (MANDATORY)
4	URBAN FORM	•Arranged in perimeter blocks with strong distinction between public and private realm •The area should have a mixture of formal and informal streets and places, which will be articulated modulin the landscape and building form and detail •Owellings will provide clear presence and fromage onto streets and public realm
2	BUILDING TYPOLOGY	Detached and samu-detached nousing with short terraces. Buildings will be predominantly single family nomes. Buildings should be arranged in groups of 4 – 8 units which share similar characteristics to provide consistency across the street scene.
1	DENSITY	Oencity Will typically be 30 - 35 diph but will vary through the site.
4	BUILDING LINES	Frontage in terms of setback may vary depending on edge type     Building lines should be consistent between groups of buildings but may vary along the length of the street     Building lines will be permitted to vary forward or back to give emphasis in key locations
-5	HEIGHT / ENCLOSURE	•2-25 Storeys (predominantly 2 storey).
6	ROOFSCAPE	Eaves and ridge linus will typically be consistent between groups of buildings, but may vary along the length of a street     Ourmer windows should be well set back to break up the roof line.
7	SCALE AND PROPORTION	Buildings and fenestration to encourage asymmetric buildings form, proportionate in scale and plot size to its surrounding context.
8	BUILDING DETAIL	Transforut details, perchip to be pitched or that canopy with mandatory changes in sanopy design between neighbouring dwallings.     The houses should be conjugated to ensure, wherever possible, that windows to habitable rooms from onto the street and public reatm.     Owellings should be designed to onsure that there are no blank walls onto the street and public reatm.
9	BUILDING MATERIALS	Walls Brick and render Roof - StaterState affect and big
10	LANDSCAPE DESIGN	Soft landscaping to be simple and larglay open frontages     Planting to be used screen and break up parking areas.
íi.	PARKING	Parking will predominantly be on pict.     Parking will be configured as part of the public reality design.

Design Code - CA8 - Core Housing East - Mandatory & Desired Requirements

### COMPLIANCY

Planning application external building materials reflect Design Code. Refer to Dwg 0521-PH4-PH5B-108 - Materials Plan.

### CA8 - HOUSING WEST - MATERIALS (OR SIMILAR APPROVED)

PREDOMINANT BUILDING WALL MATERIAL



with accasional brown





ROOF MATERIALS



WINDOW/FENESTRATION COLOUR





### COMMENTS

Sire adgle types EJEJEJEJEJ

Development that followers of Carewell Circle should have consistent ridge and save heights, building lines, massing with detail to the existing buildings development proposals to address effective retention of Building 488

See building typology table. Terraces encouraged to provide consistency across frontages and limit narrow gaps between smaller house types.

See edge types E2/E3/E4/E5.

Preference for 2 6 storay to be used on

50% of dwellings have gable or dormer within roof form.

Consistency of building scale encouraged with groups of 4-10 buildings that share similar characteristics

Occasional chimneys to act as building feature. Occasional bay windows Window size may vary across elevation.

Predominantly brick, occasional render Predominantly state effect, occasional tile Hender whole awelling where used. Materials to be agreed at RMA stage

Street trees to be formal in habit along tertiary streets and secondary streets; and informal along shared surface streets and lanes.

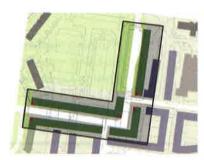
### COMPLIANCY

- Refer to Section 3.1.8 Edge Types.
- Refer to Section 3.3.6 Building Typology.
- Refer to Section 3.1.5 Building Density & Heights
- Refer to Section 3.1.1 Key Frontages & Section 3.1.8 Edge Types.
- Refer to Section 3.1.5 Building Density & Heights.
- Refer to Housetype Booklet 0521-PH4-PH5B-200-229 & Dwa 0521-PH4-PH5B-103 - Street Scenes.
- Refer to Planning Layout, Housetype Booklet 0521-PH4-PH5B-200-229 & Dwg 0521-PH4-PH5B-103 - Street Scenes.
- Refer to Housetype Booklet 0521-PH4-PH5B-200-229.
- Refer to Dwg 0521-PH4-PH5B-108 Materials Layout.
- Refer to Section 4.0 Public Realm Codes.
- Refer to Section 2.3 Parking Strategies.

### 3.2.4 Special Conditions Areas

Certain areas require a special approach in response to particular opportunities and constraints, a distinct design over and above that set out by the character definition.

The north western area of the Planning Application includes a section of "Special Condition Area D - Secondary Street (bus route) through new (east/west) core housing".



Design Code - Special Condition D

	CODE	DETINITION IMANDATORY!
1	URBAN FORM	The Area should have generally formal streets are places which will be arrestated through the landscape and bellowing term and dotor  One-charge will provide coor accessed and frontage onto secondary areas and public restre.  •Buildings adjacent to padestrian connections to the buildings were should they corner and have organized presents.
ž	BUILDING TYPOLOGY	Markly detached and norm-detached nausing with short threades.     Buildings will be predominantly single family homes.     Buildings should be arranged in groups of 8-10 units which share similar characteristics to provide consistency across the street scone.     Somer runner buildings are required at Rev junctions. These buildings should have greater presence and sightfactural detail.
3	DENSITY	• Demany with hyperanty bit 30–30 debt boy, with sarry revokings the sale.
4	BUILDING LINES	Suitaing frontage setback zone from kerb edge to promote wider scale to street and promote tree planting.     Building lines will be permitted to move forward on back to give emphasis in key locations.
5:	HEIGHT / ENGLOSURE	+7/2/55(phy)
6	ROOFSCAPE	Eaves and ridge lines will typically be consistent between groups of buildings, but may very along the length of a street     Ourmer windows should be well set back to break up the roof line.
7	SCALE AND PROPORTION	Bunding depth to promote complementary asymmetric buildings.
8	BUILDING DETAIL	Traditional details, with front door canopy and changes in canopy design between neighbouring dwellings (where not in terrace).  The houses should be configured to ensure that wind the fact table norms front ento the street and public realm.  Owellings should be designed to ensure that there are no blank walls onto the street and public realm.
9	BUILDING MATERIALS	Walls - Predominantly areas with limited rander.  - Roof = Stand/State office and tife.
10	LANDSCAPE DESIGN	Soft landscaping to be simple and largely open.  •Emphania un providing apieco for street tires.
11	PARKING	Plange of parking intrappes following good enaction guidanon.     The shine is sure, a more perking can be quested to write one afficiency.     Parking, will be prodominantly on that     Parking will be prodominantly on that     Parking will be prodominantly on that

Design Code - Special Condition Area D - Secondary Street Bus Route Through CA7 & CA8

# COMPLIANCY Refer to Section 3.1.8 Edge Types.

- Refer to Section 3.3.6 Building Typology.
- Refer to Section 3.1.5 Building Density & Heights.
- Refer to Section 3.1.1 Key Frontages & Section 3.1.8 Edge Types.
- Refer to Section 3.1.5 Building Density & Heights.
- Refer to Housetype Booklet 0521-PH4-PH5B-200-229 & Dwg 0521-PH4-PH5B-103 - Street Scenes.
- Refer to Planning Layout, Housetype Booklet 0521-PH4-PH5B-200-229 & Dwg 0521-PH4-PH5B-103 - Street Scenes.
- Refer to Housetype Booklet 0521-PH4-PH5B-200-229.
- Refer to Dwg 0521-PH4-PH5B-108 Materials Layout.
- Refer to Section 4.0 Public Realm Codes.
- Refer to Section 2.3 Parking Strategies.

building typology table

подплуров ЕЗ

owance for dwelling to have gable or mar within routspace

ndow size may vary across elevation or canopias to be simple pitched, assonal bay windows: nder encouraged on landmark building

casional chimneys to act us building

dominantly brick; occurrently render dammanily stare effect, occusional risc

our trees to be formal in habit along carry streets and secondary streets; and irmal along tharod surface streets and

# 3.3 Building Types

# 3.3.1 Built Form Guidance - Streetscene Overview

The Planning Application shows:

- Creation of active street frontages through movement at building entrances and visibility through fenestration.
- ✓ Visible end elevations treated as part of the street scene.
- Dwellings will have living spaces fronting streets. No bathrooms or ancillary rooms to dominate street frontage / public realm.

## 3.3.2 Building Detail

The Planning Application shows:

✓ A relatively simple palette of materials which vary according to character area.

Refer to Dwg 0521-PH4-PH5B-103 Street Scenes and Dwg 0521-PH4-PH5B-108 Materials Layout.

# 3.3.3 Built Form - Architectural Design

The Planning Application shows:

- ✓ Modulation of structural form to create varied, identifiable character. This includes:
- Deep eaves to provide shading and modelling on walls.
- ✓ Use of simple projections including window bays to provide modulation and shading.
- ✓ Use of deeper door and window reveals (min 65mm) to give a sense of depth to openings.

#### 3.3.4 Built Form Guidance - Fenestration

The Planning Application shows:

- A hierarchy of parts, reflecting the relative importance of their functions. This includes:
- Entrances emphasised through set backs, recesses, canopies and steps.
- Windows of principal rooms (eg lounges and main bedrooms) expressed through larger size or greater prominence.
- Windows are located to allow ease of surveillance of property, especially at entrances.
- Scale and proportions of windows have been considered in relation to the facade composition.

#### 3.3.5 Built Form - Materials

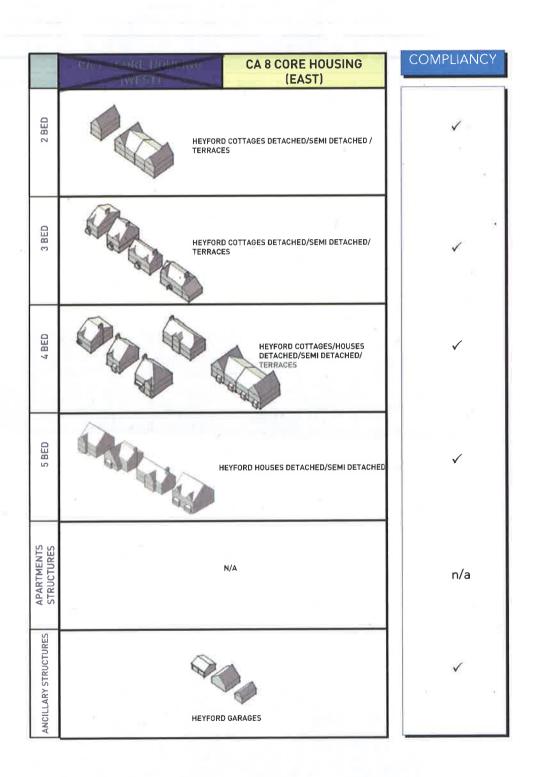
The Planning Application shows:

- A limited palette of materials which reflect the early 20thC Arts and Crafts architecture, and generally:
- Maximum 3-4 finishes in a single elevational composition.
- Change of materials used to express geometry of the building design rather than just for variety.
- Where buildings form a focus or marker, their main architectural elements such as entrances or projecting elements will be emphasised to create a feature.

# 3.3.6 Building Typology

The Planning Application complies with the Building Typology Codes as follows:

	CA 6 - RURAL EDGE	COMPLIANCY
2 BED	N/A	2 beds included in design for market purposes
3 BED	N/A	3 beds included in design for market purposes
4 BED	HEYFORD FARMHOUSES DETACHED/SEMI DETACHED	<b>*</b>
5 BED	HEYFORD FARMHOUSES DETACHED/SEMI DETACHED	<b>✓</b>
APARTMENTS STRUCTURES	n/A	n/a
ANCILLARY STRUCTURES	HEYFORD BARNS	<b>✓</b>





STREET SCENE 1 - CORE HOUSING EAST



STREET SCENE 2 - CORE HOUSING EAST



STREET SCENE 3 - RURAL EDGE







Street Scenes (Dwg 0521-PH4-PH5B-103)

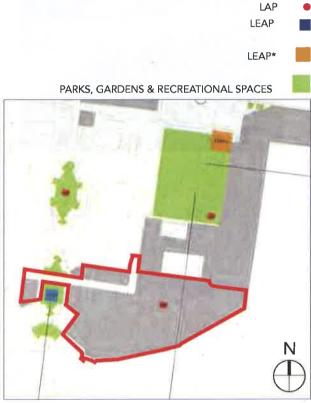
4

# Public Realm Codes

# 4.1 Landscape Strategy & Placemaking

#### 4.1.1 Public Realm Code

The overall design and character of the public realm will help establish a clear and unified vision for the site that will transcend several development parcels. The design rationale for the external spaces varies depending on location and function, the key aspects of which are scale and orientation of open space, existing landscape features and planting and how this approach links to private gardens and frontages.



Design Code - Landscape Strategy Plan

## 4.1.2 Landscape Proposals

The landscape proposals have been designed in close association with the design team and client to help create a cohesive feel to the overall development, creating a contemporary and visually interesting setting to the new buildings.

The proposals shown on the detailed landscape reflect the need for a high quality scheme which links with the architectural style and prominence. Where space allows strategically placed trees along garden frontages and road verges will help to break up the building mass, these predominantly native tree species will link the adjacent trees and woodland areas creating 'green-corridors' through the development and beyond into the surrounding landscape.

Hard landscape treatments as described above will be designed to create interesting features and inviting exploration of the various open spaces.

Open space both within the site and surrounding environs helps to create a relatively soft setting to the scheme, the large area of open space to the village green has a relatively formal character and helps to unify the overall development proposals.

Robust yet simple landscape planting will be implemented which encapsulates a green structure of low native hedgerows, through which larger yet generally small canopied street trees will be implemented such as Tilia and Betula.

All of the retained trees which will be made safe and managed appropriately to an agreed programme of works. Generally, where space permits native shrub planting will be implemented to include species such as Holly, Dogwood & field maple to create vertical height and structure below the existing tree canopies and to help a green matrix throughout the site. It is anticipated that overall the proposals will encourage a range of birds and invertebrates typically found in gardens in the local area and to further this aim, new and existing tree species will be provided with bat and bird boxes.

Whilst the scheme is relatively tight regarding physical space for planting to individual plots the key landscape strategy is to create belts of colour to house frontages, this will be in the form of shrub and herbaceous planting to break the linearity with belts of smooth, curving planting with the structure of low/medium/high planted in waves wrapping through the scheme and leading through from primary to secondary routes, this will unify the scheme and create a sense of place and arrival.

The Local Areas for Play (LAPs) within these phases of the scheme has been designed to provide safe and secure areas for the local residents. The LAPs are individually designed to create distinct characters, specific to each phase, and thus improve orientation and enable local residents to experience a 'sense of ownership' of each space. The general palette of materials consists of selfbinding gravel, benches and open areas of grass with shrub and tree planting. The planting varies between the different LAPS, but is chosen to provide seasonal variation in colour, with strong colours and fragrance to appeal to younger user groups. Feature trees and existing trees have been used to create features of visual interest, and areas of dappled shade. Taller shrubs are located around the boundaries of the spaces to buffer external road activities and noise.

The benches are located to allow resting places whilst overseeing play within the space. Furthermore, each LAP is designed to be surrounded by a bow-top railing (approximately 1200mm in height) and self-closing gate, to enable a secure space for play but with good intervisibility to outside, thus creating a strong perception of safety and prevent any feeling of enclosure.



# 4.2 Play Areas

# 4.2.1 Play Areas

The application area contains 1 LAP. The Planning Application shows:

- This will be a landscaped space offering a variety of play experiences.
- Located to allow for surveillance and in open, welcoming locations and away from major vehicle movements and accessible directly from pedestrian routes.
- An open, unfenced play area.
- The LAP will contain a minimum of 2 pieces of equipment (or one multiuse piece of equipment and / or seating).
- The LAP will have a buffer zone of 5m from activity zone to forward most part of dwelling.

#### 4.2.2 Pocket Parks

There are no Pocket Parks within this Planning Application.

# 4.3 Boundary Treatments & Street Furniture

### 4.3.1 Boundary Treatments

Refer to Section 3.2 Character Areas.

## 4.3.2 Street Furniture

- Street furniture will be coordinated across Heyford Park to create identity and be area specific with an emphasis on timber furniture in the informal landscape areas and more metal street furniture on more formal areas (eg Village Centre).
- Street furniture will be coordinated and will be of a design to reflect the architecture.
- Height of street lighting columns will emphasise size of space, subject to Section 38 Technical Submission.
- Street name signage will be attached to buildings wherever possible to minimise clutter.

# 5

# Sustainable Design & Infrastructure

# 5.1 Drainage Infrastructure

## 5.1.1 On Site Drainage Strategy

The Approved Flood Risk Assessment (FRA) prepared by Waterman sets out the approach to drainage and attenuation across the Upper Heyford site. The FRA makes the following statements/indications:

- The proposed surface water strategy must mimic the existing situation, restricting flows to the existing rate while taking climate change into account.
- Surface water attenuation will be provided through the use of permeable paving and attenuation tanks where necessary. Swales will be incorporated within the development parcels where appropriate.
- The potential for infiltration techniques will also be investigated further at the detailed design stage, to confirm whether soakage rates are favourable.
- The area known as RMA2 falls within existing catchment area 2 which outfall to the south of the development as part of the "central diversion" network.

#### 5.1.2 Adoption Strategy

It is envisaged that:

- All new primary drainage runs (generally) located within adoptable roads) are to be adopted by the Water Company subject to a Section 104 application.
- All existing drainage downstream of the proposed drainage outfalls are to be adopted by the Water Company subject to a Section 102 application.

- All gullies serving the proposed adoptable roads are to be adopted by the County Council subject to a Section 38 application.
- All Storage tanks and swales are to be maintained by the Water Company or management company.
- All drainage not covered by the above will be the responsibility of the homeowners or management company.

#### 5.1.3 Surface water strategy overview

The proposed surface water drainage system will be separate from the foul water system.

Due to the shallow groundwater and underlying rock encountered within the development, infiltration is not a suitable as the primary surface water discharge method for the scheme.

The proposed system has been designed using the latest version of micro drainage simulation software for storm events up to and including a 1 in 100 year return period plus a 30% allowance for climate change.

The area known as RMA2 includes:

- Phase 3 (parcels D1a and D2a)
- Phase 4 (parcels D3a and D4a)
- Phase 5 (former school site D6a)
- Phase 5b (parcel D4a north and D4a west)
- Phase 6 (parcel D4b)
- Cricket pitch

The design for RMA2 has been modelled as a complete system with no additional restrictions limiting where each individual parcel starts/ ends. The maximum surface water storage volume estimated for each phase is as follows:

- Phase 3 174.8m3
- Phase 4 1263.3m3
- Phase 5 374m3
- Phase 5b 150m3
- Phase 6 214.5m3
- Parcel D4a west 0m3

The current design incorporated Hydrobrakes and orifices to restrict the speed of water passing through the system. Where water backs up due to these controls, oversized pipes and storage tanks have been utilised to ensure the water can be stored within the underground system.

In places the oversized pipes are shown as "twin" runs. This is due to the shallow nature of the drainage system defined by the level of the outfall.

The current design contains 1962.1m cu of underground storage tanks, the majority of which are 1.0m deep and are located within parking or other accessible areas.

A swale is also proposed for surface water attenuation and is currently located along the southern boundary. The swale has been designed as 132m long, 500mm deep with 1:3 side slopes.

The planning layout also requires a length of porous paving (on Phase 6). This will be lined and used for additional below ground attenuation.

Extreme event flood water is to be stored within the road. The proposed site levels will be designed so that the water will be directed away from the entrances to the proposed buildings and flow along designated flood routes.

It is proposed that the cricket pitch will drain by shallow infiltration trenches. This is subject to detailed design.

RMA2 discharges into the existing network to the south west of the phase. Water in the existing network passes through an existing petrol interceptor before discharging to a concrete culvert/ ditch.

In addition to the petrol interceptor, trapped gully pots will provide further protection against contamination from hydrocarbons.

The existing discharge rate at the outfall from the development which includes RMA2 during a 1 in 100 year storm event has been calculated as 253.6l/s.

The proposed discharge rate at the outfall from the development which includes RMA2 during a 1 in 100 year storm event plus a 30% allowance for climate change has been calculated as 250.21/s.

There is no above ground uncontrolled flooding during a 1 in 100 year event including a 30% allowance for climate change.

#### 5.1.4 SUDS

The SUDS elements proposed on RMA2 (and the downstream system) are:

- Flow control manholes
- Underground tanks
- Porous paving
- Petrol interceptor
- Swale

# 5.2 Building Construction

## 5.1.5 Foul Drainage

The area known as RMA2 has been designed as a complete system with no additional restrictions limiting where each individual parcel starts/ ends.

The majority of the scheme will flow by gravity through the "central diversion" network, under the Farmer's field to the east and into the existing Sewage Treatment Works.

Based on the current layout and preliminary levels design, 10 plots will discharge into the existing pumpstation located to the South West of RMA2.

# 5.2.1 Building Fabric to Achieve Reduction in Carbon Emissions

The development will be constructed using the latest in building techniques and to the current building regulations.

A full construction specification document has been submitted as part of the application for the approval of reserved matters.

